



Full wwPDB X-ray Structure Validation Report ⓘ

Jun 16, 2014 – 07:38 PM BST

PDB ID : 4V5A
Title : Structure of the Ribosome Recycling Factor bound to the *Thermus thermophilus* 70S ribosome with mRNA, ASL-Phe and tRNA-fMet
Authors : Weixlbaumer, A.; Petry, S.; Dunham, C.M.; Selmer, M.; Kelley, A.C.; Ramakrishnan, V.
Deposited on : 2007-06-28
Resolution : 3.50 Å(reported)

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

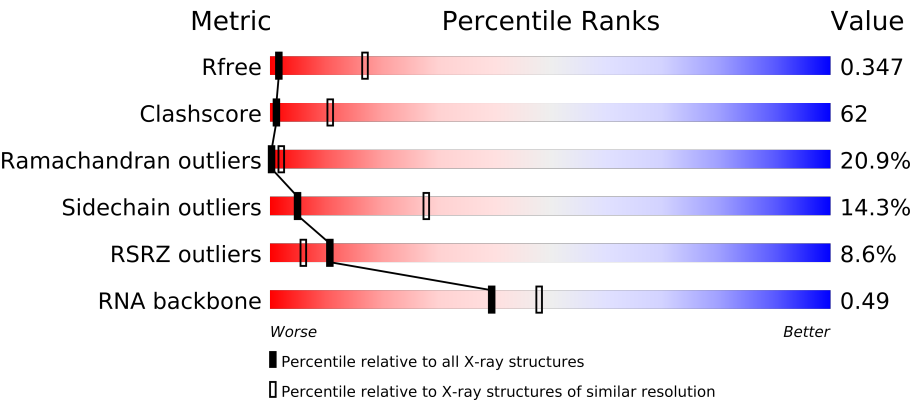
The following versions of software and data (see [references](#)) were used in the production of this report:

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 3.50 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R _{free}	66092	1243 (3.70-3.30)
Clashscore	79885	1039 (3.66-3.34)
Ramachandran outliers	78287	1000 (3.66-3.34)
Sidechain outliers	78261	1000 (3.66-3.34)
RSRZ outliers	66119	1243 (3.70-3.30)
RNA backbone	1838	1007 (4.22-2.76)

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 ≥ 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	135	
12	CL	135	
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	CV	76	
23	AW	77	
23	CW	77	
24	AX	31	
24	CX	31	
25	AY	185	
25	CY	185	
26	B0	85	
26	D0	85	
27	B1	98	
27	D1	98	

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Mol	Chain	Length	Quality of chain
28	B2	72	
28	D2	72	
29	B3	60	
29	D3	60	
30	B4	71	
30	D4	71	
31	B5	60	
31	D5	60	
32	B6	54	
32	D6	54	
33	B7	49	
33	D7	49	
34	B8	65	
34	D8	65	
35	BA	2782	
35	DA	2782	
36	BB	122	
36	DB	122	
37	BC	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	
43	DI	148	
44	BN	140	
44	DN	140	
45	BO	122	
45	DO	122	
46	BP	150	
46	DP	150	
47	BQ	141	
47	DQ	141	
48	BR	118	
48	DR	118	
49	BS	112	

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Mol	Chain	Length	Quality of chain
49	DS	112	
50	BT	146	
50	DT	146	
51	BU	118	
51	DU	118	
52	BV	101	
52	DV	101	
53	BW	113	
53	DW	113	
54	BX	96	
54	DX	96	
55	BY	110	
55	DY	110	
56	BZ	206	
56	DZ	206	
57	DC	229	

2 Entry composition

There are 59 unique types of molecules in this entry. The entry contains 290487 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	125	Total	C	N	O	S	0	0	1
			971	611	196	163	1			
12	CL	125	Total	C	N	O	S	0	0	1
			971	611	196	163	1			

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

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

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

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 P-SITE RNA ASL-PHE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	AV	17	Total	C	N	O	P	0	0	0
			362	163	68	115	16			
22	CV	17	Total	C	N	O	P	0	0	0
			362	163	68	115	16			

- Molecule 23 is a RNA chain called TRNA-FMET.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	AW	77	Total	C	N	O	P	0	0	0
			1641	733	297	535	76			
23	CW	77	Total	C	N	O	P	0	0	0
			1641	733	297	535	76			

- Molecule 24 is a RNA chain called MRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	AX	11	Total	C	N	O	P	0	0	0
			230	104	38	78	10			
24	CX	11	Total	C	N	O	P	0	0	0
			230	104	38	78	10			

- Molecule 25 is a protein called RIBOSOME RECYCLING FACTOR.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	AY	185	Total	C	N	O	S	0	0	0
			1478	924	270	282	2			
25	CY	185	Total	C	N	O	S	0	0	0
			1478	924	270	282	2			

- Molecule 26 is a protein called 50S RIBOSOMAL PROTEIN L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	B0	85	Total	C	N	O	S	0	0	0
			652	403	137	111	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	D0	85	Total	C	N	O	S	0	0	0
			652	403	137	111	1			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B0	6	ALA	GLY	CONFLICT	UNP P60493
B0	8	ALA	GLY	CONFLICT	UNP P60493
D0	6	ALA	GLY	CONFLICT	UNP P60493
D0	8	ALA	GLY	CONFLICT	UNP P60493

- Molecule 27 is a protein called 50S RIBOSOMAL PROTEIN L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	B1	89	Total	C	N	O		0	0	1
			693	435	140	118				
27	D1	89	Total	C	N	O		0	0	1
			693	435	140	118				

- Molecule 28 is a protein called 50S RIBOSOMAL PROTEIN L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	B2	51	Total	C	N	O	S	0	0	1
			421	263	85	72	1			
28	D2	51	Total	C	N	O	S	0	0	1
			421	263	85	72	1			

- Molecule 29 is a protein called 50S RIBOSOMAL PROTEIN L30.

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

- Molecule 30 is a protein called 50S RIBOSOMAL PROTEIN L31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	B4	50	Total	C	N	O		0	0	1
			242	143	50	49				
30	D4	50	Total	C	N	O		0	0	1
			242	143	50	49				

- Molecule 31 is a protein called 50S RIBOSOMAL PROTEIN L32.

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

- Molecule 32 is a protein called 50S RIBOSOMAL PROTEIN L33.

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

- Molecule 33 is a protein called 50S RIBOSOMAL PROTEIN L34.

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

- Molecule 34 is a protein called 50S RIBOSOMAL PROTEIN L35.

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	BA	2767	Total	C	N	O	P	0	0	0
			59601	26526	11153	19156	2766			
35	DA	2767	Total	C	N	O	P	0	0	0
			59601	26526	11153	19156	2766			

- 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				

- 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			
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			
43	DI	146	Total	C	N	O	S	0	0	1
			1132	723	201	207	1			

- Molecule 44 is a protein called 50S RIBOSOMAL PROTEIN L13.

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

- Molecule 45 is a protein called 50S RIBOSOMAL PROTEIN L14.

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

- Molecule 46 is a protein called 50S RIBOSOMAL PROTEIN L15.

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

- Molecule 47 is a protein called 50S RIBOSOMAL PROTEIN L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	BQ	136	Total	C	N	O	S	0	0	0
			1080	688	204	183	5			
47	DQ	136	Total	C	N	O	S	0	0	0
			1080	688	204	183	5			

- Molecule 48 is a protein called 50S RIBOSOMAL PROTEIN L17.

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

- Molecule 49 is a protein called 50S RIBOSOMAL PROTEIN L18.

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

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

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

- Molecule 51 is a protein called 50S RIBOSOMAL PROTEIN L20.

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

- Molecule 52 is a protein called 50S RIBOSOMAL PROTEIN L21.

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

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

- Molecule 53 is a protein called 50S RIBOSOMAL PROTEIN L22.

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

- Molecule 54 is a protein called 50S RIBOSOMAL PROTEIN L23.

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

- Molecule 55 is a protein called 50S RIBOSOMAL PROTEIN L24.

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

- Molecule 56 is a protein called 50S RIBOSOMAL PROTEIN L25.

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

- Molecule 57 is a protein called 50S RIBOSOMAL PROTEIN L1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
57	DC	191	Total	C	N	O	S	0	0	1
			1143	692	221	230				

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
DC	106	ALA	GLY	CONFLICT	UNP Q5SLP7
DC	132	ALA	GLY	CONFLICT	UNP Q5SLP7

- Molecule 58 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
58	BA	445	Total Mg 445 445	0	0
58	AK	1	Total Mg 1 1	0	0
58	DF	5	Total Mg 5 5	0	0
58	CV	4	Total Mg 4 4	0	0
58	D2	2	Total Mg 2 2	0	0
58	BE	1	Total Mg 1 1	0	0
58	AW	23	Total Mg 23 23	0	0
58	DU	3	Total Mg 3 3	0	0
58	B1	4	Total Mg 4 4	0	0
58	BP	3	Total Mg 3 3	0	0
58	AX	5	Total Mg 5 5	0	0
58	CN	1	Total Mg 1 1	0	0
58	DN	2	Total Mg 2 2	0	0
58	CA	208	Total Mg 208 208	0	0
58	B5	2	Total Mg 2 2	0	0
58	BB	20	Total Mg 20 20	0	0
58	AE	2	Total Mg 2 2	0	0
58	DG	1	Total Mg 1 1	0	0
58	D3	1	Total Mg 1 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
58	BF	4	Total 4	Mg 4	0	0
58	AV	4	Total 4	Mg 4	0	0
58	BX	2	Total 2	Mg 2	0	0
58	B2	2	Total 2	Mg 2	0	0
58	AA	204	Total 204	Mg 204	0	0
58	D7	1	Total 1	Mg 1	0	0
58	CX	4	Total 4	Mg 4	0	0
58	DV	1	Total 1	Mg 1	0	0
58	AM	1	Total 1	Mg 1	0	0
58	BU	2	Total 2	Mg 2	0	0
58	AD	2	Total 2	Mg 2	0	0
58	BN	4	Total 4	Mg 4	0	0
58	DH	1	Total 1	Mg 1	0	0
58	BG	1	Total 1	Mg 1	0	0
58	DS	1	Total 1	Mg 1	0	0
58	DE	2	Total 2	Mg 2	0	0
58	B3	1	Total 1	Mg 1	0	0
58	DX	3	Total 3	Mg 3	0	0
58	DA	441	Total 441	Mg 441	0	0
58	B7	1	Total 1	Mg 1	0	0
58	AL	2	Total 2	Mg 2	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
58	AG	1	Total 1	Mg 1	0	0
58	BO	1	Total 1	Mg 1	0	0
58	D1	4	Total 4	Mg 4	0	0
58	DP	4	Total 4	Mg 4	0	0
58	CW	23	Total 23	Mg 23	0	0
58	D5	1	Total 1	Mg 1	0	0
58	BD	3	Total 3	Mg 3	0	0
58	CE	3	Total 3	Mg 3	0	0
58	CG	1	Total 1	Mg 1	0	0
58	DD	3	Total 3	Mg 3	0	0
58	CL	2	Total 2	Mg 2	0	0
58	DB	19	Total 19	Mg 19	0	0

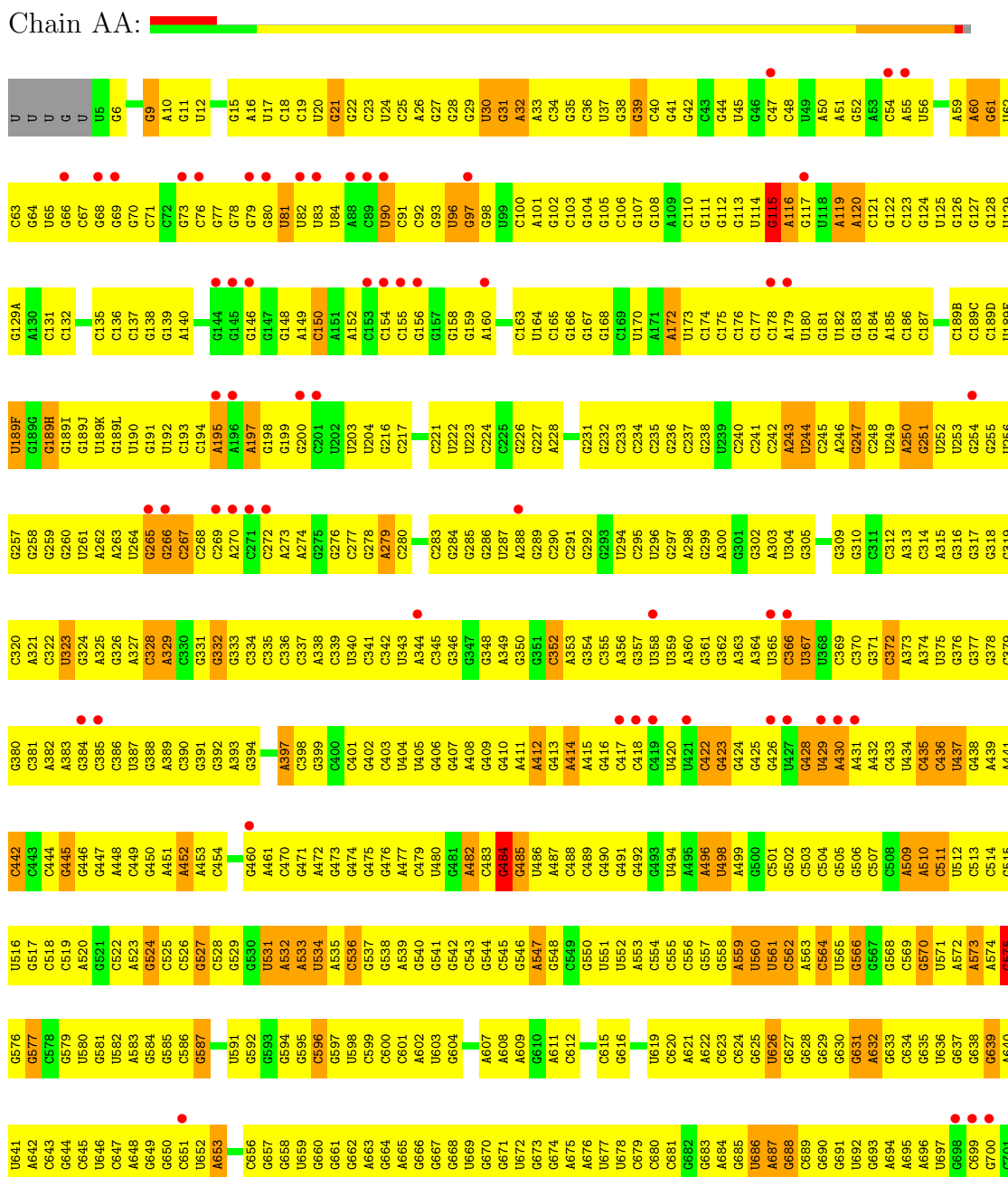
- Molecule 59 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
59	CN	1	Total 1	Zn 1	0	0
59	AD	1	Total 1	Zn 1	0	0
59	CD	1	Total 1	Zn 1	0	0
59	AN	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.

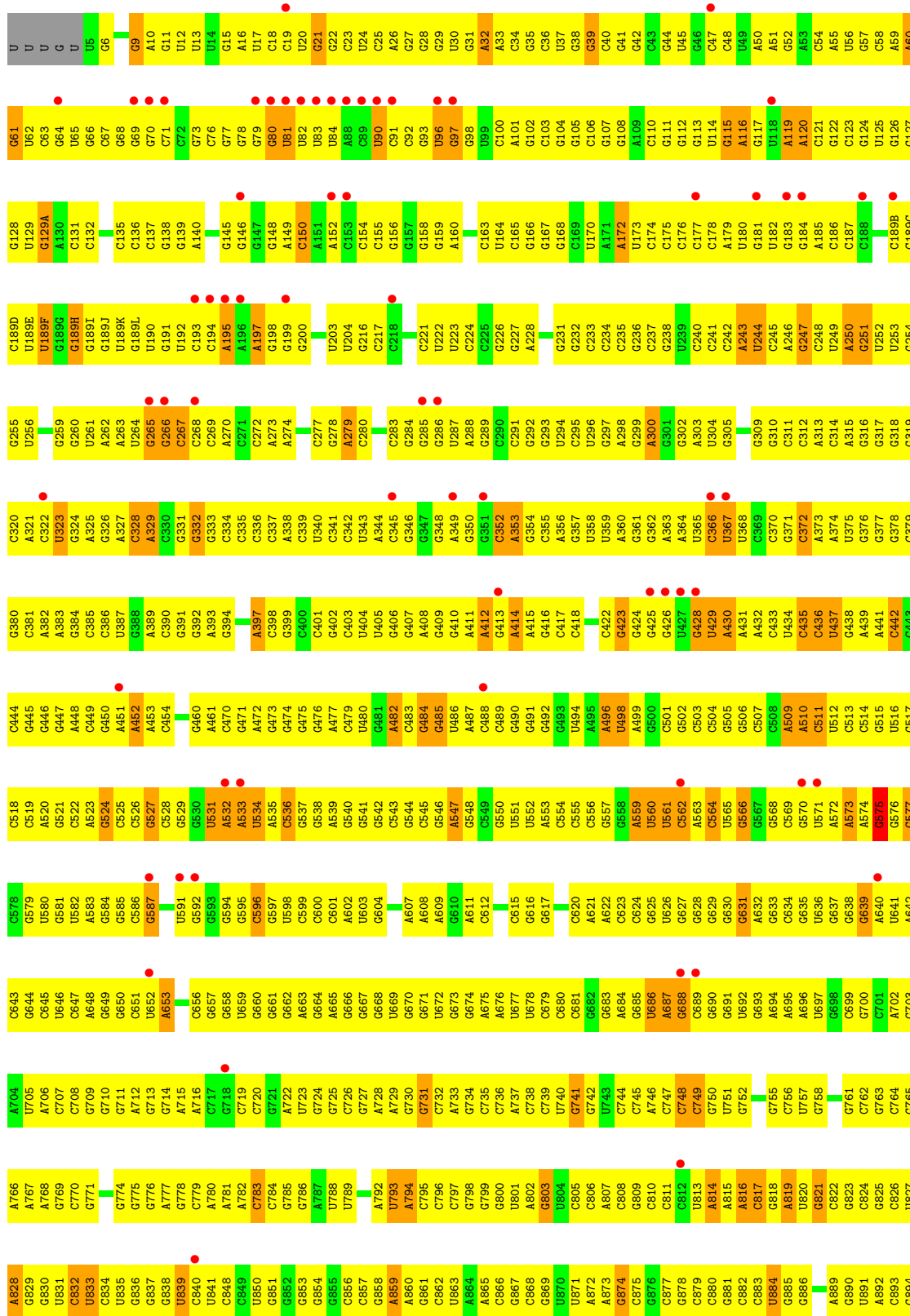
• Molecule 1: 16S RRNA

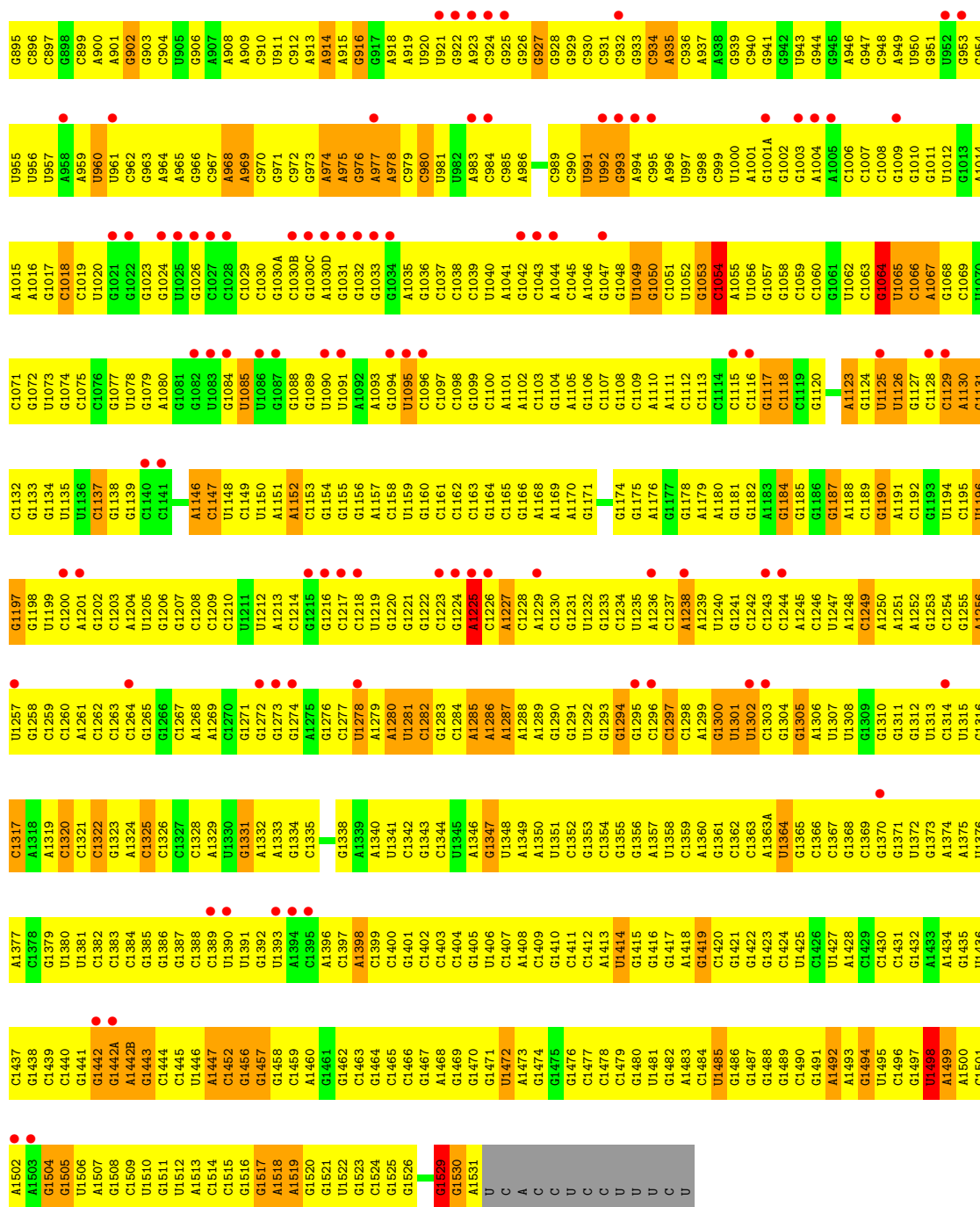


C1509	G1442A	U1381	C1320	C1260	G1134	U1073	G1017	U957	G895	U827	G765	A702
U1510	A1442B	C1382	C1321	A1261	U1136	G1074	C1018	A958	C896	A828	A766	G703
U1511	G1443	C1383	C1322	C1262	C1137	C1076	C1019	A959	C897	G829	A767	A704
U1512	C1444	C1384	C1323	C1263	C1138	C1077	U1020	U960	G898	G830	A768	U705
A1513	U1445	G1385	A1324	C1264	G1139	U1078	G1021	U961	C899	U831	A769	A706
C1514	U1446	G1386	C1325	G1265	G1140	G1079	G1022	C962	A900	C832	C770	C707
C1515	A1447	C1387	C1326	G1266	G1141	G1080	G1023	G963	A901	U833	C771	C708
G1516	C1452	C1388	C1327	C1267	A1146	G1081	U1024	A964	G902	C834	G774	G709
G1517	G1456	C1389	C1328	A1268	C1147	U1082	U1025	A965	U935	U835	G775	G710
A1518	G1457	U1390	A1329	A1269	U1148	U1083	G1026	G966	G966	G836	G776	A712
A1519	G1458	U1391	C1330	C1210	U1149	U1084	C1027	C967	C904	G837	G777	A713
G1520	C1459	G1392	G1331	C1270	U1150	G1085	C1028	A968	A908	G838	G778	G714
G1521	A1460	U1393	A1332	G1271	U1151	U1086	U1029	C970	C910	U839	C779	A715
U1522	C1463	C1394	A1333	G1272	A1152	U1087	C1030	C971	G911	C840	A780	A716
G1523	G1464	C1395	C1334	A1273	C1153	G1088	G1030A	C972	U911	U841	A781	C719
G1524	C1465	C1396	C1335	G1274	G1154	U1089	C1030B	C973	A913	C948	A782	G720
G1525	C1466	G1397	C1336	G1275	G1155	U1090	A1030C	G974	A914	G851	C783	C721
G1526	G1398	C1398	C1337	G1276	G1156	U1091	A1030D	A975	A915	G852	C784	G722
G1527	G1400	C1400	G1338	U1278	C1157	U1092	G1031	C976	G916	G853	G785	A723
U1528	G1401	G1401	A1339	A1279	C1158	A1093	G1032	A977	G917	G854	G786	U724
A1469	C1468	C1402	A1340	A1280	U1159	G1094	G1033	C978	G918	G855	A787	G725
G1470	G1470	C1403	C1341	U1281	G1160	U1095	A1035	C979	A919	G856	U788	G726
G1471	C1404	C1342	C1342	C1282	C1161	C1096	A1036	C980	U920	C857	U789	G727
U1472	U1472	G1472	G1343	G1283	C1162	C1097	G1037	U981	U921	G858	U790	C727
A1473	A1473	U1405	G1344	C1284	G1163	C1098	C1038	U982	G922	A859	G791	A728
G1474	G1474	C1407	A1346	A1285	G1164	C1099	C1039	A983	A923	A860	A792	A729
C1475	G1475	G1475	C1347	A1286	C1165	U1099	U1040	C984	C924	G861	U793	G730
G1476	C1476	C1476	A1348	A1287	G1166	C1100	A1041	C985	G925	C962	A794	G731
C1477	C1477	C1411	A1349	C1288	A1168	A1101	G1042	A986	G926	U863	C795	C732
C1478	C1478	C1412	A1350	A1289	A1169	A1102	C1043	C989	G927	A864	C796	A733
C1479	C1479	A1413	U1351	G1290	A1170	C1103	A1044	C990	G928	A865	C797	G734
C1480	C1480	U1414	C1352	C1291	G1171	G1104	C1045	U991	G929	C866	G798	C735
U1481	U1415	G1415	G1353	U1292	C1172	A1105	A1046	U992	C930	C867	G799	C736
U1416	G1416	C1293	C1354	G1293	G1173	G1106	G1047	U993	C931	C868	U801	A737
A1483	G1417	G1294	G1355	C1294	G1174	C1107	G1048	G993	C932	C869	A802	C738
C1484	A1418	C1295	G1356	G1295	G1175	G1108	U1049	A994	G933	U870	C803	U740
U1485	G1419	C1296	A1357	C1296	A1176	C1109	A1050	C995	C934	U871	U804	G741
G1486	C1420	C1297	U1358	C1297	C1177	A1110	G1051	A996	A935	A872	C805	G742
G1487	G1421	C1298	C1359	C1298	G1178	A1111	U1052	U997	C936	A873	C806	U743
G1488	G1422	A1299	A1360	A1299	A1179	C1112	G1053	G998	A937	C874	A807	C744
G1489	G1423	G1300	G1361	U1240	A1180	C1113	C1054	C999	A938	C375	G808	C745
C1490	C1424	U1301	C1362	G1241	G1181	C1114	A1055	U1000	G939	G876	C809	A746
U1425	U1425	C1302	C1363	C1242	A1182	C1115	U1056	U1001	C940	C377	C810	C747
C1426	C1426	U1303	A1363A	C1243	A1183	C1116	G1057	G1001A	G941	G878	C811	
U1427	U1427	G1304	U1364	C1244	G1184	G1117	G1058	G1002	G942	C379	C748	
A1483	A1483	G1305	U1365	A1245	G1185	C1118	C1059	U1003	U943	C380	C749	
G1494	U1495	A1306	C1366	C1246	G1186	C1119	G1060	A1004	G944	C881	G750	
U1496	C1496	U1307	C1367	U1247	G1187	G1120	G1061	A1005	G945	C882	U751	
G1497	G1497	U1308	G1368	A1248	A1188	C1121	U1062	C1006	A946	A814	G752	
U1498	U1498	U1309	C1369	C1249	A1189	A1123	C1063	C947	C948	A816	C817	
A1499	A1499	G1310	C1370	A1250	G1190	G1124	G1064	U1007	G949	U884	C818	G755
A1500	A1500	G1311	G1372	A1251	A1191	U1125	C1065	C1008	C948	C817	A819	C756
C1501	G1435	C1312	G1373	A1252	C1192	U1126	U1066	G1009	A949	G885	U820	U757
A1502	A1502	C1313	A1374	G1253	G1193	U1127	C1067	G1010	U950	G886	G821	G758
A1503	G1437	C1314	A1375	C1254	U1194	A1067	G1068	A889	G951	C889	C822	
G1438	U1376	U1315	U1376	G1255	U1195	C1129	C1069	U952	U952	C890	G823	G761
C1439	A1377	G1316	A1377	A1256	U1196	A1130	U1070	G1013	G953	C891	G824	C762
U1440	C1378	C1317	C1378	U1257	G1197	G1131	A1014	A1015	G954	A815	C825	G763
G1441	G1379	A1318	G1379	C1258	G1198	C1132	A1015	A1016	U956	A816	C826	C764
G1442	G1508	A1507	U1380	C1259	U1199	G1133	G1072					

• Molecule 1: 16S rRNA

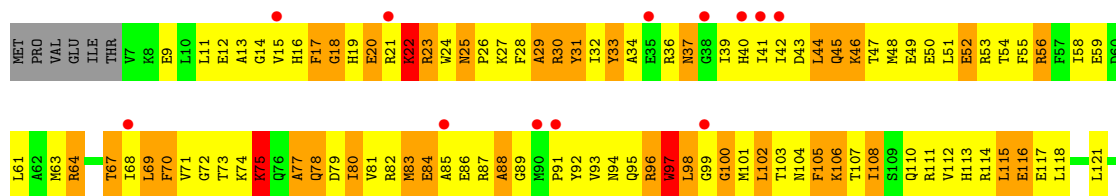
Chain CA:

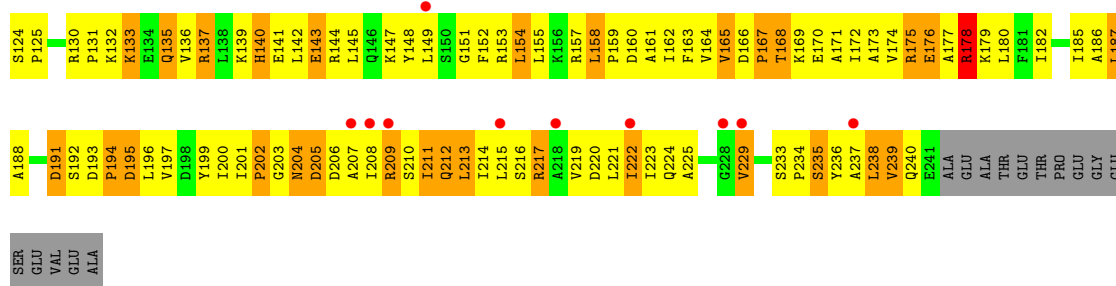




• Molecule 2: 30S RIBOSOMAL PROTEIN S2

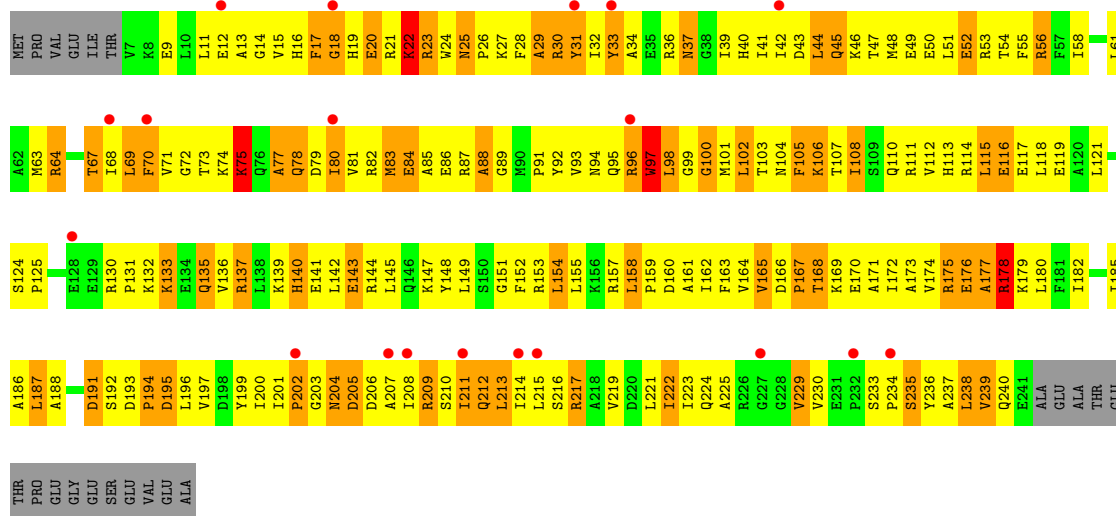
Chain AB:





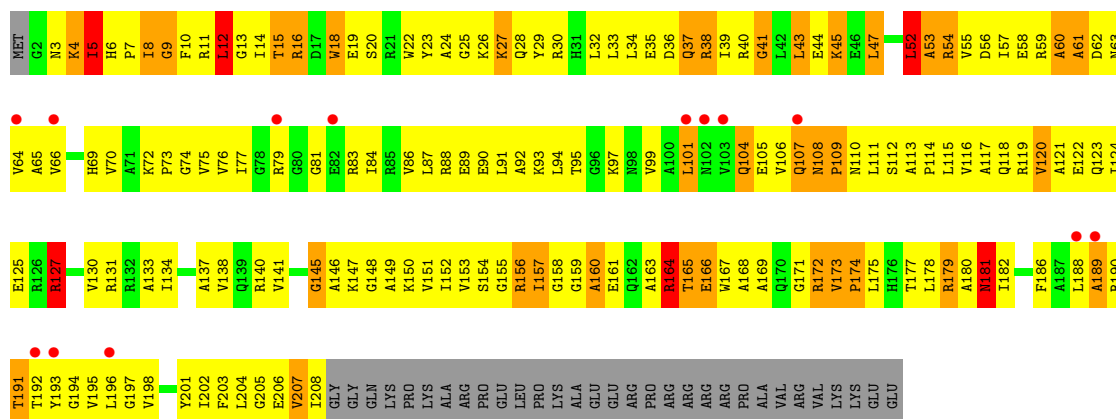
• Molecule 2: 30S RIBOSOMAL PROTEIN S2

Chain CB:



• Molecule 3: 30S RIBOSOMAL PROTEIN S3

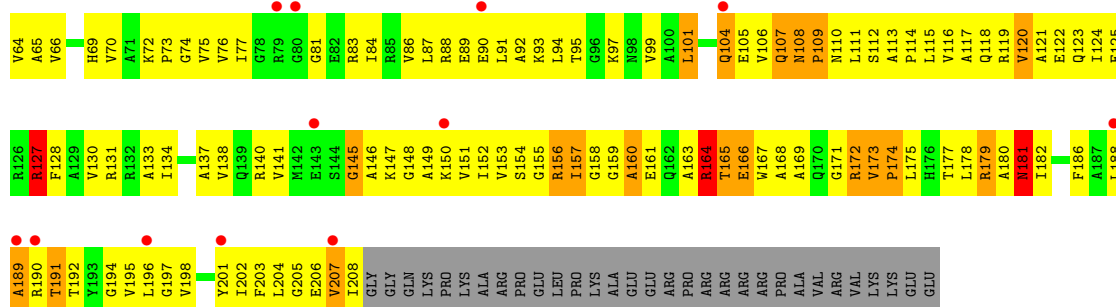
Chain AC:



• Molecule 3: 30S RIBOSOMAL PROTEIN S3

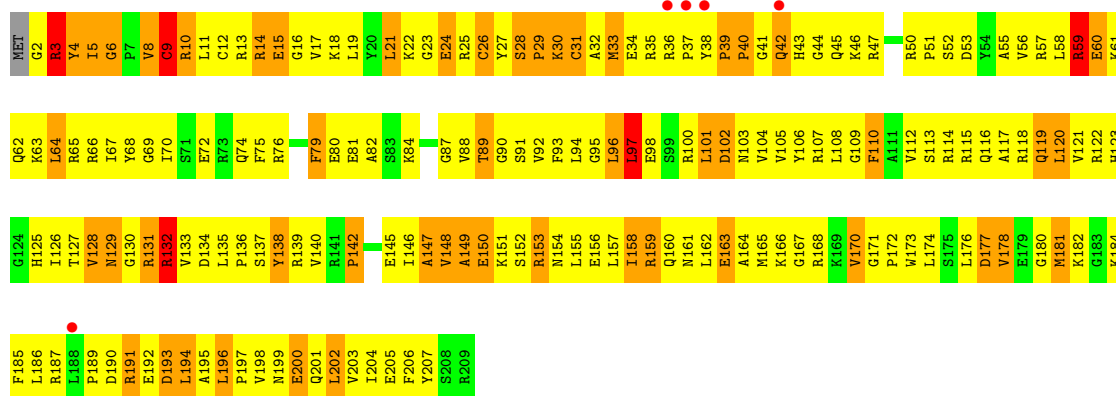
Chain CC:





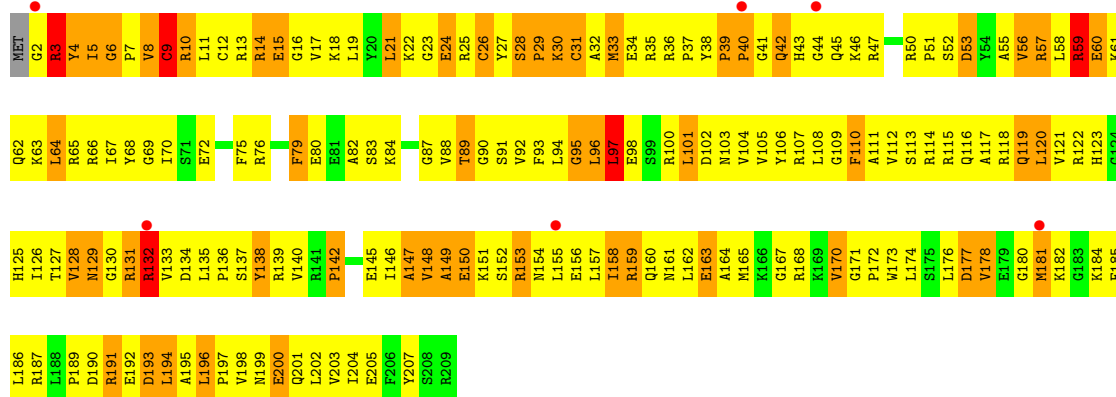
• Molecule 4: 30S RIBOSOMAL PROTEIN S4

Chain AD:



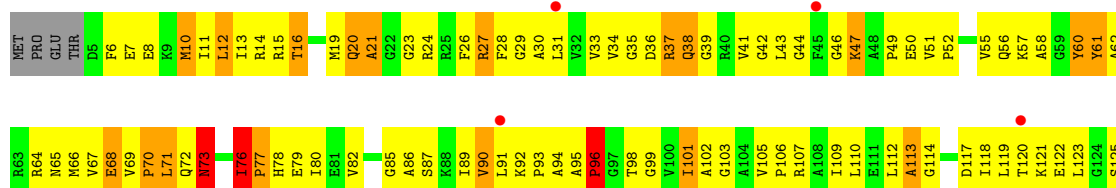
• Molecule 4: 30S RIBOSOMAL PROTEIN S4

Chain CD:



• Molecule 5: 30S RIBOSOMAL PROTEIN S5

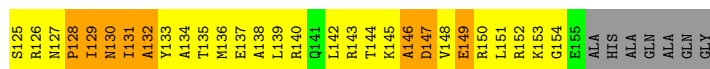
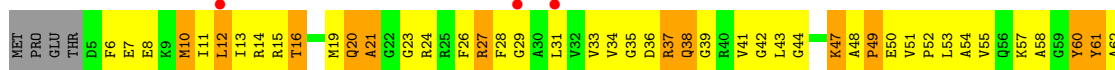
Chain AE:





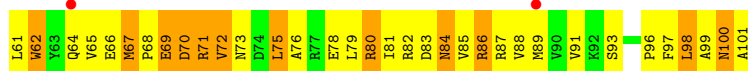
- Molecule 5: 30S RIBOSOMAL PROTEIN S5

Chain CE:



• Molecule 6: 30S RIBOSOMAL PROTEIN S6

Chain AF:



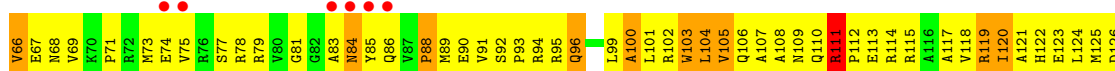
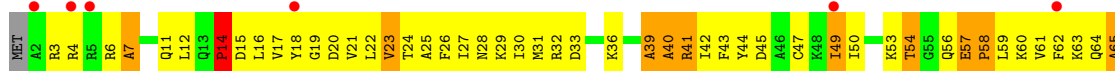
- Molecule 6: 30S RIBOSOMAL PROTEIN S6

Chain CF:



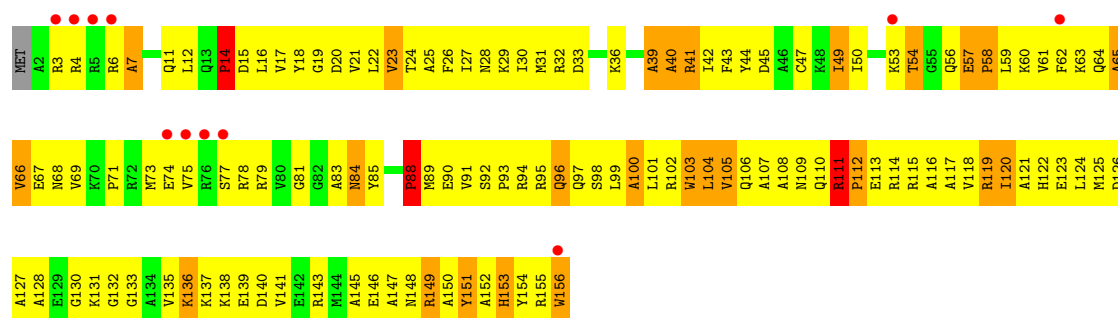
● Molecule 7: 30S RIBOSOMAL PROTEIN S7

Chain AG:



• Molecule 7: 30S RIBOSOMAL PROTEIN S7

Chain CG:



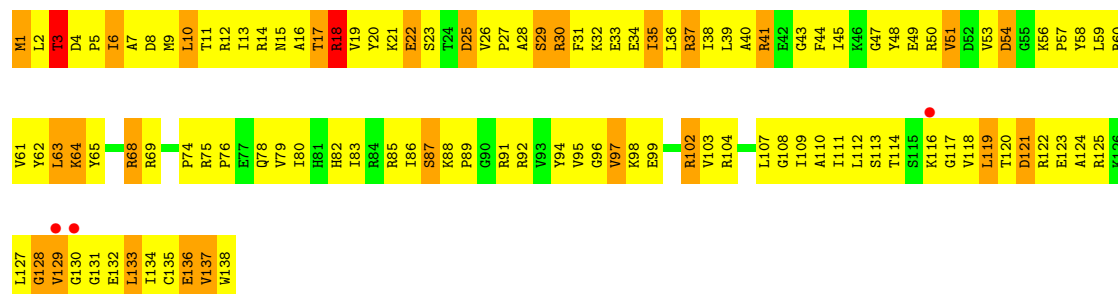
• Molecule 8: 30S RIBOSOMAL PROTEIN S8

Chain AH:



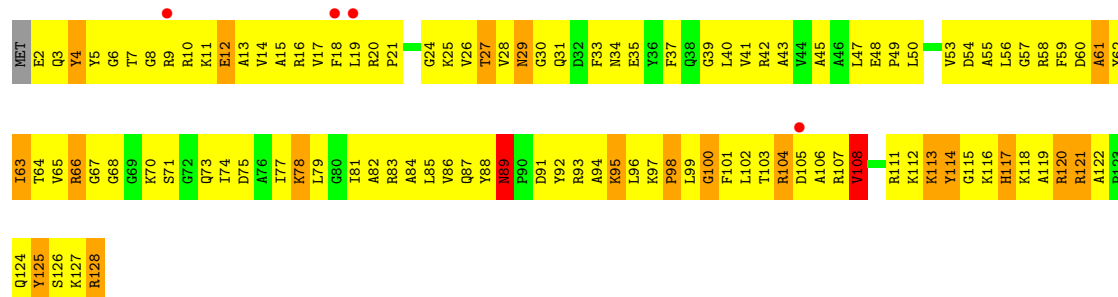
• Molecule 8: 30S RIBOSOMAL PROTEIN S8

Chain CH:



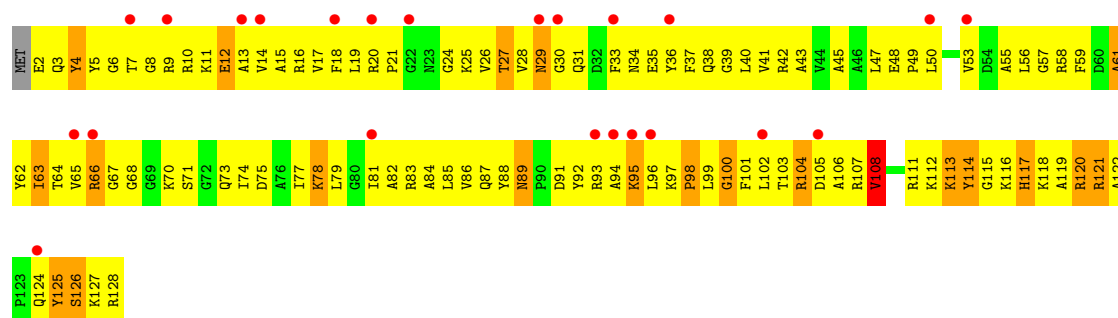
• Molecule 9: 30S RIBOSOMAL PROTEIN S9

Chain AI:



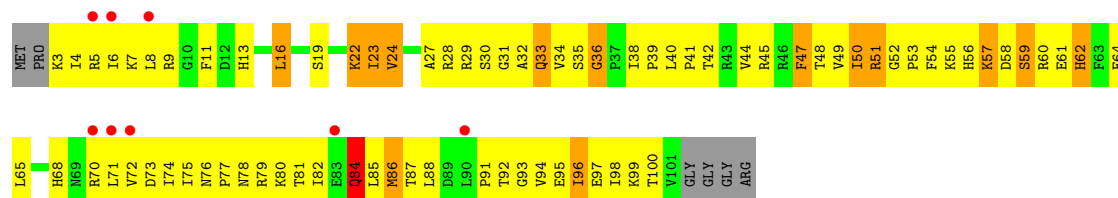
• Molecule 9: 30S RIBOSOMAL PROTEIN S9

Chain CI:



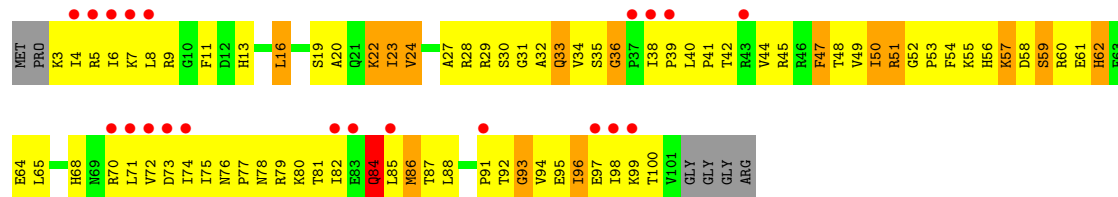
• Molecule 10: 30S RIBOSOMAL PROTEIN S10

Chain AJ:



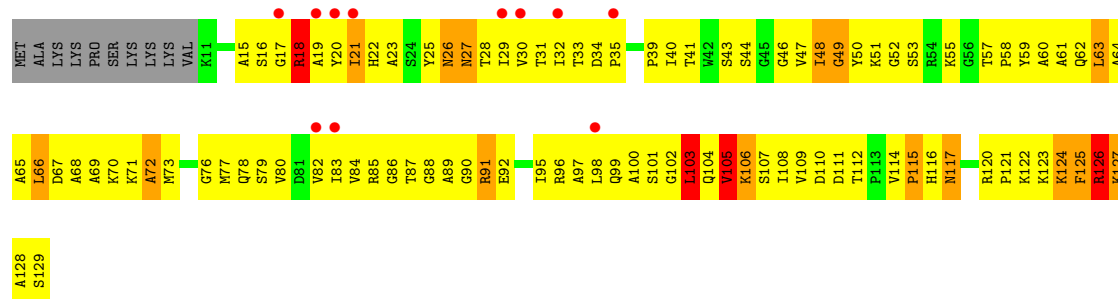
• Molecule 10: 30S RIBOSOMAL PROTEIN S10

Chain CJ:



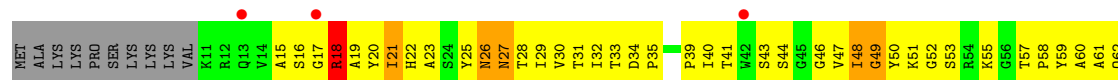
• Molecule 11: 30S RIBOSOMAL PROTEIN S11

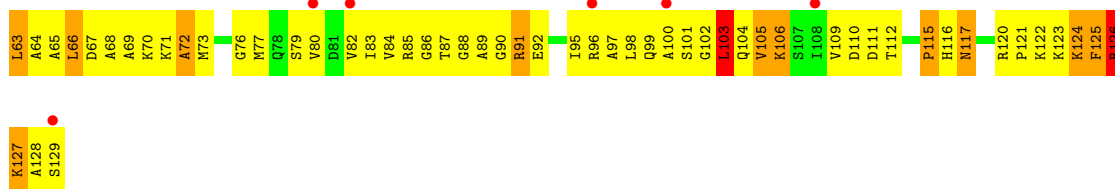
Chain AK:



• Molecule 11: 30S RIBOSOMAL PROTEIN S11

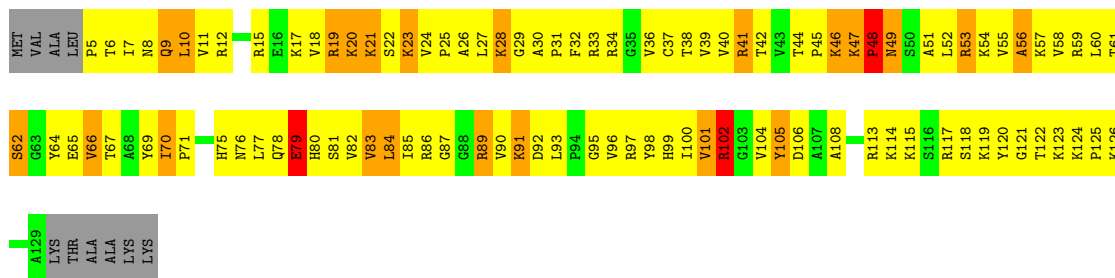
Chain CK:





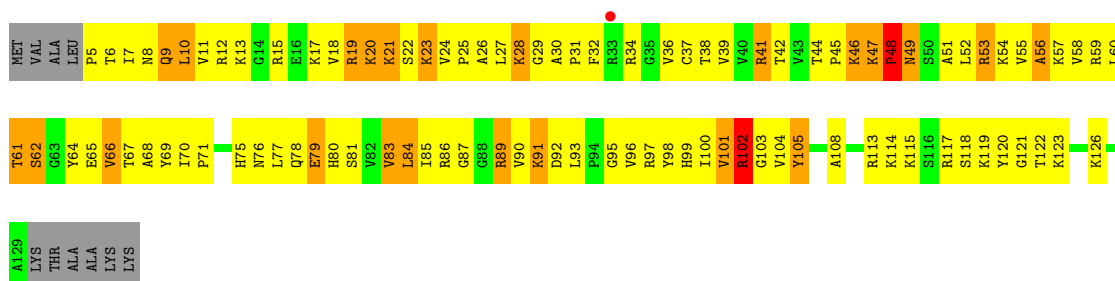
• Molecule 12: 30S RIBOSOMAL PROTEIN S12

Chain AL:



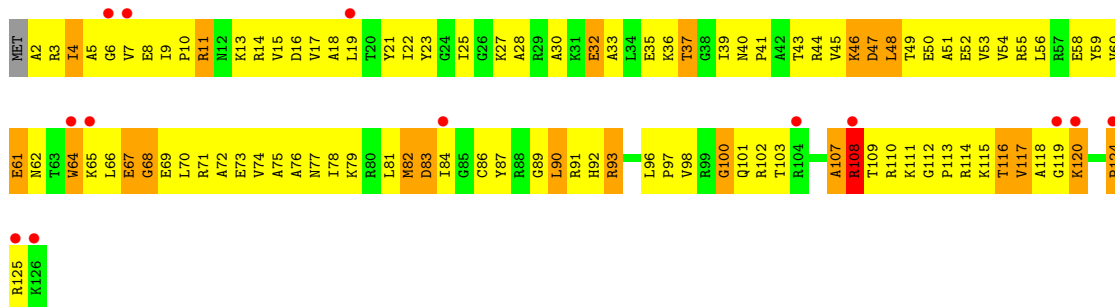
• Molecule 12: 30S RIBOSOMAL PROTEIN S12

Chain CL:



• Molecule 13: 30S RIBOSOMAL PROTEIN S13

Chain AM:



• Molecule 13: 30S RIBOSOMAL PROTEIN S13

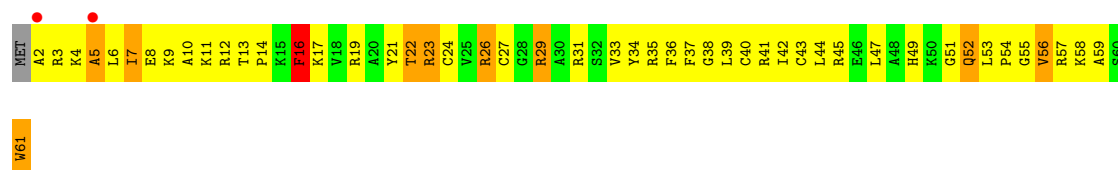
Chain CM:





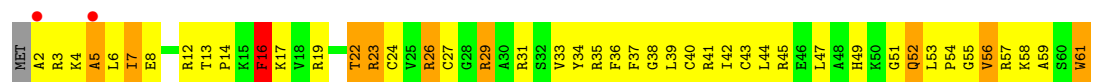
• Molecule 14: 30S RIBOSOMAL PROTEIN S14

Chain AN:



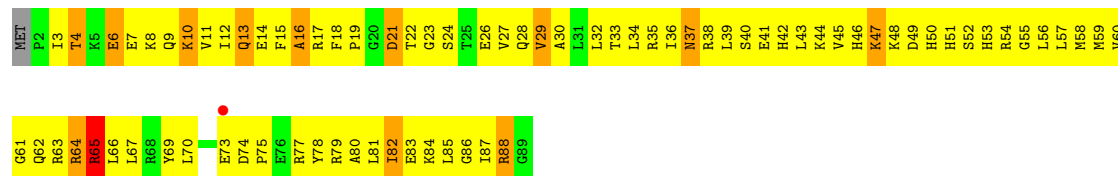
• Molecule 14: 30S RIBOSOMAL PROTEIN S14

Chain CN:



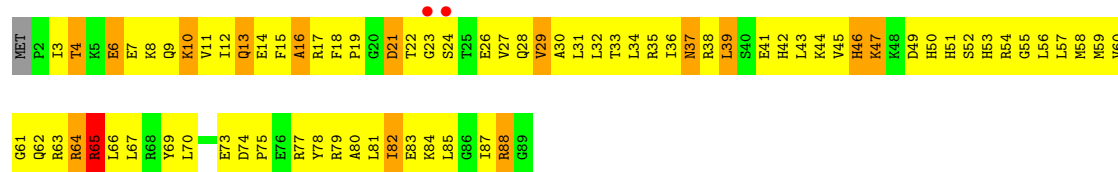
• Molecule 15: 30S RIBOSOMAL PROTEIN S15

Chain AO:



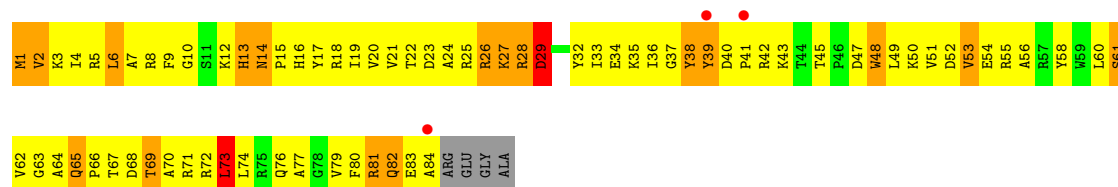
• Molecule 15: 30S RIBOSOMAL PROTEIN S15

Chain CO:



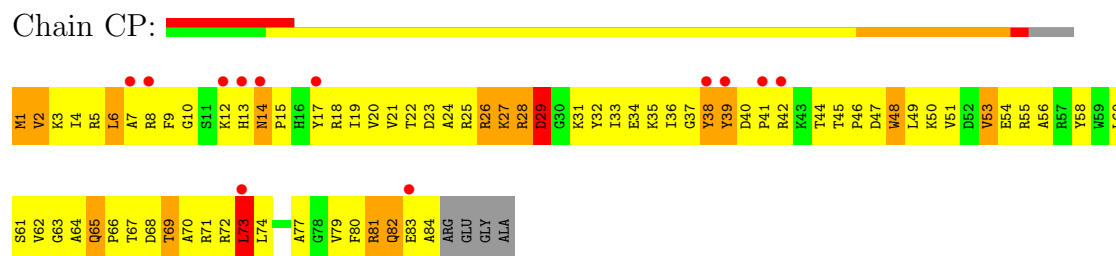
• Molecule 16: 30S RIBOSOMAL PROTEIN S16

Chain AP:



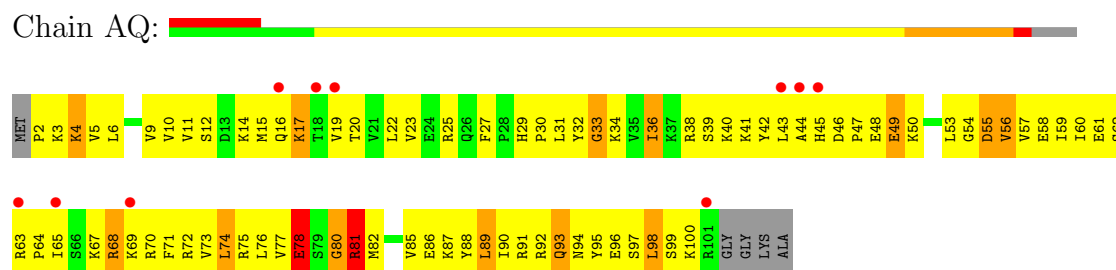
● Molecule 16: 30S RIBOSOMAL PROTEIN S16

Chain CP:



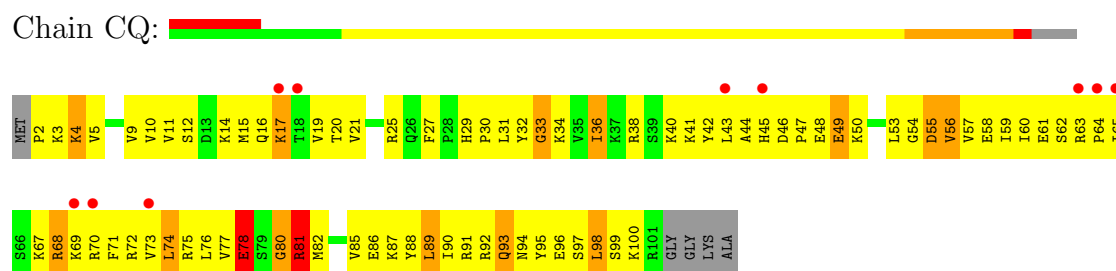
• Molecule 17: 30S RIBOSOMAL PROTEIN S17

Chain AQ:



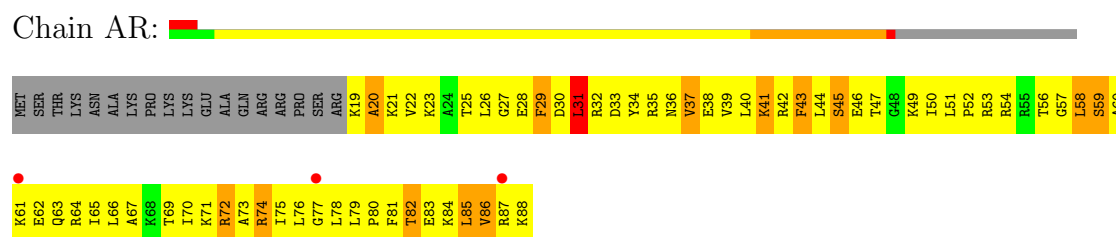
• Molecule 17: 30S RIBOSOMAL PROTEIN S17

Chain CQ:



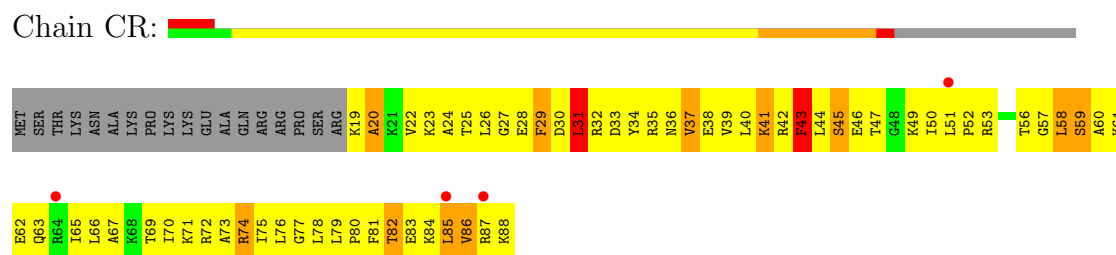
- Molecule 18: 30S RIBOSOMAL PROTEIN S18

Chain AR:



● Molecule 18: 30S RIBOSOMAL PROTEIN S18

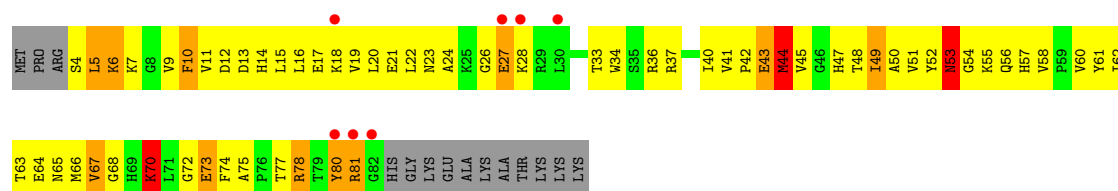
Chain CR:



● Molecule 19: 30S RIBOSOMAL PROTEIN S19

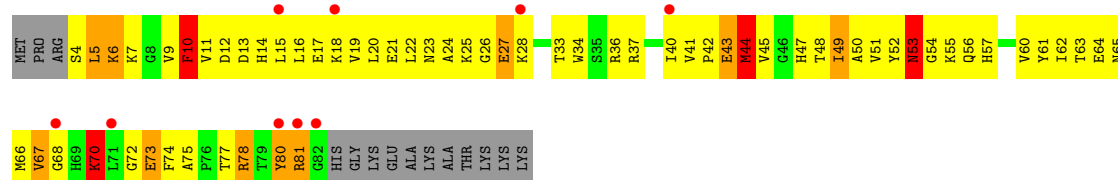
Chain AS:





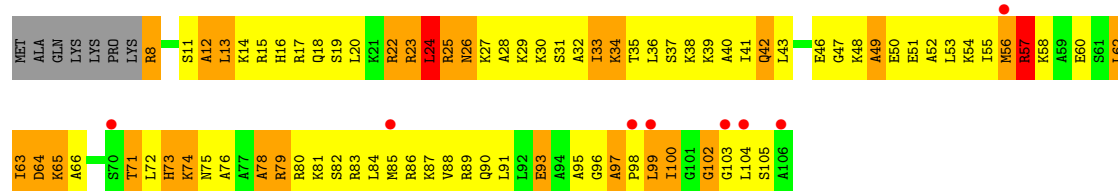
• Molecule 19: 30S RIBOSOMAL PROTEIN S19

Chain CS:



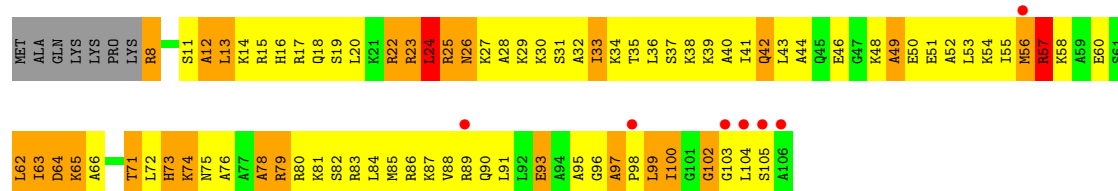
• Molecule 20: 30S RIBOSOMAL PROTEIN S20

Chain AT:



• Molecule 20: 30S RIBOSOMAL PROTEIN S20

Chain CT:



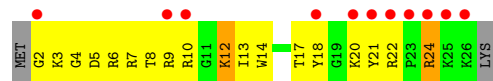
• Molecule 21: 30S RIBOSOMAL PROTEIN THX

Chain AU:



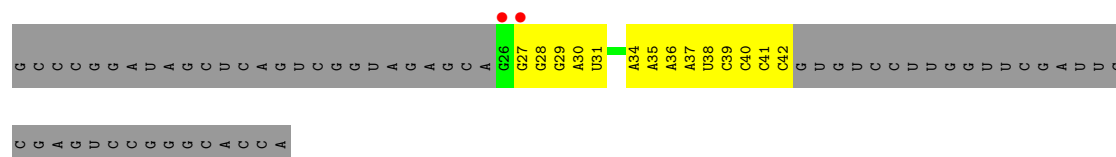
• Molecule 21: 30S RIBOSOMAL PROTEIN THX

Chain CU:



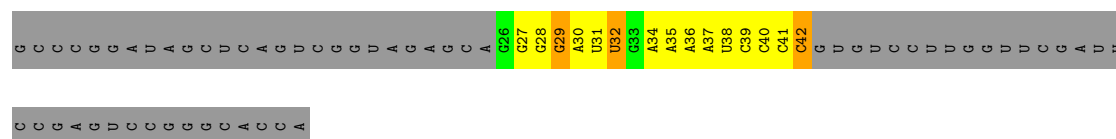
• Molecule 22: P-SITE RNA ASL-PHE

Chain AV: 



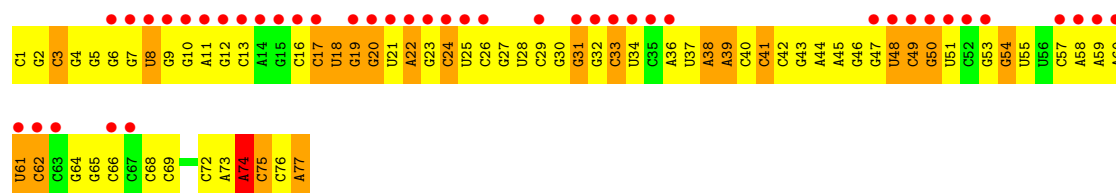
- Molecule 22: P-SITE RNA ASL-PHE

Chain CV: 



- Molecule 23: TRNA-FMET

Chain AW: 



- Molecule 23: TRNA-FMET

Chain CW: 



- Molecule 24: MRNA

Chain AX: 



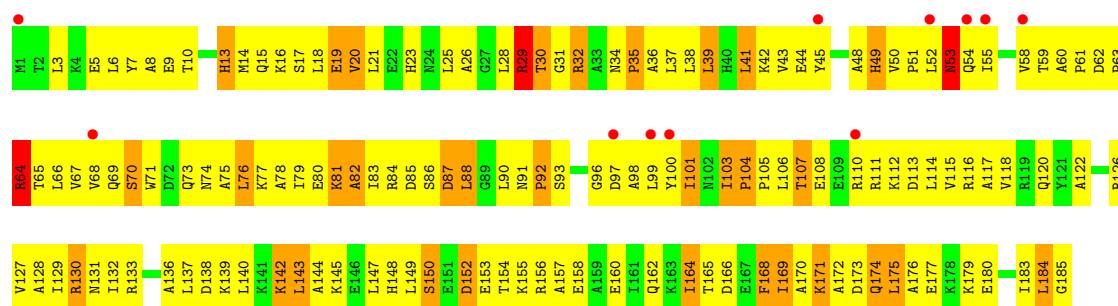
- Molecule 24: MRNA

Chain CX: 



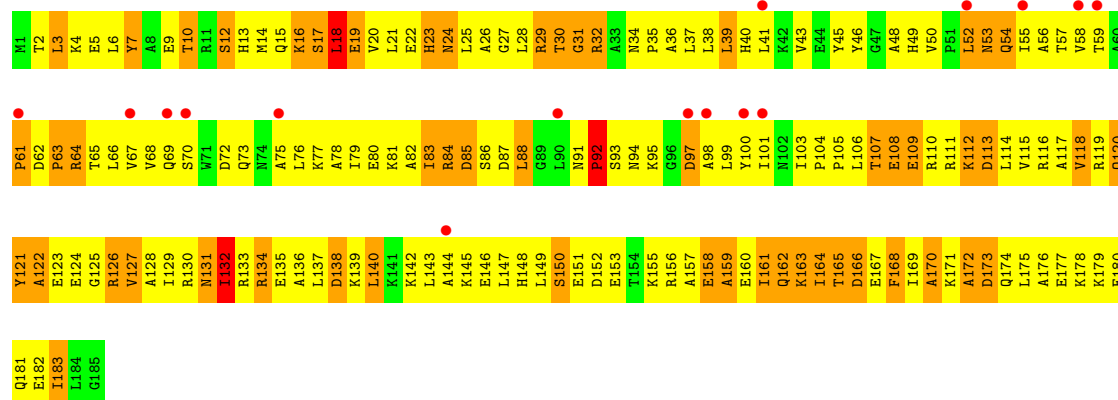
- Molecule 25: RIBOSOME RECYCLING FACTOR

Chain AY: 



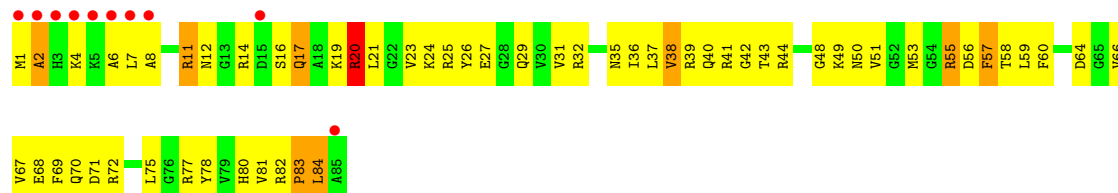
- Molecule 25: RIBOSOME RECYCLING FACTOR

Chain CY:



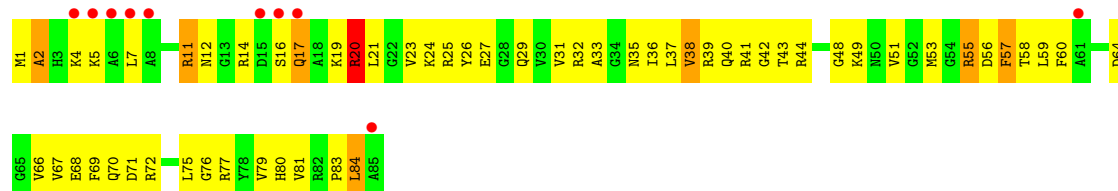
● Molecule 26: 50S RIBOSOMAL PROTEIN L27

Chain B0:



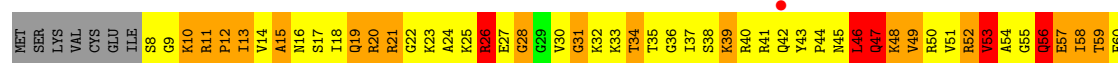
● Molecule 26: 50S RIBOSOMAL PROTEIN L27

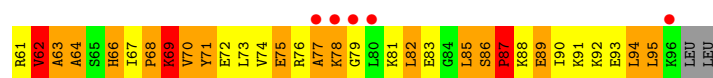
Chain D0:



- Molecule 27: 50S RIBOSOMAL PROTEIN L28

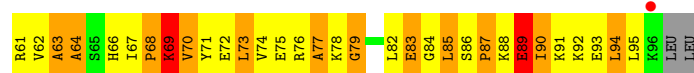
Chain B1:





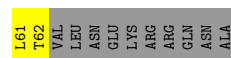
• Molecule 27: 50S RIBOSOMAL PROTEIN L28

Chain D1:



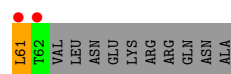
• Molecule 28: 50S RIBOSOMAL PROTEIN L29

Chain B2:



• Molecule 28: 50S RIBOSOMAL PROTEIN L29

Chain D2:



• Molecule 29: 50S RIBOSOMAL PROTEIN L30

Chain B3:



• Molecule 29: 50S RIBOSOMAL PROTEIN L30

Chain D3:

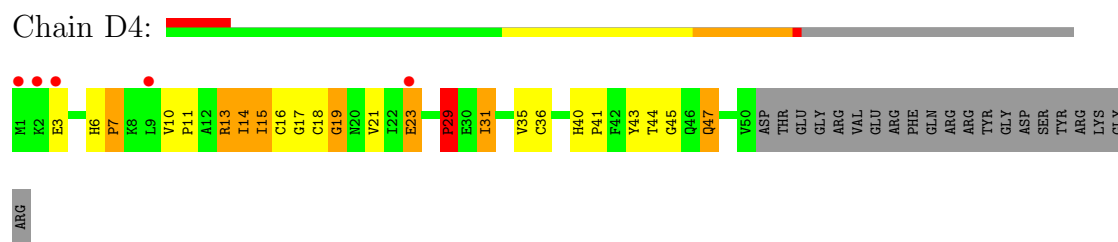


• Molecule 30: 50S RIBOSOMAL PROTEIN L31

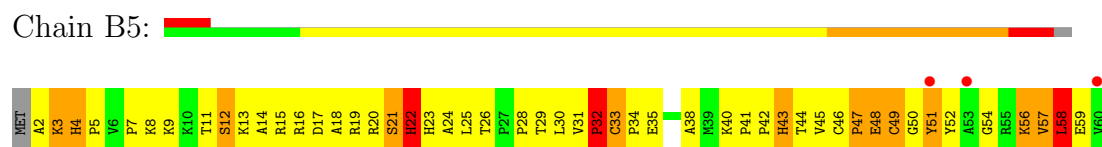
Chain B4:



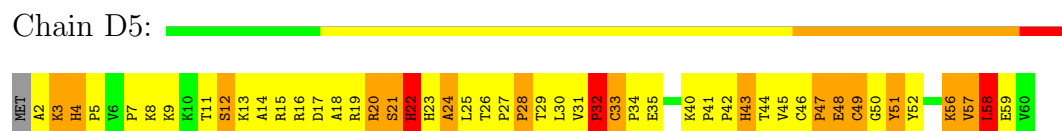
• Molecule 30: 50S RIBOSOMAL PROTEIN L31



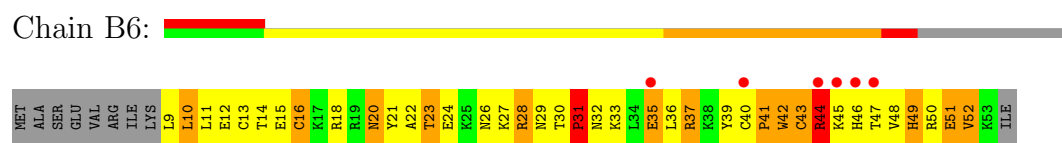
- Molecule 31: 50S RIBOSOMAL PROTEIN L32



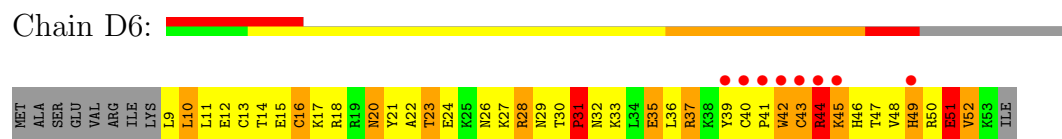
- Molecule 31: 50S RIBOSOMAL PROTEIN L32



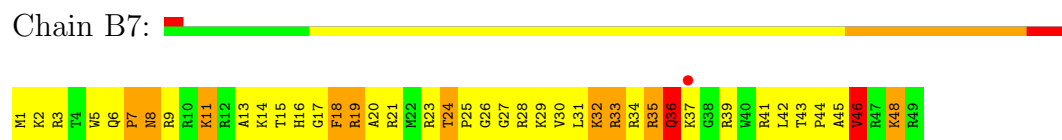
- Molecule 32: 50S RIBOSOMAL PROTEIN L33



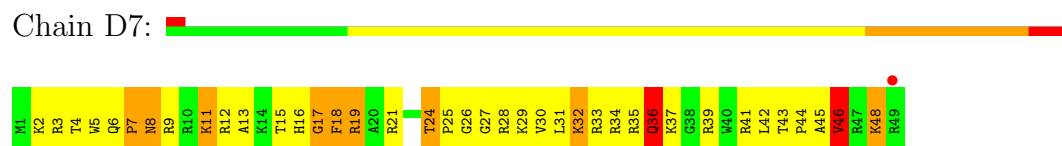
- Molecule 32: 50S RIBOSOMAL PROTEIN L33



- Molecule 33: 50S RIBOSOMAL PROTEIN L34



- Molecule 33: 50S RIBOSOMAL PROTEIN L34

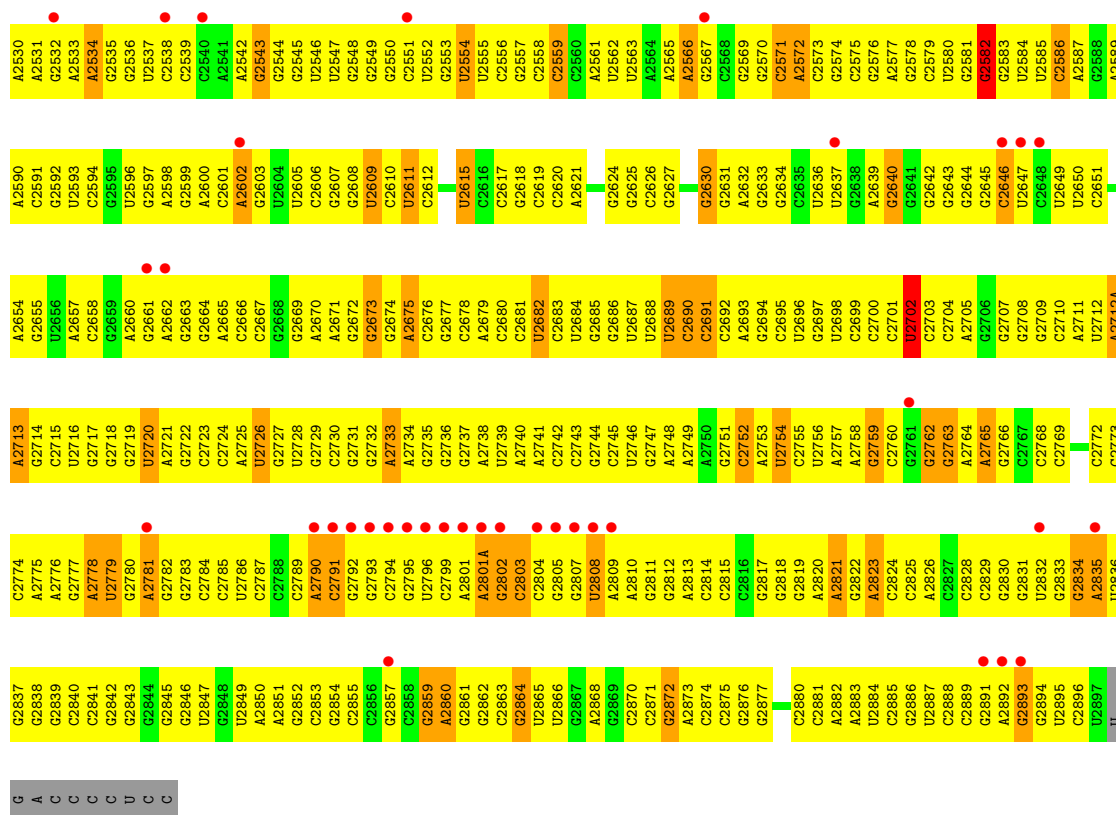


- Molecule 34: 50S RIBOSOMAL PROTEIN L35



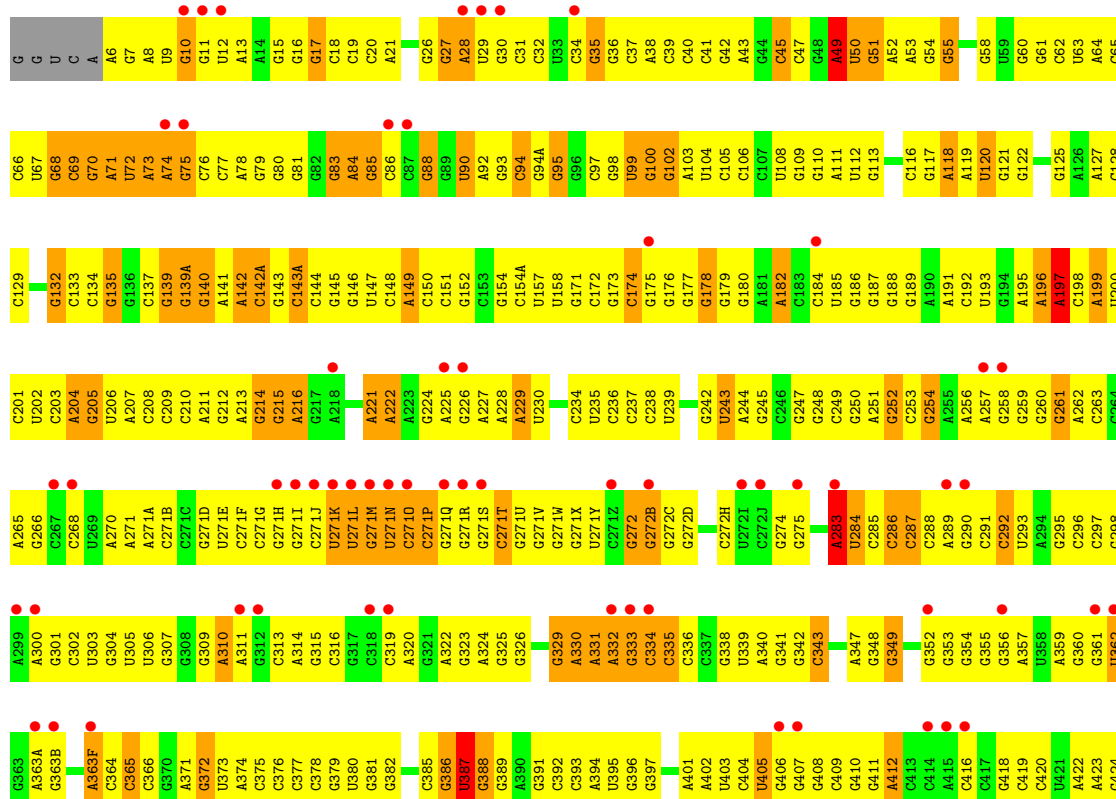
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C1531	G1470	C1411	C1350	U1288	G1227	C1166	A1050	A990	A1050	A861	G737	C673	G611
C1532	A1471	A1412	C1351	C1289	G1228	U1167	G1051	C991	G932	G862	G738	G674	G612
G1543	A1472	G1413	U1352	C1290	G1229	G1168	C1052	C992	A933	A863	G739	A675	G613
G1543	G1473	G1414	A1353	C1291	G1230	G1169	C1053	G993	G934	G864	U740	A676	U614
A1544	C1474	U1415	A1354	U1292	G1231	G1170	A1106	C994	C935	A804	G741	A677	U614A
A1545	G1475	G1416	G1355	C1293	G1232	G1171	G1107	C995	C936	G805	G742	C678	G614B
C1546		C1417	G1356	U1294	C1233	G1172	U1108	A996	U937	C806	G743	C679	A614C
C1547	G1478	G1418	U1357	C1297	U1234	A1174	G1109	C997	U937	G807	G744	G615	G616
C1548	G1479	A1419	G1358	U1298	A1237	U1175	G1110	C998	G938	A870	G745	G681	G618
G1549	G1480	U1420	A1359	G1299	G1238	G1176	A1111	C999	G939	G808	G746	G682	G619
U1481	G1481	G1421	A1360	G1299	A1239	A1177	U1112	U999	G940	G809	U747	C683	G620
G1482	G1482	G1422	G1361	U1300	G1239	C1178	U1113	A1001	G942	U811			G621
G1484	G1484	G1423	C1362	U1301	U1240	C1179	G1114	G1002	U943	G812	A750		A621
A1553	G1485	G1424	A1302	A1302	A1241	C1180	G1115	G1003	G944	G813	A751	G886	G622
A1554	A1486	G1425	G1363	G1303	A1242	C1181	C1116	G945	A945	U813	A752	C687	G623
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G2494	G2429	C2368	G2308	G2246	C2175	G2081	U2017	A1953	G1891	G1822	A1760	G1684	G1624
G2495	A2430	A2369	A2309	A2247	A2176	C2082	G2018	G1954	C1892	G1823	C1761	C1685	C1625
G2496	G2431	G2370	A2310	G2248	C2177	U2083	A2019	U1955	C1893	G1824	A1762	G1686	G1626
A2497	A2432	G2373	A2311	U2249	C2178	A2084	A2020	U1956	C1894	A1825	G1763	G1687	G1627
G2498	U2433	C2374	G2312	G2250	C2179	C2085	C2021	C1957	G1895	G1826	G1764	G1688	G1628
A2499	A2434	G2375	C2313	G2251	U2180	U2086	U2022	G1959	G1896	C1827	C1765	A1689	U1629
U2500	U2437	G2376	G2314	G2252	C2181	G2087	G2023	C1960	C1899	G1828	U1766	A1690	G1630
G2501	U2438	A2377	G2315	G2253	G2182	C2088	C2024	A1961	A1900	A1829	C1767	C1691	C1631
G2502	G2439	C2378	C2316	G2254	C2183	G2089	C2025	U1962	A1901	C1830	U1768	U1692	A1631A
U2503	C2440	G2379	G2317	G2255	G2184	U2090	A2026	C1963	A1902	G1831	C1771	U1693	A1632
G2504	G2441	C2380	G2318	G2256	C2185	U2091	G2027	G1964	G1903	C1832	G1772	G1694	A1633
G2505	A2442	C2381	C2319	U2257	G2186	U2092	G2028	G1965	G1904	U1833	A1773	G1695	A1634
U2506	G2443	G2382	A2320	C2258	G2187	U2093	G2029	A1966	C1905	U1834	A1774	G1696	G1635
G2507	G2444	C2383	G2321	G2259	C2188	G2093	A2030	C1967	G1906	G1835	C1775	G1697	C1636
G2508	U2447	G2384	A2322	C2260	U2189	G2094	A2031	G1968	G1907	C1836	U1775	A1698	A1637
G2509	G2448	C2385	C2323	U2262	G2190	C2097	G2032	U1969	C1908	C1837	G1776	G1699	C1638
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G2511	U2450	A2387	C2325	C2264	C2194	U2099	U2034	U1970	G1909	C1839	U1778	A1701	C1640
G2512	G2451	G2388	A2327	U2265	C2195	G2100	G2035	A1971	G1910	G1840	U1779	G1702	A1641
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G2522	C2464	U2398	G2337	G2277	G2205	G2110	C2050	U1986	C1920	G1850	C1712	G1651	G1651
G2523	G2465	C2399	G2338	A2278	G2206	C2111	G2049	G1987	G1921	G1851	U1713	A1652	G1652
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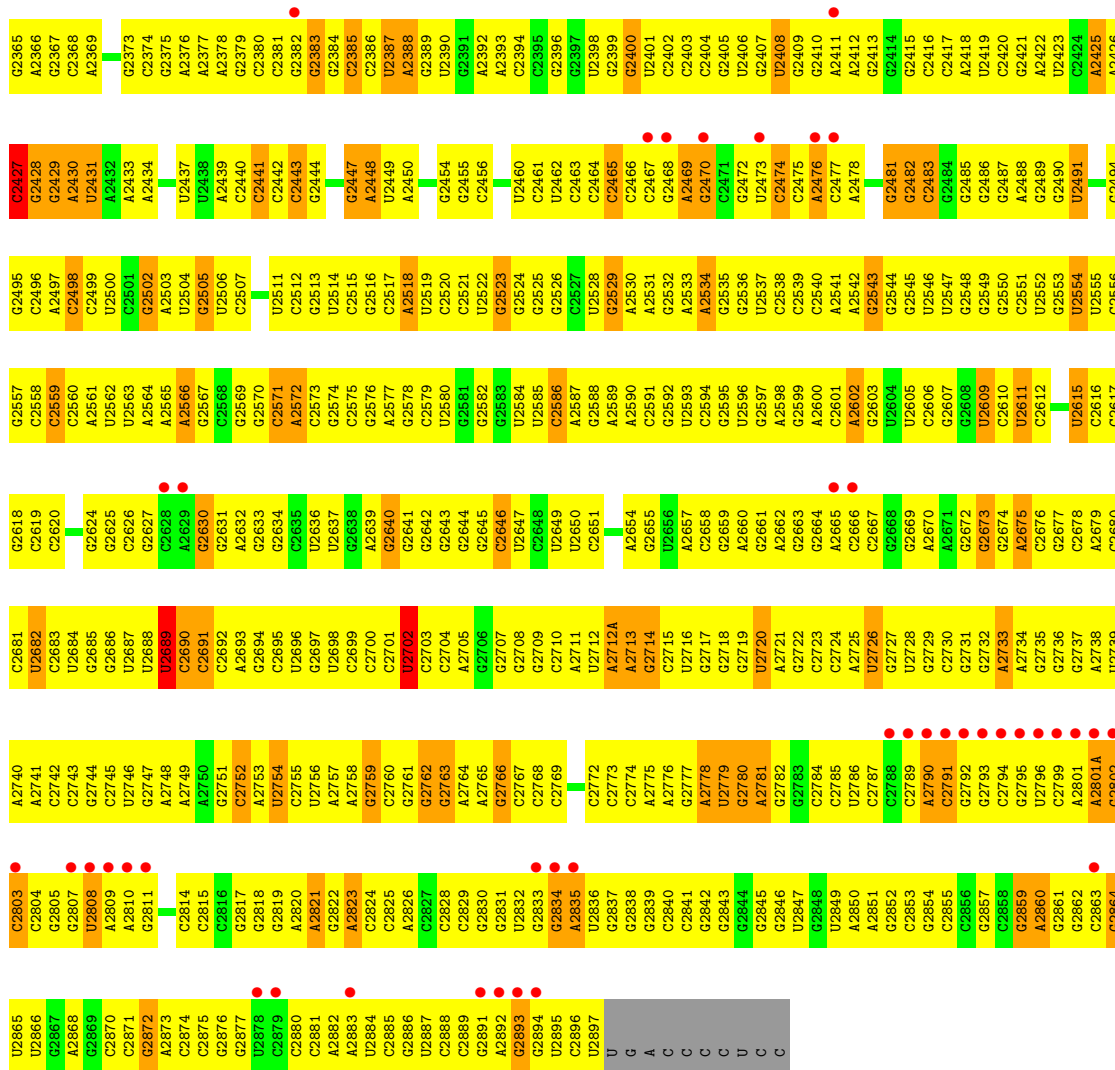
• Molecule 35: 23S RIBOSOMAL RNA

Chain DA:



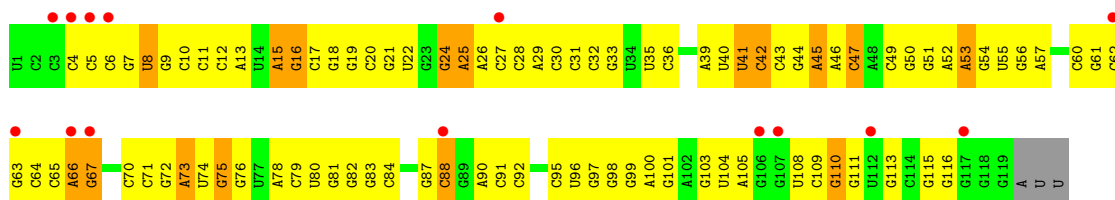


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G2306	G2240	G2165	U2068	G2004	U1943	C1879	U1808	G1747A	A1670	A1608	A1546	A1477	G1418
G2307	G2241	G2166	U2069	C2005	U1944	C1880	A2005	G1748	U1609	G1478	A1547	G1478	G1419
A2308	G2242	U2167	G2070	C2006	U1945	C1881	G1810	G1749	U1610	A1610	C1548	G1479	U1420
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A2310	U2243	G2169	A2072	G2008	C1947	G1883	A1912	G1751	C1612	G1613	C1550	U1481	G1422
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G2314	G2247	U2172	U2076	G2012	U1951	C1887	G1816	A1755	U1679	A1616	G1554	G1485	G1426
G2315	G2248	A2173	U2076	G2013	A1952	G1888	G1817	G1756	U1680	C1617	G1555	G1486	G1427
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G2319	G2252	C2177	G2080	G2017	U1956	C1892	G1821	A1760	C1684	U1621	G1559	G1491	U1431
G2320	G2253	C2178	C2081	G2018	C1957	G1893	G1822	G1761	C1685	G1622	G1560	G1492	G1432
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A2287	A2287	A2208	G2112		G2112	U1923	G1850	G1791	U1713	G1652	G1591	G1459	
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G2300			G2125	A2062	C1999	A1937	G1865	A1803	C1744	A1665	A1603	C1531	A1471
			A2126	G2063	G2000	A1938	G1866	G1804	C1745	G1666	G1604	C1532	A1472
			G2127	G2064	A2001	U1939	A1876	G1805	C1746	G1667	C1605	G1533	G1473
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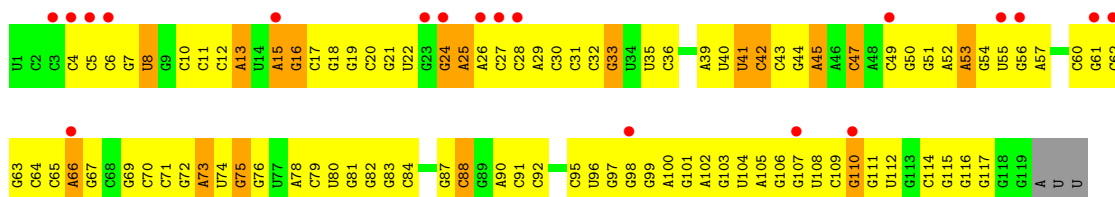
- Molecule 36: 5S RIBOSOMAL RNA

Chain BB:



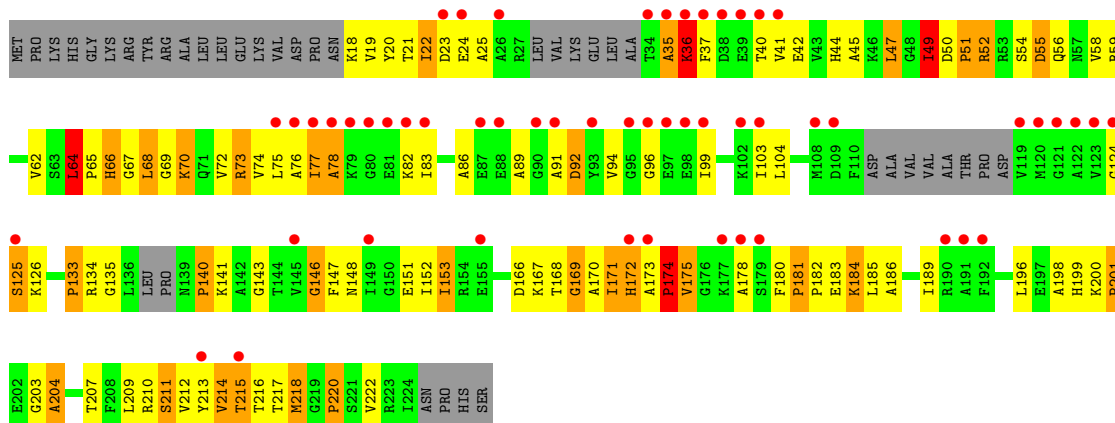
● Molecule 36: 5S RIBOSOMAL RNA

Chain DB:



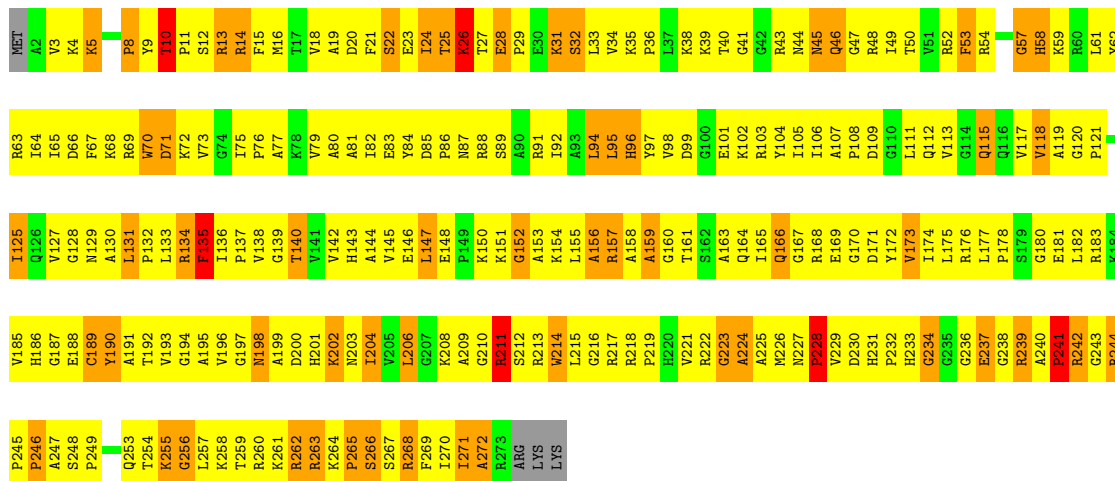
● Molecule 37: 50S RIBOSOMAL PROTEIN L1

Chain BC:



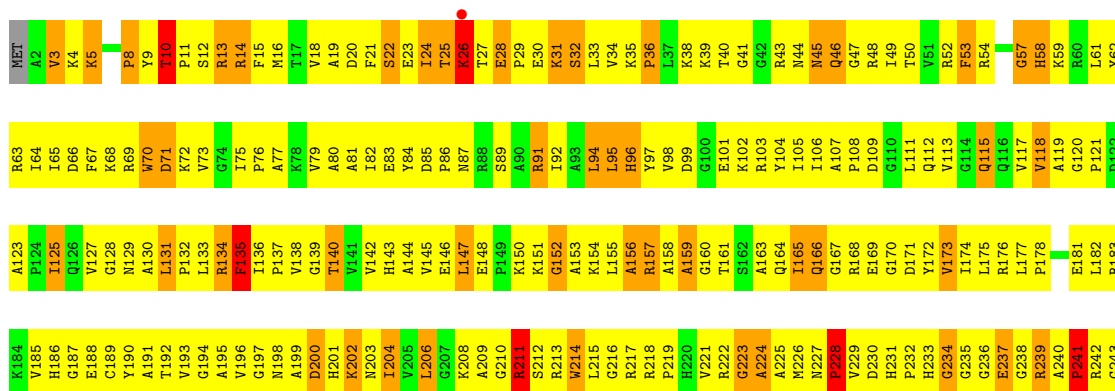
- Molecule 38: 50S RIBOSOMAL PROTEIN L2

Chain BD:



● Molecule 38: 50S RIBOSOMAL PROTEIN L2

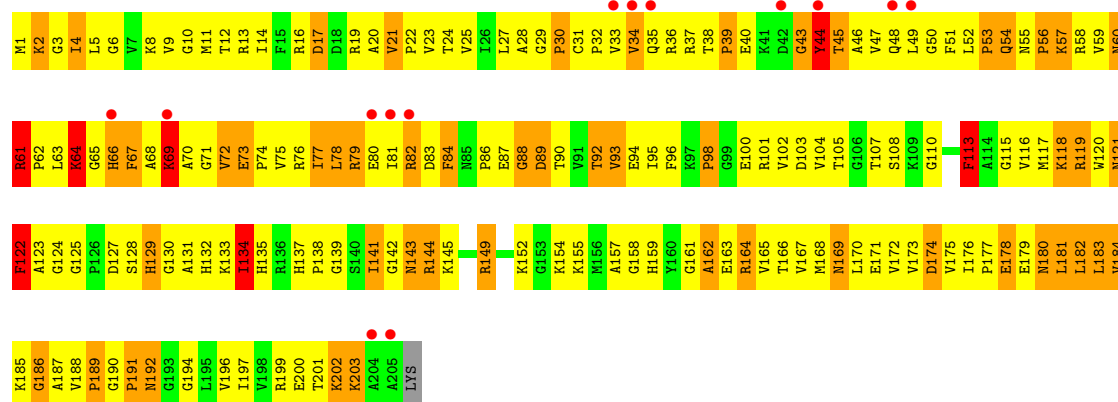
Chain DD:





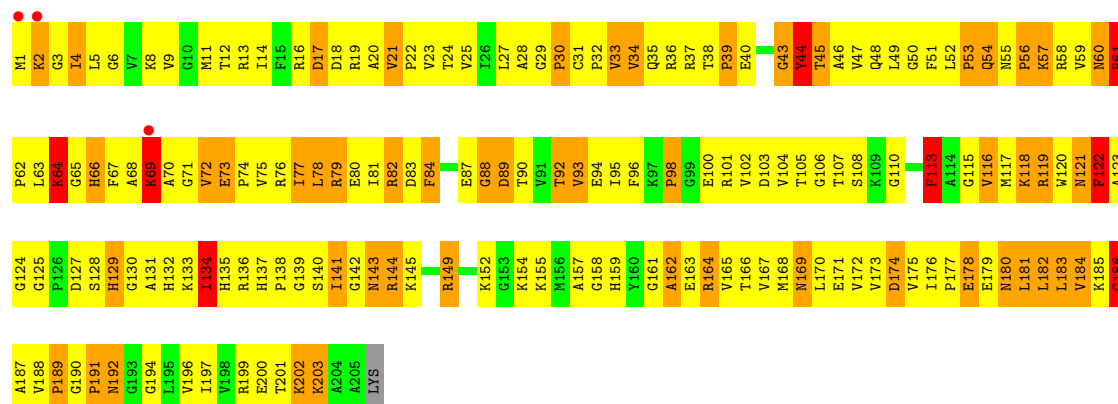
• Molecule 39: 50S RIBOSOMAL PROTEIN L3

Chain BE:



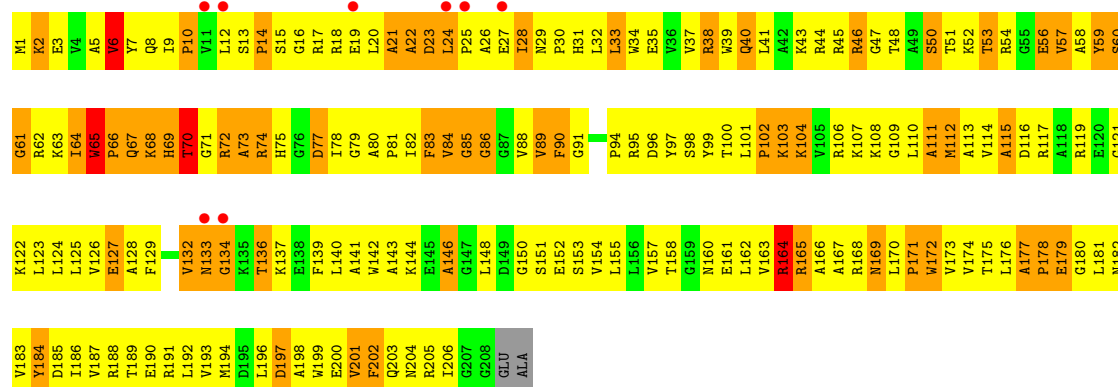
• Molecule 39: 50S RIBOSOMAL PROTEIN L3

Chain DE:



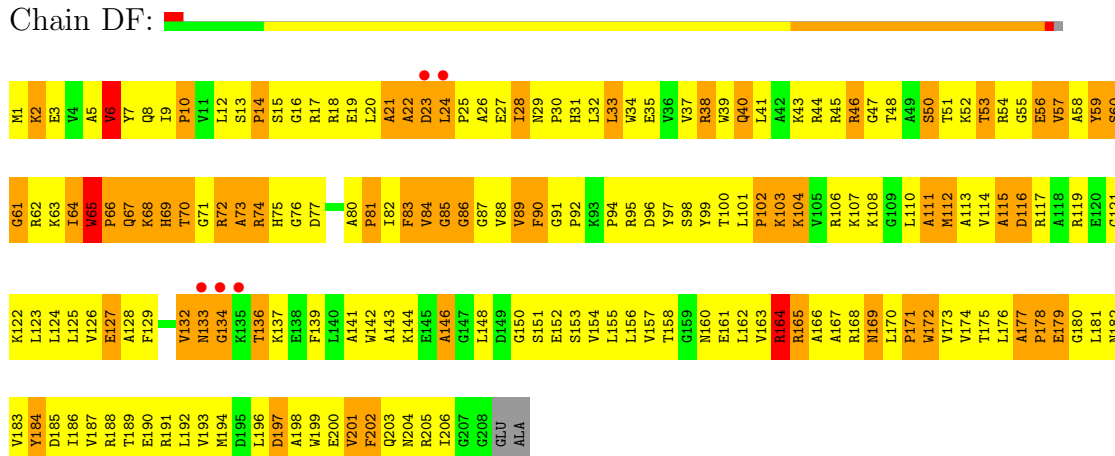
• Molecule 40: 50S RIBOSOMAL PROTEIN L4

Chain BF:



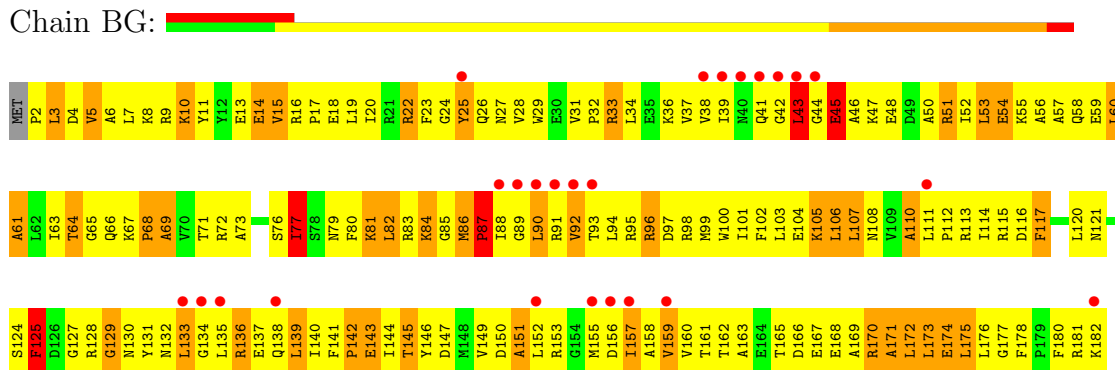
• Molecule 40: 50S RIBOSOMAL PROTEIN L4

Chain DF:



• Molecule 41: 50S RIBOSOMAL PROTEIN L5

Chain BG:



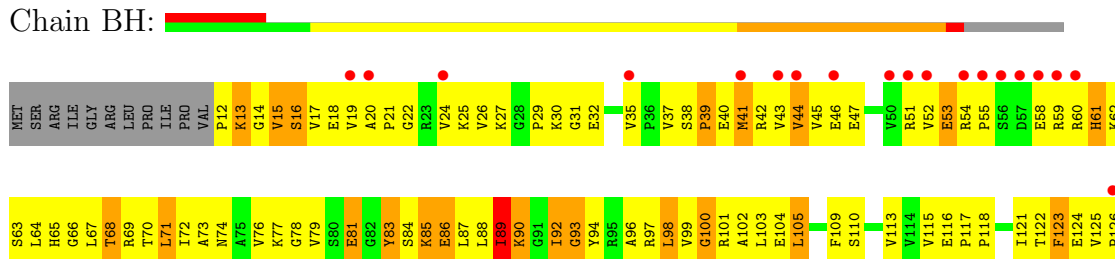
• Molecule 41: 50S RIBOSOMAL PROTEIN L5

Chain DG:



• Molecule 42: 50S RIBOSOMAL PROTEIN L6

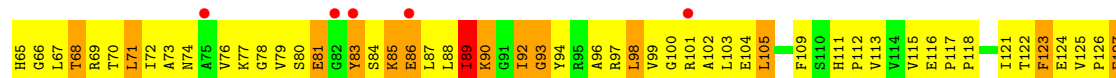
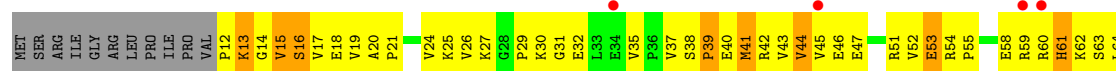
Chain BH:





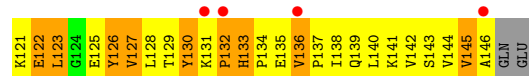
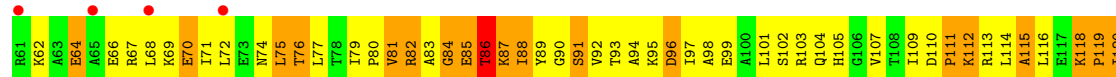
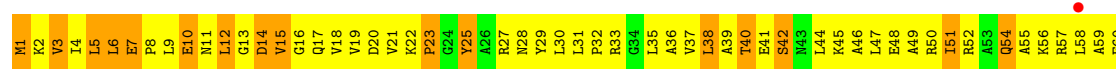
• Molecule 42: 50S RIBOSOMAL PROTEIN L6

Chain DH:



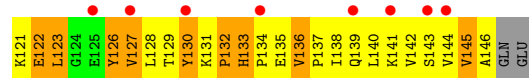
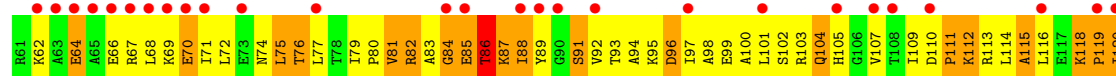
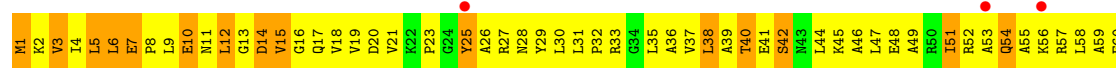
• Molecule 43: 50S RIBOSOMAL PROTEIN L9

Chain BI:



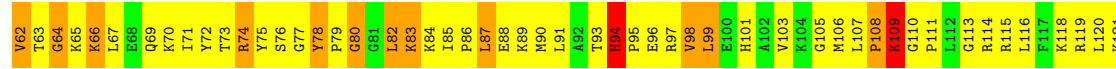
• Molecule 43: 50S RIBOSOMAL PROTEIN L9

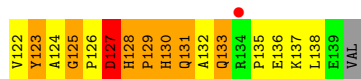
Chain DI:



• Molecule 44: 50S RIBOSOMAL PROTEIN L13

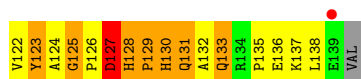
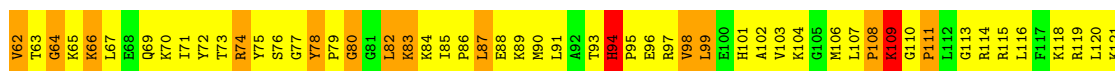
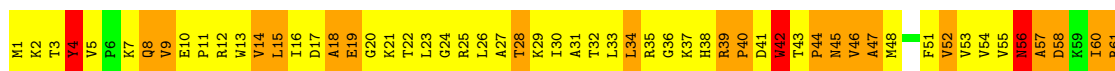
Chain BN:





• Molecule 44: 50S RIBOSOMAL PROTEIN L13

Chain DN:



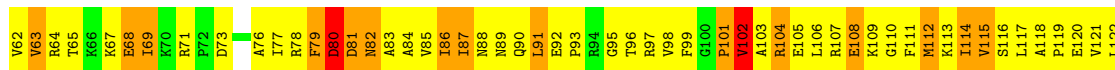
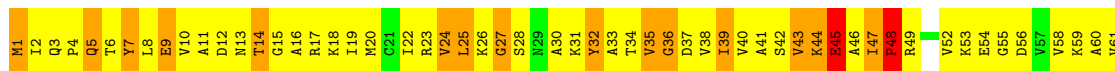
• Molecule 45: 50S RIBOSOMAL PROTEIN L14

Chain BO:



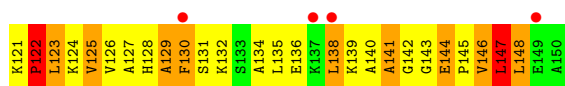
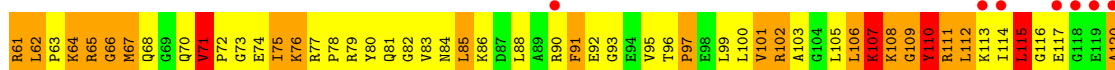
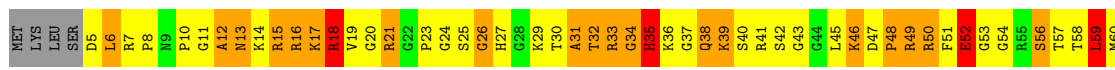
• Molecule 45: 50S RIBOSOMAL PROTEIN L14

Chain DO:



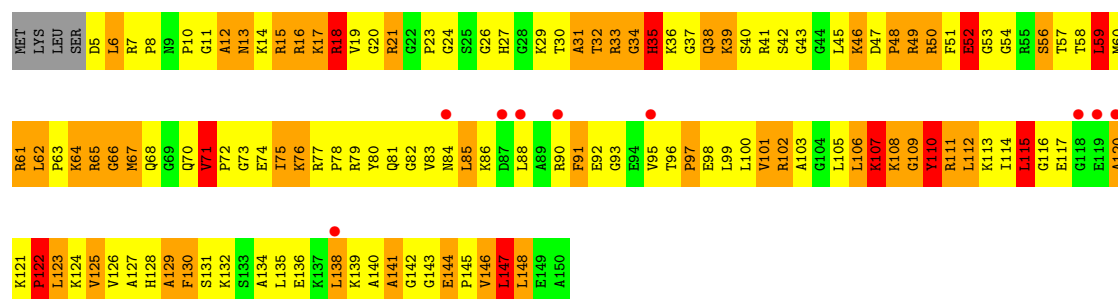
• Molecule 46: 50S RIBOSOMAL PROTEIN L15

Chain BP:



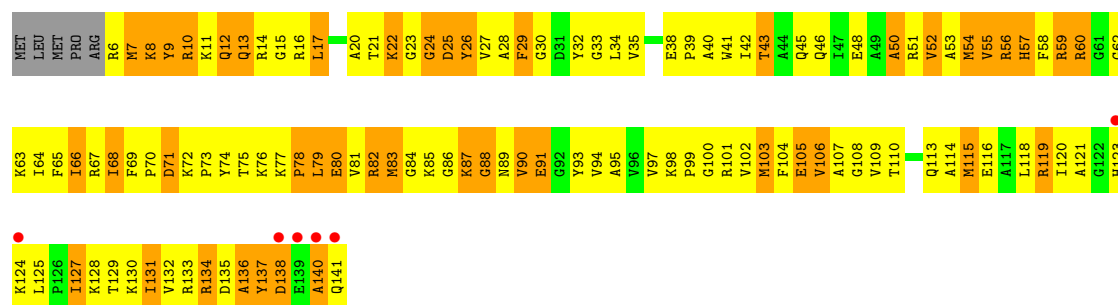
• Molecule 46: 50S RIBOSOMAL PROTEIN L15

Chain DP:



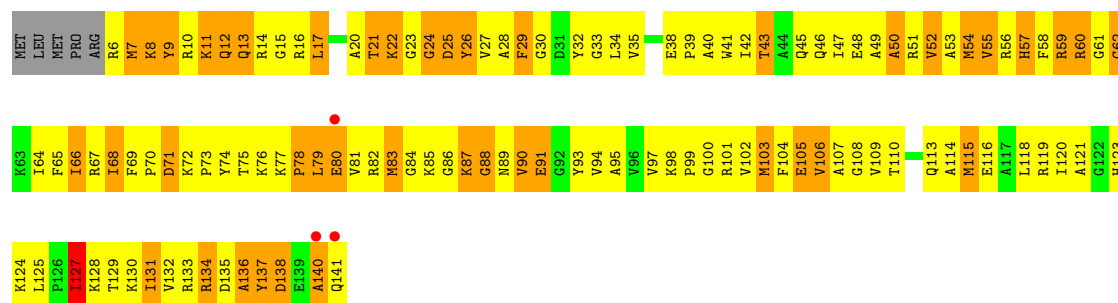
• Molecule 47: 50S RIBOSOMAL PROTEIN L16

Chain BQ:



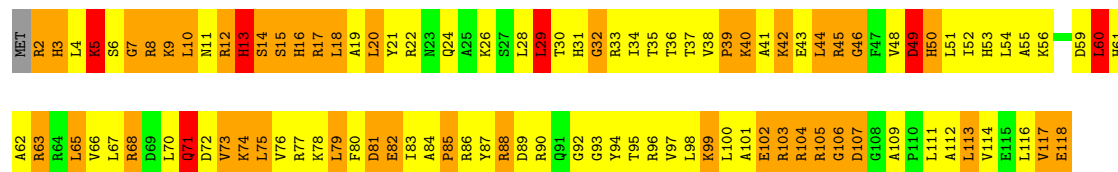
• Molecule 47: 50S RIBOSOMAL PROTEIN L16

Chain DQ:



• Molecule 48: 50S RIBOSOMAL PROTEIN L17

Chain BR:



• Molecule 48: 50S RIBOSOMAL PROTEIN L17

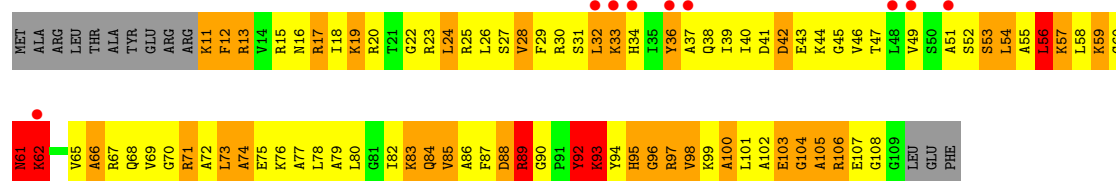
Chain DR:





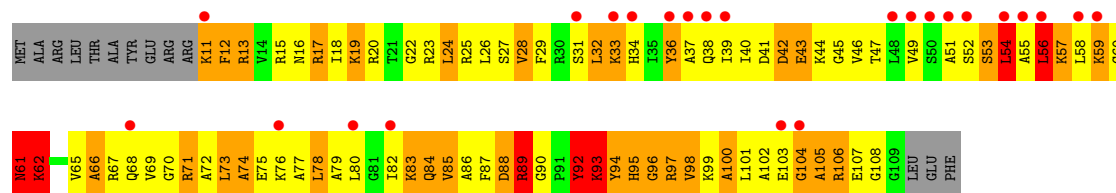
• Molecule 49: 50S RIBOSOMAL PROTEIN L18

Chain BS:



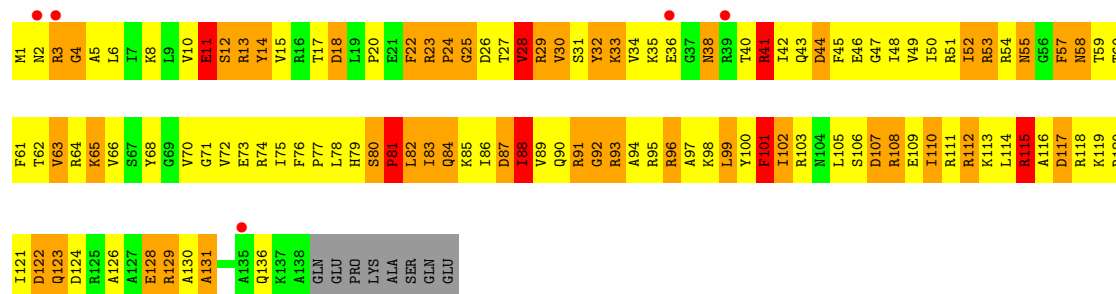
• Molecule 49: 50S RIBOSOMAL PROTEIN L18

Chain DS:



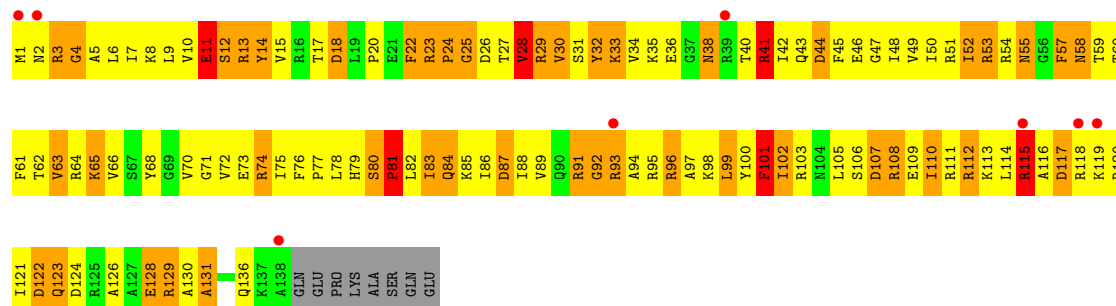
• Molecule 50: 50S RIBOSOMAL PROTEIN L19

Chain BT:



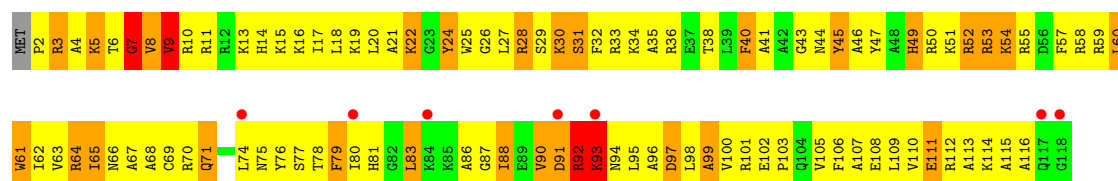
• Molecule 50: 50S RIBOSOMAL PROTEIN L19

Chain DT:



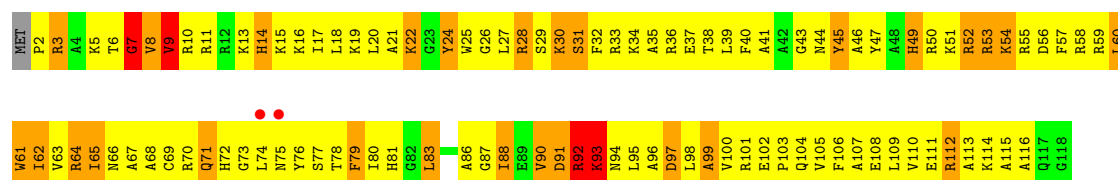
• Molecule 51: 50S RIBOSOMAL PROTEIN L20

Chain BU:



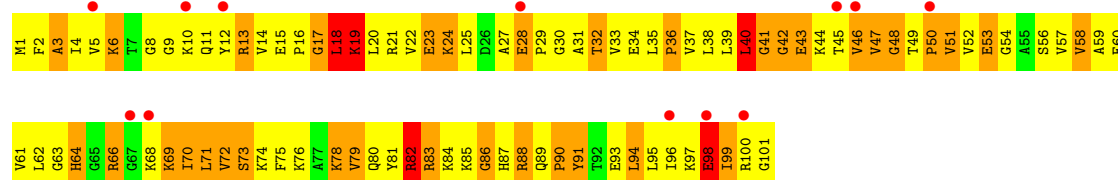
• Molecule 51: 50S RIBOSOMAL PROTEIN L20

Chain DU:



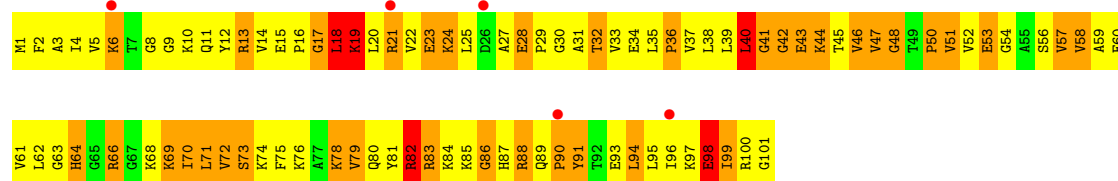
• Molecule 52: 50S RIBOSOMAL PROTEIN L21

Chain BV:



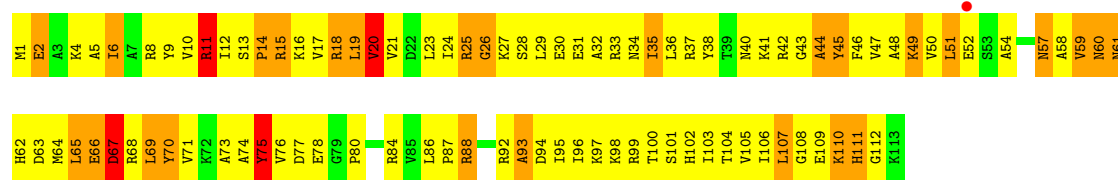
• Molecule 52: 50S RIBOSOMAL PROTEIN L21

Chain DV:



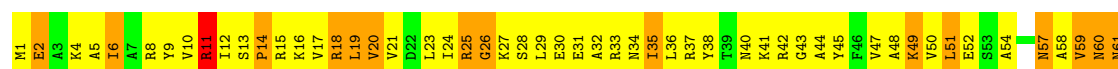
• Molecule 53: 50S RIBOSOMAL PROTEIN L22

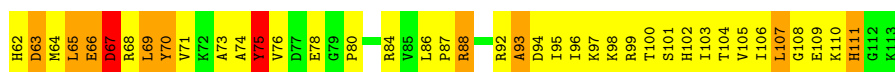
Chain BW:



• Molecule 53: 50S RIBOSOMAL PROTEIN L22

Chain DW:





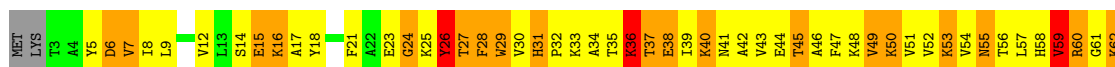
• Molecule 54: 50S RIBOSOMAL PROTEIN L23

Chain BX:



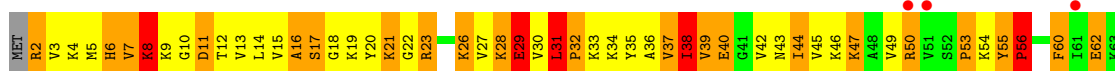
• Molecule 54: 50S RIBOSOMAL PROTEIN L23

Chain DX:



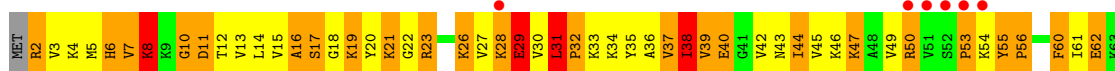
• Molecule 55: 50S RIBOSOMAL PROTEIN L24

Chain BY:



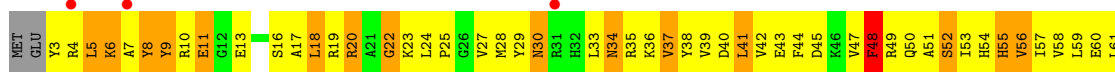
• Molecule 55: 50S RIBOSOMAL PROTEIN L24

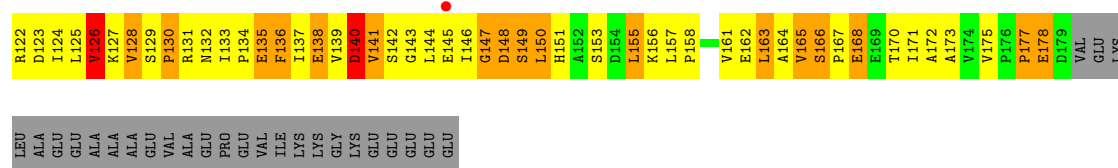
Chain DY:



• Molecule 56: 50S RIBOSOMAL PROTEIN L25

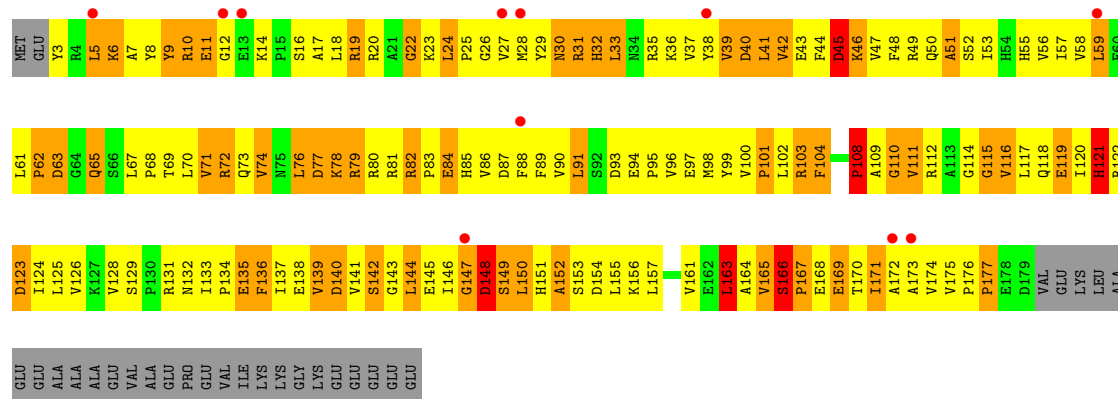
Chain BZ:





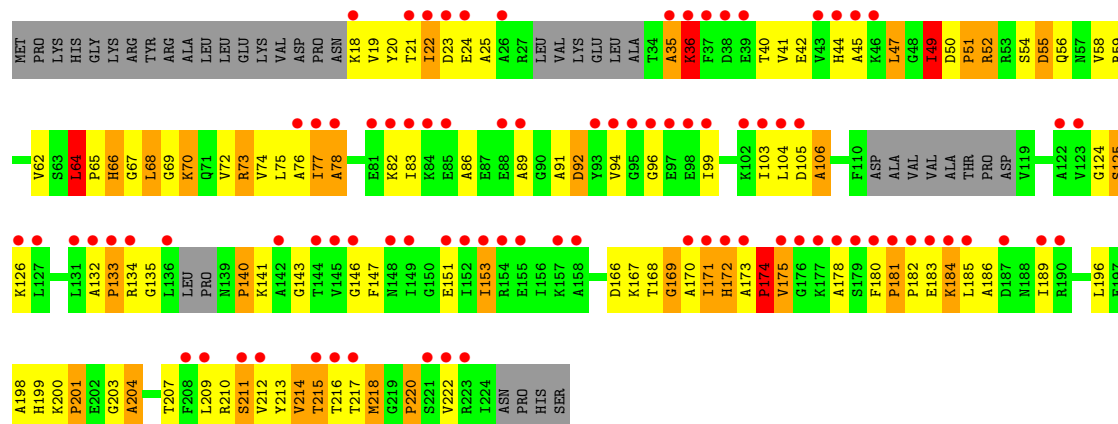
• Molecule 56: 50S RIBOSOMAL PROTEIN L25

Chain DZ:



• Molecule 57: 50S RIBOSOMAL PROTEIN L1

Chain DC:



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	212.41Å 450.11Å 630.54Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	20.00 – 3.50 49.89 – 3.50	Depositor EDS
% Data completeness (in resolution range)	98.9 (20.00-3.50) 98.9 (49.89-3.50)	Depositor EDS
R_{merge}	0.30	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.30 (at 3.48Å)	Xtriage
Refinement program	CNS 1.2	Depositor
R, R_{free}	0.265 , 0.326 0.301 , 0.347	Depositor DCC
R_{free} test set	29592 reflections (3.98%)	DCC
Wilson B-factor (Å ²)	81.4	Xtriage
Anisotropy	0.101	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.20 , 44.4	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning	$\langle L \rangle = 0.33$, $\langle L^2 \rangle = 0.16$	Xtriage
Outliers	0 of 744195 reflections	Xtriage
F_o, F_c correlation	0.81	EDS
Total number of atoms	290487	wwPDB-VP
Average B, all atoms (Å ²)	88.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.69% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities 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: 5MU, 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	0.49	0/36190	0.72	11/56486 (0.0%)
1	CA	0.49	0/36190	0.72	5/56486 (0.0%)
2	AB	0.37	0/1936	0.65	0/2611
2	CB	0.36	0/1936	0.64	0/2611
3	AC	0.37	0/1637	0.63	0/2207
3	CC	0.35	0/1637	0.63	0/2207
4	AD	0.43	0/1733	0.68	0/2318
4	CD	0.42	0/1733	0.68	0/2318
5	AE	0.41	0/1163	0.68	0/1566
5	CE	0.41	0/1163	0.68	0/1566
6	AF	0.36	0/856	0.67	0/1154
6	CF	0.39	0/856	0.68	0/1154
7	AG	0.35	0/1276	0.63	0/1709
7	CG	0.34	0/1276	0.62	0/1709
8	AH	0.36	0/1136	0.66	0/1527
8	CH	0.37	0/1136	0.67	0/1527
9	AI	0.35	0/1027	0.63	0/1372
9	CI	0.34	0/1027	0.62	0/1372
10	AJ	0.38	0/808	0.66	0/1087
10	CJ	0.37	0/808	0.65	0/1087
11	AK	0.37	0/900	0.66	0/1213
11	CK	0.37	0/900	0.67	0/1213
12	AL	0.44	0/987	0.72	0/1322
12	CL	0.42	0/987	0.72	0/1322
13	AM	0.33	0/994	0.59	0/1322
13	CM	0.32	0/994	0.60	0/1322
14	AN	0.39	0/501	0.68	0/664
14	CN	0.37	0/501	0.67	0/664
15	AO	0.36	0/745	0.64	0/992
15	CO	0.36	0/745	0.63	0/992
16	AP	0.47	0/717	0.74	0/965
16	CP	0.43	0/717	0.73	0/965

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	AQ	0.41	0/837	0.71	0/1119
17	CQ	0.40	0/837	0.71	0/1119
18	AR	0.39	0/579	0.72	0/768
18	CR	0.41	0/579	0.73	0/768
19	AS	0.36	0/643	0.61	0/867
19	CS	0.36	0/643	0.60	0/867
20	AT	0.34	0/765	0.69	0/1007
20	CT	0.33	0/765	0.69	0/1007
21	AU	0.44	0/213	0.64	0/279
21	CU	0.42	0/213	0.63	0/279
22	AV	0.66	0/405	0.77	0/630
22	CV	0.61	0/405	0.77	1/630 (0.2%)
23	AW	0.43	0/1810	0.73	0/2821
23	CW	0.46	0/1810	0.72	0/2821
24	AX	0.70	0/256	0.93	0/397
24	CX	0.68	0/256	0.91	0/397
25	AY	0.40	0/1497	0.71	0/2017
25	CY	0.44	0/1497	0.72	0/2017
26	B0	0.39	0/660	0.64	0/882
26	D0	0.40	0/660	0.64	0/882
27	B1	0.57	0/700	1.00	1/931 (0.1%)
27	D1	0.55	0/700	0.96	3/931 (0.3%)
28	B2	0.49	0/423	0.97	2/560 (0.4%)
28	D2	0.52	0/423	0.91	1/560 (0.2%)
29	B3	0.39	0/473	0.68	0/636
29	D3	0.40	0/473	0.68	0/636
30	B4	0.43	0/241	0.80	3/334 (0.9%)
30	D4	0.44	0/241	0.80	4/334 (1.2%)
31	B5	0.37	0/473	0.69	0/639
31	D5	0.38	0/473	0.71	0/639
32	B6	0.45	0/387	0.63	0/517
32	D6	0.42	0/387	0.63	0/517
33	B7	0.53	0/427	0.83	0/563
33	D7	0.53	0/427	0.84	1/563 (0.2%)
34	B8	0.51	0/516	0.89	1/681 (0.1%)
34	D8	0.49	0/516	0.88	1/681 (0.1%)
35	BA	0.57	2/66757 (0.0%)	0.76	19/104221 (0.0%)
35	DA	0.61	3/66757 (0.0%)	0.76	19/104221 (0.0%)
36	BB	0.40	0/2853	0.70	0/4451
36	DB	0.39	0/2853	0.70	0/4451
37	BC	0.36	0/1145	0.68	7/1556 (0.4%)
38	BD	0.47	0/2155	0.84	2/2907 (0.1%)
38	DD	0.49	0/2155	0.84	2/2907 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
39	BE	0.44	0/1597	0.78	1/2155 (0.0%)
39	DE	0.47	0/1597	0.79	1/2155 (0.0%)
40	BF	0.46	1/1659 (0.1%)	0.72	0/2246
40	DF	0.46	1/1659 (0.1%)	0.72	0/2246
41	BG	0.39	0/1498	0.76	2/2013 (0.1%)
41	DG	0.38	0/1498	0.76	0/2013
42	BH	0.37	0/1246	0.72	1/1684 (0.1%)
42	DH	0.40	0/1246	0.73	1/1684 (0.1%)
43	BI	0.39	0/1147	0.72	0/1553
43	DI	0.40	0/1147	0.71	0/1553
44	BN	0.40	0/1132	0.74	0/1527
44	DN	0.45	0/1132	0.75	0/1527
45	BO	0.47	0/943	0.78	0/1269
45	DO	0.49	0/943	0.80	0/1269
46	BP	0.42	0/1131	0.94	5/1504 (0.3%)
46	DP	0.40	0/1131	0.94	5/1504 (0.3%)
47	BQ	0.41	0/1100	0.76	0/1470
47	DQ	0.42	0/1100	0.78	0/1470
48	BR	0.39	0/974	0.75	0/1302
48	DR	0.42	0/974	0.77	0/1302
49	BS	0.42	0/779	0.71	0/1038
49	DS	0.39	0/779	0.70	0/1038
50	BT	0.44	0/1156	0.77	1/1544 (0.1%)
50	DT	0.45	0/1156	0.77	1/1544 (0.1%)
51	BU	0.40	0/975	0.75	1/1297 (0.1%)
51	DU	0.46	0/975	0.77	1/1297 (0.1%)
52	BV	0.41	0/789	0.74	1/1054 (0.1%)
52	DV	0.42	0/789	0.75	1/1054 (0.1%)
53	BW	0.42	0/907	0.67	0/1216
53	DW	0.42	0/907	0.66	0/1216
54	BX	0.47	0/740	0.88	2/995 (0.2%)
54	DX	0.47	0/740	0.89	2/995 (0.2%)
55	BY	0.43	0/789	0.78	0/1053
55	DY	0.44	0/789	0.77	0/1053
56	BZ	0.40	0/1436	0.74	0/1951
56	DZ	0.40	0/1436	0.77	1/1951 (0.1%)
57	DC	0.36	0/1146	0.68	7/1558 (0.4%)
All	All	0.51	7/313639 (0.0%)	0.74	117/468340 (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	17
1	CA	0	20
22	CV	0	2
23	AW	0	1
24	AX	0	3
35	BA	1	69
35	DA	1	63
All	All	2	175

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BA	1543	C	N1-C2	5.59	1.45	1.40
40	DF	65	TRP	CB-CG	-5.48	1.40	1.50
35	DA	1543	C	N1-C2	5.43	1.45	1.40
35	DA	652	C	C3'-O3'	5.38	1.49	1.42
35	BA	652	C	C3'-O3'	5.30	1.49	1.42
40	BF	65	TRP	CB-CG	-5.17	1.41	1.50
35	DA	2077	A	C5-C6	-5.07	1.36	1.41

All (117) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	DA	2128	C	C2'-C3'-O3'	10.31	132.19	109.50
35	BA	2128	C	C2'-C3'-O3'	10.29	132.14	109.50
46	BP	52	GLU	N-CA-C	8.91	135.05	111.00
46	DP	52	GLU	N-CA-C	8.80	134.76	111.00
38	BD	238	GLY	N-CA-C	-8.62	91.56	113.10
38	DD	238	GLY	N-CA-C	-8.22	92.55	113.10
1	AA	1498	U	C2'-C3'-O3'	7.75	126.55	109.50
46	BP	53	GLY	N-CA-C	-7.69	93.88	113.10
46	DP	53	GLY	N-CA-C	-7.68	93.90	113.10
35	DA	975	C	N1-C1'-C2'	7.41	123.63	114.00
35	BA	283	A	C2'-C3'-O3'	7.28	125.52	109.50
46	BP	59	LEU	CA-CB-CG	7.24	131.95	115.30
35	DA	283	A	C2'-C3'-O3'	7.23	125.40	109.50
35	BA	387	U	C2'-C3'-O3'	7.20	125.33	109.50
35	DA	387	U	C2'-C3'-O3'	7.04	124.99	109.50
28	B2	53	LEU	N-CA-C	-6.87	92.45	111.00
35	BA	975	C	N1-C1'-C2'	6.83	122.88	114.00
27	B1	55	GLY	N-CA-C	-6.63	96.52	113.10
46	DP	59	LEU	CA-CB-CG	6.60	130.48	115.30
1	AA	575	G	N9-C1'-C2'	6.60	122.58	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	DX	79	ALA	N-CA-C	-6.41	93.71	111.00
54	BX	79	ALA	N-CA-C	-6.31	93.96	111.00
35	DA	975	C	O4'-C1'-N1	6.24	113.19	108.20
35	BA	975	C	O4'-C1'-N1	6.24	113.19	108.20
35	BA	1616	A	N9-C1'-C2'	6.19	122.05	114.00
35	DA	752	A	C2'-C3'-O3'	6.16	123.55	113.70
35	DA	1616	A	N9-C1'-C2'	6.15	122.00	114.00
27	D1	55	GLY	N-CA-C	-6.13	97.76	113.10
35	BA	2702	U	N1-C1'-C2'	6.06	121.88	114.00
37	BC	140	PRO	N-CA-CB	6.06	110.57	103.30
56	DZ	110	GLY	N-CA-C	-6.02	98.04	113.10
27	D1	37	ILE	CB-CA-C	-6.01	99.58	111.60
57	DC	140	PRO	N-CA-CB	5.99	110.49	103.30
1	CA	575	G	N9-C1'-C2'	5.98	121.78	114.00
39	BE	186	GLY	N-CA-C	5.91	127.88	113.10
35	BA	752	A	C2'-C3'-O3'	5.89	123.13	113.70
38	BD	237	GLU	N-CA-C	5.87	126.86	111.00
34	B8	33	ASN	N-CA-C	-5.84	95.24	111.00
39	DE	186	GLY	N-CA-C	5.83	127.68	113.10
35	BA	669	G	C2'-C3'-O3'	5.83	123.03	113.70
37	BC	181	PRO	N-CA-CB	5.83	110.29	103.30
30	B4	29	PRO	N-CA-CB	5.79	110.25	103.30
35	DA	2702	U	N1-C1'-C2'	5.75	121.47	114.00
1	AA	1225	A	N9-C1'-C2'	5.73	121.45	114.00
37	BC	201	PRO	N-CA-CB	5.73	110.17	103.30
35	DA	178	G	N9-C1'-C2'	-5.73	105.70	112.00
35	BA	193	U	C5'-C4'-C3'	-5.71	106.87	116.00
1	CA	1054	C	N1-C1'-C2'	5.71	121.42	114.00
30	D4	11	PRO	N-CA-CB	5.67	110.11	103.30
30	D4	29	PRO	N-CA-CB	5.67	110.11	103.30
28	D2	55	ARG	N-CA-C	-5.66	95.73	111.00
35	BA	1340	U	N1-C1'-C2'	5.65	121.34	114.00
41	BG	54	GLU	N-CA-C	-5.63	95.80	111.00
57	DC	201	PRO	N-CA-CB	5.63	110.06	103.30
57	DC	181	PRO	N-CA-CB	5.62	110.04	103.30
37	BC	182	PRO	N-CA-CB	5.61	110.04	103.30
34	D8	33	ASN	N-CA-C	-5.57	95.96	111.00
35	BA	254	G	N9-C1'-C2'	-5.55	105.89	112.00
27	D1	64	ALA	N-CA-C	-5.55	96.02	111.00
57	DC	174	PRO	N-CA-CB	5.55	109.96	103.30
57	DC	182	PRO	N-CA-CB	5.54	109.94	103.30
38	DD	237	GLU	N-CA-C	5.52	125.91	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
57	DC	133	PRO	N-CA-CB	5.49	109.89	103.30
1	CA	1529	G	N9-C1'-C2'	5.49	121.13	114.00
37	BC	174	PRO	N-CA-CB	5.48	109.87	103.30
46	BP	48	PRO	N-CA-C	-5.47	97.88	112.10
46	DP	48	PRO	N-CA-C	-5.44	97.95	112.10
37	BC	133	PRO	N-CA-CB	5.42	109.81	103.30
42	DH	156	ALA	N-CA-C	-5.42	96.36	111.00
30	B4	11	PRO	N-CA-CB	5.42	109.80	103.30
35	DA	669	G	C2'-C3'-O3'	5.41	122.36	113.70
41	BG	125	PHE	N-CA-C	-5.41	96.40	111.00
52	DV	18	LEU	CA-CB-CG	5.39	127.69	115.30
33	D7	4	THR	N-CA-C	5.38	125.53	111.00
1	AA	1054	C	N1-C1'-C2'	5.38	120.99	114.00
1	AA	1067	A	C2'-C3'-O3'	5.36	122.27	113.70
30	B4	41	PRO	N-CA-CB	5.35	109.72	103.30
42	BH	156	ALA	N-CA-C	-5.35	96.55	111.00
50	DT	11	GLU	N-CA-C	-5.34	96.58	111.00
57	DC	220	PRO	N-CA-CB	5.33	109.70	103.30
35	BA	178	G	N9-C1'-C2'	-5.33	106.14	112.00
37	BC	220	PRO	N-CA-CB	5.31	109.67	103.30
35	DA	193	U	C5'-C4'-C3'	-5.30	107.52	116.00
54	DX	64	LYS	N-CA-C	5.28	125.25	111.00
1	AA	575	G	C2'-C3'-O3'	5.27	122.13	113.70
1	CA	1225	A	N9-C1'-C2'	5.24	120.81	114.00
54	BX	64	LYS	N-CA-C	5.22	125.11	111.00
22	CV	42	C	C2'-C3'-O3'	5.21	122.03	113.70
35	DA	1493	C	N1-C1'-C2'	5.21	120.77	114.00
51	DU	7	GLY	N-CA-C	5.20	126.11	113.10
52	BV	18	LEU	CA-CB-CG	5.20	127.26	115.30
35	BA	1493	C	N1-C1'-C2'	5.18	120.74	114.00
46	DP	54	GLY	N-CA-C	-5.18	100.15	113.10
1	AA	250	A	C2'-C3'-O3'	5.16	121.96	113.70
35	BA	2422	A	C2'-C3'-O3'	5.15	121.94	113.70
30	D4	7	PRO	N-CA-CB	5.15	109.48	103.30
35	BA	258	G	N9-C1'-C2'	-5.14	106.34	112.00
50	BT	11	GLU	N-CA-C	-5.14	97.12	111.00
30	D4	41	PRO	N-CA-CB	5.14	109.46	103.30
1	CA	1064	G	C2'-C3'-O3'	5.13	121.91	113.70
46	BP	54	GLY	N-CA-C	-5.13	100.27	113.10
35	BA	1396	U	N1-C1'-C2'	5.12	120.66	114.00
35	DA	254	G	N9-C1'-C2'	-5.12	106.37	112.00
35	BA	2524	G	C5'-C4'-C3'	-5.11	107.83	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	DA	1674	G	N9-C1'-C2'	-5.10	106.39	112.00
35	DA	2524	G	C5'-C4'-C3'	-5.09	107.86	116.00
1	AA	1502	A	N9-C1'-C2'	5.09	120.61	114.00
1	AA	1064	G	C2'-C3'-O3'	5.07	121.81	113.70
35	BA	49	A	N9-C1'-C2'	5.06	120.58	114.00
35	DA	1053	C	N1-C1'-C2'	5.06	120.58	114.00
35	DA	49	A	N9-C1'-C2'	5.06	120.58	114.00
28	B2	55	ARG	N-CA-C	-5.05	97.36	111.00
35	DA	614(C)	A	C2'-C3'-O3'	5.05	121.78	113.70
1	AA	484	G	N9-C1'-C2'	5.03	120.54	114.00
1	AA	115	G	N9-C1'-C2'	5.03	120.54	114.00
35	DA	2897	U	C2'-C3'-O3'	5.01	121.72	113.70
51	BU	7	GLY	N-CA-C	5.01	125.63	113.10

All (2) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
35	BA	2128	C	C3'
35	DA	2128	C	C3'

All (175) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AA	1397	C	Sidechain
1	AA	1431	C	Sidechain
1	AA	1433	A	Sidechain
1	AA	21	G	Sidechain
1	AA	265	G	Sidechain
1	AA	323	U	Sidechain
1	AA	445	G	Sidechain
1	AA	587	G	Sidechain
1	AA	626	U	Sidechain
1	AA	639	G	Sidechain
1	AA	686	U	Sidechain
1	AA	741	G	Sidechain
1	AA	792	A	Sidechain
1	AA	832	C	Sidechain
1	AA	884	U	Sidechain
1	AA	916	G	Sidechain
1	AA	96	U	Sidechain
23	AW	74	A	Sidechain
24	AX	16	U	Sidechain

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Mol	Chain	Res	Type	Group
24	AX	17	U	Sidechain
24	AX	22	U	Sidechain
35	BA	102	G	Sidechain
35	BA	1190	G	Sidechain
35	BA	1192	G	Sidechain
35	BA	122	G	Sidechain
35	BA	1294	U	Sidechain
35	BA	1302	A	Sidechain
35	BA	1326	U	Sidechain
35	BA	135	G	Sidechain
35	BA	1357	U	Sidechain
35	BA	1379	A	Sidechain
35	BA	1560	G	Sidechain
35	BA	1613	G	Sidechain
35	BA	1615	C	Sidechain
35	BA	1617	C	Sidechain
35	BA	1647	G	Sidechain
35	BA	1667	G	Sidechain
35	BA	1673	U	Sidechain
35	BA	1674	G	Sidechain
35	BA	1692	U	Sidechain
35	BA	1767	C	Sidechain
35	BA	1772	G	Sidechain
35	BA	1775	U	Sidechain
35	BA	1783	A	Sidechain
35	BA	1806	C	Sidechain
35	BA	1820	U	Sidechain
35	BA	1822	G	Sidechain
35	BA	1834	U	Sidechain
35	BA	1955	U	Sidechain
35	BA	197	A	Sidechain
35	BA	1970	A	Sidechain
35	BA	1980	G	Sidechain
35	BA	1995	U	Sidechain
35	BA	2009	G	Sidechain
35	BA	2031	A	Sidechain
35	BA	2059	A	Sidechain
35	BA	2061	G	Sidechain
35	BA	2069	G	Sidechain
35	BA	2079	U	Sidechain
35	BA	2086	U	Sidechain
35	BA	212	G	Sidechain

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Mol	Chain	Res	Type	Group
35	BA	2228	G	Sidechain
35	BA	2320	A	Sidechain
35	BA	2427	C	Sidechain
35	BA	243	U	Sidechain
35	BA	2437	U	Sidechain
35	BA	2443	C	Sidechain
35	BA	2448	A	Sidechain
35	BA	2517	C	Sidechain
35	BA	2518	A	Sidechain
35	BA	2582	G	Sidechain
35	BA	2608	G	Sidechain
35	BA	2702	U	Sidechain
35	BA	283	A	Sidechain
35	BA	49	A	Sidechain
35	BA	497	A	Sidechain
35	BA	532	A	Sidechain
35	BA	562	U	Sidechain
35	BA	588	U	Sidechain
35	BA	70	G	Sidechain
35	BA	726	G	Sidechain
35	BA	729	G	Sidechain
35	BA	767	U	Sidechain
35	BA	781	A	Sidechain
35	BA	860	U	Sidechain
35	BA	911	A	Sidechain
35	BA	938	G	Sidechain
35	BA	945	A	Sidechain
35	BA	959	A	Sidechain
35	BA	963	U	Sidechain
1	CA	1018	C	Sidechain
1	CA	1414	U	Sidechain
1	CA	1472	U	Sidechain
1	CA	1485	U	Sidechain
1	CA	1498	U	Sidechain
1	CA	21	G	Sidechain
1	CA	265	G	Sidechain
1	CA	300	A	Sidechain
1	CA	323	U	Sidechain
1	CA	575	G	Sidechain
1	CA	587	G	Sidechain
1	CA	639	G	Sidechain
1	CA	686	U	Sidechain

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Mol	Chain	Res	Type	Group
1	CA	741	G	Sidechain
1	CA	783	C	Sidechain
1	CA	814	A	Sidechain
1	CA	832	C	Sidechain
1	CA	884	U	Sidechain
1	CA	916	G	Sidechain
1	CA	96	U	Sidechain
22	CV	29	G	Sidechain
22	CV	32	U	Sidechain
35	DA	1158	C	Sidechain
35	DA	1192	G	Sidechain
35	DA	1268	A	Sidechain
35	DA	1302	A	Sidechain
35	DA	1326	U	Sidechain
35	DA	135	G	Sidechain
35	DA	1357	U	Sidechain
35	DA	1379	A	Sidechain
35	DA	1411	C	Sidechain
35	DA	1560	G	Sidechain
35	DA	1608	A	Sidechain
35	DA	1613	G	Sidechain
35	DA	1615	C	Sidechain
35	DA	1617	C	Sidechain
35	DA	1647	G	Sidechain
35	DA	1673	U	Sidechain
35	DA	1674	G	Sidechain
35	DA	1767	C	Sidechain
35	DA	1772	G	Sidechain
35	DA	1777	U	Sidechain
35	DA	1783	A	Sidechain
35	DA	1786	A	Sidechain
35	DA	1806	C	Sidechain
35	DA	1820	U	Sidechain
35	DA	1822	G	Sidechain
35	DA	1834	U	Sidechain
35	DA	1955	U	Sidechain
35	DA	197	A	Sidechain
35	DA	1980	G	Sidechain
35	DA	1985	G	Sidechain
35	DA	2009	G	Sidechain
35	DA	2010	G	Sidechain
35	DA	2031	A	Sidechain

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Mol	Chain	Res	Type	Group
35	DA	204	A	Sidechain
35	DA	2052	G	Sidechain
35	DA	2059	A	Sidechain
35	DA	2061	G	Sidechain
35	DA	2079	U	Sidechain
35	DA	2083	G	Sidechain
35	DA	2086	U	Sidechain
35	DA	2396	G	Sidechain
35	DA	2427	C	Sidechain
35	DA	243	U	Sidechain
35	DA	2437	U	Sidechain
35	DA	2443	C	Sidechain
35	DA	2518	A	Sidechain
35	DA	2564	A	Sidechain
35	DA	2689	U	Sidechain
35	DA	2702	U	Sidechain
35	DA	49	A	Sidechain
35	DA	497	A	Sidechain
35	DA	532	A	Sidechain
35	DA	562	U	Sidechain
35	DA	588	U	Sidechain
35	DA	70	G	Sidechain
35	DA	726	G	Sidechain
35	DA	767	U	Sidechain
35	DA	787	U	Sidechain
35	DA	835	A	Sidechain
35	DA	860	U	Sidechain
35	DA	911	A	Sidechain
35	DA	945	A	Sidechain
35	DA	963	U	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	16313	2049	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	CA	32329	0	16314	2039	0
2	AB	1901	0	1951	382	0
2	CB	1901	0	1951	378	0
3	AC	1613	0	1677	256	0
3	CC	1613	0	1677	246	0
4	AD	1703	0	1763	346	0
4	CD	1703	0	1764	336	0
5	AE	1147	0	1207	211	0
5	CE	1147	0	1207	202	0
6	AF	843	0	857	151	0
6	CF	843	0	857	157	0
7	AG	1257	0	1296	235	0
7	CG	1257	0	1296	216	0
8	AH	1116	0	1177	231	0
8	CH	1116	0	1177	233	0
9	AI	1011	0	1041	208	0
9	CI	1011	0	1041	209	0
10	AJ	795	0	840	153	0
10	CJ	795	0	840	154	0
11	AK	885	0	904	179	0
11	CK	885	0	904	180	0
12	AL	971	0	1057	210	0
12	CL	971	0	1057	196	0
13	AM	988	0	1055	163	0
13	CM	988	0	1055	156	0
14	AN	492	0	529	95	0
14	CN	492	0	530	89	0
15	AO	734	0	771	111	0
15	CO	734	0	771	117	0
16	AP	701	0	720	157	0
16	CP	701	0	720	146	0
17	AQ	824	0	891	140	0
17	CQ	824	0	891	138	0
18	AR	574	0	644	138	0
18	CR	574	0	644	133	0
19	AS	630	0	652	139	0
19	CS	630	0	652	138	0
20	AT	763	0	861	133	0
20	CT	763	0	861	125	0
21	AU	209	0	221	30	0
21	CU	209	0	221	28	0
22	AV	362	0	186	23	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
22	CV	362	0	186	20	0
23	AW	1641	0	836	105	0
23	CW	1641	0	839	72	0
24	AX	230	0	118	12	0
24	CX	230	0	117	16	0
25	AY	1478	0	1526	283	0
25	CY	1478	0	1526	303	0
26	B0	652	0	658	102	0
26	D0	652	0	658	87	0
27	B1	693	0	764	248	0
27	D1	693	0	763	241	0
28	B2	421	0	461	118	0
28	D2	421	0	461	146	0
29	B3	468	0	523	86	0
29	D3	468	0	523	82	0
30	B4	242	0	103	14	0
30	D4	242	0	103	10	0
31	B5	459	0	480	103	0
31	D5	459	0	480	107	0
32	B6	381	0	390	69	0
32	D6	381	0	390	72	0
33	B7	419	0	467	75	0
33	D7	419	0	467	72	0
34	B8	508	0	576	154	0
34	D8	508	0	576	143	0
35	BA	59601	0	30029	3753	1
35	DA	59601	0	30026	3760	0
36	BB	2551	0	1294	137	1
36	DB	2551	0	1294	155	0
37	BC	1142	0	865	85	0
38	BD	2105	0	2182	497	0
38	DD	2105	0	2182	503	0
39	BE	1564	0	1629	382	0
39	DE	1564	0	1629	393	0
40	BF	1624	0	1677	349	0
40	DF	1624	0	1676	353	0
41	BG	1474	0	1534	336	0
41	DG	1474	0	1534	441	0
42	BH	1223	0	1282	242	0
42	DH	1223	0	1282	245	0
43	BI	1132	0	1218	227	0
43	DI	1132	0	1218	225	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
44	BN	1105	0	1180	277	0
44	DN	1105	0	1180	291	0
45	BO	933	0	996	234	0
45	DO	933	0	996	237	0
46	BP	1114	0	1187	382	0
46	DP	1114	0	1187	378	0
47	BQ	1080	0	1127	274	0
47	DQ	1080	0	1127	259	0
48	BR	960	0	1021	221	0
48	DR	960	0	1021	220	0
49	BS	771	0	832	201	0
49	DS	771	0	832	207	0
50	BT	1142	0	1202	320	0
50	DT	1142	0	1202	325	0
51	BU	958	0	1014	245	0
51	DU	958	0	1014	256	0
52	BV	779	0	851	231	0
52	DV	779	0	851	234	0
53	BW	896	0	953	174	0
53	DW	896	0	953	164	0
54	BX	726	0	778	251	0
54	DX	726	0	777	252	0
55	BY	776	0	870	205	0
55	DY	776	0	870	208	0
56	BZ	1404	0	1432	353	0
56	DZ	1404	0	1432	318	0
57	DC	1143	0	865	78	0
58	AA	204	0	0	0	0
58	AD	2	0	0	0	0
58	AE	2	0	0	0	0
58	AG	1	0	0	0	0
58	AK	1	0	0	0	0
58	AL	2	0	0	0	0
58	AM	1	0	0	0	0
58	AV	4	0	0	0	0
58	AW	23	0	0	0	0
58	AX	5	0	0	0	0
58	B1	4	0	0	0	0
58	B2	2	0	0	0	0
58	B3	1	0	0	0	0
58	B5	2	0	0	0	0
58	B7	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
58	BA	445	0	0	1	0
58	BB	20	0	0	0	0
58	BD	3	0	0	0	0
58	BE	1	0	0	0	0
58	BF	4	0	0	0	0
58	BG	1	0	0	0	0
58	BN	4	0	0	0	0
58	BO	1	0	0	0	0
58	BP	3	0	0	0	0
58	BU	2	0	0	1	0
58	BX	2	0	0	0	0
58	CA	208	0	0	0	0
58	CE	3	0	0	0	0
58	CG	1	0	0	0	0
58	CL	2	0	0	0	0
58	CN	1	0	0	0	0
58	CV	4	0	0	0	0
58	CW	23	0	0	0	0
58	CX	4	0	0	0	0
58	D1	4	0	0	0	0
58	D2	2	0	0	0	0
58	D3	1	0	0	0	0
58	D5	1	0	0	0	0
58	D7	1	0	0	0	0
58	DA	441	0	0	0	0
58	DB	19	0	0	0	0
58	DD	3	0	0	0	0
58	DE	2	0	0	0	0
58	DF	5	0	0	0	0
58	DG	1	0	0	0	0
58	DH	1	0	0	0	0
58	DN	2	0	0	0	0
58	DP	4	0	0	0	0
58	DS	1	0	0	0	0
58	DU	3	0	0	0	0
58	DV	1	0	0	0	0
58	DX	3	0	0	0	0
59	AD	1	0	0	0	0
59	AN	1	0	0	0	0
59	CD	1	0	0	0	0
59	CN	1	0	0	0	0
All	All	290487	0	197335	30328	1

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 62.

All (30328) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
53:BW:29:LEU:HD21	53:BW:33:ARG:HE	1.07	1.20
55:DY:45:VAL:HA	55:DY:62:GLU:HG2	1.20	1.20
35:DA:2758:A:H2'	35:DA:2759:G:H5''	1.25	1.19
1:CA:1442(A):G:H3'	1:CA:1442(B):A:H5''	1.22	1.18
43:BI:91:SER:HB2	43:BI:119:PRO:HB2	1.21	1.18
1:CA:979:C:H3'	1:CA:980:C:H5''	1.22	1.18
53:DW:29:LEU:HD21	53:DW:33:ARG:HE	1.08	1.17
41:DG:5:VAL:HG12	41:DG:6:ALA:H	1.07	1.17
38:BD:27:THR:HG23	38:BD:28:GLU:H	1.09	1.17
1:CA:1397:C:H42	24:CX:22:U:H3'	1.02	1.16
35:DA:1798:U:H5'	38:DD:259:THR:HG22	1.16	1.16
16:CP:20:VAL:HG21	16:CP:32:TYR:HB2	1.27	1.16
35:BA:2758:A:H2'	35:BA:2759:G:H5''	1.26	1.15
41:DG:111:LEU:HB2	41:DG:112:PRO:HD3	1.25	1.15
38:BD:8:PRO:HB3	38:BD:14:ARG:HD3	1.26	1.15
1:CA:1123:A:H4'	10:CJ:36:GLY:HA3	1.24	1.14
34:B8:46:ARG:HB3	34:B8:46:ARG:HH11	1.03	1.14
47:DQ:39:PRO:HB3	47:DQ:99:PRO:HD3	1.20	1.14
50:BT:80:SER:HB3	50:BT:81:PRO:CD	1.78	1.13
16:AP:20:VAL:HG21	16:AP:32:TYR:HB2	1.26	1.13
36:BB:74:U:H2'	36:BB:75:G:H5''	1.27	1.13
35:DA:2491:U:H5'	35:DA:2570:G:H5''	1.30	1.13
35:BA:2893:G:H5'	35:BA:2894:G:H5'	1.23	1.13
1:AA:1189:C:H5''	3:AC:5:ILE:HG21	1.30	1.13
35:DA:1494:A:H2'	35:DA:1495:A:H5''	1.16	1.13
52:BV:28:GLU:HB2	52:BV:29:PRO:HD3	1.24	1.12
42:DH:102:ALA:HB2	42:DH:117:PRO:HD3	1.31	1.12
1:AA:979:C:H3'	1:AA:980:C:H5''	1.23	1.12
34:D8:62:LEU:HD13	35:DA:242:G:H5''	1.25	1.12
50:DT:80:SER:HB3	50:DT:81:PRO:CD	1.77	1.12
10:AJ:50:ILE:H	10:AJ:50:ILE:HD13	1.15	1.12
54:BX:72:LYS:HG3	54:BX:74:PRO:HD3	1.16	1.12
35:DA:2893:G:H5'	35:DA:2894:G:H5'	1.20	1.12
56:BZ:3:TYR:N	56:BZ:57:ILE:HA	1.64	1.12
35:DA:1879:C:H2'	35:DA:1880:C:H5''	1.30	1.11
27:B1:58:ILE:HD13	27:B1:59:THR:H	1.06	1.11
2:AB:75:LYS:HA	2:AB:78:GLN:HE21	1.12	1.11
38:DD:161:THR:OG1	38:DD:196:VAL:HG21	1.51	1.11
47:BQ:140:ALA:HB3	56:BZ:53:ILE:HD12	1.27	1.11

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:AB:96:ARG:H	2:AB:96:ARG:HD2	1.02	1.11
41:DG:114:ILE:HG21	41:DG:117:PHE:HB2	1.27	1.11
41:BG:60:LEU:HD22	41:BG:63:ILE:HD11	1.25	1.11
50:BT:62:THR:HG22	50:BT:75:ILE:HA	1.32	1.11
55:DY:95:LYS:HG2	55:DY:100:ALA:HA	1.29	1.11
34:B8:62:LEU:HD13	35:BA:242:G:H5''	1.28	1.11
28:D2:44:LEU:HD23	35:DA:61:G:H5'	1.32	1.11
32:D6:10:LEU:HD12	34:D8:36:LYS:HD3	1.27	1.10
10:CJ:50:ILE:HD13	10:CJ:50:ILE:H	1.14	1.10
41:DG:36:LYS:HD3	41:DG:95:ARG:HH22	1.14	1.10
39:BE:51:PHE:H	39:BE:74:PRO:HG3	1.17	1.10
35:BA:2598:A:H5''	38:BD:236:GLY:H	1.05	1.10
41:BG:27:ASN:HD21	41:BG:29:TRP:HB2	1.16	1.10
42:BH:102:ALA:HB2	42:BH:117:PRO:HD3	1.30	1.10
35:BA:483:A:H1'	55:BY:47:LYS:HG2	1.32	1.10
35:BA:2639:A:H2'	35:BA:2640:G:H5''	1.34	1.10
56:DZ:166:SER:CB	56:DZ:168:GLU:H	1.64	1.10
52:DV:28:GLU:HB2	52:DV:29:PRO:HD3	1.25	1.10
35:DA:2598:A:H5''	38:DD:236:GLY:H	1.07	1.09
35:BA:1494:A:H2'	35:BA:1495:A:H5''	1.18	1.09
35:DA:1884:A:H2'	35:DA:1885:A:H5''	1.33	1.09
1:AA:1123:A:H4'	10:AJ:36:GLY:HA3	1.22	1.09
14:AN:4:LYS:HD2	14:AN:7:ILE:HD11	1.32	1.09
32:B6:10:LEU:HD12	34:B8:36:LYS:HD3	1.21	1.09
38:BD:35:LYS:HD3	38:BD:63:ARG:HB3	1.31	1.09
41:DG:51:ARG:NE	41:DG:51:ARG:HA	1.63	1.09
56:DZ:166:SER:HB2	56:DZ:168:GLU:H	1.14	1.09
1:CA:1189:C:H5''	3:CC:5:ILE:HG21	1.33	1.09
38:DD:8:PRO:HB3	38:DD:14:ARG:HD3	1.25	1.09
38:DD:27:THR:HG23	38:DD:28:GLU:H	1.10	1.09
47:DQ:52:VAL:HG13	47:DQ:53:ALA:H	1.17	1.09
3:CC:43:LEU:HD22	3:CC:47:LEU:HD22	1.34	1.09
1:CA:1321:C:H5'	1:CA:1322:C:H5''	1.35	1.08
45:DO:114:ILE:HD12	45:DO:114:ILE:H	1.18	1.08
35:BA:1879:C:H2'	35:BA:1880:C:H5''	1.28	1.08
32:B6:51:GLU:HG2	32:B6:52:VAL:H	1.18	1.08
32:D6:51:GLU:HG2	32:D6:52:VAL:H	1.18	1.08
49:BS:15:ARG:HB3	49:BS:18:ILE:HD13	1.32	1.08
50:DT:109:GLU:HB3	50:DT:113:LYS:HE3	1.36	1.08
4:CD:22:LYS:HB2	4:CD:26:CYS:HB2	1.34	1.08
43:DI:91:SER:HB2	43:DI:119:PRO:HB2	1.18	1.08
36:DB:74:U:H2'	36:DB:75:G:H5''	1.29	1.08

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
47:BQ:39:PRO:HB3	47:BQ:99:PRO:HD3	1.18	1.08
35:DA:2639:A:H2'	35:DA:2640:G:H5''	1.32	1.08
35:DA:483:A:H1'	55:DY:47:LYS:HG2	1.34	1.08
35:BA:2284:C:H2'	35:BA:2285:C:H5''	1.29	1.08
27:B1:42:GLN:HG2	27:B1:43:TYR:H	1.15	1.08
35:DA:2284:C:H2'	35:DA:2285:C:H5''	1.32	1.08
44:BN:66:LYS:HD3	44:BN:70:LYS:HB2	1.29	1.08
55:BY:45:VAL:HA	55:BY:62:GLU:HG2	1.23	1.07
14:CN:4:LYS:HD2	14:CN:7:ILE:HD11	1.30	1.07
40:BF:2:LYS:HG3	40:BF:25:PRO:HB2	1.30	1.07
46:DP:71:VAL:CG1	46:DP:72:PRO:HD3	1.83	1.07
25:AY:39:LEU:HB2	25:AY:53:ASN:HB3	1.30	1.07
5:CE:50:GLU:HG3	5:CE:52:PRO:HD2	1.34	1.07
3:AC:9:GLY:HA2	3:AC:12:LEU:HD23	1.36	1.07
35:BA:2491:U:H5'	35:BA:2570:G:H5''	1.32	1.07
27:D1:10:LYS:HG3	27:D1:11:ARG:H	1.18	1.07
34:D8:46:ARG:HH11	34:D8:46:ARG:HB3	1.02	1.07
35:BA:1798:U:H5'	38:BD:259:THR:HG22	1.14	1.07
35:BA:271(P):C:H5'	43:BI:46:ALA:HB2	1.32	1.07
44:DN:66:LYS:HD3	44:DN:70:LYS:HB2	1.28	1.07
46:BP:71:VAL:CG1	46:BP:72:PRO:HD3	1.83	1.07
3:CC:9:GLY:HA2	3:CC:12:LEU:HD23	1.36	1.07
34:B8:52:LYS:H	34:B8:53:PRO:HD2	1.19	1.07
43:BI:77:LEU:HB2	43:BI:140:LEU:HD13	1.36	1.07
40:DF:2:LYS:HG3	40:DF:25:PRO:HB2	1.30	1.07
55:BY:95:LYS:HG2	55:BY:100:ALA:HA	1.27	1.07
35:BA:1586:A:H3'	35:BA:1587:A:H5''	1.07	1.07
2:CB:96:ARG:HD2	2:CB:96:ARG:H	1.03	1.07
35:DA:271(P):C:H5'	43:DI:46:ALA:HB2	1.33	1.07
47:BQ:75:THR:HA	47:BQ:88:GLY:HA3	1.37	1.07
35:DA:1586:A:H3'	35:DA:1587:A:H5''	1.10	1.07
41:DG:51:ARG:NH1	41:DG:53:LEU:HG	1.70	1.06
35:DA:2821:A:P	48:DR:2:ARG:HH22	1.77	1.06
35:BA:2821:A:P	48:BR:2:ARG:HH22	1.77	1.06
38:DD:25:THR:HG21	38:DD:81:ALA:HB1	1.35	1.06
3:AC:43:LEU:HD22	3:AC:47:LEU:HD22	1.33	1.06
38:DD:35:LYS:HD3	38:DD:63:ARG:HB3	1.34	1.06
50:DT:62:THR:HG22	50:DT:75:ILE:HA	1.31	1.06
28:D2:41:ILE:HD12	28:D2:41:ILE:H	1.21	1.06
5:AE:50:GLU:HG3	5:AE:52:PRO:HD2	1.37	1.06
52:BV:83:ARG:HG2	52:BV:83:ARG:HH11	1.16	1.06
35:BA:1286:A:H2'	35:BA:1288:U:OP2	1.54	1.06

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
50:BT:66:VAL:HA	50:BT:71:GLY:HA2	1.38	1.05
35:BA:2562:U:H1'	45:BO:23:ARG:HH12	1.21	1.05
48:DR:10:LEU:HD22	48:DR:17:ARG:HD2	1.36	1.05
1:CA:908:A:H2'	1:CA:909:A:H8	1.18	1.05
38:BD:161:THR:OG1	38:BD:196:VAL:HG21	1.56	1.05
35:DA:782:A:C2	38:DD:226:MET:HG2	1.92	1.05
49:DS:15:ARG:HB3	49:DS:18:ILE:HD13	1.29	1.05
28:B2:30:ARG:H	28:B2:30:ARG:HD2	1.18	1.05
26:B0:70:GLN:HG2	26:B0:71:ASP:H	1.20	1.05
45:BO:63:VAL:HG22	45:BO:84:ALA:HA	1.38	1.05
2:CB:75:LYS:HA	2:CB:78:GLN:HE21	1.12	1.05
51:DU:92:ARG:HB3	52:DV:11:GLN:NE2	1.70	1.05
4:CD:120:LEU:HD12	4:CD:120:LEU:H	1.18	1.05
43:BI:72:LEU:HD12	43:BI:138:ILE:HD11	1.38	1.05
2:AB:71:VAL:HG22	2:AB:93:VAL:H	1.21	1.05
50:DT:28:VAL:HG21	50:DT:47:GLY:H	1.20	1.05
35:DA:2533:A:H2'	35:DA:2534:A:H5''	1.36	1.05
39:BE:179:GLU:HB3	39:BE:181:LEU:HD21	1.37	1.04
39:DE:108:SER:HB3	39:DE:165:VAL:HG21	1.38	1.04
27:D1:33:LYS:HG2	27:D1:34:THR:H	1.16	1.04
44:DN:34:LEU:HD21	44:DN:120:LEU:HB2	1.39	1.04
35:BA:1747(A):G:H2'	35:BA:1748:G:H5''	1.37	1.04
35:BA:2476:A:H2'	35:BA:2477:C:H5''	1.40	1.04
44:BN:34:LEU:HD21	44:BN:120:LEU:HB2	1.37	1.04
27:D1:11:ARG:O	27:D1:13:ILE:N	1.89	1.04
45:BO:114:ILE:HD12	45:BO:114:ILE:H	1.20	1.04
18:CR:37:VAL:HG23	18:CR:38:GLU:H	1.22	1.04
2:CB:71:VAL:HG22	2:CB:93:VAL:H	1.18	1.04
34:B8:13:ARG:HB3	46:BP:63:PRO:HA	1.37	1.04
35:BA:2729:G:H1'	39:BE:187:ALA:HB2	1.34	1.04
52:DV:38:LEU:HD23	52:DV:39:LEU:H	1.20	1.04
35:DA:586:A:H5'	40:DF:89:VAL:HG21	1.37	1.04
35:DA:2729:G:H1'	39:DE:187:ALA:HB2	1.38	1.04
51:BU:66:ASN:HD21	51:BU:70:ARG:NH2	1.54	1.04
56:DZ:70:LEU:HD12	56:DZ:91:LEU:HD21	1.38	1.04
27:D1:58:ILE:HD12	27:D1:59:THR:H	1.22	1.04
35:DA:689:A:H2'	35:DA:690:G:H8	1.22	1.04
35:DA:1203:G:H4'	46:DP:7:ARG:HG2	1.36	1.04
35:BA:782:A:C2	38:BD:226:MET:HG2	1.93	1.03
38:BD:27:THR:HG21	38:BD:83:GLU:HG2	1.40	1.03
27:B1:86:SER:HA	27:B1:89:GLU:HG3	1.35	1.03
35:BA:1884:A:H2'	35:BA:1885:A:H5''	1.34	1.03

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:BD:25:THR:HG21	38:BD:81:ALA:HB1	1.38	1.03
27:B1:16:ASN:HB3	27:B1:46:LEU:HG	1.39	1.03
35:DA:2476:A:H2'	35:DA:2477:C:H5''	1.40	1.03
3:CC:15:THR:HG22	3:CC:16:ARG:HH12	1.21	1.03
4:AD:96:LEU:H	4:AD:96:LEU:HD22	1.19	1.03
1:CA:975:A:H4'	1:CA:976:G:H5''	1.38	1.03
48:DR:48:VAL:HA	48:DR:51:LEU:HD12	1.41	1.03
46:DP:146:VAL:HG22	46:DP:147:LEU:H	1.24	1.03
50:DT:66:VAL:HA	50:DT:71:GLY:HA2	1.39	1.03
56:DZ:166:SER:HB2	56:DZ:168:GLU:N	1.74	1.03
40:BF:53:THR:HG23	40:BF:56:GLU:HB2	1.40	1.03
1:AA:1412:C:H2'	1:AA:1413:A:C8	1.94	1.03
38:DD:92:ILE:HG22	38:DD:106:ILE:HA	1.40	1.03
28:D2:49:LYS:HB3	28:D2:53:LEU:HD22	1.34	1.03
35:DA:1286:A:H2'	35:DA:1288:U:OP2	1.58	1.03
3:AC:15:THR:HG22	3:AC:16:ARG:HH12	1.18	1.03
1:AA:1321:C:H5'	1:AA:1322:C:H5''	1.36	1.03
41:DG:41:GLN:HG2	41:DG:43:LEU:HD12	1.37	1.02
35:BA:2598:A:H5''	38:BD:236:GLY:N	1.73	1.02
34:D8:13:ARG:HB3	46:DP:63:PRO:HA	1.36	1.02
55:DY:10:GLY:HA2	55:DY:27:VAL:HG13	1.40	1.02
35:BA:2533:A:H2'	35:BA:2534:A:H5''	1.40	1.02
35:DA:2348:U:H2'	35:DA:2349:G:H5''	1.41	1.02
1:AA:585:G:H4'	12:AL:8:ASN:HD21	1.23	1.02
1:AA:908:A:H2'	1:AA:909:A:H8	1.20	1.02
1:AA:975:A:H4'	1:AA:976:G:H5''	1.41	1.02
39:DE:51:PHE:H	39:DE:74:PRO:HG3	1.21	1.02
28:D2:14:ARG:HG2	28:D2:15:LYS:H	1.20	1.02
2:CB:165:VAL:HG23	2:CB:166:ASP:H	1.23	1.02
46:DP:38:GLN:HG3	46:DP:39:LYS:H	1.23	1.02
3:CC:157:ILE:HB	3:CC:164:ARG:HH12	1.23	1.02
4:AD:22:LYS:HB2	4:AD:26:CYS:HB2	1.37	1.02
35:BA:404:C:H4'	35:BA:405:U:H5'	1.41	1.02
48:DR:98:LEU:HB2	48:DR:113:LEU:HD23	1.41	1.02
40:DF:67:GLN:O	40:DF:67:GLN:HG3	1.56	1.02
56:DZ:56:VAL:HA	56:DZ:70:LEU:HD21	1.04	1.02
48:BR:10:LEU:HD22	48:BR:17:ARG:HD2	1.41	1.02
50:BT:109:GLU:HB3	50:BT:113:LYS:HE3	1.36	1.02
2:AB:165:VAL:HG23	2:AB:166:ASP:H	1.24	1.02
43:DI:72:LEU:HD12	43:DI:138:ILE:HD11	1.39	1.02
47:DQ:75:THR:HA	47:DQ:88:GLY:HA3	1.37	1.02
44:DN:14:VAL:HG12	44:DN:15:LEU:H	1.25	1.02

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
32:B6:12:GLU:HA	32:B6:23:THR:HA	1.42	1.02
46:DP:71:VAL:HG13	46:DP:72:PRO:CD	1.90	1.02
39:DE:110:GLY:HA2	39:DE:161:GLY:HA3	1.40	1.02
35:BA:389:G:H22	46:BP:71:VAL:HG11	1.24	1.01
35:BA:389:G:H1	46:BP:71:VAL:HB	1.25	1.01
18:CR:25:THR:HG22	18:CR:42:ARG:HH11	1.21	1.01
18:AR:25:THR:HG22	18:AR:42:ARG:HH11	1.22	1.01
35:BA:2348:U:H2'	35:BA:2349:G:H5''	1.38	1.01
47:BQ:52:VAL:HG13	47:BQ:53:ALA:H	1.24	1.01
35:BA:2737:G:H2'	35:BA:2738:A:H8	1.25	1.01
1:CA:1524:C:H2'	1:CA:1525:G:H8	1.25	1.01
41:DG:132:ASN:HD21	41:DG:157:ILE:HG13	1.23	1.01
52:BV:18:LEU:HD22	52:BV:19:LYS:H	1.23	1.01
41:BG:5:VAL:HG12	41:BG:6:ALA:H	1.25	1.01
53:DW:73:ALA:HB3	53:DW:106:ILE:HD11	1.40	1.01
48:BR:98:LEU:HB2	48:BR:113:LEU:HD23	1.41	1.01
38:DD:226:MET:HE2	38:DD:230:ASP:HB3	1.43	1.01
35:BA:94(A):G:H2'	35:BA:95:G:H5''	1.43	1.01
41:BG:173:LEU:HA	41:BG:176:LEU:HD12	1.38	1.01
56:DZ:69:THR:HG22	56:DZ:90:VAL:HG22	1.41	1.01
51:DU:66:ASN:HD21	51:DU:70:ARG:NH2	1.58	1.01
4:AD:120:LEU:H	4:AD:120:LEU:HD12	1.23	1.01
26:D0:70:GLN:HG2	26:D0:71:ASP:H	1.18	1.01
35:DA:2036:C:H6	35:DA:2036:C:H5'	1.24	1.01
35:DA:94(A):G:H2'	35:DA:95:G:H5''	1.43	1.01
18:AR:37:VAL:HG23	18:AR:38:GLU:H	1.21	1.01
35:DA:2737:G:H2'	35:DA:2738:A:H8	1.25	1.01
42:DH:19:VAL:HB	42:DH:44:VAL:HG13	1.42	1.01
2:AB:112:VAL:O	2:AB:115:LEU:HB3	1.61	1.01
27:B1:27:GLU:HB2	27:B1:33:LYS:O	1.58	1.01
41:DG:132:ASN:HB2	41:DG:159:VAL:HG22	1.41	1.01
50:BT:28:VAL:HG21	50:BT:47:GLY:H	1.24	1.01
54:BX:72:LYS:HE3	54:BX:74:PRO:HB3	1.40	1.01
4:CD:96:LEU:H	4:CD:96:LEU:HD22	1.22	1.01
35:BA:2348:U:C2'	35:BA:2349:G:H5''	1.90	1.01
35:DA:342:G:C2'	35:DA:343:C:H5''	1.91	1.01
38:DD:27:THR:HG21	38:DD:83:GLU:HG2	1.41	1.00
27:B1:94:LEU:HD22	27:B1:95:LEU:H	1.22	1.00
51:DU:64:ARG:HH21	51:DU:64:ARG:HB3	1.18	1.00
46:BP:146:VAL:HG22	46:BP:147:LEU:H	1.24	1.00
35:DA:1747(A):G:H2'	35:DA:1748:G:H5''	1.38	1.00
16:AP:60:LEU:HD23	16:AP:64:ALA:HB3	1.43	1.00

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:939:G:H5''	7:AG:102:ARG:HH22	1.24	1.00
50:BT:11:GLU:H	50:BT:11:GLU:CD	1.60	1.00
35:DA:1494:A:H2'	35:DA:1495:A:C5'	1.92	1.00
52:BV:38:LEU:HD23	52:BV:39:LEU:H	1.23	1.00
32:D6:12:GLU:HA	32:D6:23:THR:HA	1.39	1.00
49:BS:28:VAL:HG12	49:BS:29:PHE:H	1.23	1.00
46:BP:71:VAL:HG13	46:BP:72:PRO:CD	1.90	1.00
35:DA:27:G:HO2'	35:DA:28:A:H8	1.02	1.00
25:CY:10:THR:O	25:CY:14:MET:HG3	1.59	1.00
1:CA:1324:A:H2'	1:CA:1325:C:H6	1.26	1.00
35:BA:1203:G:H4'	46:BP:7:ARG:HG2	1.39	1.00
27:B1:10:LYS:O	27:B1:13:ILE:HG22	1.61	1.00
56:DZ:73:GLN:HG2	56:DZ:74:VAL:H	1.25	1.00
36:DB:74:U:C2'	36:DB:75:G:H5''	1.91	1.00
43:DI:77:LEU:HB2	43:DI:140:LEU:HD13	1.40	1.00
35:DA:389:G:H22	46:DP:71:VAL:HG11	1.25	1.00
39:BE:108:SER:HB3	39:BE:165:VAL:HG21	1.38	1.00
52:DV:83:ARG:HG2	52:DV:83:ARG:HH11	1.22	1.00
12:CL:83:VAL:HG22	12:CL:84:LEU:H	1.26	1.00
35:DA:17:G:HO2'	51:DU:25:TRP:HZ3	1.09	1.00
12:CL:55:VAL:HG12	12:CL:56:ALA:H	1.26	1.00
43:BI:38:LEU:HD12	43:BI:38:LEU:H	1.26	1.00
35:BA:1586:A:H3'	35:BA:1587:A:C5'	1.91	1.00
1:AA:1363(A):A:H4'	1:AA:1364:U:H5''	1.40	1.00
13:CM:91:ARG:HH11	19:CS:81:ARG:HH22	1.06	1.00
1:CA:1216:G:H5''	14:CN:5:ALA:HB2	1.43	1.00
46:BP:71:VAL:HG13	46:BP:72:PRO:HD3	1.00	1.00
1:AA:1469:G:H2'	1:AA:1470:G:H8	1.25	1.00
35:BA:342:G:C2'	35:BA:343:C:H5''	1.91	1.00
1:AA:1324:A:H2'	1:AA:1325:C:H6	1.27	1.00
35:DA:404:C:H4'	35:DA:405:U:H5'	1.39	1.00
16:AP:26:ARG:HH11	16:AP:26:ARG:HB3	1.26	1.00
42:DH:18:GLU:HB2	42:DH:25:LYS:HB2	1.43	1.00
38:BD:92:ILE:HG22	38:BD:106:ILE:HA	1.40	1.00
47:BQ:55:VAL:HG12	47:BQ:64:ILE:HD12	1.43	1.00
35:BA:1348:G:H2'	35:BA:1349:A:H5''	1.42	1.00
2:AB:236:TYR:HA	2:AB:239:VAL:HG23	1.44	1.00
35:BA:2498:C:O2'	35:BA:2499:C:H5'	1.62	1.00
19:AS:36:ARG:HH22	19:AS:75:ALA:HB3	1.27	1.00
44:BN:14:VAL:HG12	44:BN:15:LEU:H	1.25	1.00
1:CA:1452:C:H1'	1:CA:1456:G:N2	1.75	1.00
35:DA:2701:C:H3'	35:DA:2702:U:H5''	1.40	1.00

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:DV:18:LEU:HD22	52:DV:19:LYS:H	1.26	0.99
27:D1:62:VAL:HG21	27:D1:67:ILE:HA	1.39	0.99
39:BE:110:GLY:HA2	39:BE:161:GLY:HA3	1.44	0.99
35:BA:1657:C:H2'	35:BA:1658:C:H6	1.27	0.99
16:CP:26:ARG:HH11	16:CP:26:ARG:HB3	1.25	0.99
34:B8:32:LEU:C	34:B8:34:TRP:H	1.55	0.99
36:BB:74:U:C2'	36:BB:75:G:H5''	1.91	0.99
46:BP:38:GLN:HG3	46:BP:39:LYS:H	1.24	0.99
1:CA:194:C:H2'	1:CA:195:A:H5''	1.44	0.99
52:BV:70:ILE:HB	52:BV:90:PRO:HB2	1.40	0.99
34:D8:52:LYS:H	34:D8:53:PRO:HD2	1.24	0.99
25:AY:60:ALA:HA	25:AY:66:LEU:HA	1.41	0.99
27:B1:85:LEU:C	27:B1:87:PRO:HD3	1.83	0.99
27:B1:47:GLN:HG2	35:BA:2230:G:H1'	0.99	0.99
35:DA:1348:G:H2'	35:DA:1349:A:H5''	1.42	0.99
3:AC:157:ILE:HB	3:AC:164:ARG:HH12	1.27	0.99
2:CB:236:TYR:HA	2:CB:239:VAL:HG23	1.42	0.99
1:AA:1216:G:H5''	14:AN:5:ALA:HB2	1.45	0.99
39:DE:179:GLU:HB3	39:DE:181:LEU:HD21	1.42	0.99
52:DV:64:HIS:HB3	52:DV:96:ILE:HA	1.43	0.99
7:AG:75:VAL:HG12	7:AG:88:PRO:HB3	1.44	0.99
50:DT:11:GLU:H	50:DT:11:GLU:CD	1.60	0.99
25:AY:133:ARG:HD3	25:AY:165:THR:HG21	1.40	0.99
53:BW:73:ALA:HB3	53:BW:106:ILE:HD11	1.40	0.99
51:BU:92:ARG:HB3	52:BV:11:GLN:NE2	1.76	0.99
35:BA:586:A:H5'	40:BF:89:VAL:HG21	1.40	0.99
52:DV:70:ILE:HB	52:DV:90:PRO:HB2	1.40	0.99
35:DA:2348:U:C2'	35:DA:2349:G:H5''	1.92	0.99
1:CA:939:G:H5''	7:CG:102:ARG:HH22	1.24	0.99
1:CA:585:G:H4'	12:CL:8:ASN:HD21	1.28	0.99
56:DZ:24:LEU:HD11	56:DZ:86:VAL:HG23	1.45	0.99
35:BA:1879:C:C2'	35:BA:1880:C:H5''	1.93	0.99
49:BS:13:ARG:H	49:BS:13:ARG:HD2	1.27	0.99
23:CW:3:C:H2'	23:CW:4:G:H5''	1.42	0.99
42:DH:43:VAL:HG11	42:DH:52:VAL:HA	1.44	0.99
38:BD:35:LYS:HG2	38:BD:64:ILE:H	1.28	0.99
43:DI:98:ALA:HB1	43:DI:109:ILE:HB	1.43	0.99
27:B1:32:LYS:HA	35:BA:2396:G:O2'	1.62	0.99
49:DS:28:VAL:HG12	49:DS:29:PHE:H	1.25	0.99
1:CA:1363(A):A:H4'	1:CA:1364:U:H5''	1.41	0.99
12:AL:83:VAL:HG22	12:AL:84:LEU:H	1.28	0.99
34:D8:32:LEU:C	34:D8:34:TRP:H	1.57	0.98

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
26:B0:32:ARG:H	26:B0:35:ASN:HD22	1.05	0.98
35:BA:2125:G:H21	35:BA:2173:A:H62	1.05	0.98
50:DT:50:ILE:HG23	50:DT:99:LEU:HD12	1.45	0.98
39:DE:24:THR:HG23	39:DE:184:VAL:HG23	1.46	0.98
52:BV:64:HIS:HB3	52:BV:96:ILE:HA	1.44	0.98
46:BP:30:THR:HG22	46:BP:31:ALA:H	1.27	0.98
44:DN:46:VAL:HG13	44:DN:47:ALA:H	1.25	0.98
35:DA:1494:A:C2'	35:DA:1495:A:H5''	1.93	0.98
51:BU:64:ARG:HH21	51:BU:64:ARG:HB3	1.22	0.98
34:D8:46:ARG:NH1	34:D8:46:ARG:HB3	1.78	0.98
35:BA:2701:C:H3'	35:BA:2702:U:H5''	1.43	0.98
35:BA:1798:U:H5'	38:BD:259:THR:CG2	1.91	0.98
40:BF:67:GLN:HG3	40:BF:67:GLN:O	1.62	0.98
35:DA:1586:A:H3'	35:DA:1587:A:C5'	1.94	0.98
19:CS:63:THR:HG22	19:CS:66:MET:HG2	1.45	0.98
35:BA:1657:C:H2'	35:BA:1658:C:C6	1.97	0.98
35:BA:1590:U:H2'	35:BA:1591:G:H5''	1.42	0.98
42:BH:43:VAL:HG11	42:BH:52:VAL:HA	1.41	0.98
10:CJ:34:VAL:HG22	10:CJ:74:ILE:HG22	1.42	0.98
34:B8:35:GLN:HA	35:BA:2420:C:OP2	1.64	0.98
35:DA:2598:A:H5''	38:DD:236:GLY:N	1.76	0.98
1:CA:1065:U:H5'	1:CA:1190:G:H21	1.29	0.98
47:BQ:9:TYR:O	47:BQ:10:ARG:HG3	1.61	0.98
35:BA:2036:C:H6	35:BA:2036:C:H5'	1.28	0.98
41:DG:37:VAL:HB	41:DG:94:LEU:HB2	1.43	0.98
3:AC:164:ARG:HB2	3:AC:164:ARG:HH11	1.26	0.98
35:DA:27:G:H22	35:DA:512:G:H2'	1.29	0.98
11:CK:27:ASN:HB2	11:CK:55:LYS:HB3	1.45	0.98
39:BE:24:THR:HG23	39:BE:184:VAL:HG23	1.45	0.98
10:AJ:34:VAL:HG22	10:AJ:74:ILE:HG22	1.44	0.98
35:DA:2415:G:O3'	46:DP:66:GLY:HA3	1.64	0.98
13:CM:108:ARG:H	13:CM:108:ARG:HD2	1.28	0.98
42:BH:18:GLU:HB2	42:BH:25:LYS:HB2	1.42	0.98
38:DD:35:LYS:HG2	38:DD:64:ILE:H	1.27	0.97
50:BT:40:THR:O	50:BT:41:ARG:HB2	1.63	0.97
2:CB:84:GLU:HB3	2:CB:219:VAL:HG21	1.46	0.97
16:CP:60:LEU:HD23	16:CP:64:ALA:HB3	1.45	0.97
26:D0:32:ARG:H	26:D0:35:ASN:HD22	1.09	0.97
35:DA:1798:U:H5'	38:DD:259:THR:CG2	1.92	0.97
45:BO:61:VAL:O	45:BO:84:ALA:HB1	1.62	0.97
54:DX:72:LYS:HE3	54:DX:74:PRO:HB3	1.42	0.97
12:AL:6:THR:HG23	12:AL:9:GLN:H	1.28	0.97

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:AY:150:SER:H	25:AY:153:GLU:HB2	1.29	0.97
11:AK:103:LEU:HD22	11:AK:103:LEU:H	1.24	0.97
35:DA:2600:A:O2'	35:DA:2601:C:H5'	1.64	0.97
35:DA:389:G:H1	46:DP:71:VAL:HB	1.28	0.97
46:DP:71:VAL:HG13	46:DP:72:PRO:HD3	0.98	0.97
36:DB:7:G:H3'	36:DB:8:U:H5''	1.44	0.97
25:CY:129:ILE:HA	25:CY:132:ILE:CD1	1.94	0.97
35:DA:847:U:H2'	35:DA:848:G:H5''	1.46	0.97
7:CG:75:VAL:HG12	7:CG:88:PRO:HB3	1.41	0.97
35:BA:689:A:H2'	35:BA:690:G:H8	1.27	0.97
35:BA:1586:A:C3'	35:BA:1587:A:H5''	1.93	0.97
47:DQ:9:TYR:O	47:DQ:10:ARG:HG3	1.63	0.97
19:AS:63:THR:HG22	19:AS:66:MET:HG2	1.44	0.97
35:DA:2426:A:H3'	35:DA:2427:C:H5'	1.43	0.97
43:BI:98:ALA:HB1	43:BI:109:ILE:HB	1.46	0.97
40:DF:132:VAL:HG22	40:DF:133:ASN:H	1.28	0.97
35:DA:1590:U:H2'	35:DA:1591:G:H5''	1.44	0.97
39:DE:116:VAL:HG23	39:DE:120:TRP:HB2	1.47	0.97
52:BV:2:PHE:HB3	52:BV:42:GLY:HA2	1.45	0.97
35:DA:2753:A:O2'	35:DA:2754:U:H5'	1.65	0.97
12:AL:37:CYS:HA	12:AL:58:VAL:HG22	1.47	0.97
35:BA:2645:G:H3'	35:BA:2646:C:H5'	1.45	0.97
8:CH:110:ALA:HB3	8:CH:121:ASP:HB3	1.45	0.97
41:DG:43:LEU:CD2	41:DG:44:GLY:H	1.77	0.97
54:BX:60:ARG:HG2	54:BX:74:PRO:HD2	1.46	0.97
39:DE:33:VAL:HG11	39:DE:89:ASP:H	1.27	0.97
39:BE:116:VAL:HG23	39:BE:120:TRP:HB2	1.43	0.97
3:CC:164:ARG:HB2	3:CC:164:ARG:HH11	1.24	0.97
25:CY:3:LEU:HA	25:CY:6:LEU:HB3	1.41	0.97
35:DA:2645:G:H3'	35:DA:2646:C:H5'	1.44	0.97
35:BA:2426:A:H3'	35:BA:2427:C:H5'	1.46	0.97
35:BA:106:C:H1'	55:BY:2:ARG:NH2	1.80	0.97
20:CT:73:HIS:HB3	20:CT:74:LYS:HD3	1.47	0.97
2:CB:171:ALA:HA	2:CB:174:VAL:HG23	1.45	0.97
35:BA:2415:G:O3'	46:BP:66:GLY:HA3	1.62	0.97
11:AK:27:ASN:HB2	11:AK:55:LYS:HB3	1.45	0.97
47:DQ:55:VAL:HG12	47:DQ:64:ILE:HD12	1.42	0.97
25:AY:63:PRO:HB2	25:AY:64:ARG:HH12	1.27	0.97
13:AM:108:ARG:H	13:AM:108:ARG:HD2	1.29	0.97
4:CD:145:GLU:HG2	4:CD:184:LYS:HG3	1.46	0.97
50:DT:38:ASN:HD22	50:DT:40:THR:H	1.12	0.97
38:DD:94:LEU:H	38:DD:94:LEU:HD12	1.26	0.97

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2693:A:H2'	35:BA:2694:G:H8	1.30	0.97
12:CL:6:THR:HG23	12:CL:9:GLN:H	1.26	0.97
56:DZ:149:SER:HB3	56:DZ:173:ALA:HA	1.47	0.96
4:CD:61:LYS:HA	4:CD:203:VAL:HG22	1.45	0.96
35:BA:925:C:H2'	35:BA:926:A:H5''	1.46	0.96
44:DN:9:VAL:HG11	44:DN:39:ARG:HH22	1.30	0.96
55:BY:10:GLY:HA2	55:BY:27:VAL:HG13	1.46	0.96
40:DF:103:LYS:HG2	40:DF:106:ARG:HH21	1.28	0.96
27:B1:47:GLN:HG2	35:BA:2230:G:C1'	1.94	0.96
44:BN:22:THR:HA	44:BN:61:ARG:HB2	1.47	0.96
35:DA:342:G:H2'	35:DA:343:C:H5''	1.44	0.96
11:CK:103:LEU:H	11:CK:103:LEU:HD22	1.27	0.96
55:BY:88:LYS:HZ3	55:BY:93:GLY:H	1.01	0.96
48:BR:48:VAL:HA	48:BR:51:LEU:HD12	1.45	0.96
34:B8:46:ARG:HH11	34:B8:46:ARG:CB	1.79	0.96
56:DZ:125:LEU:HB3	56:DZ:165:VAL:HG22	1.45	0.96
25:AY:29:ARG:HE	25:AY:32:ARG:NH2	1.63	0.96
55:BY:31:LEU:HB3	55:BY:32:PRO:HA	1.47	0.96
50:BT:50:ILE:HG23	50:BT:99:LEU:HD12	1.42	0.96
52:BV:19:LYS:HZ2	52:BV:20:LEU:H	1.09	0.96
52:DV:34:GLU:H	52:DV:62:LEU:HB2	1.29	0.96
35:BA:27:G:HO2'	35:BA:28:A:H8	1.00	0.96
27:D1:23:LYS:HB3	27:D1:37:ILE:HD11	1.43	0.96
35:BA:847:U:H2'	35:BA:848:G:H5''	1.46	0.96
50:DT:29:ARG:HB3	50:DT:85:LYS:HA	1.46	0.96
1:AA:1060:C:H5'	14:AN:45:ARG:HH22	1.30	0.96
43:DI:91:SER:HB3	43:DI:121:LYS:HE3	1.45	0.96
44:BN:65:LYS:HE2	44:BN:65:LYS:HA	1.47	0.96
48:DR:38:VAL:HB	48:DR:39:PRO:HD3	1.48	0.96
41:DG:39:ILE:HA	41:DG:157:ILE:HA	1.45	0.96
48:BR:45:ARG:HG3	48:BR:46:GLY:H	1.30	0.96
8:AH:110:ALA:HB3	8:AH:121:ASP:HB3	1.45	0.96
10:CJ:4:ILE:HB	10:CJ:74:ILE:HD11	1.47	0.96
35:BA:1494:A:H2'	35:BA:1495:A:C5'	1.93	0.96
35:BA:2334:G:H5'	49:BS:13:ARG:HG2	1.48	0.96
1:AA:1104:G:H4'	2:AB:111:ARG:NH1	1.81	0.96
40:BF:132:VAL:HG22	40:BF:133:ASN:H	1.27	0.96
1:AA:194:C:H2'	1:AA:195:A:H5''	1.45	0.96
5:AE:39:GLY:HA2	5:AE:69:VAL:HB	1.48	0.96
1:AA:1065:U:H5'	1:AA:1190:G:H21	1.29	0.96
35:DA:925:C:H2'	35:DA:926:A:H5''	1.45	0.96
52:DV:2:PHE:HB3	52:DV:42:GLY:HA2	1.48	0.95

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1452:C:H1'	1:CA:1456:G:H22	1.25	0.95
26:B0:32:ARG:H	26:B0:35:ASN:ND2	1.63	0.95
2:CB:112:VAL:O	2:CB:115:LEU:HB3	1.64	0.95
27:B1:11:ARG:NH1	27:B1:60:PHE:HA	1.81	0.95
4:CD:30:LYS:C	4:CD:32:ALA:H	1.68	0.95
49:DS:13:ARG:H	49:DS:13:ARG:HD2	1.27	0.95
1:CA:1104:G:H4'	2:CB:111:ARG:NH1	1.81	0.95
52:DV:78:LYS:HD3	52:DV:79:VAL:N	1.81	0.95
1:CA:1321:C:C5'	1:CA:1322:C:H5''	1.95	0.95
35:BA:1024:G:H3'	35:BA:1025:G:H5''	1.48	0.95
45:BO:103:ALA:HA	45:BO:122:LEU:O	1.66	0.95
35:DA:2562:U:H1'	45:DO:23:ARG:HH12	1.26	0.95
56:DZ:6:LYS:H	56:DZ:6:LYS:HD3	1.31	0.95
35:DA:2599:G:OP2	38:DD:236:GLY:HA2	1.65	0.95
1:CA:737:A:H2'	1:CA:738:C:C6	2.02	0.95
12:AL:6:THR:O	12:AL:10:LEU:HD23	1.63	0.95
35:BA:342:G:H2'	35:BA:343:C:H5''	1.45	0.95
38:BD:226:MET:HE2	38:BD:230:ASP:HB3	1.47	0.95
41:DG:46:ALA:HB1	41:DG:88:ILE:HD13	1.49	0.95
44:BN:46:VAL:HG13	44:BN:47:ALA:H	1.27	0.95
52:BV:34:GLU:H	52:BV:62:LEU:HB2	1.32	0.95
35:DA:106:C:H1'	55:DY:2:ARG:NH2	1.81	0.95
34:D8:46:ARG:HH11	34:D8:46:ARG:CB	1.78	0.95
42:BH:19:VAL:HB	42:BH:44:VAL:HG13	1.47	0.95
5:AE:43:LEU:HD21	5:AE:132:ALA:HB1	1.47	0.95
34:B8:46:ARG:NH1	34:B8:46:ARG:HB3	1.79	0.95
5:CE:39:GLY:HA2	5:CE:69:VAL:HB	1.47	0.95
25:CY:84:ARG:HH21	25:CY:92:PRO:HD2	1.32	0.95
36:BB:7:G:H3'	36:BB:8:U:H5''	1.47	0.95
35:DA:1586:A:C3'	35:DA:1587:A:H5''	1.96	0.95
46:DP:47:ASP:HB3	46:DP:48:PRO:C	1.86	0.95
1:AA:737:A:H2'	1:AA:738:C:C6	2.00	0.95
12:CL:6:THR:O	12:CL:10:LEU:HD23	1.67	0.95
1:CA:383:A:H2'	1:CA:384:G:H5'	1.49	0.95
43:DI:38:LEU:H	43:DI:38:LEU:HD12	1.27	0.95
1:AA:806:C:H2'	1:AA:807:A:H8	1.32	0.95
50:BT:29:ARG:HB3	50:BT:85:LYS:HA	1.47	0.95
35:BA:903:C:H2'	35:BA:904:C:C6	2.02	0.95
56:BZ:150:LEU:HD22	56:BZ:150:LEU:H	1.27	0.95
41:BG:111:LEU:HA	41:BG:114:ILE:HD11	1.46	0.95
43:BI:14:ASP:O	43:BI:17:GLN:HB2	1.67	0.95
1:CA:1349:A:H3'	9:CI:118:LYS:HE3	1.47	0.95

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BE:33:VAL:HG11	39:BE:89:ASP:H	1.32	0.94
35:DA:2498:C:O2'	35:DA:2499:C:H5'	1.66	0.94
52:BV:78:LYS:HD3	52:BV:79:VAL:N	1.82	0.94
11:CK:22:HIS:O	11:CK:28:THR:HG23	1.67	0.94
1:AA:522:C:H41	12:AL:53:ARG:HH21	1.07	0.94
8:AH:23:SER:HA	8:AH:63:LEU:HD23	1.48	0.94
2:AB:84:GLU:HB3	2:AB:219:VAL:HG21	1.46	0.94
25:CY:125:GLY:O	25:CY:129:ILE:HG13	1.66	0.94
35:DA:742:G:H2'	35:DA:743:G:H8	1.29	0.94
35:BA:2600:A:O2'	35:BA:2601:C:H5'	1.67	0.94
35:DA:2475:C:H42	35:DA:2529:G:H22	1.14	0.94
36:DB:45:A:H8	41:DG:95:ARG:HE	1.12	0.94
46:DP:85:LEU:HD23	46:DP:85:LEU:H	1.29	0.94
41:DG:43:LEU:HD22	41:DG:44:GLY:H	1.32	0.94
10:AJ:4:ILE:HB	10:AJ:74:ILE:HD11	1.46	0.94
35:BA:2740:A:H2'	35:BA:2741:A:C8	2.03	0.94
1:CA:1524:C:H2'	1:CA:1525:G:C8	2.03	0.94
18:AR:58:LEU:H	18:AR:58:LEU:HD12	1.28	0.94
50:BT:47:GLY:HA2	50:BT:65:LYS:HB2	1.48	0.94
55:DY:88:LYS:NZ	55:DY:93:GLY:H	1.66	0.94
35:BA:2599:G:OP2	38:BD:236:GLY:HA2	1.67	0.94
35:BA:2282:G:H1	35:BA:2427:C:H42	1.15	0.94
56:BZ:115:GLY:HA3	56:BZ:175:VAL:O	1.68	0.94
1:CA:559:A:H4'	1:CA:560:U:H5''	1.49	0.94
9:AI:28:VAL:HG13	9:AI:64:THR:HA	1.50	0.94
1:CA:1060:C:H5'	14:CN:45:ARG:HH22	1.32	0.94
46:BP:39:LYS:CD	46:BP:40:SER:H	1.81	0.94
2:CB:187:LEU:HD13	2:CB:187:LEU:O	1.67	0.94
35:BA:742:G:H2'	35:BA:743:G:H8	1.33	0.94
1:AA:528:C:H41	12:AL:49:ASN:ND2	1.66	0.94
35:BA:2092:U:H4'	35:BA:2093:G:H5''	1.47	0.94
45:DO:63:VAL:HG22	45:DO:84:ALA:HA	1.45	0.94
38:BD:44:ASN:HB3	38:BD:49:ILE:HA	1.47	0.94
41:DG:110:ALA:HA	41:DG:140:ILE:HD13	1.48	0.94
47:BQ:140:ALA:O	56:BZ:72:ARG:HA	1.66	0.94
46:DP:47:ASP:HB2	46:DP:51:PHE:HB2	1.48	0.94
55:DY:37:VAL:HG23	55:DY:38:ILE:H	1.32	0.94
35:BA:2538:C:O2'	35:BA:2539:C:H5'	1.68	0.94
8:CH:23:SER:HA	8:CH:63:LEU:HD23	1.47	0.94
1:AA:1194:U:H2'	1:AA:1195:C:C6	2.02	0.94
50:DT:40:THR:O	50:DT:41:ARG:HB2	1.64	0.94
35:BA:903:C:H2'	35:BA:904:C:H6	1.32	0.94

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1494:A:C2'	35:BA:1495:A:H5''	1.96	0.94
40:DF:53:THR:HG23	40:DF:56:GLU:HB2	1.46	0.94
13:AM:91:ARG:HH11	19:AS:81:ARG:HH22	1.05	0.94
31:D5:44:THR:HG21	48:DR:101:ALA:HB2	1.46	0.94
1:CA:806:C:H2'	1:CA:807:A:H8	1.32	0.94
35:DA:2125:G:H21	35:DA:2173:A:H62	1.04	0.94
35:BA:2475:C:H42	35:BA:2529:G:H22	1.13	0.94
54:BX:65:ARG:HE	54:BX:65:ARG:HA	1.33	0.94
44:DN:22:THR:HA	44:DN:61:ARG:HB2	1.46	0.94
1:CA:878:G:C5'	8:CH:89:PRO:HG2	1.97	0.94
1:AA:1194:U:H2'	1:AA:1195:C:H6	1.32	0.94
35:BA:2284:C:C2'	35:BA:2285:C:H5''	1.96	0.94
27:B1:37:ILE:H	27:B1:37:ILE:HD12	1.32	0.93
1:AA:1321:C:C5'	1:AA:1322:C:H5''	1.97	0.93
22:AV:30:A:H2'	22:AV:31:U:C6	2.02	0.93
56:DZ:76:LEU:HA	56:DZ:84:GLU:HB2	1.50	0.93
53:BW:29:LEU:CD2	53:BW:33:ARG:HE	1.81	0.93
12:CL:37:CYS:HA	12:CL:58:VAL:HG22	1.50	0.93
5:AE:147:ASP:HA	5:AE:150:ARG:HH11	1.32	0.93
50:DT:106:SER:HA	50:DT:110:ILE:HD13	1.50	0.93
38:DD:18:VAL:HG23	38:DD:211:ARG:HH21	1.33	0.93
39:BE:78:LEU:H	39:BE:78:LEU:HD23	1.31	0.93
43:DI:14:ASP:O	43:DI:17:GLN:HB2	1.66	0.93
31:B5:44:THR:HG21	48:BR:101:ALA:HB2	1.50	0.93
1:CA:1194:U:H2'	1:CA:1195:C:H6	1.33	0.93
12:AL:55:VAL:HG12	12:AL:56:ALA:H	1.31	0.93
35:DA:2693:A:H2'	35:DA:2694:G:H8	1.31	0.93
50:DT:28:VAL:HG21	50:DT:47:GLY:N	1.81	0.93
1:CA:1397:C:N4	24:CX:22:U:H3'	1.82	0.93
35:DA:1879:C:C2'	35:DA:1880:C:H5''	1.97	0.93
27:B1:68:PRO:HG2	27:B1:69:LYS:H	1.29	0.93
48:DR:45:ARG:HG3	48:DR:46:GLY:H	1.31	0.93
1:CA:908:A:H2'	1:CA:909:A:C8	2.04	0.93
55:BY:37:VAL:HG23	55:BY:38:ILE:H	1.33	0.93
41:BG:63:ILE:HD12	41:BG:64:THR:N	1.83	0.93
27:D1:68:PRO:O	27:D1:70:VAL:N	2.00	0.93
25:CY:147:LEU:HD22	25:CY:149:LEU:HG	1.48	0.93
35:DA:1657:C:H2'	35:DA:1658:C:C6	2.04	0.93
42:BH:13:LYS:HA	42:BH:13:LYS:HE2	1.50	0.93
4:AD:145:GLU:HG2	4:AD:184:LYS:HG3	1.48	0.93
1:CA:1080:A:H5'	5:CE:14:ARG:HH21	1.30	0.93
35:DA:1902:C:H1'	38:DD:244:ARG:HD3	1.50	0.93

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:D8:35:GLN:HA	35:DA:2420:C:OP2	1.68	0.93
25:CY:9:GLU:O	25:CY:12:SER:HB3	1.69	0.93
31:D5:31:VAL:HB	31:D5:32:PRO:HD2	1.50	0.93
56:BZ:114:GLY:HA3	56:BZ:177:PRO:HB3	1.51	0.93
27:B1:47:GLN:HB2	35:BA:397:G:H5"	1.51	0.93
35:DA:1039:G:H1	35:DA:1116:C:H42	1.15	0.93
2:AB:172:ILE:HD12	2:AB:172:ILE:H	1.30	0.93
19:CS:36:ARG:HH22	19:CS:75:ALA:HB3	1.32	0.93
43:DI:79:ILE:HG12	43:DI:140:LEU:HD11	1.50	0.93
35:BA:2051:A:O3'	39:BE:141:ILE:HD11	1.69	0.93
43:BI:91:SER:HB3	43:BI:121:LYS:HE3	1.52	0.92
41:DG:39:ILE:HG13	41:DG:157:ILE:HG22	1.51	0.92
39:DE:78:LEU:HD23	39:DE:78:LEU:H	1.33	0.92
4:AD:30:LYS:C	4:AD:32:ALA:H	1.68	0.92
7:CG:79:ARG:HE	7:CG:84:ASN:HD21	1.17	0.92
1:AA:625:G:H2'	1:AA:626:U:H6	1.34	0.92
44:DN:65:LYS:HE2	44:DN:65:LYS:HA	1.49	0.92
50:BT:106:SER:HA	50:BT:110:ILE:HD13	1.49	0.92
4:AD:61:LYS:HA	4:AD:203:VAL:HG22	1.47	0.92
41:DG:111:LEU:HB2	41:DG:112:PRO:CD	1.99	0.92
52:DV:38:LEU:HD23	52:DV:39:LEU:N	1.84	0.92
35:DA:2284:C:C2'	35:DA:2285:C:H5"	2.00	0.92
35:BA:2693:A:H2'	35:BA:2694:G:C8	2.05	0.92
46:DP:30:THR:HG22	46:DP:31:ALA:H	1.29	0.92
55:BY:28:LYS:HZ1	55:BY:37:VAL:HA	1.34	0.92
35:DA:1657:C:H2'	35:DA:1658:C:H6	1.33	0.92
31:B5:44:THR:HG22	31:B5:45:VAL:H	1.30	0.92
35:DA:2175:C:H2'	35:DA:2176:A:H5"	1.52	0.92
44:BN:9:VAL:HG11	44:BN:39:ARG:HH22	1.30	0.92
55:DY:87:LYS:HG3	55:DY:89:PHE:H	1.31	0.92
54:DX:60:ARG:HG2	54:DX:74:PRO:HD2	1.49	0.92
27:D1:13:ILE:HG13	27:D1:14:VAL:N	1.83	0.92
47:BQ:12:GLN:HG2	47:BQ:73:PRO:HD2	1.51	0.92
25:AY:63:PRO:HB2	25:AY:64:ARG:NH1	1.82	0.92
35:DA:287:C:N4	35:DA:354:G:H1	1.66	0.92
1:AA:559:A:H4'	1:AA:560:U:H5"	1.50	0.92
39:BE:51:PHE:H	39:BE:74:PRO:CG	1.82	0.92
27:D1:13:ILE:HG13	27:D1:14:VAL:H	1.35	0.92
46:BP:47:ASP:HB2	46:BP:51:PHE:HB2	1.50	0.92
2:CB:71:VAL:HG22	2:CB:93:VAL:N	1.83	0.92
35:DA:1747(A):G:C2'	35:DA:1748:G:H5"	2.00	0.92
7:AG:79:ARG:HE	7:AG:84:ASN:HD21	1.18	0.92

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
12:CL:69:TYR:O	12:CL:71:PRO:HD3	1.69	0.92
53:BW:29:LEU:HD21	53:BW:33:ARG:NE	1.83	0.92
35:BA:2314:C:H5'	41:BG:38:VAL:HG11	1.52	0.92
1:AA:452:A:HO2'	1:AA:453:A:H8	0.95	0.92
31:D5:44:THR:HG22	31:D5:45:VAL:H	1.32	0.92
35:BA:271(D):G:H1	35:BA:271(T):C:H42	0.94	0.92
1:AA:1349:A:H3'	9:AI:118:LYS:HE3	1.50	0.92
18:CR:58:LEU:HD12	18:CR:58:LEU:H	1.33	0.92
5:CE:98:THR:HB	5:CE:117:ASP:HB3	1.52	0.92
34:B8:30:ARG:HH21	46:BP:62:LEU:HB2	1.35	0.92
27:B1:64:ALA:O	27:B1:67:ILE:HG13	1.70	0.92
35:DA:1024:G:H3'	35:DA:1025:G:H5''	1.48	0.92
25:CY:126:ARG:HA	25:CY:129:ILE:HD12	1.52	0.92
29:B3:56:VAL:HG12	29:B3:57:GLU:H	1.35	0.92
41:BG:46:ALA:HB1	41:BG:88:ILE:HD13	1.50	0.92
35:BA:364:C:H2'	35:BA:365:C:H5''	1.52	0.92
1:CA:522:C:H41	12:CL:53:ARG:HH21	1.08	0.92
35:BA:287:C:N4	35:BA:354:G:H1	1.68	0.92
31:B5:31:VAL:HB	31:B5:32:PRO:HD2	1.51	0.92
54:DX:25:LYS:NZ	54:DX:87:GLN:H	1.67	0.92
56:BZ:56:VAL:HG22	56:BZ:70:LEU:HG	1.52	0.92
53:BW:78:GLU:OE2	53:BW:99:ARG:HD2	1.69	0.92
48:BR:38:VAL:HB	48:BR:39:PRO:HD3	1.48	0.92
35:DA:2334:G:H5'	49:DS:13:ARG:HG2	1.50	0.92
35:DA:2538:C:O2'	35:DA:2539:C:H5'	1.70	0.92
35:DA:2758:A:C2'	35:DA:2759:G:H5''	1.99	0.92
51:BU:66:ASN:ND2	51:BU:70:ARG:HH21	1.66	0.92
56:DZ:166:SER:HB2	56:DZ:167:PRO:CA	1.99	0.92
56:BZ:149:SER:HB3	56:BZ:173:ALA:HA	1.50	0.92
2:CB:172:ILE:H	2:CB:172:ILE:HD12	1.32	0.92
4:AD:18:LYS:HZ3	4:AD:33:MET:HB3	1.34	0.92
56:DZ:110:GLY:O	56:DZ:112:ARG:N	2.02	0.92
50:DT:47:GLY:HA2	50:DT:65:LYS:HB2	1.51	0.91
35:BA:1791:A:H5'	38:BD:206:LEU:HD13	1.51	0.91
41:DG:91:ARG:HD2	41:DG:92:VAL:N	1.85	0.91
51:BU:106:PHE:HA	51:BU:109:LEU:HD12	1.52	0.91
35:DA:1348:G:C2'	35:DA:1349:A:H5''	2.00	0.91
51:DU:92:ARG:HG2	51:DU:95:LEU:H	1.35	0.91
55:BY:88:LYS:NZ	55:BY:93:GLY:H	1.68	0.91
27:D1:25:LYS:HG3	27:D1:37:ILE:HG21	1.51	0.91
1:AA:1347:G:N2	1:AA:1373:G:H2'	1.86	0.91
46:BP:85:LEU:HD23	46:BP:85:LEU:H	1.32	0.91

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
47:DQ:108:GLY:HA3	56:DZ:116:VAL:HG21	1.49	0.91
35:BA:2753:A:O2'	35:BA:2754:U:H5'	1.69	0.91
43:BI:92:VAL:HG11	43:BI:120:ILE:HD12	1.51	0.91
53:DW:29:LEU:CD2	53:DW:33:ARG:HE	1.83	0.91
38:BD:35:LYS:HG2	38:BD:64:ILE:N	1.84	0.91
28:D2:26:ARG:HH22	54:DX:6:ASP:HA	1.35	0.91
26:B0:70:GLN:HG2	26:B0:71:ASP:N	1.85	0.91
2:CB:236:TYR:HA	2:CB:239:VAL:CG2	2.01	0.91
4:AD:108:LEU:HB3	4:AD:110:PHE:HE1	1.33	0.91
11:CK:29:ILE:HG22	11:CK:44:SER:HB3	1.51	0.91
35:DA:1177:A:OP1	35:DA:1177:A:H3'	1.70	0.91
53:DW:29:LEU:HD21	53:DW:33:ARG:NE	1.85	0.91
27:B1:51:VAL:O	27:B1:60:PHE:HB2	1.71	0.91
44:BN:65:LYS:O	44:BN:69:GLN:HB2	1.71	0.91
26:D0:32:ARG:H	26:D0:35:ASN:ND2	1.67	0.91
9:CI:28:VAL:HG13	9:CI:64:THR:HA	1.48	0.91
35:DA:364:C:H2'	35:DA:365:C:H5''	1.51	0.91
35:BA:1039:G:H1	35:BA:1116:C:H42	1.15	0.91
1:AA:1169:A:H2'	1:AA:1170:A:C8	2.04	0.91
41:DG:11:TYR:O	41:DG:16:ARG:HB2	1.69	0.91
1:CA:1403:C:H1'	1:CA:1500:A:N1	1.85	0.91
1:CA:1194:U:H2'	1:CA:1195:C:C6	2.05	0.91
1:CA:1169:A:H2'	1:CA:1170:A:C8	2.04	0.91
44:DN:65:LYS:O	44:DN:69:GLN:HB2	1.71	0.91
35:BA:2820:A:H4'	48:BR:5:LYS:HE2	1.50	0.91
1:CA:954:G:H4'	13:CM:120:LYS:HG3	1.53	0.91
46:BP:85:LEU:HA	46:BP:88:LEU:HB3	1.53	0.91
33:D7:24:THR:HG23	33:D7:27:GLY:HA3	1.50	0.91
54:DX:65:ARG:HA	54:DX:65:ARG:HE	1.35	0.91
45:DO:103:ALA:HA	45:DO:122:LEU:O	1.69	0.91
38:DD:44:ASN:HB3	38:DD:49:ILE:HA	1.52	0.91
38:DD:161:THR:HG1	38:DD:196:VAL:HG21	1.31	0.91
52:BV:62:LEU:HD22	52:BV:96:ILE:HD13	1.53	0.91
47:BQ:39:PRO:CB	47:BQ:99:PRO:HD3	2.01	0.91
2:AB:71:VAL:HG22	2:AB:93:VAL:N	1.84	0.91
40:DF:158:THR:HG21	40:DF:163:VAL:HB	1.53	0.91
55:BY:28:LYS:NZ	55:BY:30:VAL:HA	1.86	0.91
1:CA:1347:G:N2	1:CA:1373:G:H2'	1.86	0.91
35:BA:2297:C:H2'	35:BA:2298:A:H5'	1.53	0.91
47:BQ:141:GLN:HB3	56:BZ:70:LEU:HD13	1.53	0.91
40:BF:114:VAL:HG23	40:BF:115:ALA:H	1.36	0.91
35:BA:27:G:H22	35:BA:512:G:H2'	1.34	0.91

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:CB:47:THR:HG23	2:CB:202:PRO:HG2	1.52	0.91
16:AP:4:ILE:HB	16:AP:66:PRO:HB3	1.51	0.91
42:BH:43:VAL:HG21	42:BH:52:VAL:HG22	1.52	0.91
35:DA:272(D):G:H1	35:DA:364:C:H42	1.19	0.91
35:DA:549:G:H2'	35:DA:551:G:H5''	1.50	0.91
12:AL:69:TYR:O	12:AL:71:PRO:HD3	1.70	0.91
35:DA:144:C:H2'	35:DA:145:G:H8	1.35	0.91
11:CK:22:HIS:HB3	11:CK:29:ILE:HG13	1.52	0.91
1:AA:954:G:H4'	13:AM:120:LYS:HG3	1.51	0.91
19:AS:53:ASN:HD21	19:AS:56:GLN:H	1.18	0.91
46:DP:115:LEU:HA	46:DP:134:ALA:HB1	1.53	0.91
35:BA:1986:A:H3'	35:BA:1987:G:H5''	1.53	0.91
50:BT:38:ASN:HD22	50:BT:40:THR:H	1.13	0.91
35:DA:2051:A:O3'	39:DE:141:ILE:HD11	1.71	0.91
40:BF:103:LYS:HG2	40:BF:106:ARG:HH21	1.35	0.91
35:BA:26:G:H1'	35:BA:515:A:H61	1.35	0.91
8:AH:12:ARG:NH1	8:AH:27:PRO:HD3	1.85	0.91
5:CE:147:ASP:HA	5:CE:150:ARG:HH11	1.36	0.91
35:BA:1177:A:OP2	35:BA:1177:A:H3'	1.70	0.91
2:AB:71:VAL:HG13	2:AB:93:VAL:O	1.71	0.90
46:DP:39:LYS:CD	46:DP:40:SER:H	1.85	0.90
18:CR:56:THR:HB	18:CR:58:LEU:HD13	1.53	0.90
35:DA:740:U:H2'	35:DA:741:G:C8	2.05	0.90
38:DD:36:PRO:HG3	38:DD:61:LEU:HD21	1.52	0.90
35:BA:93:G:H2'	35:BA:94:C:C6	2.07	0.90
54:BX:55:ASN:C	54:BX:77:LYS:HG3	1.92	0.90
4:CD:108:LEU:HB3	4:CD:110:PHE:HE1	1.34	0.90
4:CD:18:LYS:HZ3	4:CD:33:MET:HB3	1.34	0.90
5:CE:43:LEU:HD21	5:CE:132:ALA:HB1	1.50	0.90
41:DG:114:ILE:CG2	41:DG:117:PHE:HB2	2.02	0.90
38:BD:14:ARG:HB2	38:BD:14:ARG:HH11	1.36	0.90
52:BV:38:LEU:HD23	52:BV:39:LEU:N	1.87	0.90
34:B8:22:VAL:HB	34:B8:53:PRO:HB2	1.53	0.90
55:BY:87:LYS:HG3	55:BY:89:PHE:H	1.32	0.90
20:AT:73:HIS:HB3	20:AT:74:LYS:HD3	1.51	0.90
8:CH:33:GLU:HA	8:CH:36:LEU:HD12	1.52	0.90
1:AA:1116:C:H2'	1:AA:1117:G:H5''	1.52	0.90
38:BD:76:PRO:HG2	38:BD:98:VAL:HG21	1.52	0.90
42:DH:13:LYS:HA	42:DH:13:LYS:HE2	1.51	0.90
50:DT:23:ARG:O	50:DT:25:GLY:N	2.04	0.90
38:DD:35:LYS:HG2	38:DD:64:ILE:N	1.86	0.90
52:BV:32:THR:HG22	52:BV:33:VAL:H	1.37	0.90

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:903:C:H2'	35:DA:904:C:C6	2.05	0.90
44:BN:74:ARG:NH2	44:BN:101:HIS:HB3	1.87	0.90
44:BN:120:LEU:HD11	44:BN:122:VAL:HG23	1.54	0.90
34:D8:22:VAL:HB	34:D8:53:PRO:HB2	1.52	0.90
1:AA:908:A:H2'	1:AA:909:A:C8	2.06	0.90
35:BA:549:G:H2'	35:BA:551:G:H5''	1.50	0.90
41:DG:7:LEU:HA	41:DG:10:LYS:HB2	1.51	0.90
52:BV:18:LEU:HD22	52:BV:19:LYS:N	1.86	0.90
35:BA:2426:A:H3'	35:BA:2427:C:C5'	2.02	0.90
31:D5:20:ARG:HH12	53:DW:15:ARG:NH2	1.68	0.90
51:DU:17:ILE:HA	51:DU:20:LEU:HD23	1.51	0.90
55:DY:45:VAL:HG22	55:DY:62:GLU:HB2	1.54	0.90
45:DO:61:VAL:O	45:DO:84:ALA:HB1	1.70	0.90
35:BA:2758:A:C2'	35:BA:2759:G:H5''	2.01	0.90
51:DU:64:ARG:CB	51:DU:64:ARG:HH21	1.83	0.90
3:AC:15:THR:HG22	3:AC:16:ARG:NH1	1.86	0.90
55:BY:31:LEU:HB3	55:BY:32:PRO:CA	2.02	0.90
56:BZ:110:GLY:C	56:BZ:112:ARG:H	1.69	0.90
15:CO:9:GLN:HB3	15:CO:13:GLN:HE21	1.35	0.90
47:DQ:34:LEU:HD11	47:DQ:129:THR:HB	1.53	0.90
43:DI:144:VAL:HG12	43:DI:145:VAL:HG23	1.54	0.90
1:AA:1469:G:H2'	1:AA:1470:G:C8	2.05	0.90
49:DS:25:ARG:HH21	49:DS:89:ARG:HH12	1.17	0.90
2:CB:71:VAL:HG13	2:CB:93:VAL:O	1.72	0.90
13:AM:118:ALA:HB1	13:AM:119:GLY:N	1.86	0.90
1:AA:383:A:H2'	1:AA:384:G:H5'	1.52	0.90
1:AA:266:G:H5''	1:AA:268:C:H41	1.36	0.90
41:DG:114:ILE:HG22	41:DG:115:ARG:H	1.35	0.90
50:BT:28:VAL:HG21	50:BT:47:GLY:N	1.86	0.90
54:BX:73:ARG:H	54:BX:74:PRO:CD	1.85	0.90
2:AB:236:TYR:HA	2:AB:239:VAL:CG2	2.02	0.90
47:DQ:133:ARG:O	47:DQ:134:ARG:HB2	1.68	0.90
52:DV:62:LEU:HD22	52:DV:96:ILE:HD13	1.53	0.90
27:D1:75:GLU:HB2	27:D1:76:ARG:NH2	1.87	0.90
2:AB:187:LEU:HD13	2:AB:187:LEU:O	1.72	0.90
35:BA:1747(A):G:C2'	35:BA:1748:G:H5''	2.02	0.90
34:D8:53:PRO:HA	34:D8:56:GLU:OE1	1.71	0.90
8:CH:129:VAL:HG23	8:CH:130:GLY:H	1.37	0.90
46:BP:101:VAL:HG23	46:BP:107:LYS:HA	1.54	0.90
1:AA:489:C:H2'	1:AA:490:G:H8	1.36	0.90
8:CH:82:HIS:HD2	8:CH:138:TRP:HE1	1.18	0.90
35:DA:2092:U:H4'	35:DA:2093:G:H5''	1.51	0.90

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
56:DZ:27:VAL:HA	56:DZ:36:LYS:HA	1.53	0.90
51:DU:66:ASN:ND2	51:DU:70:ARG:HH21	1.69	0.90
19:AS:70:LYS:HB3	19:AS:70:LYS:HZ3	1.36	0.90
55:DY:28:LYS:NZ	55:DY:30:VAL:HA	1.86	0.90
55:DY:31:LEU:HB3	55:DY:32:PRO:HA	1.50	0.90
4:AD:11:LEU:C	4:AD:13:ARG:H	1.74	0.90
35:DA:2426:A:H3'	35:DA:2427:C:C5'	2.01	0.90
1:CA:452:A:HO2'	1:CA:453:A:H8	0.95	0.90
35:DA:2310:A:O2'	35:DA:2311:A:H5'	1.72	0.90
50:BT:120:ARG:O	50:BT:124:ASP:HB2	1.71	0.90
40:BF:63:LYS:NZ	40:BF:67:GLN:HB3	1.87	0.90
11:AK:22:HIS:HB3	11:AK:29:ILE:HG13	1.52	0.90
1:AA:955:U:H1'	1:AA:1227:A:H61	1.34	0.90
46:BP:115:LEU:HA	46:BP:134:ALA:HB1	1.51	0.90
7:CG:69:VAL:HA	7:CG:138:LYS:HD2	1.55	0.90
46:DP:75:ILE:HD12	46:DP:75:ILE:H	1.36	0.90
8:CH:30:ARG:HH11	8:CH:30:ARG:HB3	1.35	0.90
1:CA:979:C:H3'	1:CA:980:C:C5'	2.01	0.89
16:CP:20:VAL:CG2	16:CP:32:TYR:HB2	2.02	0.89
35:BA:2850:A:H2'	35:BA:2851:A:H8	1.35	0.89
49:DS:89:ARG:HA	49:DS:89:ARG:HE	1.37	0.89
47:DQ:12:GLN:HG2	47:DQ:73:PRO:HD2	1.52	0.89
35:BA:287:C:H42	35:BA:354:G:H1	0.90	0.89
9:CI:50:LEU:HD21	9:CI:81:ILE:HG21	1.54	0.89
7:CG:60:LYS:HA	7:CG:63:LYS:HB3	1.54	0.89
23:AW:10:G:N2	23:AW:27:G:H1'	1.86	0.89
50:BT:13:ARG:HA	50:BT:13:ARG:NE	1.87	0.89
40:BF:129:PHE:HA	40:BF:142:TRP:HE1	1.36	0.89
35:BA:1403:C:H5''	35:BA:1471:A:H1'	1.53	0.89
8:AH:30:ARG:HB3	8:AH:30:ARG:HH11	1.34	0.89
35:DA:491:G:H2'	35:DA:492:A:H8	1.34	0.89
38:DD:35:LYS:HB3	38:DD:63:ARG:HA	1.54	0.89
51:DU:66:ASN:HD21	51:DU:70:ARG:HH21	0.90	0.89
42:DH:66:GLY:HA2	42:DH:69:ARG:HB2	1.54	0.89
18:AR:56:THR:HB	18:AR:58:LEU:HD13	1.52	0.89
54:BX:25:LYS:NZ	54:BX:87:GLN:H	1.69	0.89
15:AO:9:GLN:HB3	15:AO:13:GLN:HE21	1.36	0.89
38:DD:131:LEU:HA	38:DD:190:TYR:CE2	2.07	0.89
50:DT:80:SER:HB3	50:DT:81:PRO:HD2	1.52	0.89
38:BD:35:LYS:HB3	38:BD:63:ARG:HA	1.55	0.89
39:DE:116:VAL:HG21	39:DE:122:PHE:CD2	2.08	0.89
35:BA:1348:G:C2'	35:BA:1349:A:H5''	2.01	0.89

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1019:U:H3	35:DA:1142(A):A:H62	1.17	0.89
44:DN:120:LEU:HD11	44:DN:122:VAL:HG23	1.52	0.89
33:B7:24:THR:HG23	33:B7:27:GLY:HA3	1.53	0.89
5:AE:33:VAL:HG22	5:AE:43:LEU:HD13	1.55	0.89
9:AI:50:LEU:HD21	9:AI:81:ILE:HG21	1.53	0.89
46:DP:112:LEU:HD11	46:DP:114:ILE:HG23	1.54	0.89
56:BZ:17:ALA:HA	56:BZ:20:ARG:HB3	1.51	0.89
35:BA:2591:C:H2'	35:BA:2592:G:C8	2.07	0.89
35:DA:2693:A:H2'	35:DA:2694:G:C8	2.07	0.89
1:AA:979:C:H3'	1:AA:980:C:C5'	2.01	0.89
42:BH:123:PHE:HA	42:BH:133:VAL:HG22	1.53	0.89
49:BS:25:ARG:HH21	49:BS:89:ARG:HH12	1.20	0.89
27:D1:9:GLY:H	27:D1:48:LYS:HZ3	1.17	0.89
35:BA:2712:U:O2'	35:BA:2712(A):A:H5''	1.72	0.89
1:CA:955:U:H1'	1:CA:1227:A:H61	1.35	0.89
8:AH:97:VAL:HG13	8:AH:98:LYS:H	1.37	0.89
53:DW:78:GLU:OE2	53:DW:99:ARG:HD2	1.73	0.89
40:BF:158:THR:HG21	40:BF:163:VAL:HB	1.52	0.89
27:B1:58:ILE:HD13	27:B1:59:THR:N	1.86	0.89
19:CS:53:ASN:HD21	19:CS:56:GLN:H	1.20	0.89
50:DT:120:ARG:O	50:DT:124:ASP:HB2	1.73	0.89
43:BI:79:ILE:HG12	43:BI:140:LEU:HD11	1.54	0.89
43:BI:144:VAL:HG12	43:BI:145:VAL:HG23	1.53	0.89
27:B1:48:LYS:HG3	27:B1:49:VAL:H	1.37	0.89
56:DZ:97:GLU:HB3	56:DZ:125:LEU:HD21	1.54	0.89
2:CB:96:ARG:N	2:CB:96:ARG:HD2	1.88	0.89
35:DA:689:A:H2'	35:DA:690:G:C8	2.08	0.89
35:DA:2740:A:H2'	35:DA:2741:A:C8	2.07	0.89
27:D1:21:ARG:C	27:D1:21:ARG:HD3	1.93	0.89
1:AA:678:U:H2'	1:AA:679:C:C6	2.07	0.89
54:BX:60:ARG:HG3	54:BX:72:LYS:H	1.35	0.89
55:DY:88:LYS:HZ3	55:DY:93:GLY:H	0.92	0.89
49:BS:89:ARG:HA	49:BS:89:ARG:HE	1.36	0.89
35:DA:271(D):G:H1	35:DA:271(T):C:H42	0.96	0.89
40:BF:53:THR:H	40:BF:56:GLU:HB2	1.34	0.89
1:AA:707:C:H4'	11:AK:20:TYR:CD1	2.06	0.89
9:CI:19:LEU:HD23	9:CI:61:ALA:HA	1.55	0.89
35:DA:2276:G:H5'	47:DQ:84:GLY:HA2	1.54	0.89
46:BP:77:ARG:HB2	46:BP:78:PRO:HD2	1.54	0.89
35:DA:2712:U:O2'	35:DA:2712(A):A:H5''	1.72	0.89
56:BZ:103:ARG:HB2	56:BZ:138:GLU:HA	1.51	0.89
35:DA:903:C:H2'	35:DA:904:C:H6	1.36	0.89

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:DF:39:TRP:CD1	40:DF:101:LEU:HB2	2.08	0.89
8:AH:20:TYR:HA	8:AH:65:TYR:CE2	2.08	0.89
1:CA:528:C:H41	12:CL:49:ASN:ND2	1.71	0.89
38:BD:131:LEU:HD13	38:BD:136:ILE:HG12	1.54	0.89
56:BZ:58:VAL:HG22	56:BZ:68:PRO:HA	1.55	0.89
4:CD:11:LEU:C	4:CD:13:ARG:H	1.72	0.89
2:AB:165:VAL:HG23	2:AB:166:ASP:N	1.86	0.89
35:DA:26:G:H1'	35:DA:515:A:H61	1.38	0.89
8:CH:12:ARG:NH1	8:CH:27:PRO:HD3	1.87	0.89
1:CA:707:C:H4'	11:CK:20:TYR:CD1	2.08	0.89
38:BD:44:ASN:HB2	38:BD:48:ARG:O	1.73	0.89
27:B1:47:GLN:CG	35:BA:2230:G:H1'	1.96	0.89
47:BQ:34:LEU:HD11	47:BQ:129:THR:HB	1.53	0.89
2:AB:42:ILE:HD11	2:AB:202:PRO:HB2	1.55	0.89
35:DA:287:C:H42	35:DA:354:G:H1	0.89	0.89
35:BA:2175:C:H2'	35:BA:2176:A:H5''	1.53	0.89
1:CA:932:C:H5''	7:CG:3:ARG:HD2	1.53	0.89
55:DY:45:VAL:HG13	55:DY:62:GLU:OE2	1.71	0.88
41:DG:37:VAL:HG23	41:DG:99:MET:HG3	1.55	0.88
41:BG:72:ARG:HB3	41:BG:86:MET:H	1.37	0.88
52:BV:72:VAL:HG12	52:BV:73:SER:H	1.38	0.88
35:BA:2672:G:H2'	35:BA:2673:G:H5''	1.55	0.88
50:DT:65:LYS:HA	50:DT:65:LYS:NZ	1.87	0.88
42:DH:123:PHE:HA	42:DH:133:VAL:HG22	1.56	0.88
51:DU:106:PHE:HA	51:DU:109:LEU:HD12	1.52	0.88
4:AD:100:ARG:HH12	4:AD:137:SER:HA	1.38	0.88
5:AE:98:THR:HB	5:AE:117:ASP:HB3	1.53	0.88
35:DA:2297:C:H2'	35:DA:2298:A:H5'	1.52	0.88
50:BT:80:SER:HB3	50:BT:81:PRO:HD2	1.52	0.88
2:AB:96:ARG:N	2:AB:96:ARG:HD2	1.87	0.88
41:BG:153:ARG:HG3	41:BG:153:ARG:HH11	1.37	0.88
27:D1:86:SER:HA	27:D1:89:GLU:OE1	1.73	0.88
35:DA:1255:U:C5'	35:DA:1256:G:H5''	2.03	0.88
42:DH:43:VAL:HG21	42:DH:52:VAL:HG22	1.55	0.88
38:DD:44:ASN:HB2	38:DD:48:ARG:O	1.72	0.88
38:BD:18:VAL:HG23	38:BD:211:ARG:HH21	1.38	0.88
38:BD:94:LEU:HD12	38:BD:94:LEU:H	1.36	0.88
39:BE:51:PHE:N	39:BE:74:PRO:HG3	1.87	0.88
34:B8:52:LYS:N	34:B8:53:PRO:HD2	1.87	0.88
46:BP:23:PRO:HB2	46:BP:33:ARG:CD	2.03	0.88
52:DV:72:VAL:HG12	52:DV:73:SER:H	1.36	0.88
19:AS:16:LEU:O	19:AS:20:LEU:HG	1.73	0.88

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
43:BI:2:LYS:HB2	43:BI:39:ALA:HB2	1.56	0.88
8:AH:33:GLU:HA	8:AH:36:LEU:HD12	1.54	0.88
35:BA:1986:A:C3'	35:BA:1987:G:H5''	2.02	0.88
1:CA:625:G:H2'	1:CA:626:U:H6	1.38	0.88
31:B5:20:ARG:HH12	53:BW:15:ARG:NH2	1.71	0.88
39:DE:137:HIS:HB3	39:DE:138:PRO:HD2	1.54	0.88
41:DG:32:PRO:HB2	41:DG:172:LEU:HD13	1.54	0.88
41:BG:27:ASN:ND2	41:BG:29:TRP:HB2	1.89	0.88
19:CS:16:LEU:O	19:CS:20:LEU:HG	1.73	0.88
55:BY:45:VAL:HG22	55:BY:62:GLU:HB2	1.56	0.88
27:D1:67:ILE:N	27:D1:68:PRO:HD2	1.89	0.88
34:B8:53:PRO:HA	34:B8:56:GLU:OE1	1.74	0.88
35:DA:570:G:H2'	35:DA:2030:A:N7	1.89	0.88
8:CH:97:VAL:HG13	8:CH:98:LYS:H	1.39	0.88
38:BD:36:PRO:HG3	38:BD:61:LEU:HD21	1.54	0.88
46:DP:7:ARG:HB3	46:DP:8:PRO:HD3	1.54	0.88
42:BH:19:VAL:HG21	42:BH:44:VAL:HA	1.55	0.88
35:DA:521:G:H2'	35:DA:522:G:H8	1.38	0.88
14:AN:8:GLU:HB2	14:AN:12:ARG:HH11	1.37	0.88
35:BA:144:C:H2'	35:BA:145:G:H8	1.37	0.88
50:DT:13:ARG:HA	50:DT:13:ARG:NE	1.89	0.88
6:CF:45:LEU:HD12	6:CF:46:ARG:H	1.36	0.88
47:BQ:133:ARG:O	47:BQ:134:ARG:HB2	1.73	0.88
51:DU:92:ARG:HD3	51:DU:94:ASN:HD22	1.38	0.88
25:AY:70:SER:HB3	25:AY:76:LEU:HD12	1.55	0.88
12:CL:6:THR:HG22	12:CL:9:GLN:HG3	1.54	0.88
35:DA:2282:G:H1	35:DA:2427:C:H42	1.21	0.88
35:BA:1930:G:N2	35:BA:1968:G:H2'	1.88	0.88
35:DA:1403:C:H5''	35:DA:1471:A:H1'	1.54	0.88
35:DA:1230:C:H2'	35:DA:1231:G:H8	1.37	0.88
28:D2:60:LEU:HG	28:D2:61:LEU:H	1.38	0.88
56:DZ:48:PHE:HE2	56:DZ:71:VAL:HG21	1.36	0.88
40:DF:53:THR:H	40:DF:56:GLU:HB2	1.38	0.88
6:AF:68:PRO:HG3	6:AF:71:ARG:HH21	1.37	0.88
1:AA:591:U:H2'	1:AA:592:G:C8	2.09	0.88
35:DA:708:C:H42	35:DA:723:G:H1	1.21	0.88
3:AC:79:ARG:HH12	11:CK:99:GLN:HB3	1.38	0.88
23:AW:73:A:OP1	35:BA:1852:C:H5'	1.74	0.88
39:DE:51:PHE:H	39:DE:74:PRO:CG	1.85	0.88
35:DA:93:G:H2'	35:DA:94:C:C6	2.08	0.88
52:BV:71:LEU:HD13	52:BV:72:VAL:H	1.38	0.88
1:CA:673:G:H2'	1:CA:674:G:C8	2.08	0.88

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
26:D0:70:GLN:HG2	26:D0:71:ASP:N	1.85	0.88
25:AY:3:LEU:H	25:AY:3:LEU:HD12	1.39	0.88
3:AC:105:GLU:HG2	3:AC:106:VAL:H	1.38	0.88
50:BT:65:LYS:HA	50:BT:65:LYS:NZ	1.89	0.88
35:BA:570:G:H2'	35:BA:2030:A:N7	1.86	0.88
42:DH:19:VAL:HG21	42:DH:44:VAL:HA	1.53	0.88
1:CA:1458:G:H2'	1:CA:1459:C:C6	2.09	0.88
46:BP:127:ALA:HB3	46:BP:130:PHE:CE2	2.08	0.88
35:DA:484:C:H2'	35:DA:485:C:C6	2.08	0.87
39:DE:52:LEU:HB2	39:DE:76:ARG:HB2	1.55	0.87
43:BI:72:LEU:HD12	43:BI:138:ILE:CD1	2.04	0.87
4:AD:100:ARG:NH1	4:AD:137:SER:HA	1.89	0.87
25:CY:18:LEU:HG	25:CY:19:GLU:N	1.89	0.87
8:AH:6:ILE:HG21	8:AH:85:ARG:NH1	1.89	0.87
42:BH:66:GLY:HA2	42:BH:69:ARG:HB2	1.54	0.87
23:CW:1:C:H42	23:CW:74:A:H61	1.20	0.87
35:DA:1986:A:C3'	35:DA:1987:G:H5''	2.04	0.87
35:BA:2310:A:O2'	35:BA:2311:A:H5'	1.73	0.87
1:AA:878:G:C5'	8:AH:89:PRO:HG2	2.03	0.87
56:DZ:26:GLY:HA3	56:DZ:37:VAL:O	1.74	0.87
43:BI:102:SER:HB2	43:BI:109:ILE:HG12	1.57	0.87
35:DA:2672:G:H2'	35:DA:2673:G:H5''	1.54	0.87
16:AP:20:VAL:CG2	16:AP:32:TYR:HB2	2.05	0.87
56:DZ:149:SER:CB	56:DZ:173:ALA:HA	2.04	0.87
27:D1:9:GLY:H	27:D1:48:LYS:NZ	1.71	0.87
25:CY:15:GLN:HA	25:CY:18:LEU:HD23	1.57	0.87
43:DI:2:LYS:HB2	43:DI:39:ALA:HB2	1.55	0.87
46:DP:85:LEU:HA	46:DP:88:LEU:HB3	1.56	0.87
46:BP:112:LEU:HD11	46:BP:114:ILE:HG23	1.57	0.87
44:DN:89:LYS:O	44:DN:93:THR:HG22	1.74	0.87
9:CI:114:TYR:H	9:CI:114:TYR:HD2	1.20	0.87
35:DA:1577:C:H2'	35:DA:1578:U:C6	2.09	0.87
41:BG:178:PHE:HB3	41:BG:180:PHE:HE1	1.39	0.87
56:DZ:56:VAL:HA	56:DZ:70:LEU:CD2	1.99	0.87
35:BA:588:U:H2'	35:BA:589:C:C6	2.10	0.87
55:BY:75:ILE:HD13	55:BY:76:CYS:H	1.38	0.87
42:BH:70:THR:HG22	42:BH:74:ASN:ND2	1.90	0.87
1:CA:1169:A:H2'	1:CA:1170:A:H8	1.38	0.87
46:DP:101:VAL:HG23	46:DP:107:LYS:HA	1.54	0.87
40:BF:178:PRO:HG2	40:BF:179:GLU:H	1.39	0.87
35:DA:769:G:O2'	35:DA:770:G:H5'	1.75	0.87
41:DG:130:ASN:ND2	41:DG:161:THR:H	1.72	0.87

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BE:30:PRO:HD3	39:BE:180:ASN:HD21	1.39	0.87
55:DY:75:ILE:HD13	55:DY:76:CYS:H	1.38	0.87
54:DX:60:ARG:HG3	54:DX:72:LYS:H	1.38	0.87
38:DD:14:ARG:HB2	38:DD:14:ARG:HH11	1.37	0.87
43:DI:72:LEU:HD12	43:DI:138:ILE:CD1	2.04	0.87
1:CA:1412:C:H2'	1:CA:1413:A:C8	2.09	0.87
45:BO:101:PRO:O	45:BO:102:VAL:HG13	1.75	0.87
28:B2:50:ILE:HG23	28:B2:54:LYS:HD3	1.57	0.87
28:B2:53:LEU:HD12	35:BA:76:C:O3'	1.74	0.87
43:DI:91:SER:CB	43:DI:119:PRO:HB2	2.04	0.87
12:AL:6:THR:HG22	12:AL:9:GLN:HG3	1.55	0.87
35:BA:2831:G:H1'	35:BA:2883:A:H2'	1.57	0.87
40:DF:178:PRO:HG2	40:DF:179:GLU:H	1.37	0.87
41:DG:5:VAL:HG12	41:DG:6:ALA:N	1.89	0.87
16:CP:4:ILE:HB	16:CP:66:PRO:HB3	1.54	0.87
51:BU:92:ARG:HG2	51:BU:95:LEU:H	1.40	0.87
28:D2:14:ARG:HE	28:D2:14:ARG:C	1.78	0.87
43:DI:92:VAL:HG11	43:DI:120:ILE:HD12	1.57	0.87
16:AP:49:LEU:HD11	16:AP:51:VAL:HG23	1.56	0.87
38:DD:76:PRO:HG2	38:DD:98:VAL:HG21	1.54	0.87
35:BA:521:G:H2'	35:BA:522:G:H8	1.40	0.87
17:AQ:97:SER:O	17:AQ:98:LEU:HG	1.75	0.87
35:BA:1902:C:H1'	38:BD:244:ARG:HD3	1.55	0.87
35:DA:528:A:H2	35:DA:2043:C:H5'	1.38	0.87
4:CD:100:ARG:HH12	4:CD:137:SER:HA	1.38	0.87
35:BA:1019:U:H3	35:BA:1142(A):A:H62	1.22	0.87
1:AA:1437:C:H42	1:AA:1464:G:H1	1.19	0.87
35:DA:1255:U:H5'	35:DA:1256:G:H5''	1.55	0.87
35:DA:2733:A:N1	39:DE:203:LYS:HA	1.89	0.87
35:BA:2733:A:N1	39:BE:203:LYS:HA	1.89	0.87
40:DF:114:VAL:HG23	40:DF:115:ALA:H	1.39	0.87
35:DA:588:U:H2'	35:DA:589:C:C6	2.10	0.87
35:DA:27:G:N2	35:DA:512:G:H2'	1.90	0.87
16:AP:49:LEU:HD12	16:AP:50:LYS:N	1.90	0.87
1:AA:382:A:H2'	1:AA:383:A:C8	2.10	0.87
38:DD:53:PHE:O	38:DD:54:ARG:HG2	1.74	0.87
35:BA:491:G:H2'	35:BA:492:A:H8	1.38	0.87
35:DA:2206:G:N2	35:DA:2207:G:H5'	1.90	0.87
35:DA:1114:G:H2'	35:DA:1115:G:H5''	1.57	0.87
29:D3:56:VAL:HG12	29:D3:57:GLU:H	1.38	0.87
41:DG:95:ARG:HA	41:DG:95:ARG:HH11	1.40	0.86
27:B1:62:VAL:HG21	27:B1:67:ILE:HA	1.57	0.86

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:D8:30:ARG:HH21	46:DP:62:LEU:HB2	1.40	0.86
27:B1:25:LYS:HB2	27:B1:37:ILE:HD11	1.56	0.86
13:CM:118:ALA:HB1	13:CM:119:GLY:N	1.89	0.86
1:CA:939:G:H5''	7:CG:102:ARG:NH2	1.90	0.86
54:DX:25:LYS:HZ3	54:DX:87:GLN:N	1.73	0.86
16:CP:49:LEU:HD12	16:CP:50:LYS:N	1.90	0.86
41:DG:111:LEU:HA	41:DG:114:ILE:HD11	1.57	0.86
50:BT:30:VAL:HG12	50:BT:44:ASP:HA	1.57	0.86
41:BG:60:LEU:O	41:BG:63:ILE:HG13	1.75	0.86
52:BV:72:VAL:HA	52:BV:88:ARG:HH12	1.38	0.86
9:AI:19:LEU:O	9:AI:20:ARG:HG3	1.74	0.86
1:CA:1116:C:H2'	1:CA:1117:G:H5''	1.54	0.86
55:BY:8:LYS:HD2	55:BY:8:LYS:H	1.39	0.86
54:BX:72:LYS:HG3	54:BX:74:PRO:CD	2.02	0.86
27:B1:13:ILE:HG13	27:B1:14:VAL:H	1.40	0.86
54:DX:55:ASN:C	54:DX:77:LYS:HG3	1.95	0.86
4:CD:100:ARG:NH1	4:CD:137:SER:HA	1.89	0.86
46:BP:47:ASP:HB3	46:BP:48:PRO:C	1.93	0.86
8:AH:83:ILE:HD13	8:AH:137:VAL:HG22	1.55	0.86
8:AH:12:ARG:HH12	8:AH:27:PRO:HD3	1.40	0.86
12:CL:47:LYS:HB3	12:CL:48:PRO:HD3	1.57	0.86
1:CA:266:G:H5''	1:CA:268:C:H41	1.39	0.86
41:BG:53:LEU:H	41:BG:53:LEU:HD22	1.40	0.86
35:DA:2704:C:H2'	35:DA:2705:A:H8	1.40	0.86
38:DD:265:PRO:HG2	38:DD:266:SER:H	1.39	0.86
50:BT:50:ILE:HG23	50:BT:99:LEU:CD1	2.06	0.86
35:BA:2206:G:N2	35:BA:2207:G:H5'	1.91	0.86
3:CC:150:LYS:HB3	3:CC:201:TYR:HB2	1.57	0.86
27:D1:77:ALA:C	27:D1:78:LYS:HD2	1.94	0.86
6:CF:7:ASN:O	6:CF:8:ILE:HG13	1.75	0.86
12:AL:6:THR:CG2	12:AL:9:GLN:HG3	2.05	0.86
46:DP:127:ALA:HB3	46:DP:130:PHE:CE2	2.11	0.86
23:AW:19:G:H3'	23:AW:20:G:H5''	1.54	0.86
7:AG:60:LYS:HA	7:AG:63:LYS:HB3	1.57	0.86
43:BI:91:SER:CB	43:BI:119:PRO:HB2	2.04	0.86
44:BN:9:VAL:HG12	44:BN:10:GLU:H	1.41	0.86
51:BU:64:ARG:CB	51:BU:64:ARG:HH21	1.87	0.86
41:BG:4:ASP:HA	41:BG:8:LYS:HD2	1.57	0.86
38:DD:8:PRO:CB	38:DD:14:ARG:HD3	2.06	0.86
44:DN:74:ARG:NH2	44:DN:101:HIS:HB3	1.90	0.86
6:CF:68:PRO:HG3	6:CF:71:ARG:HH21	1.40	0.86
1:AA:736:C:H2'	1:AA:737:A:C8	2.10	0.86

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:CB:67:THR:HG21	2:CB:155:LEU:HG	1.57	0.86
1:CA:34:C:H2'	1:CA:35:G:H8	1.40	0.86
51:DU:3:ARG:HH11	51:DU:3:ARG:HG2	1.38	0.86
35:DA:678:C:H2'	35:DA:679:C:H6	1.39	0.86
1:CA:920:U:H1'	1:CA:1080:A:C2	2.11	0.86
28:B2:37:PHE:CE2	28:B2:40:SER:HA	2.11	0.86
3:CC:15:THR:HG22	3:CC:16:ARG:NH1	1.90	0.86
55:DY:31:LEU:HB3	55:DY:32:PRO:CA	2.04	0.86
8:AH:11:THR:HG23	8:AH:14:ARG:HH12	1.39	0.86
18:AR:53:ARG:HH22	18:AR:60:ALA:N	1.74	0.86
18:CR:53:ARG:HH22	18:CR:60:ALA:N	1.72	0.86
1:AA:1169:A:H2'	1:AA:1170:A:H8	1.38	0.86
46:DP:77:ARG:HB2	46:DP:78:PRO:HD2	1.55	0.86
35:DA:1986:A:H3'	35:DA:1987:G:H5''	1.56	0.86
12:CL:41:ARG:HH11	12:CL:41:ARG:HB3	1.40	0.86
2:AB:97:TRP:CH2	2:AB:173:ALA:HA	2.11	0.86
35:BA:708:C:H42	35:BA:723:G:H1	1.23	0.86
7:AG:69:VAL:HA	7:AG:138:LYS:HD2	1.56	0.86
38:BD:53:PHE:O	38:BD:54:ARG:HG2	1.76	0.86
38:DD:27:THR:HG23	38:DD:28:GLU:N	1.91	0.86
51:BU:92:ARG:HD3	51:BU:94:ASN:HD22	1.41	0.86
35:DA:1884:A:C2'	35:DA:1885:A:H5''	2.05	0.86
47:DQ:52:VAL:HG13	47:DQ:53:ALA:N	1.90	0.86
1:CA:434:U:H2'	1:CA:435:C:C6	2.10	0.86
27:B1:22:GLY:HA2	27:B1:39:LYS:HB3	1.58	0.86
47:BQ:75:THR:CA	47:BQ:88:GLY:HA3	2.06	0.86
2:CB:42:ILE:HD11	2:CB:202:PRO:HB2	1.58	0.86
34:D8:59:LYS:C	34:D8:61:LEU:H	1.76	0.86
1:AA:1325:C:H2'	1:AA:1325:C:O2	1.76	0.86
2:CB:97:TRP:CH2	2:CB:173:ALA:HA	2.09	0.86
13:AM:19:LEU:HA	13:AM:22:ILE:HD13	1.57	0.86
1:CA:392:G:H2'	1:CA:393:A:H8	1.40	0.86
1:CA:489:C:H2'	1:CA:490:G:H8	1.38	0.86
35:DA:1925:C:O2'	35:DA:1926:U:H5'	1.75	0.86
6:AF:45:LEU:HD12	6:AF:46:ARG:H	1.39	0.86
1:AA:643:C:H5'	8:AH:31:PHE:CD1	2.09	0.86
39:DE:194:GLY:O	39:DE:196:VAL:HG23	1.75	0.86
35:DA:176:G:O2'	35:DA:177:G:H5'	1.75	0.86
38:DD:226:MET:CE	38:DD:230:ASP:HB3	2.06	0.86
52:DV:72:VAL:HA	52:DV:88:ARG:HH12	1.39	0.86
43:DI:102:SER:HB2	43:DI:109:ILE:HG12	1.58	0.86
46:BP:7:ARG:HB3	46:BP:8:PRO:HD3	1.56	0.86

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:CH:20:TYR:HA	8:CH:65:TYR:CE2	2.10	0.86
31:D5:47:PRO:HA	31:D5:57:VAL:HG11	1.57	0.86
47:DQ:20:ALA:HB2	47:DQ:99:PRO:HG2	1.56	0.86
42:BH:128:PRO:HG2	42:BH:129:THR:HG23	1.58	0.86
48:BR:9:LYS:O	48:BR:10:LEU:HG	1.76	0.86
34:D8:52:LYS:N	34:D8:53:PRO:HD2	1.90	0.86
8:CH:12:ARG:HH12	8:CH:27:PRO:HD3	1.40	0.86
54:DX:25:LYS:HZ3	54:DX:87:GLN:H	0.90	0.86
35:DA:271(U):G:H2'	35:DA:271(V):G:H8	1.39	0.86
41:DG:15:VAL:HG13	41:DG:175:LEU:HB3	1.55	0.86
50:BT:23:ARG:O	50:BT:25:GLY:N	2.08	0.86
56:BZ:102:LEU:HD11	56:BZ:124:ILE:HG23	1.58	0.86
41:BG:170:ARG:HH22	41:BG:182:LYS:HE2	1.39	0.86
45:BO:111:PHE:HB3	45:BO:114:ILE:HD13	1.55	0.86
35:DA:836:G:H2'	35:DA:837:C:C6	2.11	0.86
1:AA:673:G:H2'	1:AA:674:G:C8	2.11	0.86
8:CH:103:VAL:HG21	8:CH:109:ILE:O	1.76	0.86
8:AH:103:VAL:HG21	8:AH:109:ILE:O	1.75	0.86
8:CH:6:ILE:HG21	8:CH:85:ARG:NH1	1.89	0.86
54:BX:65:ARG:CZ	54:BX:66:LEU:H	1.89	0.86
44:BN:89:LYS:O	44:BN:93:THR:HG22	1.76	0.86
8:AH:82:HIS:HD2	8:AH:138:TRP:HE1	1.19	0.86
54:DX:62:LYS:HB2	54:DX:68:ARG:HB2	1.58	0.86
13:CM:19:LEU:HA	13:CM:22:ILE:HD13	1.58	0.86
1:AA:1513:A:H2'	1:AA:1514:C:C6	2.10	0.86
16:CP:20:VAL:HG21	16:CP:32:TYR:CB	2.05	0.85
27:B1:94:LEU:HD22	27:B1:95:LEU:N	1.90	0.85
52:DV:18:LEU:HD22	52:DV:19:LYS:N	1.90	0.85
48:BR:24:GLN:HB2	48:BR:44:LEU:HD21	1.57	0.85
25:CY:129:ILE:HA	25:CY:132:ILE:HD11	1.55	0.85
25:CY:3:LEU:HD12	25:CY:3:LEU:N	1.90	0.85
35:BA:740:U:H2'	35:BA:741:G:C8	2.11	0.85
35:DA:2831:G:H1'	35:DA:2883:A:H2'	1.57	0.85
14:CN:8:GLU:HB2	14:CN:12:ARG:HH11	1.38	0.85
9:AI:114:TYR:H	9:AI:114:TYR:HD2	1.21	0.85
55:DY:8:LYS:H	55:DY:8:LYS:HD2	1.41	0.85
52:DV:32:THR:HG22	52:DV:33:VAL:H	1.41	0.85
19:CS:70:LYS:HB3	19:CS:70:LYS:HZ3	1.40	0.85
55:BY:45:VAL:HG13	55:BY:62:GLU:OE2	1.75	0.85
27:D1:60:PHE:HD1	27:D1:70:VAL:HG13	1.40	0.85
47:BQ:8:LYS:HG3	47:BQ:9:TYR:H	1.39	0.85
39:DE:163:GLU:O	39:DE:165:VAL:HG23	1.75	0.85

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:CB:75:LYS:HA	2:CB:78:GLN:NE2	1.91	0.85
46:DP:45:LEU:HD22	46:DP:48:PRO:HB3	1.58	0.85
1:CA:194:C:C2'	1:CA:195:A:H5''	2.06	0.85
35:BA:106:C:H1'	55:BY:2:ARG:HH21	1.37	0.85
56:DZ:163:LEU:HD23	56:DZ:163:LEU:H	1.40	0.85
35:BA:528:A:H2	35:BA:2043:C:H5'	1.41	0.85
47:BQ:127:ILE:HG22	47:BQ:128:LYS:H	1.40	0.85
36:DB:7:G:H4'	49:DS:29:PHE:CD2	2.11	0.85
35:BA:689:A:H2'	35:BA:690:G:C8	2.11	0.85
12:AL:47:LYS:HB3	12:AL:48:PRO:HD3	1.55	0.85
9:CI:19:LEU:O	9:CI:20:ARG:HG3	1.76	0.85
38:DD:77:ALA:HB2	38:DD:97:TYR:HA	1.58	0.85
47:DQ:81:VAL:HG23	47:DQ:82:ARG:NH1	1.90	0.85
35:BA:17:G:H4'	51:BU:25:TRP:CH2	2.11	0.85
38:DD:35:LYS:HE3	38:DD:64:ILE:C	1.97	0.85
40:BF:110:LEU:HA	40:BF:183:VAL:HG12	1.58	0.85
35:DA:676:A:H2	35:DA:802:A:H61	1.22	0.85
35:BA:1884:A:C2'	35:BA:1885:A:H5''	2.06	0.85
18:AR:85:LEU:HG	18:AR:86:VAL:H	1.41	0.85
2:CB:171:ALA:HA	2:CB:174:VAL:CG2	2.05	0.85
5:AE:8:GLU:HA	5:AE:34:VAL:HG22	1.57	0.85
27:B1:28:GLY:C	27:B1:30:VAL:H	1.79	0.85
35:DA:377:C:H2'	35:DA:378:C:C6	2.11	0.85
1:AA:1458:G:H2'	1:AA:1459:C:C6	2.11	0.85
45:DO:76:ALA:HB3	50:DT:75:ILE:HB	1.59	0.85
47:DQ:39:PRO:CB	47:DQ:99:PRO:HD3	2.03	0.85
10:AJ:50:ILE:HD11	14:AN:41:ARG:HD2	1.58	0.85
39:DE:30:PRO:HD3	39:DE:180:ASN:HD21	1.42	0.85
1:AA:543:C:H2'	1:AA:544:G:H8	1.41	0.85
1:AA:939:G:H5''	7:AG:102:ARG:NH2	1.90	0.85
38:BD:131:LEU:HA	38:BD:190:TYR:CE2	2.11	0.85
1:CA:678:U:H2'	1:CA:679:C:C6	2.12	0.85
1:CA:1424:C:H2'	1:CA:1425:U:H6	1.41	0.85
6:AF:7:ASN:O	6:AF:8:ILE:HG13	1.75	0.85
35:BA:1590:U:C2'	35:BA:1591:G:H5''	2.06	0.85
35:DA:2262:U:C2'	35:DA:2263:C:H5''	2.06	0.85
35:DA:2262:U:H2'	35:DA:2263:C:H5''	1.59	0.85
17:CQ:40:LYS:HD2	17:CQ:42:TYR:CZ	2.11	0.85
38:BD:161:THR:HG1	38:BD:196:VAL:HG21	1.40	0.85
56:BZ:166:SER:HB2	56:BZ:167:PRO:HA	1.55	0.85
54:BX:56:THR:N	54:BX:77:LYS:HG3	1.90	0.85
34:D8:14:VAL:HG11	34:D8:22:VAL:HG13	1.56	0.85

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:DV:71:LEU:HD13	52:DV:72:VAL:H	1.39	0.85
1:AA:1410:G:H2'	1:AA:1411:C:C6	2.11	0.85
1:AA:1507:A:H2'	1:AA:1508:G:C8	2.12	0.85
2:AB:171:ALA:HA	2:AB:174:VAL:HG23	1.56	0.85
23:CW:19:G:H3'	23:CW:20:G:H5''	1.58	0.85
38:BD:35:LYS:HE3	38:BD:64:ILE:C	1.96	0.85
35:DA:1779:U:C5	35:DA:1784:A:N7	2.44	0.85
52:BV:29:PRO:HD2	52:BV:32:THR:HG1	1.42	0.85
47:BQ:20:ALA:HB2	47:BQ:99:PRO:HG2	1.57	0.85
35:BA:1582:C:HO2'	35:BA:1586:A:H8	1.19	0.85
47:BQ:87:LYS:O	47:BQ:87:LYS:HG3	1.77	0.85
2:CB:222:ILE:HG23	2:CB:223:ILE:HG13	1.59	0.85
1:AA:17:U:H1'	1:AA:1079:G:H21	1.40	0.85
1:AA:1391:U:H2'	1:AA:1392:G:C8	2.12	0.85
35:DA:97:C:H2'	35:DA:98:G:H8	1.41	0.85
38:BD:27:THR:HG23	38:BD:28:GLU:N	1.89	0.85
35:DA:729:G:O2'	35:DA:763:G:H4'	1.77	0.85
47:DQ:68:ILE:HD13	47:DQ:68:ILE:H	1.41	0.85
27:B1:19:GLN:HE21	35:BA:379:G:H21	1.22	0.85
3:AC:148:GLY:HA3	3:AC:203:PHE:HB3	1.59	0.85
55:DY:14:LEU:HD12	55:DY:15:VAL:H	1.42	0.85
51:BU:34:LYS:HA	51:BU:34:LYS:HE2	1.59	0.85
1:AA:194:C:C2'	1:AA:195:A:H5''	2.07	0.85
38:BD:186:HIS:HD2	38:BD:188:GLU:H	1.25	0.85
1:AA:932:C:H5''	7:AG:3:ARG:HD2	1.55	0.85
1:CA:198:G:H2'	1:CA:199:G:H8	1.41	0.85
35:DA:2716:U:H2'	35:DA:2717:G:H8	1.42	0.85
51:BU:66:ASN:HD21	51:BU:70:ARG:HH21	0.85	0.85
54:BX:77:LYS:HE3	54:BX:78:LYS:H	1.41	0.85
40:BF:155:LEU:HB2	40:BF:189:THR:HG21	1.59	0.85
55:BY:97:ARG:O	55:BY:97:ARG:HG3	1.77	0.85
5:CE:39:GLY:CA	5:CE:69:VAL:HB	2.07	0.85
29:D3:8:LEU:HA	29:D3:54:VAL:HG22	1.59	0.85
45:DO:31:LYS:C	45:DO:32:TYR:HD1	1.81	0.84
45:DO:69:ILE:HD12	45:DO:69:ILE:H	1.41	0.84
41:DG:135:LEU:HD21	41:DG:140:ILE:HD11	1.57	0.84
39:BE:52:LEU:HB2	39:BE:76:ARG:HB2	1.57	0.84
35:BA:942:G:H5'	46:BP:35:HIS:HB2	1.58	0.84
18:AR:43:PHE:HA	18:AR:51:LEU:HD12	1.57	0.84
35:BA:377:C:H2'	35:BA:378:C:C6	2.11	0.84
35:BA:1577:C:H2'	35:BA:1578:U:C6	2.12	0.84
35:BA:2276:G:H5'	47:BQ:84:GLY:HA2	1.58	0.84

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
45:DO:79:PHE:HE2	45:DO:101:PRO:HB2	1.41	0.84
27:D1:58:ILE:CD1	27:D1:59:THR:H	1.89	0.84
35:BA:676:A:H2	35:BA:802:A:H61	1.24	0.84
2:CB:165:VAL:HG23	2:CB:166:ASP:N	1.87	0.84
4:AD:155:LEU:O	4:AD:159:ARG:HG2	1.77	0.84
1:CA:1492:A:H2'	1:CA:1493:A:H8	1.41	0.84
7:AG:148:ASN:HD21	23:AW:41:C:H4'	1.41	0.84
17:CQ:74:LEU:HD12	17:CQ:75:ARG:HG2	1.59	0.84
12:AL:41:ARG:HB3	12:AL:41:ARG:HH11	1.42	0.84
48:BR:60:LEU:HD23	48:BR:61:HIS:H	1.41	0.84
40:DF:129:PHE:HA	40:DF:142:TRP:HE1	1.41	0.84
45:BO:79:PHE:HE2	45:BO:101:PRO:HB2	1.42	0.84
45:BO:76:ALA:HB3	50:BT:75:ILE:HB	1.59	0.84
39:DE:51:PHE:N	39:DE:74:PRO:HG3	1.91	0.84
25:CY:68:VAL:O	25:CY:98:ALA:HA	1.77	0.84
31:B5:47:PRO:HA	31:B5:57:VAL:HG11	1.58	0.84
35:BA:272(D):G:H1	35:BA:364:C:H42	1.25	0.84
56:DZ:110:GLY:C	56:DZ:112:ARG:H	1.76	0.84
3:AC:156:ARG:NH2	3:AC:161:GLU:HA	1.91	0.84
32:B6:20:ASN:ND2	32:B6:21:TYR:H	1.74	0.84
47:DQ:127:ILE:HG22	47:DQ:128:LYS:H	1.42	0.84
28:B2:53:LEU:HA	28:B2:56:GLN:HG2	1.59	0.84
34:D8:32:LEU:C	34:D8:34:TRP:N	2.30	0.84
27:D1:85:LEU:HB2	27:D1:87:PRO:HD3	1.57	0.84
48:DR:9:LYS:O	48:DR:10:LEU:HG	1.77	0.84
48:DR:48:VAL:O	48:DR:51:LEU:HB2	1.76	0.84
1:CA:1325:C:H2'	1:CA:1325:C:O2	1.75	0.84
42:DH:26:VAL:O	42:DH:32:GLU:HA	1.77	0.84
8:AH:129:VAL:HG23	8:AH:130:GLY:H	1.39	0.84
16:CP:49:LEU:HD11	16:CP:51:VAL:HG23	1.59	0.84
51:BU:17:ILE:HA	51:BU:20:LEU:HD23	1.59	0.84
35:DA:1301:A:O2'	35:DA:1302:A:H2'	1.77	0.84
1:CA:1508:G:H2'	1:CA:1509:C:H6	1.40	0.84
1:AA:237:C:H4'	17:AQ:25:ARG:HH12	1.41	0.84
34:B8:32:LEU:C	34:B8:34:TRP:N	2.27	0.84
28:D2:27:GLU:O	28:D2:29:LYS:N	2.10	0.84
1:CA:1057:G:H5''	3:CC:154:SER:HB2	1.58	0.84
41:DG:29:TRP:C	41:DG:31:VAL:H	1.77	0.84
49:DS:61:ASN:HD22	49:DS:62:LYS:HE3	1.42	0.84
8:CH:83:ILE:HD13	8:CH:137:VAL:HG22	1.57	0.84
25:CY:41:LEU:H	25:CY:41:LEU:HD12	1.41	0.84
31:D5:2:ALA:HA	35:DA:2015:A:H1'	1.58	0.84

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2115:G:H4'	35:DA:2166:G:H22	1.42	0.84
38:BD:226:MET:CE	38:BD:230:ASP:HB3	2.07	0.84
44:BN:41:ASP:C	51:BU:64:ARG:NH1	2.31	0.84
27:B1:73:LEU:HA	27:B1:76:ARG:NH1	1.92	0.84
45:DO:111:PHE:HB3	45:DO:114:ILE:HD13	1.57	0.84
1:CA:1057:G:H5''	3:CC:154:SER:CB	2.07	0.84
35:BA:389:G:N2	46:BP:71:VAL:HG11	1.92	0.84
35:DA:1582:C:HO2'	35:DA:1586:A:H8	1.22	0.84
44:BN:16:ILE:HG23	44:BN:54:VAL:HG22	1.58	0.84
40:DF:53:THR:O	40:DF:57:VAL:HG23	1.78	0.84
1:AA:434:U:H2'	1:AA:435:C:C6	2.11	0.84
55:DY:28:LYS:HZ1	55:DY:30:VAL:HA	1.40	0.84
25:CY:18:LEU:HG	25:CY:19:GLU:H	1.42	0.84
1:AA:551:U:H2'	1:AA:552:U:H6	1.43	0.84
11:AK:22:HIS:O	11:AK:28:THR:HG23	1.78	0.84
11:AK:29:ILE:HG22	11:AK:44:SER:HB3	1.59	0.84
38:DD:144:ALA:HB3	38:DD:192:THR:HG22	1.57	0.84
38:DD:76:PRO:HA	38:DD:118:VAL:HB	1.58	0.84
35:BA:2115:G:H4'	35:BA:2166:G:H22	1.43	0.84
3:CC:156:ARG:NH2	3:CC:161:GLU:HA	1.92	0.84
26:D0:25:ARG:HA	26:D0:29:GLN:HE22	1.41	0.84
36:DB:20:C:H2'	36:DB:21:G:H5''	1.60	0.84
37:BC:59:ARG:HB2	37:BC:62:VAL:HG22	1.58	0.84
35:BA:678:C:H2'	35:BA:679:C:H6	1.41	0.84
35:BA:2704:C:H2'	35:BA:2705:A:H8	1.43	0.84
42:BH:158:HIS:CD2	42:BH:170:ARG:HA	2.13	0.84
47:BQ:25:ASP:HA	56:BZ:78:LYS:NZ	1.93	0.84
41:BG:7:LEU:HA	41:BG:10:LYS:HB2	1.59	0.84
56:DZ:56:VAL:CA	56:DZ:70:LEU:HD21	1.99	0.84
47:BQ:68:ILE:H	47:BQ:68:ILE:HD13	1.40	0.84
55:BY:86:ARG:HB3	55:BY:88:LYS:HZ2	1.42	0.84
2:AB:47:THR:HG23	2:AB:202:PRO:HG2	1.59	0.84
27:D1:33:LYS:HG2	27:D1:34:THR:N	1.92	0.84
2:CB:36:ARG:CZ	2:CB:37:ASN:H	1.91	0.84
35:DA:2348:U:C3'	35:DA:2349:G:H5''	2.08	0.84
43:DI:111:PRO:O	43:DI:112:LYS:HG3	1.77	0.84
1:CA:551:U:H2'	1:CA:552:U:H6	1.43	0.84
1:CA:683:G:H2'	1:CA:684:A:H8	1.43	0.84
35:BA:1484:G:H2'	35:BA:1485:G:H5''	1.59	0.84
42:BH:136:ILE:HD12	42:BH:136:ILE:H	1.42	0.84
35:BA:208:C:H2'	35:BA:209:C:H6	1.41	0.84
5:AE:90:VAL:HG23	5:AE:121:LYS:HB3	1.60	0.84

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
51:BU:3:ARG:HG2	51:BU:3:ARG:HH11	1.40	0.84
39:BE:194:GLY:O	39:BE:196:VAL:HG23	1.76	0.84
32:D6:20:ASN:ND2	32:D6:21:TYR:H	1.76	0.84
35:DA:2850:A:H2'	35:DA:2851:A:H8	1.42	0.84
28:D2:14:ARG:CG	28:D2:15:LYS:H	1.87	0.84
35:BA:483:A:C1'	55:BY:47:LYS:HG2	2.08	0.84
35:BA:610:G:H22	35:BA:619:G:H1'	1.43	0.84
39:BE:131:ALA:HB3	39:BE:134:ILE:HD11	1.59	0.84
47:BQ:81:VAL:HG23	47:BQ:82:ARG:NH1	1.93	0.84
42:DH:70:THR:HG22	42:DH:74:ASN:ND2	1.92	0.84
35:BA:2262:U:C2'	35:BA:2263:C:H5''	2.08	0.84
5:AE:39:GLY:CA	5:AE:69:VAL:HB	2.08	0.84
9:AI:95:LYS:HD3	9:AI:96:LEU:H	1.41	0.84
39:DE:167:VAL:HG22	39:DE:168:MET:H	1.43	0.84
35:BA:271(U):G:H2'	35:BA:271(V):G:H8	1.43	0.84
35:BA:1925:C:O2'	35:BA:1926:U:H5'	1.77	0.84
35:BA:1114:G:H2'	35:BA:1115:G:H5''	1.57	0.84
1:AA:34:C:H2'	1:AA:35:G:H8	1.41	0.84
41:DG:178:PHE:HB3	41:DG:180:PHE:HE1	1.43	0.84
39:DE:116:VAL:HG22	39:DE:122:PHE:HB2	1.57	0.84
44:BN:41:ASP:N	51:BU:64:ARG:HH12	1.75	0.84
2:AB:208:ILE:HA	2:AB:211:ILE:HD12	1.60	0.84
46:DP:62:LEU:CD1	46:DP:62:LEU:H	1.91	0.84
40:BF:53:THR:O	40:BF:57:VAL:HG23	1.78	0.84
48:DR:95:THR:HA	48:DR:117:VAL:HB	1.59	0.84
35:DA:666:G:H4'	46:DP:49:ARG:NH2	1.93	0.84
25:AY:29:ARG:HB3	25:AY:32:ARG:CZ	2.07	0.84
35:BA:1409:C:H2'	35:BA:1410:G:C8	2.12	0.84
11:CK:29:ILE:HG22	11:CK:44:SER:CB	2.07	0.84
31:B5:40:LYS:CE	31:B5:46:CYS:H	1.90	0.84
48:BR:99:LYS:O	48:BR:100:LEU:HD22	1.78	0.84
1:CA:1442(A):G:H3'	1:CA:1442(B):A:C5'	2.07	0.84
27:B1:73:LEU:HD21	27:B1:94:LEU:HD23	1.57	0.84
2:AB:75:LYS:HA	2:AB:78:GLN:NE2	1.92	0.84
41:BG:172:LEU:HG	41:BG:176:LEU:HD11	1.60	0.84
35:BA:176:G:O2'	35:BA:177:G:H5'	1.78	0.84
35:BA:97:C:H2'	35:BA:98:G:H8	1.43	0.84
38:DD:25:THR:CG2	38:DD:81:ALA:HB1	2.08	0.83
41:DG:139:LEU:HA	41:DG:144:ILE:HG12	1.60	0.83
46:BP:62:LEU:CD1	46:BP:62:LEU:H	1.90	0.83
56:BZ:10:ARG:HB3	56:BZ:36:LYS:HB2	1.57	0.83
3:AC:24:ALA:HB3	3:AC:29:TYR:HD1	1.43	0.83

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:AB:222:ILE:HG23	2:AB:223:ILE:HG13	1.60	0.83
41:BG:67:LYS:H	41:BG:67:LYS:HD2	1.43	0.83
35:DA:2777:G:H5''	35:DA:2778:A:C5'	2.07	0.83
27:D1:10:LYS:O	27:D1:13:ILE:HG22	1.77	0.83
47:DQ:75:THR:CA	47:DQ:88:GLY:HA3	2.06	0.83
12:AL:23:LYS:O	12:AL:24:VAL:HG23	1.78	0.83
1:AA:198:G:H2'	1:AA:199:G:H8	1.41	0.83
35:BA:323:G:H2'	40:BF:169:ASN:HD21	1.43	0.83
18:CR:85:LEU:HG	18:CR:86:VAL:H	1.40	0.83
31:B5:11:THR:OG1	35:BA:1264:G:H5'	1.77	0.83
20:CT:87:LYS:O	20:CT:91:LEU:HG	1.78	0.83
1:CA:591:U:H2'	1:CA:592:G:C8	2.12	0.83
35:BA:2186:G:H2'	35:BA:2187:G:H5''	1.61	0.83
35:DA:1484:G:H2'	35:DA:1485:G:H5''	1.58	0.83
50:DT:30:VAL:HG12	50:DT:44:ASP:HA	1.58	0.83
5:CE:33:VAL:HG22	5:CE:43:LEU:HD13	1.58	0.83
41:BG:173:LEU:CA	41:BG:176:LEU:HD12	2.08	0.83
4:CD:155:LEU:O	4:CD:159:ARG:HG2	1.78	0.83
40:BF:39:TRP:CD1	40:BF:101:LEU:HB2	2.12	0.83
48:DR:2:ARG:HD2	48:DR:2:ARG:O	1.78	0.83
35:DA:106:C:H1'	55:DY:2:ARG:HH21	1.40	0.83
1:AA:200:G:H1	1:AA:217:C:H42	1.25	0.83
1:CA:878:G:H5'	8:CH:89:PRO:HG2	1.59	0.83
42:BH:156:ALA:C	42:BH:158:HIS:H	1.81	0.83
4:AD:128:VAL:HG12	4:AD:129:ASN:H	1.43	0.83
3:CC:105:GLU:HG2	3:CC:106:VAL:H	1.41	0.83
35:DA:782:A:N3	38:DD:226:MET:HG2	1.93	0.83
1:AA:973:G:H3'	1:AA:974:A:H5''	1.60	0.83
1:AA:1057:G:H5''	3:AC:154:SER:CB	2.09	0.83
40:DF:110:LEU:HA	40:DF:183:VAL:HG12	1.59	0.83
1:CA:662:G:H2'	1:CA:663:A:C8	2.12	0.83
46:DP:23:PRO:HB2	46:DP:33:ARG:CD	2.07	0.83
42:DH:70:THR:HG22	42:DH:74:ASN:HD21	1.43	0.83
11:CK:21:ILE:HD11	11:CK:82:VAL:HG13	1.60	0.83
35:BA:2801(A):A:H4'	35:BA:2802:G:H2'	1.60	0.83
36:BB:20:C:H2'	36:BB:21:G:H5''	1.59	0.83
38:BD:146:GLU:HA	38:BD:153:ALA:HA	1.60	0.83
47:DQ:24:GLY:HA2	47:DQ:100:GLY:O	1.78	0.83
39:DE:29:GLY:HA3	39:DE:180:ASN:HD21	1.43	0.83
28:D2:44:LEU:HD23	35:DA:61:G:C5'	2.06	0.83
1:AA:1057:G:H5''	3:AC:154:SER:HB2	1.59	0.83
25:AY:76:LEU:HD11	25:AY:99:LEU:HG	1.60	0.83

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BE:131:ALA:CB	39:BE:134:ILE:HD11	2.08	0.83
35:BA:836:G:H2'	35:BA:837:C:C6	2.13	0.83
38:BD:31:LYS:HA	38:BD:31:LYS:NZ	1.94	0.83
46:BP:121:LYS:O	46:BP:123:LEU:HD22	1.77	0.83
2:AB:101:MET:O	2:AB:105:PHE:HA	1.78	0.83
1:CA:1053:G:O6	1:CA:1199:U:H2'	1.78	0.83
7:CG:50:ILE:HB	7:CG:58:PRO:HD3	1.60	0.83
35:DA:2189:U:H3'	35:DA:2190:G:H5''	1.61	0.83
19:AS:48:THR:HG22	19:AS:61:TYR:HA	1.58	0.83
38:DD:146:GLU:HA	38:DD:153:ALA:HA	1.59	0.83
52:DV:22:VAL:HB	52:DV:94:LEU:HB3	1.60	0.83
3:AC:150:LYS:HB3	3:AC:201:TYR:HB2	1.58	0.83
27:D1:87:PRO:HB2	27:D1:91:LYS:CE	2.09	0.83
35:DA:2820:A:H4'	48:DR:5:LYS:HE2	1.61	0.83
35:BA:2348:U:C3'	35:BA:2349:G:H5''	2.07	0.83
9:AI:19:LEU:HD23	9:AI:61:ALA:HA	1.58	0.83
42:BH:70:THR:HG22	42:BH:74:ASN:HD21	1.41	0.83
39:BE:137:HIS:HB3	39:BE:138:PRO:HD2	1.59	0.83
53:DW:75:TYR:CE1	53:DW:104:THR:HB	2.13	0.83
23:AW:72:C:H4'	35:BA:1851:U:H4'	1.61	0.83
1:CA:237:C:H4'	17:CQ:25:ARG:HH12	1.41	0.83
35:BA:1567:A:H2'	38:BD:84:TYR:HE2	1.42	0.83
41:DG:102:PHE:HE1	41:DG:106:LEU:HD13	1.42	0.83
41:DG:36:LYS:HD3	41:DG:95:ARG:NH2	1.92	0.83
52:BV:22:VAL:HB	52:BV:94:LEU:HB3	1.60	0.83
39:DE:33:VAL:CG1	39:DE:89:ASP:H	1.92	0.83
54:DX:36:LYS:HD2	54:DX:36:LYS:O	1.79	0.83
47:DQ:132:VAL:HG11	56:DZ:81:ARG:NH1	1.94	0.83
56:DZ:150:LEU:HD23	56:DZ:171:ILE:CD1	2.08	0.83
35:DA:2781:A:C5'	35:DA:2782:G:H5'	2.08	0.83
49:BS:55:ALA:O	49:BS:56:LEU:HB2	1.79	0.83
40:DF:46:ARG:HH11	40:DF:46:ARG:HA	1.43	0.83
35:DA:942:G:H5'	46:DP:35:HIS:HB2	1.61	0.83
35:BA:925:C:C2'	35:BA:926:A:H5''	2.07	0.83
25:CY:67:VAL:HG12	25:CY:100:TYR:HA	1.58	0.83
38:DD:142:VAL:HG23	38:DD:193:VAL:HA	1.58	0.83
35:DA:1007:C:O2'	44:DN:108:PRO:HA	1.78	0.83
1:AA:392:G:H2'	1:AA:393:A:H8	1.41	0.83
32:D6:39:TYR:HE1	35:DA:2347:C:H4'	1.44	0.83
3:AC:189:ALA:HB3	3:AC:196:LEU:HB2	1.59	0.83
1:AA:943:U:H2'	1:AA:944:G:H8	1.43	0.83
43:DI:57:ARG:HB3	43:DI:57:ARG:HH11	1.43	0.83

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
57:DC:59:ARG:HB2	57:DC:62:VAL:HG22	1.59	0.83
35:DA:1971:A:H1'	38:DD:240:ALA:O	1.78	0.83
45:BO:69:ILE:HD12	45:BO:69:ILE:H	1.41	0.83
35:BA:956:G:OP2	47:BQ:85:LYS:HD2	1.78	0.83
35:DA:1582:C:O2'	35:DA:1586:A:H8	1.61	0.83
11:CK:44:SER:H	11:CK:47:VAL:CG2	1.92	0.83
42:BH:16:SER:HB2	42:BH:27:LYS:HB2	1.61	0.83
2:CB:101:MET:O	2:CB:105:PHE:HA	1.79	0.83
1:CA:1342:C:H1'	9:CI:124:GLN:HE22	1.41	0.83
31:D5:40:LYS:HE2	31:D5:46:CYS:H	1.42	0.83
46:DP:112:LEU:HD22	46:DP:113:LYS:N	1.93	0.83
38:DD:131:LEU:HD13	38:DD:136:ILE:HG12	1.58	0.83
35:DA:1230:C:H2'	35:DA:1231:G:C8	2.13	0.83
35:DA:323:G:H2'	40:DF:169:ASN:HD21	1.43	0.83
38:BD:267:SER:C	38:BD:269:PHE:H	1.79	0.83
35:BA:2562:U:H1'	45:BO:23:ARG:NH1	1.92	0.83
28:D2:29:LYS:HA	28:D2:32:LEU:HB3	1.59	0.83
54:DX:77:LYS:HE3	54:DX:78:LYS:H	1.43	0.83
35:BA:484:C:H2'	35:BA:485:C:C6	2.13	0.83
44:DN:9:VAL:HG12	44:DN:10:GLU:H	1.42	0.83
27:D1:46:LEU:HD12	27:D1:46:LEU:H	1.40	0.83
35:BA:1582:C:O2'	35:BA:1586:A:H8	1.60	0.83
48:BR:48:VAL:O	48:BR:51:LEU:HB2	1.79	0.83
44:DN:56:ASN:HA	44:DN:124:ALA:HA	1.59	0.83
1:CA:1240:U:H3	7:CG:30:ILE:HG22	1.43	0.83
12:CL:6:THR:CG2	12:CL:9:GLN:HG3	2.08	0.83
16:AP:82:GLN:NE2	16:AP:82:GLN:H	1.76	0.83
1:AA:662:G:H2'	1:AA:663:A:C8	2.14	0.83
35:BA:600:G:H1	35:BA:657:U:H3	1.27	0.83
35:DA:2591:C:H2'	35:DA:2592:G:C8	2.14	0.83
35:BA:2189:U:H3'	35:BA:2190:G:H5''	1.61	0.83
57:DC:70:LYS:HB3	57:DC:72:VAL:HG23	1.60	0.83
35:DA:1930:G:N2	35:DA:1968:G:H2'	1.94	0.83
35:DA:483:A:C1'	55:DY:47:LYS:HG2	2.09	0.83
47:BQ:28:ALA:HB2	47:BQ:67:ARG:HD2	1.60	0.83
35:DA:2577:A:H5''	35:DA:2578:G:H5'	1.61	0.83
54:BX:57:LEU:HB2	54:BX:76:ARG:HD2	1.59	0.83
54:BX:77:LYS:CE	54:BX:78:LYS:H	1.92	0.83
35:DA:1019:U:H2'	35:DA:1020:A:H8	1.44	0.83
35:BA:1755:A:C2	35:BA:2716:U:H1'	2.13	0.83
44:BN:17:ASP:C	44:BN:19:GLU:H	1.82	0.83
1:CA:736:C:H2'	1:CA:737:A:C8	2.14	0.83

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2737:G:H2'	35:BA:2738:A:C8	2.13	0.83
12:AL:84:LEU:HD23	12:AL:85:ILE:H	1.44	0.83
1:AA:1505:G:H4'	1:AA:1506:U:H5''	1.60	0.83
8:CH:26:VAL:HG22	8:CH:32:LYS:NZ	1.93	0.83
1:CA:392:G:H2'	1:CA:393:A:C8	2.14	0.83
25:CY:73:GLN:O	25:CY:77:LYS:HG2	1.79	0.83
1:CA:1112:C:O2	3:CC:179:ARG:HG2	1.79	0.83
27:B1:86:SER:C	27:B1:89:GLU:HG2	1.99	0.83
28:D2:52:ASP:C	28:D2:54:LYS:H	1.79	0.83
35:DA:389:G:N2	46:DP:71:VAL:HG11	1.93	0.83
27:D1:46:LEU:N	27:D1:46:LEU:HD12	1.94	0.83
48:BR:78:LYS:O	48:BR:83:ILE:HG12	1.79	0.83
6:AF:33:TYR:HD1	6:AF:75:LEU:HG	1.44	0.83
35:DA:1409:C:H2'	35:DA:1410:G:C8	2.13	0.83
55:BY:28:LYS:NZ	55:BY:37:VAL:HA	1.94	0.83
8:AH:83:ILE:HB	8:AH:137:VAL:HG13	1.61	0.83
1:AA:1080:A:H5'	5:AE:14:ARG:HH21	1.41	0.83
1:CA:878:G:H5''	8:CH:89:PRO:HG2	1.61	0.83
33:D7:8:ASN:HD22	33:D7:9:ARG:N	1.76	0.83
50:BT:13:ARG:HH12	50:BT:15:VAL:CG1	1.92	0.83
1:AA:1053:G:O6	1:AA:1199:U:H2'	1.79	0.83
1:CA:78:G:N2	1:CA:91:C:H42	1.77	0.83
10:CJ:50:ILE:HD11	14:CN:41:ARG:HD2	1.61	0.82
47:BQ:132:VAL:HG11	56:BZ:81:ARG:HH11	1.42	0.82
52:BV:38:LEU:HD22	52:BV:40:LEU:H	1.44	0.82
55:DY:88:LYS:HZ3	55:DY:93:GLY:N	1.75	0.82
35:BA:389:G:H1	46:BP:71:VAL:CB	1.91	0.82
3:AC:53:ALA:HB2	3:AC:115:LEU:HD21	1.61	0.82
35:DA:814:C:H5''	52:DV:86:GLY:HA3	1.61	0.82
6:AF:99:ALA:HB3	18:AR:29:PHE:HE2	1.42	0.82
43:BI:37:VAL:HG13	43:BI:38:LEU:HD12	1.58	0.82
8:AH:119:LEU:N	8:AH:119:LEU:HD23	1.94	0.82
43:DI:17:GLN:HG2	43:DI:18:VAL:H	1.44	0.82
35:DA:2128:C:H2'	35:DA:2173:A:O2'	1.77	0.82
56:DZ:76:LEU:CA	56:DZ:84:GLU:HB2	2.08	0.82
1:AA:1342:C:H1'	9:AI:124:GLN:HE22	1.44	0.82
54:BX:25:LYS:HZ3	54:BX:87:GLN:H	1.22	0.82
35:DA:2206:G:H21	35:DA:2207:G:H5'	1.44	0.82
42:DH:156:ALA:C	42:DH:158:HIS:H	1.81	0.82
35:DA:1689:A:H62	35:DA:1698:A:H2	1.27	0.82
45:BO:86:ILE:N	45:BO:86:ILE:HD12	1.92	0.82
28:B2:37:PHE:CZ	28:B2:40:SER:HA	2.14	0.82

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:B1:56:GLN:O	27:B1:57:GLU:HG2	1.77	0.82
27:B1:91:LYS:O	27:B1:94:LEU:HB3	1.78	0.82
4:CD:11:LEU:C	4:CD:13:ARG:N	2.31	0.82
47:BQ:24:GLY:HA2	47:BQ:100:GLY:O	1.79	0.82
49:DS:83:LYS:HG2	49:DS:105:ALA:HB3	1.61	0.82
4:AD:163:GLU:O	4:AD:165:MET:N	2.12	0.82
1:AA:736:C:H2'	1:AA:737:A:H8	1.42	0.82
11:AK:21:ILE:HD11	11:AK:82:VAL:HG13	1.59	0.82
1:AA:1349:A:P	9:AI:118:LYS:HZ2	2.02	0.82
31:D5:25:LEU:HB2	53:DW:23:LEU:HD11	1.61	0.82
45:DO:6:THR:HG22	45:DO:7:TYR:H	1.44	0.82
41:DG:32:PRO:HB3	41:DG:172:LEU:HD22	1.62	0.82
46:BP:62:LEU:HD13	46:BP:62:LEU:H	1.44	0.82
50:BT:29:ARG:CB	50:BT:85:LYS:HA	2.09	0.82
41:BG:87:PRO:O	41:BG:88:ILE:HD12	1.79	0.82
41:BG:87:PRO:C	41:BG:88:ILE:HD12	2.00	0.82
44:DN:41:ASP:N	51:DU:64:ARG:HH12	1.77	0.82
51:DU:90:VAL:HG12	51:DU:91:ASP:H	1.44	0.82
51:DU:90:VAL:HG13	52:DV:39:LEU:HB3	1.60	0.82
49:BS:20:ARG:HG3	49:BS:25:ARG:HD2	1.61	0.82
34:B8:14:VAL:HG11	34:B8:22:VAL:HG13	1.60	0.82
36:DB:7:G:H4'	49:DS:29:PHE:CE2	2.14	0.82
2:AB:36:ARG:CZ	2:AB:37:ASN:H	1.92	0.82
6:CF:99:ALA:HB3	18:CR:29:PHE:HE2	1.44	0.82
47:DQ:8:LYS:HG3	47:DQ:9:TYR:H	1.42	0.82
1:AA:376:G:OP1	16:AP:5:ARG:HB2	1.79	0.82
35:DA:1590:U:C2'	35:DA:1591:G:H5''	2.09	0.82
35:DA:663:G:H5''	46:DP:21:ARG:HE	1.44	0.82
46:BP:75:ILE:H	46:BP:75:ILE:HD12	1.41	0.82
16:CP:82:GLN:H	16:CP:82:GLN:NE2	1.77	0.82
27:D1:19:GLN:HB3	35:DA:380:U:O2'	1.79	0.82
1:CA:1329:A:P	13:CM:28:ALA:HB3	2.20	0.82
38:BD:144:ALA:HB3	38:BD:192:THR:HG22	1.59	0.82
50:DT:29:ARG:CB	50:DT:85:LYS:HA	2.10	0.82
16:AP:20:VAL:HG21	16:AP:32:TYR:CB	2.07	0.82
52:BV:34:GLU:HB3	52:BV:62:LEU:HD12	1.61	0.82
35:BA:2598:A:C5'	38:BD:236:GLY:H	1.91	0.82
35:DA:873:G:H2'	35:DA:874:G:H8	1.45	0.82
27:D1:33:LYS:CG	27:D1:34:THR:H	1.91	0.82
35:BA:2476:A:C2'	35:BA:2477:C:H5''	2.09	0.82
55:DY:22:GLY:O	55:DY:23:ARG:HG3	1.79	0.82
35:DA:17:G:H4'	51:DU:25:TRP:CH2	2.14	0.82

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:AY:29:ARG:HH21	25:AY:32:ARG:HH22	1.27	0.82
1:CA:382:A:H2'	1:CA:383:A:C8	2.14	0.82
35:BA:1786:A:C4	35:BA:1938:A:N6	2.48	0.82
5:CE:80:ILE:HD12	5:CE:138:ALA:HB1	1.60	0.82
45:DO:101:PRO:O	45:DO:102:VAL:HG13	1.80	0.82
35:BA:2639:A:C2'	35:BA:2640:G:H5''	2.09	0.82
44:DN:41:ASP:C	51:DU:64:ARG:NH1	2.32	0.82
4:CD:18:LYS:NZ	4:CD:33:MET:HB3	1.93	0.82
35:DA:2639:A:C2'	35:DA:2640:G:H5''	2.07	0.82
35:BA:1019:U:H2'	35:BA:1020:A:H8	1.41	0.82
18:CR:65:ILE:HD12	18:CR:66:LEU:N	1.94	0.82
5:CE:36:ASP:OD2	5:CE:38:GLN:HB2	1.78	0.82
5:AE:80:ILE:HD12	5:AE:138:ALA:HB1	1.61	0.82
13:CM:66:LEU:HA	13:CM:70:LEU:HD12	1.61	0.82
1:CA:1391:U:H2'	1:CA:1392:G:C8	2.15	0.82
41:DG:57:ALA:HB2	41:DG:90:LEU:HD21	1.59	0.82
38:BD:8:PRO:CB	38:BD:14:ARG:HD3	2.07	0.82
45:BO:1:MET:HG3	45:BO:32:TYR:CD2	2.14	0.82
51:BU:90:VAL:HG13	52:BV:39:LEU:HB3	1.58	0.82
42:DH:128:PRO:HG2	42:DH:129:THR:HG23	1.58	0.82
42:BH:144:VAL:O	42:BH:148:ILE:HG12	1.78	0.82
18:CR:74:ARG:NE	18:CR:81:PHE:HA	1.94	0.82
12:AL:46:LYS:HG2	12:AL:47:LYS:H	1.44	0.82
31:D5:2:ALA:HB2	35:DA:2014:A:O2'	1.79	0.82
7:CG:50:ILE:O	7:CG:54:THR:HG23	1.80	0.82
35:DA:484:C:H2'	35:DA:485:C:H6	1.41	0.82
45:DO:69:ILE:HD12	45:DO:77:ILE:O	1.80	0.82
38:BD:268:ARG:NH1	38:BD:268:ARG:HB2	1.95	0.82
56:BZ:166:SER:HB2	56:BZ:167:PRO:CA	2.10	0.82
28:B2:14:ARG:CZ	28:B2:15:LYS:H	1.93	0.82
54:DX:77:LYS:CE	54:DX:78:LYS:H	1.93	0.82
49:BS:83:LYS:HG2	49:BS:105:ALA:HB3	1.61	0.82
27:D1:87:PRO:HB2	27:D1:91:LYS:NZ	1.93	0.82
50:BT:96:ARG:HG2	50:BT:96:ARG:HH11	1.44	0.82
35:DA:661:C:O3'	46:DP:18:ARG:HD2	1.79	0.82
31:D5:40:LYS:NZ	31:D5:45:VAL:HA	1.95	0.82
31:B5:40:LYS:HE2	31:B5:46:CYS:H	1.43	0.82
8:AH:30:ARG:HB3	8:AH:30:ARG:NH1	1.95	0.82
1:AA:253:U:H2'	1:AA:254:G:H8	1.45	0.82
1:AA:78:G:N2	1:AA:91:C:H42	1.75	0.82
35:BA:1773:A:H2'	35:BA:1774:C:O4'	1.80	0.82
1:AA:1258:G:H2'	1:AA:1259:C:H6	1.45	0.82

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1037:G:H1	35:DA:1118:C:H42	1.28	0.82
51:BU:90:VAL:HG12	51:BU:91:ASP:H	1.45	0.82
56:DZ:166:SER:HB2	56:DZ:167:PRO:HA	1.61	0.82
39:BE:116:VAL:HG22	39:BE:122:PHE:HB2	1.62	0.82
6:CF:72:VAL:HG13	6:CF:73:ASN:H	1.44	0.82
18:AR:74:ARG:NE	18:AR:81:PHE:HA	1.94	0.82
12:CL:24:VAL:HG13	12:CL:98:TYR:CE2	2.15	0.82
43:BI:133:HIS:HB2	43:BI:134:PRO:HD3	1.62	0.82
40:DF:101:LEU:HD12	40:DF:102:PRO:HD2	1.61	0.82
5:AE:36:ASP:OD2	5:AE:38:GLN:HB2	1.79	0.82
31:D5:40:LYS:CE	31:D5:46:CYS:H	1.91	0.82
3:CC:189:ALA:HB3	3:CC:196:LEU:HB2	1.61	0.82
39:DE:173:VAL:HG12	39:DE:174:ASP:H	1.45	0.82
50:DT:80:SER:HB3	50:DT:81:PRO:HD3	1.62	0.82
28:B2:29:LYS:HA	28:B2:32:LEU:HD23	1.61	0.82
54:BX:36:LYS:HD2	54:BX:36:LYS:O	1.80	0.82
41:BG:76:SER:HB3	41:BG:84:LYS:H	1.44	0.82
47:BQ:24:GLY:N	47:BQ:101:ARG:HA	1.95	0.82
35:BA:2716:U:H2'	35:BA:2717:G:H8	1.45	0.82
44:BN:19:GLU:HG2	44:BN:56:ASN:O	1.78	0.82
4:AD:176:LEU:HG	4:AD:177:ASP:H	1.44	0.82
6:AF:72:VAL:HG13	6:AF:73:ASN:H	1.45	0.82
47:BQ:52:VAL:HG13	47:BQ:53:ALA:N	1.95	0.82
43:BI:5:LEU:HD21	43:BI:19:VAL:HG12	1.61	0.82
1:CA:1456:G:H2'	1:CA:1457:G:H5'	1.62	0.82
42:BH:26:VAL:O	42:BH:32:GLU:HA	1.80	0.82
35:BA:1378:A:O2'	35:BA:1379:A:H5'	1.80	0.82
35:DA:598:G:H5'	46:DP:15:ARG:HD2	1.62	0.82
38:DD:186:HIS:HD2	38:DD:188:GLU:H	1.24	0.82
39:DE:167:VAL:O	39:DE:168:MET:HG3	1.79	0.82
17:AQ:74:LEU:HD12	17:AQ:75:ARG:HG2	1.60	0.82
3:CC:90:GLU:O	3:CC:93:LYS:HB3	1.78	0.82
41:DG:38:VAL:H	41:DG:158:ALA:HB3	1.45	0.82
42:DH:136:ILE:H	42:DH:136:ILE:HD12	1.44	0.82
41:BG:2:PRO:O	41:BG:3:LEU:HB2	1.79	0.82
46:DP:62:LEU:H	46:DP:62:LEU:HD13	1.45	0.82
48:BR:41:ALA:HB1	48:BR:114:VAL:HG23	1.62	0.82
18:CR:25:THR:HG22	18:CR:42:ARG:NH1	1.95	0.82
18:AR:65:ILE:HD12	18:AR:66:LEU:N	1.94	0.82
20:CT:36:LEU:H	20:CT:36:LEU:HD22	1.45	0.82
41:DG:85:GLY:C	41:DG:87:PRO:HD3	2.00	0.81
35:BA:2850:A:H2'	35:BA:2851:A:C8	2.15	0.81

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
56:BZ:127:LYS:N	56:BZ:164:ALA:HB3	1.94	0.81
35:BA:94(A):G:C2'	35:BA:95:G:H5''	2.10	0.81
47:DQ:27:VAL:CG2	56:DZ:81:ARG:HH22	1.93	0.81
43:DI:81:VAL:HG21	43:DI:142:VAL:HG13	1.62	0.81
48:DR:60:LEU:HD23	48:DR:61:HIS:H	1.42	0.81
3:AC:52:LEU:HD23	3:AC:52:LEU:H	1.44	0.81
20:AT:26:ASN:HB2	20:AT:71:THR:HG23	1.62	0.81
19:AS:36:ARG:NH2	19:AS:75:ALA:HB3	1.95	0.81
25:CY:3:LEU:HD12	25:CY:3:LEU:H	1.45	0.81
40:DF:103:LYS:HG2	40:DF:106:ARG:NH2	1.95	0.81
1:AA:920:U:H1'	1:AA:1080:A:C2	2.13	0.81
46:BP:106:LEU:O	46:BP:107:LYS:HG2	1.78	0.81
35:BA:524:U:H2'	35:BA:524:U:O2	1.80	0.81
1:AA:683:G:H2'	1:AA:684:A:H8	1.43	0.81
32:B6:33:LYS:HA	32:B6:33:LYS:HE2	1.62	0.81
3:AC:90:GLU:O	3:AC:93:LYS:HB3	1.80	0.81
32:B6:10:LEU:CD1	34:B8:36:LYS:HD3	2.08	0.81
47:DQ:24:GLY:N	47:DQ:101:ARG:HA	1.95	0.81
35:DA:1419:A:O2'	35:DA:1420:U:H5''	1.79	0.81
35:BA:2572:A:H2'	39:BE:144:ARG:HG3	1.62	0.81
43:BI:133:HIS:HB2	43:BI:134:PRO:CD	2.09	0.81
35:DA:925:C:C2'	35:DA:926:A:H5''	2.09	0.81
8:CH:11:THR:HG23	8:CH:14:ARG:HH12	1.45	0.81
54:BX:65:ARG:NE	54:BX:65:ARG:HA	1.93	0.81
38:DD:77:ALA:CB	38:DD:97:TYR:HA	2.11	0.81
35:BA:1570:A:H2'	35:BA:1571:A:C8	2.14	0.81
41:DG:37:VAL:O	41:DG:94:LEU:HG	1.80	0.81
50:BT:80:SER:HB3	50:BT:81:PRO:HD3	1.62	0.81
10:AJ:49:VAL:O	10:AJ:60:ARG:HB3	1.79	0.81
35:BA:610:G:N2	35:BA:619:G:H1'	1.96	0.81
20:AT:84:LEU:O	20:AT:88:VAL:HG23	1.79	0.81
28:B2:30:ARG:H	28:B2:30:ARG:CD	1.90	0.81
1:AA:406:G:H1	1:AA:436:C:H42	1.28	0.81
12:CL:23:LYS:O	12:CL:24:VAL:HG23	1.81	0.81
56:BZ:177:PRO:O	56:BZ:178:GLU:HG3	1.80	0.81
12:CL:46:LYS:HG2	12:CL:47:LYS:H	1.45	0.81
46:DP:106:LEU:O	46:DP:107:LYS:HG2	1.79	0.81
1:CA:1412:C:H2'	1:CA:1413:A:H8	1.43	0.81
42:DH:158:HIS:CD2	42:DH:170:ARG:HA	2.15	0.81
35:DA:1697:G:H3'	35:DA:1698:A:H5''	1.62	0.81
31:D5:25:LEU:HD11	53:DW:19:LEU:HB3	1.62	0.81
19:CS:48:THR:HG22	19:CS:61:TYR:HA	1.59	0.81

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AD:5:ILE:O	4:AD:6:GLY:O	1.98	0.81
46:DP:121:LYS:O	46:DP:123:LEU:HD22	1.80	0.81
12:CL:51:ALA:O	12:CL:52:LEU:HD23	1.78	0.81
35:BA:2777:G:H5''	35:BA:2778:A:C5'	2.09	0.81
12:CL:21:LYS:HD2	12:CL:21:LYS:H	1.44	0.81
45:DO:22:ILE:HB	45:DO:40:VAL:HG12	1.63	0.81
35:DA:1773:A:H2'	35:DA:1774:C:O4'	1.79	0.81
35:BA:1899:G:N2	35:BA:1902:C:H41	1.78	0.81
38:DD:25:THR:HB	38:DD:82:ILE:H	1.45	0.81
34:B8:23:VAL:HG13	34:B8:47:LYS:O	1.80	0.81
27:B1:18:ILE:HG23	27:B1:42:GLN:O	1.80	0.81
28:D2:29:LYS:HA	28:D2:32:LEU:HD23	1.62	0.81
51:DU:88:ILE:C	51:DU:90:VAL:H	1.84	0.81
3:CC:148:GLY:HA3	3:CC:203:PHE:HB3	1.61	0.81
27:D1:64:ALA:O	27:D1:67:ILE:HG13	1.80	0.81
27:D1:88:LYS:C	27:D1:90:ILE:H	1.84	0.81
34:D8:23:VAL:HG12	34:D8:46:ARG:HH12	1.44	0.81
3:CC:16:ARG:CA	3:CC:16:ARG:HH11	1.93	0.81
35:DA:15:G:H2'	35:DA:16:G:H8	1.44	0.81
50:BT:13:ARG:HA	50:BT:13:ARG:CZ	2.10	0.81
35:BA:2732:G:C2'	35:BA:2733:A:H5'	2.11	0.81
1:CA:200:G:H1	1:CA:217:C:H42	1.25	0.81
31:B5:2:ALA:HB2	35:BA:2014:A:O2'	1.80	0.81
38:BD:25:THR:CG2	38:BD:81:ALA:HB1	2.11	0.81
39:DE:6:GLY:HA2	39:DE:51:PHE:CE2	2.16	0.81
47:DQ:119:ARG:HG2	47:DQ:120:ILE:HD13	1.63	0.81
52:DV:29:PRO:HD2	52:DV:32:THR:OG1	1.80	0.81
35:DA:389:G:H1	46:DP:71:VAL:CB	1.94	0.81
55:BY:76:CYS:SG	55:BY:77:PRO:HD3	2.21	0.81
2:CB:96:ARG:H	2:CB:96:ARG:CD	1.89	0.81
49:DS:55:ALA:O	49:DS:56:LEU:HB2	1.80	0.81
35:DA:2737:G:H2'	35:DA:2738:A:C8	2.12	0.81
1:AA:878:G:H5''	8:AH:89:PRO:HG2	1.63	0.81
35:DA:2220:G:H2'	35:DA:2221:G:H8	1.45	0.81
56:BZ:56:VAL:CG2	56:BZ:70:LEU:HG	2.09	0.81
35:BA:999:U:H5''	35:BA:1154:G:O6	1.80	0.81
28:D2:14:ARG:HG2	28:D2:15:LYS:N	1.96	0.81
47:DQ:28:ALA:HB2	47:DQ:67:ARG:HD2	1.62	0.81
56:DZ:48:PHE:HA	56:DZ:51:ALA:HB3	1.61	0.81
1:AA:976:G:H5'	1:AA:1358:U:O2'	1.80	0.81
35:BA:2128:C:H2'	35:BA:2173:A:O2'	1.80	0.81
43:BI:111:PRO:O	43:BI:112:LYS:HG3	1.81	0.81

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:CH:119:LEU:N	8:CH:119:LEU:HD23	1.94	0.81
35:DA:521:G:H2'	35:DA:522:G:C8	2.16	0.81
35:DA:2732:G:C2'	35:DA:2733:A:H5'	2.11	0.81
1:CA:1182:G:H4'	1:CA:1184:G:OP1	1.80	0.81
35:DA:460:A:H2'	35:DA:461:C:O4'	1.80	0.81
37:BC:70:LYS:HB3	37:BC:72:VAL:HG23	1.62	0.81
5:CE:8:GLU:HA	5:CE:34:VAL:HG22	1.62	0.81
54:BX:62:LYS:HB2	54:BX:68:ARG:HB2	1.61	0.81
56:BZ:157:LEU:HD23	56:BZ:158:PRO:HD2	1.60	0.81
52:BV:28:GLU:HB2	52:BV:29:PRO:CD	2.10	0.81
56:DZ:146:ILE:HA	56:DZ:174:VAL:HB	1.62	0.81
56:DZ:73:GLN:HG2	56:DZ:74:VAL:N	1.96	0.81
3:CC:53:ALA:HB2	3:CC:115:LEU:HD21	1.62	0.81
52:BV:83:ARG:HG2	52:BV:83:ARG:NH1	1.88	0.81
56:BZ:116:VAL:HG12	56:BZ:117:LEU:H	1.44	0.81
44:BN:56:ASN:HA	44:BN:124:ALA:HA	1.62	0.81
4:AD:18:LYS:NZ	4:AD:33:MET:HB3	1.96	0.81
1:AA:737:A:H2'	1:AA:738:C:H6	1.45	0.81
33:B7:9:ARG:HH12	35:BA:1309:G:H3'	1.44	0.81
43:DI:5:LEU:HD21	43:DI:19:VAL:HG12	1.61	0.81
9:CI:79:LEU:HD21	9:CI:102:LEU:HA	1.63	0.81
1:CA:1372:U:H5''	9:CI:71:SER:HB3	1.62	0.81
9:CI:4:TYR:HB2	9:CI:19:LEU:HB2	1.62	0.81
38:BD:77:ALA:HB2	38:BD:97:TYR:HA	1.61	0.81
1:CA:253:U:H2'	1:CA:254:G:H8	1.45	0.81
5:CE:139:LEU:HA	5:CE:142:LEU:HD12	1.62	0.81
1:AA:1112:C:O2	3:AC:179:ARG:HG2	1.81	0.81
35:BA:851:U:H2'	35:BA:852:G:H8	1.44	0.81
14:AN:16:PHE:HD2	14:AN:16:PHE:H	1.28	0.81
42:DH:144:VAL:O	42:DH:148:ILE:HG12	1.81	0.81
56:DZ:72:ARG:HG2	56:DZ:89:PHE:HB2	1.62	0.81
35:BA:27:G:N2	35:BA:512:G:H2'	1.94	0.81
2:CB:178:ARG:HH21	8:CH:74:PRO:HG3	1.46	0.81
4:AD:68:TYR:HA	4:AD:114:ARG:HD3	1.63	0.81
4:AD:8:VAL:O	4:AD:10:ARG:N	2.13	0.81
33:B7:34:ARG:HB3	33:B7:42:LEU:HD23	1.63	0.81
38:BD:76:PRO:HA	38:BD:118:VAL:HB	1.62	0.81
35:DA:1378:A:O2'	35:DA:1379:A:H5'	1.80	0.81
1:AA:392:G:H2'	1:AA:393:A:C8	2.15	0.81
31:B5:2:ALA:HA	35:BA:2015:A:H1'	1.62	0.81
20:CT:83:ARG:HA	20:CT:86:ARG:HB3	1.63	0.81
35:BA:1846:G:H5'	35:BA:1847:A:OP2	1.81	0.81

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:41:G:H2'	1:CA:42:G:H8	1.46	0.81
12:AL:51:ALA:O	12:AL:52:LEU:HD23	1.81	0.81
26:D0:40:GLN:NE2	26:D0:43:THR:HA	1.96	0.81
35:DA:132:G:H5'	35:DA:132:G:H8	1.46	0.81
35:DA:2712(A):A:H5'	35:DA:2713:A:OP2	1.80	0.81
38:DD:18:VAL:HG23	38:DD:211:ARG:NH2	1.95	0.81
41:DG:132:ASN:ND2	41:DG:157:ILE:HG13	1.96	0.81
35:DA:1494:A:H3'	35:DA:1494:A:N3	1.94	0.81
1:CA:1191:A:H5''	3:CC:4:LYS:NZ	1.96	0.81
40:BF:101:LEU:HD12	40:BF:102:PRO:HD2	1.63	0.81
1:AA:673:G:H5''	6:AF:87:ARG:NH1	1.95	0.81
35:BA:1133:U:O2	35:BA:1137:G:H5''	1.80	0.81
11:CK:43:SER:HA	11:CK:47:VAL:HG21	1.62	0.81
35:DA:2128:C:H3'	35:DA:2173:A:H1'	1.62	0.81
16:AP:14:ASN:N	16:AP:15:PRO:HD3	1.95	0.81
31:D5:11:THR:OG1	35:DA:1264:G:H5'	1.81	0.81
11:AK:96:ARG:HA	11:AK:99:GLN:HG2	1.61	0.81
35:DA:1270:C:H5''	35:DA:1271:G:O5'	1.81	0.81
57:DC:58:VAL:HG21	57:DC:166:ASP:H	1.46	0.81
12:AL:21:LYS:HD2	12:AL:21:LYS:H	1.46	0.81
2:AB:67:THR:HG21	2:AB:155:LEU:HG	1.61	0.81
35:BA:1709:U:H2'	35:BA:1710:C:H6	1.45	0.81
38:BD:265:PRO:HG2	38:BD:266:SER:H	1.44	0.81
35:DA:1788:C:H2'	35:DA:1789:A:H8	1.44	0.81
45:BO:36:GLY:N	45:BO:62:VAL:HB	1.96	0.81
39:BE:29:GLY:HA3	39:BE:180:ASN:HD21	1.43	0.81
28:D2:22:GLU:HG2	54:DX:5:TYR:HB2	1.61	0.81
28:D2:56:GLN:HA	28:D2:56:GLN:NE2	1.95	0.81
35:DA:2777:G:H5''	35:DA:2778:A:H5'	1.62	0.81
44:DN:46:VAL:HG13	44:DN:47:ALA:N	1.95	0.81
1:CA:1191:A:H5''	3:CC:4:LYS:HZ3	1.44	0.81
4:CD:28:SER:HB3	4:CD:29:PRO:HD2	1.61	0.81
25:AY:39:LEU:HA	25:AY:52:LEU:HB3	1.63	0.81
51:BU:6:THR:HG21	51:BU:10:ARG:HH21	1.46	0.81
44:DN:19:GLU:HG2	44:DN:56:ASN:O	1.81	0.81
35:DA:585:G:H2'	35:DA:1251:C:H42	1.45	0.81
51:DU:34:LYS:HE2	51:DU:34:LYS:HA	1.62	0.81
42:DH:16:SER:HB2	42:DH:27:LYS:HB2	1.62	0.81
35:BA:2802:G:O2'	35:BA:2803:C:H5''	1.81	0.81
35:DA:2186:G:H2'	35:DA:2187:G:H5''	1.62	0.81
7:CG:73:MET:HG2	7:CG:90:GLU:HA	1.63	0.81
50:DT:22:PHE:N	50:DT:22:PHE:HD2	1.78	0.80

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2476:A:C2'	35:DA:2477:C:H5''	2.10	0.80
46:BP:23:PRO:HB2	46:BP:33:ARG:HD3	1.62	0.80
20:AT:87:LYS:O	20:AT:91:LEU:HG	1.81	0.80
4:AD:105:VAL:HG21	4:AD:126:ILE:HD13	1.63	0.80
25:AY:84:ARG:HE	25:AY:92:PRO:HD2	1.46	0.80
35:DA:2245:U:H5'	35:DA:2246:G:H5'	1.61	0.80
55:BY:28:LYS:O	55:BY:38:ILE:HB	1.80	0.80
13:AM:120:LYS:HE3	13:AM:120:LYS:HA	1.63	0.80
8:CH:86:ILE:HG12	8:CH:135:CYS:HA	1.62	0.80
35:DA:2125:G:H21	35:DA:2173:A:N6	1.79	0.80
31:B5:40:LYS:NZ	31:B5:45:VAL:HA	1.97	0.80
8:CH:30:ARG:NH1	8:CH:30:ARG:HB3	1.95	0.80
35:BA:20:C:O2'	35:BA:21:A:H5'	1.81	0.80
5:AE:90:VAL:CG2	5:AE:121:LYS:HB3	2.12	0.80
35:BA:2795:G:H1	35:BA:2802:G:H1	1.28	0.80
35:DA:1846:G:H5'	35:DA:1847:A:OP2	1.81	0.80
14:CN:16:PHE:H	14:CN:16:PHE:HD2	1.29	0.80
1:CA:1258:G:H2'	1:CA:1259:C:H6	1.44	0.80
39:DE:11:MET:HB3	39:DE:24:THR:HA	1.61	0.80
43:BI:81:VAL:HG21	43:BI:142:VAL:HG13	1.63	0.80
10:CJ:49:VAL:O	10:CJ:60:ARG:HB3	1.82	0.80
35:DA:1567:A:H2'	38:DD:84:TYR:HE2	1.45	0.80
16:AP:19:ILE:HG22	16:AP:36:ILE:HG13	1.63	0.80
56:BZ:126:VAL:HA	56:BZ:164:ALA:HB3	1.63	0.80
41:BG:63:ILE:HD12	41:BG:64:THR:H	1.46	0.80
41:BG:73:ALA:H	41:BG:87:PRO:HD2	1.46	0.80
56:DZ:48:PHE:CE2	56:DZ:71:VAL:HG21	2.15	0.80
4:AD:108:LEU:HB3	4:AD:110:PHE:CE1	2.15	0.80
47:DQ:87:LYS:HG3	47:DQ:87:LYS:O	1.80	0.80
12:CL:84:LEU:HD23	12:CL:85:ILE:H	1.43	0.80
35:BA:2127:G:H4'	35:BA:2128:C:OP1	1.80	0.80
35:DA:2127:G:H4'	35:DA:2128:C:OP1	1.79	0.80
47:DQ:137:TYR:O	47:DQ:138:ASP:HB2	1.80	0.80
54:DX:65:ARG:CZ	54:DX:66:LEU:H	1.95	0.80
46:DP:143:GLY:C	46:DP:145:PRO:HD3	2.01	0.80
1:CA:728:A:H2'	1:CA:729:A:H8	1.46	0.80
39:DE:131:ALA:HB3	39:DE:134:ILE:HD11	1.63	0.80
35:BA:1509(B):A:H2'	35:BA:1510:G:H8	1.46	0.80
53:BW:75:TYR:CE1	53:BW:104:THR:HB	2.17	0.80
35:DA:963:U:H2'	35:DA:964:C:C6	2.16	0.80
45:DO:86:ILE:N	45:DO:86:ILE:HD12	1.95	0.80
3:CC:24:ALA:HB3	3:CC:29:TYR:HD1	1.46	0.80

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:DV:38:LEU:HD22	52:DV:40:LEU:H	1.45	0.80
39:BE:163:GLU:O	39:BE:165:VAL:HG23	1.80	0.80
44:DN:16:ILE:HG23	44:DN:54:VAL:HG22	1.61	0.80
1:CA:674:G:H2'	1:CA:675:A:H8	1.46	0.80
43:DI:102:SER:HB2	43:DI:109:ILE:CG1	2.11	0.80
18:AR:25:THR:HG22	18:AR:42:ARG:NH1	1.96	0.80
23:AW:42:C:H2'	23:AW:43:G:C8	2.15	0.80
51:DU:20:LEU:H	51:DU:20:LEU:HD22	1.44	0.80
11:CK:96:ARG:HA	11:CK:99:GLN:HG2	1.64	0.80
32:D6:33:LYS:HA	32:D6:33:LYS:HE2	1.61	0.80
13:AM:49:THR:H	13:AM:52:GLU:CD	1.85	0.80
35:DA:2801(A):A:H4'	35:DA:2802:G:H2'	1.61	0.80
1:CA:973:G:H3'	1:CA:974:A:H5''	1.62	0.80
1:CA:15:G:H2'	1:CA:16:A:H8	1.45	0.80
35:BA:2206:G:H21	35:BA:2207:G:H5'	1.44	0.80
54:DX:56:THR:N	54:DX:77:LYS:HG3	1.95	0.80
3:CC:52:LEU:HD23	3:CC:52:LEU:H	1.45	0.80
47:DQ:16:ARG:HG2	47:DQ:17:LEU:H	1.44	0.80
7:AG:86:GLN:HG2	23:AW:33:C:H5'	1.63	0.80
31:B5:44:THR:HG22	31:B5:45:VAL:N	1.96	0.80
5:CE:78:HIS:HE1	5:CE:143:ARG:H	1.27	0.80
35:BA:1914:C:H2'	35:BA:1915:U:O4'	1.81	0.80
35:BA:1230:C:H2'	35:BA:1231:G:H8	1.44	0.80
35:DA:1791:A:H5'	38:DD:206:LEU:HD13	1.63	0.80
44:BN:46:VAL:HG13	44:BN:47:ALA:N	1.96	0.80
35:DA:94(A):G:C2'	35:DA:95:G:H5''	2.10	0.80
54:DX:57:LEU:HB2	54:DX:76:ARG:HD2	1.63	0.80
45:DO:114:ILE:H	45:DO:114:ILE:CD1	1.95	0.80
49:BS:25:ARG:HB3	49:BS:88:ASP:OD1	1.82	0.80
35:BA:661:C:O3'	46:BP:18:ARG:HD2	1.82	0.80
6:AF:75:LEU:O	6:AF:79:LEU:HG	1.81	0.80
35:DA:564:C:H2'	35:DA:565:C:C6	2.17	0.80
13:CM:90:LEU:C	13:CM:92:HIS:H	1.81	0.80
53:DW:11:ARG:NH2	53:DW:98:LYS:HB3	1.96	0.80
1:CA:32:A:H2'	1:CA:33:A:C8	2.16	0.80
35:BA:15:G:H2'	35:BA:16:G:H8	1.44	0.80
1:CA:386:C:O2'	1:CA:387:U:H5'	1.82	0.80
35:DA:2802:G:O2'	35:DA:2803:C:H5''	1.82	0.80
1:AA:646:U:H2'	1:AA:647:C:C6	2.16	0.80
35:DA:1947:C:H2'	35:DA:1948:G:H8	1.46	0.80
35:BA:1697:G:H3'	35:BA:1698:A:H5''	1.61	0.80
7:AG:73:MET:HG2	7:AG:90:GLU:HA	1.62	0.80

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1755:A:C2	35:DA:2716:U:H1'	2.17	0.80
35:BA:1970:A:H5''	35:BA:1971:A:OP1	1.82	0.80
41:DG:43:LEU:HD22	41:DG:44:GLY:N	1.95	0.80
35:BA:2631:G:N2	39:BE:61:ARG:HH12	1.78	0.80
5:CE:51:VAL:HB	5:CE:52:PRO:HD3	1.63	0.80
35:BA:1755:A:H2	35:BA:2716:U:H1'	1.47	0.80
52:DV:83:ARG:HG2	52:DV:83:ARG:NH1	1.92	0.80
4:AD:176:LEU:CG	4:AD:177:ASP:H	1.94	0.80
3:AC:16:ARG:HH11	3:AC:16:ARG:CA	1.94	0.80
39:DE:152:LYS:HB3	44:DN:78:TYR:CD1	2.17	0.80
35:DA:581:C:H2'	35:DA:582:G:H8	1.47	0.80
39:BE:152:LYS:HB3	44:BN:78:TYR:CD1	2.15	0.80
35:DA:742:G:H2'	35:DA:743:G:C8	2.16	0.80
9:CI:95:LYS:HD3	9:CI:96:LEU:H	1.46	0.80
50:DT:13:ARG:HH12	50:DT:15:VAL:CG1	1.94	0.80
1:CA:1489:G:H2'	1:CA:1490:C:H6	1.45	0.80
13:AM:23:TYR:HE1	13:AM:71:ARG:HB2	1.47	0.80
1:CA:66:G:H4'	1:CA:173:U:C5	2.16	0.80
1:AA:1184:G:H2'	1:AA:1185:G:H8	1.47	0.80
1:CA:643:C:H5'	8:CH:31:PHE:CD1	2.15	0.80
35:BA:1971:A:H1'	38:BD:240:ALA:O	1.82	0.80
35:BA:729:G:O2'	35:BA:763:G:H4'	1.82	0.80
35:DA:1788:C:O2'	35:DA:1789:A:H5'	1.81	0.80
52:BV:61:VAL:HG21	52:BV:99:ILE:HB	1.64	0.80
55:DY:97:ARG:O	55:DY:97:ARG:HG3	1.80	0.80
48:DR:24:GLN:NE2	48:DR:36:THR:HG21	1.96	0.80
5:AE:51:VAL:HB	5:AE:52:PRO:HD3	1.62	0.80
2:CB:187:LEU:HD21	2:CB:204:ASN:O	1.79	0.80
1:CA:1492:A:H2'	1:CA:1493:A:C8	2.15	0.80
1:CA:192:U:H4'	20:CT:103:GLY:HA2	1.64	0.80
29:B3:8:LEU:HA	29:B3:54:VAL:HG22	1.62	0.80
31:D5:16:ARG:HG2	31:D5:16:ARG:HH11	1.46	0.80
35:BA:521:G:H2'	35:BA:522:G:C8	2.17	0.80
17:CQ:19:VAL:HG23	17:CQ:44:ALA:HB3	1.62	0.80
35:BA:686:G:N2	35:BA:788:A:H61	1.80	0.80
45:DO:1:MET:HG3	45:DO:32:TYR:CD2	2.16	0.80
35:DA:1777:U:O2'	35:DA:1778:U:H5'	1.82	0.80
45:BO:31:LYS:C	45:BO:32:TYR:HD1	1.85	0.80
45:BO:69:ILE:HD12	45:BO:77:ILE:O	1.79	0.80
32:D6:11:LEU:HG	32:D6:26:ASN:ND2	1.97	0.80
4:CD:108:LEU:HB3	4:CD:110:PHE:CE1	2.16	0.80
40:BF:108:LYS:O	40:BF:111:ALA:HB3	1.80	0.80

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2712(A):A:H5'	35:BA:2713:A:OP2	1.81	0.80
8:CH:68:ARG:HG3	8:CH:69:ARG:H	1.47	0.80
35:DA:1133:U:O2	35:DA:1137:G:H5''	1.82	0.80
55:BY:22:GLY:O	55:BY:23:ARG:HG3	1.82	0.80
8:AH:26:VAL:HG22	8:AH:32:LYS:NZ	1.96	0.80
1:AA:32:A:H2'	1:AA:33:A:C8	2.16	0.80
38:BD:142:VAL:HG23	38:BD:193:VAL:HA	1.63	0.80
35:BA:2636:U:H4'	39:BE:80:GLU:CD	2.02	0.80
35:BA:30:G:H2'	35:BA:31:C:C6	2.16	0.80
26:B0:25:ARG:HA	26:B0:29:GLN:HE22	1.47	0.80
1:CA:1278:U:H5''	1:CA:1279:A:O4'	1.82	0.80
39:BE:39:PRO:HA	39:BE:43:GLY:HA2	1.63	0.80
1:AA:1278:U:H5''	1:AA:1279:A:O4'	1.82	0.80
35:DA:1970:A:H5''	35:DA:1971:A:OP1	1.81	0.80
38:DD:267:SER:C	38:DD:269:PHE:H	1.82	0.80
54:BX:8:ILE:H	54:BX:8:ILE:HD12	1.47	0.80
35:DA:2631:G:N2	39:DE:61:ARG:HH12	1.79	0.80
27:B1:42:GLN:HG2	27:B1:43:TYR:N	1.96	0.80
4:CD:176:LEU:HG	4:CD:177:ASP:H	1.47	0.80
35:BA:814:C:H5''	52:BV:86:GLY:HA3	1.64	0.80
40:BF:53:THR:H	40:BF:56:GLU:CB	1.95	0.80
40:DF:155:LEU:HB2	40:DF:189:THR:HG21	1.62	0.80
18:CR:43:PHE:HA	18:CR:51:LEU:HD12	1.62	0.80
4:AD:28:SER:HB3	4:AD:29:PRO:HD2	1.62	0.80
43:BI:17:GLN:HG2	43:BI:18:VAL:H	1.43	0.80
35:BA:1378:A:H4'	35:BA:1379:A:OP1	1.80	0.80
12:AL:47:LYS:CB	12:AL:48:PRO:HD3	2.11	0.80
35:DA:1039:G:H1	35:DA:1116:C:N4	1.79	0.80
46:BP:112:LEU:HD22	46:BP:113:LYS:N	1.95	0.80
1:AA:683:G:H2'	1:AA:684:A:C8	2.17	0.80
35:BA:460:A:H2'	35:BA:461:C:O4'	1.81	0.80
1:AA:41:G:H2'	1:AA:42:G:H8	1.46	0.80
45:DO:69:ILE:HD13	45:DO:77:ILE:HG23	1.64	0.80
10:CJ:48:THR:OG1	10:CJ:62:HIS:HB3	1.82	0.80
38:DD:34:VAL:HG22	38:DD:35:LYS:HG3	1.63	0.80
36:DB:42:C:H1'	41:DG:92:VAL:HG23	1.64	0.80
39:BE:11:MET:H	50:BT:8:LYS:NZ	1.80	0.80
4:CD:68:TYR:HA	4:CD:114:ARG:HD3	1.64	0.80
35:DA:2393:A:H5'	46:DP:62:LEU:HB3	1.63	0.80
46:BP:45:LEU:HD23	46:BP:46:LYS:H	1.46	0.80
49:DS:20:ARG:HG3	49:DS:25:ARG:HD2	1.63	0.80
2:CB:208:ILE:HA	2:CB:211:ILE:HD12	1.62	0.80

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:DN:17:ASP:C	44:DN:19:GLU:H	1.84	0.80
1:CA:976:G:H5'	1:CA:1358:U:O2'	1.82	0.80
35:DA:30:G:H2'	35:DA:31:C:C6	2.17	0.80
33:B7:34:ARG:HD3	33:B7:42:LEU:HA	1.63	0.80
35:BA:2262:U:H2'	35:BA:2263:C:H5''	1.63	0.80
2:AB:171:ALA:HA	2:AB:174:VAL:CG2	2.12	0.80
13:AM:23:TYR:HD1	13:AM:67:GLU:HA	1.47	0.80
1:AA:892:A:H2'	1:AA:893:C:C6	2.17	0.80
35:BA:1947:C:H2'	35:BA:1948:G:H8	1.47	0.80
26:B0:40:GLN:NE2	26:B0:43:THR:HA	1.95	0.80
35:DA:292:C:H42	35:DA:348:G:H1	1.27	0.80
35:BA:229:A:H3'	35:BA:230:U:H5'	1.64	0.80
46:DP:17:LYS:O	46:DP:17:LYS:HG2	1.80	0.80
19:AS:41:VAL:HB	19:AS:44:MET:HB2	1.64	0.80
5:CE:19:MET:SD	5:CE:24:ARG:HG2	2.21	0.79
34:B8:22:VAL:HB	34:B8:53:PRO:CB	2.12	0.79
35:BA:251:A:H5''	46:BP:51:PHE:CZ	2.17	0.79
1:AA:386:C:O2'	1:AA:387:U:H5'	1.82	0.79
35:BA:1456:G:H2'	35:BA:1457:A:H8	1.46	0.79
8:AH:68:ARG:HG3	8:AH:69:ARG:H	1.47	0.79
35:DA:2533:A:C2'	35:DA:2534:A:H5''	2.12	0.79
1:AA:1240:U:H3	7:AG:30:ILE:HG22	1.46	0.79
25:AY:150:SER:O	25:AY:154:THR:HG23	1.82	0.79
13:AM:90:LEU:C	13:AM:92:HIS:H	1.81	0.79
7:CG:79:ARG:HE	7:CG:84:ASN:ND2	1.80	0.79
1:CA:683:G:H2'	1:CA:684:A:C8	2.17	0.79
13:AM:66:LEU:HA	13:AM:70:LEU:HD12	1.64	0.79
35:DA:291:C:H2'	35:DA:292:C:C6	2.16	0.79
35:BA:759:G:H2'	35:BA:760:G:H8	1.45	0.79
35:BA:1336:A:H2'	35:BA:1337:G:H8	1.47	0.79
41:DG:141:PHE:HD1	41:DG:142:PRO:HD2	1.44	0.79
47:DQ:35:VAL:HG23	47:DQ:102:VAL:HA	1.64	0.79
56:BZ:138:GLU:O	56:BZ:155:LEU:HD11	1.82	0.79
4:CD:120:LEU:N	4:CD:120:LEU:HD12	1.96	0.79
25:AY:38:LEU:HD12	25:AY:58:VAL:HG11	1.62	0.79
35:BA:2577:A:H5''	35:BA:2578:G:H5'	1.61	0.79
39:DE:108:SER:CB	39:DE:165:VAL:HG21	2.12	0.79
40:DF:63:LYS:NZ	40:DF:67:GLN:HB3	1.95	0.79
12:CL:84:LEU:HD23	12:CL:85:ILE:N	1.98	0.79
12:AL:24:VAL:HG13	12:AL:98:TYR:CE2	2.17	0.79
35:BA:2645:G:H3'	35:BA:2646:C:C5'	2.13	0.79
8:CH:122:ARG:HA	8:CH:125:ARG:HB3	1.63	0.79

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
11:AK:44:SER:H	11:AK:47:VAL:CG2	1.95	0.79
9:AI:4:TYR:HB2	9:AI:19:LEU:HB2	1.64	0.79
35:BA:1039:G:H1	35:BA:1116:C:N4	1.79	0.79
35:BA:540:C:H2'	35:BA:541:C:C6	2.18	0.79
46:BP:84:ASN:HA	46:BP:115:LEU:O	1.83	0.79
17:AQ:19:VAL:HG23	17:AQ:44:ALA:HB3	1.63	0.79
35:BA:291:C:H2'	35:BA:292:C:C6	2.17	0.79
1:AA:1329:A:P	13:AM:28:ALA:HB3	2.22	0.79
35:DA:1456:G:H2'	35:DA:1457:A:H8	1.45	0.79
13:CM:10:PRO:CG	13:CM:18:ALA:HB1	2.12	0.79
35:BA:914:C:H2'	35:BA:915:C:H5'	1.64	0.79
35:DA:1677:A:H2'	35:DA:1678:G:C8	2.16	0.79
54:DX:78:LYS:HD3	54:DX:78:LYS:O	1.81	0.79
56:DZ:33:LEU:HG	56:DZ:35:ARG:H	1.47	0.79
36:DB:74:U:C3'	36:DB:75:G:H5''	2.12	0.79
35:BA:1255:U:H5'	35:BA:1256:G:H5''	1.64	0.79
46:BP:30:THR:HG22	46:BP:31:ALA:N	1.96	0.79
48:DR:78:LYS:O	48:DR:83:ILE:HG12	1.81	0.79
48:BR:24:GLN:NE2	48:BR:36:THR:HG21	1.98	0.79
35:DA:8:A:C4	35:DA:9:U:H5	2.01	0.79
18:AR:50:ILE:HD12	18:AR:70:ILE:HG21	1.65	0.79
35:DA:20:C:O2'	35:DA:21:A:H5'	1.82	0.79
20:AT:104:LEU:HD23	20:AT:105:SER:N	1.98	0.79
1:AA:15:G:H2'	1:AA:16:A:H8	1.47	0.79
25:CY:68:VAL:HG23	25:CY:99:LEU:HB2	1.64	0.79
51:BU:20:LEU:H	51:BU:20:LEU:HD22	1.46	0.79
35:DA:208:C:H2'	35:DA:209:C:H6	1.47	0.79
1:AA:728:A:H2'	1:AA:729:A:H8	1.47	0.79
45:DO:2:ILE:HD11	45:DO:82:ASN:HB3	1.64	0.79
38:BD:25:THR:HB	38:BD:82:ILE:H	1.45	0.79
47:BQ:137:TYR:O	47:BQ:138:ASP:HB2	1.80	0.79
35:DA:2636:U:H4'	39:DE:80:GLU:CD	2.03	0.79
35:DA:2779:U:H1'	35:DA:2781:A:C5	2.17	0.79
49:BS:27:SER:HA	49:BS:89:ARG:HD2	1.64	0.79
44:BN:74:ARG:CZ	44:BN:101:HIS:HB3	2.13	0.79
46:BP:16:ARG:HD3	46:BP:18:ARG:H	1.48	0.79
40:DF:108:LYS:O	40:DF:111:ALA:HB3	1.82	0.79
2:AB:187:LEU:HD21	2:AB:204:ASN:O	1.83	0.79
55:DY:28:LYS:NZ	55:DY:37:VAL:HA	1.98	0.79
43:DI:133:HIS:HB2	43:DI:134:PRO:CD	2.12	0.79
1:AA:735:C:O2'	1:AA:736:C:H5'	1.83	0.79
8:CH:83:ILE:HB	8:CH:137:VAL:HG13	1.62	0.79

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2245:U:H5'	35:BA:2246:G:H5'	1.65	0.79
55:BY:14:LEU:HD12	55:BY:15:VAL:H	1.47	0.79
1:AA:636:U:H2'	1:AA:637:G:C8	2.17	0.79
43:DI:11:ASN:HD22	43:DI:12:LEU:HD22	1.46	0.79
35:BA:1037:G:H1	35:BA:1118:C:H42	1.29	0.79
35:BA:626:U:O2	46:BP:105:LEU:HG	1.81	0.79
46:BP:101:VAL:HG13	46:BP:102:ARG:H	1.46	0.79
31:B5:16:ARG:HH12	31:B5:17:ASP:CG	1.86	0.79
17:AQ:69:LYS:O	17:AQ:70:ARG:HD2	1.83	0.79
3:AC:84:ILE:HA	3:AC:87:LEU:HD12	1.64	0.79
4:CD:128:VAL:HG12	4:CD:129:ASN:H	1.47	0.79
2:CB:22:LYS:NZ	2:CB:22:LYS:HA	1.97	0.79
17:AQ:40:LYS:HD2	17:AQ:42:TYR:CZ	2.18	0.79
10:CJ:50:ILE:CD1	10:CJ:50:ILE:H	1.89	0.79
50:BT:22:PHE:HD2	50:BT:22:PHE:N	1.80	0.79
35:BA:2630:G:H1'	35:BA:2894:G:H1'	1.62	0.79
35:BA:528:A:H2	35:BA:2043:C:C5'	1.95	0.79
52:DV:37:VAL:HG12	52:DV:38:LEU:H	1.46	0.79
27:D1:10:LYS:HG3	27:D1:11:ARG:N	1.96	0.79
35:BA:1255:U:C5'	35:BA:1256:G:H5''	2.12	0.79
4:AD:11:LEU:C	4:AD:13:ARG:N	2.33	0.79
35:BA:2128:C:H3'	35:BA:2173:A:H1'	1.63	0.79
8:CH:11:THR:HA	8:CH:14:ARG:NH1	1.97	0.79
8:AH:30:ARG:CB	8:AH:30:ARG:HH11	1.94	0.79
35:BA:969:U:H2'	35:BA:970:C:C6	2.17	0.79
35:DA:969:U:H2'	35:DA:970:C:C6	2.18	0.79
2:AB:22:LYS:NZ	2:AB:22:LYS:HA	1.97	0.79
23:CW:17:C:H4'	23:CW:62:C:H5'	1.64	0.79
39:BE:11:MET:HB3	39:BE:24:THR:HA	1.64	0.79
51:BU:83:LEU:HG	51:BU:88:ILE:HG21	1.63	0.79
35:DA:2630:G:H1'	35:DA:2894:G:H1'	1.65	0.79
28:D2:26:ARG:NH2	54:DX:7:VAL:H	1.80	0.79
52:DV:61:VAL:HG21	52:DV:99:ILE:HB	1.63	0.79
49:BS:34:HIS:CD2	49:BS:53:SER:HB3	2.18	0.79
46:BP:45:LEU:HD22	46:BP:48:PRO:HB3	1.62	0.79
48:BR:95:THR:HA	48:BR:117:VAL:HB	1.64	0.79
1:CA:736:C:H2'	1:CA:737:A:H8	1.48	0.79
34:D8:22:VAL:HB	34:D8:53:PRO:CB	2.12	0.79
40:DF:65:TRP:CH2	40:DF:75:HIS:HD2	1.99	0.79
43:DI:98:ALA:HB1	43:DI:109:ILE:CB	2.12	0.79
43:BI:11:ASN:HD22	43:BI:12:LEU:HD22	1.46	0.79
8:AH:109:ILE:HG12	8:AH:110:ALA:N	1.98	0.79

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
12:AL:89:ARG:HB2	12:AL:89:ARG:NH1	1.96	0.79
54:DX:65:ARG:HA	54:DX:65:ARG:NE	1.94	0.79
38:BD:77:ALA:CB	38:BD:97:TYR:HA	2.13	0.79
50:DT:13:ARG:CZ	50:DT:13:ARG:HA	2.12	0.79
1:CA:1489:G:H2'	1:CA:1490:C:C6	2.18	0.79
13:CM:23:TYR:HD1	13:CM:67:GLU:HA	1.48	0.79
35:DA:999:U:H5''	35:DA:1154:G:O6	1.81	0.79
35:DA:635:C:H2'	35:DA:636:G:H8	1.48	0.79
32:B6:39:TYR:HE1	35:BA:2347:C:H4'	1.47	0.79
13:CM:49:THR:H	13:CM:52:GLU:CD	1.86	0.79
55:DY:45:VAL:CA	55:DY:62:GLU:HG2	2.08	0.79
35:BA:782:A:N3	38:BD:226:MET:HG2	1.97	0.79
38:BD:25:THR:CB	38:BD:82:ILE:H	1.96	0.79
52:DV:61:VAL:HB	52:DV:99:ILE:H	1.46	0.79
35:BA:663:G:H5''	46:BP:21:ARG:HE	1.47	0.79
35:BA:8:A:C4	35:BA:9:U:H5	2.00	0.79
1:CA:1074:G:H2'	1:CA:1075:C:H6	1.48	0.79
46:DP:101:VAL:HG13	46:DP:102:ARG:H	1.46	0.79
46:BP:143:GLY:C	46:BP:145:PRO:HD3	2.02	0.79
35:DA:491:G:H2'	35:DA:492:A:C8	2.16	0.79
3:AC:86:VAL:O	3:AC:90:GLU:HG2	1.83	0.79
35:DA:600:G:H1	35:DA:657:U:H3	1.26	0.79
16:AP:45:THR:HG22	16:AP:47:ASP:H	1.48	0.79
52:BV:29:PRO:HD2	52:BV:32:THR:OG1	1.81	0.79
12:AL:70:ILE:HD12	12:AL:70:ILE:N	1.97	0.79
35:BA:1419:A:O2'	35:BA:1420:U:H5''	1.82	0.79
31:B5:2:ALA:HB3	35:BA:747:U:C2	2.17	0.79
13:AM:10:PRO:CG	13:AM:18:ALA:HB1	2.13	0.79
35:BA:1301:A:O2'	35:BA:1302:A:H2'	1.82	0.79
1:CA:943:U:H2'	1:CA:944:G:H8	1.47	0.79
35:DA:1754:C:H5'	50:DT:101:PHE:CD1	2.18	0.79
38:DD:265:PRO:O	38:DD:267:SER:N	2.16	0.79
35:BA:2000:G:HO2'	35:BA:2689:U:H5	1.28	0.79
35:BA:813:U:H2'	35:BA:814:C:C6	2.17	0.79
35:BA:587:C:H3'	46:BP:33:ARG:HH12	1.45	0.79
35:BA:1414:G:H2'	35:BA:1415:U:C6	2.18	0.79
49:DS:25:ARG:HB3	49:DS:88:ASP:OD1	1.83	0.79
1:AA:543:C:H2'	1:AA:544:G:C8	2.18	0.79
2:AB:111:ARG:HG2	2:AB:111:ARG:HH11	1.48	0.79
46:DP:16:ARG:HD3	46:DP:18:ARG:H	1.48	0.79
8:AH:122:ARG:HA	8:AH:125:ARG:HB3	1.65	0.79
5:AE:139:LEU:HA	5:AE:142:LEU:HD12	1.63	0.79

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2558:C:H2'	35:DA:2559:C:H6	1.48	0.79
46:DP:59:LEU:HA	46:DP:61:ARG:CZ	2.13	0.79
11:CK:121:PRO:O	11:CK:126:ARG:HB2	1.82	0.79
50:DT:50:ILE:HG23	50:DT:99:LEU:CD1	2.12	0.79
35:BA:1779:U:C5	35:BA:1784:A:N7	2.51	0.79
41:DG:124:SER:HB3	41:DG:131:TYR:CE1	2.18	0.79
41:BG:131:TYR:O	41:BG:159:VAL:HG13	1.83	0.79
49:BS:61:ASN:HD22	49:BS:62:LYS:HE3	1.45	0.79
35:DA:956:G:OP2	47:DQ:85:LYS:HD2	1.83	0.79
35:BA:2173:A:OP2	35:BA:2173:A:H3'	1.83	0.79
18:AR:87:ARG:NH1	18:AR:87:ARG:HB3	1.98	0.79
42:DH:67:LEU:HG	42:DH:71:LEU:HD21	1.65	0.79
11:AK:29:ILE:HG22	11:AK:44:SER:CB	2.13	0.79
18:AR:56:THR:HB	18:AR:58:LEU:CD1	2.12	0.79
20:CT:84:LEU:O	20:CT:88:VAL:HG23	1.83	0.79
1:CA:665:A:H2'	1:CA:725:G:N2	1.98	0.79
19:CS:41:VAL:HB	19:CS:44:MET:HB2	1.65	0.79
2:CB:140:HIS:O	2:CB:143:GLU:HB2	1.83	0.79
45:DO:105:GLU:N	45:DO:105:GLU:OE1	2.16	0.78
45:DO:6:THR:HG22	45:DO:7:TYR:N	1.97	0.78
41:DG:91:ARG:C	41:DG:91:ARG:HD2	2.03	0.78
40:BF:46:ARG:HA	40:BF:46:ARG:HH11	1.48	0.78
47:BQ:16:ARG:HG2	47:BQ:17:LEU:H	1.48	0.78
20:AT:36:LEU:H	20:AT:36:LEU:HD22	1.46	0.78
6:CF:75:LEU:O	6:CF:79:LEU:HG	1.83	0.78
40:DF:84:VAL:O	40:DF:86:GLY:N	2.16	0.78
47:DQ:43:THR:HA	47:DQ:94:VAL:HG12	1.65	0.78
35:BA:2125:G:H21	35:BA:2173:A:N6	1.81	0.78
31:B5:45:VAL:HG22	31:B5:51:TYR:HD1	1.48	0.78
35:DA:268:C:H2'	35:DA:268:C:O2	1.82	0.78
29:B3:29:ARG:NH1	35:BA:1183:G:H4'	1.98	0.78
1:CA:1468:A:H2'	1:CA:1469:G:O4'	1.83	0.78
25:AY:73:GLN:HG3	25:AY:74:ASN:H	1.48	0.78
41:DG:12:TYR:HA	41:DG:16:ARG:NH1	1.99	0.78
35:BA:904:C:H2'	35:BA:904:C:O2	1.82	0.78
41:BG:61:ALA:HA	41:BG:64:THR:CG2	2.13	0.78
35:DA:528:A:N1	35:DA:2042:A:H2'	1.99	0.78
4:CD:105:VAL:HG21	4:CD:126:ILE:HD13	1.65	0.78
34:B8:59:LYS:C	34:B8:61:LEU:H	1.83	0.78
46:BP:39:LYS:HD2	46:BP:40:SER:H	1.48	0.78
2:AB:55:PHE:HA	2:AB:58:ILE:HB	1.65	0.78
1:AA:674:G:H2'	1:AA:675:A:H8	1.48	0.78

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AF:10:LEU:HA	6:AF:84:ASN:O	1.82	0.78
25:CY:169:ILE:O	25:CY:172:ALA:HB3	1.84	0.78
25:AY:152:ASP:O	25:AY:156:ARG:HG3	1.83	0.78
22:AV:30:A:H2'	22:AV:31:U:H6	1.45	0.78
38:BD:172:TYR:HD1	38:BD:186:HIS:HA	1.48	0.78
13:CM:23:TYR:HE1	13:CM:71:ARG:HB2	1.45	0.78
35:BA:2777:G:H5''	35:BA:2778:A:H5'	1.63	0.78
1:CA:41:G:H2'	1:CA:42:G:C8	2.19	0.78
35:DA:2795:G:H1	35:DA:2802:G:H1	1.29	0.78
20:AT:83:ARG:HA	20:AT:86:ARG:HB3	1.65	0.78
54:BX:12:VAL:HG11	54:BX:27:THR:HG23	1.65	0.78
29:D3:29:ARG:NH1	35:DA:1183:G:H4'	1.98	0.78
38:BD:265:PRO:O	38:BD:267:SER:N	2.16	0.78
38:DD:264:LYS:HE2	38:DD:266:SER:O	1.82	0.78
36:DB:42:C:O2	41:DG:93:THR:N	2.15	0.78
52:DV:19:LYS:HZ2	52:DV:20:LEU:H	1.31	0.78
35:BA:1494:A:N3	35:BA:1494:A:H3'	1.97	0.78
4:CD:59:ARG:HH22	4:CD:66:ARG:HH22	1.31	0.78
34:D8:13:ARG:CB	46:DP:63:PRO:HA	2.14	0.78
1:CA:1458:G:H2'	1:CA:1459:C:H6	1.45	0.78
35:DA:2645:G:H3'	35:DA:2646:C:C5'	2.12	0.78
35:DA:2173:A:OP2	35:DA:2173:A:H3'	1.83	0.78
5:AE:150:ARG:HB2	5:AE:150:ARG:NH1	1.98	0.78
35:BA:1930:G:H22	35:BA:1968:G:H2'	1.48	0.78
38:BD:231:HIS:ND1	38:BD:232:PRO:HD2	1.99	0.78
50:BT:28:VAL:HG13	50:BT:45:PHE:O	1.83	0.78
52:BV:15:GLU:HB3	52:BV:16:PRO:HD2	1.66	0.78
52:BV:61:VAL:HB	52:BV:99:ILE:H	1.48	0.78
51:DU:83:LEU:HG	51:DU:88:ILE:HG21	1.63	0.78
47:BQ:43:THR:HA	47:BQ:94:VAL:HG12	1.64	0.78
35:DA:1414:G:H2'	35:DA:1415:U:C6	2.19	0.78
1:AA:1478:C:H2'	1:AA:1479:C:C6	2.18	0.78
35:DA:587:C:H3'	46:DP:33:ARG:HH12	1.49	0.78
35:BA:1409:C:H2'	35:BA:1410:G:H8	1.46	0.78
1:CA:1346:A:H5''	9:CI:120:ARG:HH12	1.49	0.78
1:AA:1372:U:H5''	9:AI:71:SER:HB3	1.62	0.78
5:CE:150:ARG:HB2	5:CE:150:ARG:NH1	1.98	0.78
3:CC:84:ILE:HA	3:CC:87:LEU:HD12	1.63	0.78
35:BA:2781:A:C5'	35:BA:2782:G:H5'	2.12	0.78
35:BA:1602:U:H3'	35:BA:1603:A:C5'	2.13	0.78
1:AA:66:G:H4'	1:AA:173:U:C5	2.18	0.78
35:BA:1835:G:H5'	35:BA:1836:C:OP2	1.84	0.78

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:AI:79:LEU:HD21	9:AI:102:LEU:HA	1.63	0.78
39:DE:11:MET:H	50:DT:8:LYS:NZ	1.80	0.78
35:DA:2572:A:H2'	39:DE:144:ARG:HG3	1.64	0.78
39:BE:172:VAL:HG13	39:BE:182:LEU:HD11	1.66	0.78
35:BA:2315:G:H2'	35:BA:2316:C:C6	2.18	0.78
34:B8:50:LEU:H	34:B8:53:PRO:HG3	1.47	0.78
36:DB:7:G:H21	49:DS:38:GLN:HE22	1.28	0.78
2:AB:159:PRO:C	2:AB:161:ALA:H	1.87	0.78
2:CB:159:PRO:C	2:CB:161:ALA:H	1.86	0.78
51:DU:47:TYR:HD1	51:DU:50:ARG:HH22	1.32	0.78
13:CM:120:LYS:HE3	13:CM:120:LYS:HA	1.63	0.78
35:DA:1409:C:H2'	35:DA:1410:G:H8	1.46	0.78
33:D7:9:ARG:HH12	35:DA:1309:G:H3'	1.47	0.78
23:CW:19:G:C3'	23:CW:20:G:H5''	2.14	0.78
38:DD:163:ALA:HB1	38:DD:175:LEU:HD21	1.64	0.78
43:BI:57:ARG:HB3	43:BI:57:ARG:HH11	1.48	0.78
1:AA:1299:A:H2'	1:AA:1301:U:C6	2.17	0.78
26:D0:27:GLU:N	26:D0:69:PHE:HE1	1.81	0.78
1:CA:972:C:H4'	10:CJ:57:LYS:CG	2.14	0.78
1:CA:17:U:H1'	1:CA:1079:G:H21	1.47	0.78
10:CJ:4:ILE:HG23	10:CJ:98:ILE:HG23	1.66	0.78
35:BA:2393:A:H5'	46:BP:62:LEU:HB3	1.66	0.78
10:AJ:48:THR:OG1	10:AJ:62:HIS:HB3	1.83	0.78
27:B1:86:SER:HA	27:B1:89:GLU:CG	2.11	0.78
48:BR:20:LEU:HD12	48:BR:20:LEU:C	2.04	0.78
2:CB:55:PHE:HA	2:CB:58:ILE:HB	1.65	0.78
46:DP:30:THR:HG22	46:DP:31:ALA:N	1.97	0.78
13:CM:15:VAL:O	13:CM:19:LEU:HD23	1.83	0.78
35:DA:1786:A:C4	35:DA:1938:A:N6	2.51	0.78
35:BA:1717:G:H3'	35:BA:1718:G:H5''	1.63	0.78
1:CA:1431:C:H2'	1:CA:1432:G:O4'	1.82	0.78
47:DQ:20:ALA:HA	47:DQ:98:LYS:HB3	1.66	0.78
35:BA:873:G:H2'	35:BA:874:G:H8	1.47	0.78
35:BA:1011:G:OP1	51:BU:75:ASN:HB2	1.84	0.78
52:BV:19:LYS:NZ	52:BV:20:LEU:H	1.81	0.78
52:BV:37:VAL:HG12	52:BV:38:LEU:H	1.48	0.78
41:BG:101:ILE:HD11	41:BG:105:LYS:HE3	1.64	0.78
56:DZ:6:LYS:HB2	56:DZ:8:TYR:CE1	2.19	0.78
39:BE:116:VAL:HG21	39:BE:122:PHE:CD2	2.18	0.78
34:D8:50:LEU:H	34:D8:53:PRO:HG3	1.47	0.78
55:BY:15:VAL:HG12	55:BY:16:ALA:H	1.48	0.78
18:AR:53:ARG:HA	18:AR:56:THR:OG1	1.84	0.78

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
54:DX:64:LYS:HG2	54:DX:65:ARG:N	1.99	0.78
16:AP:82:GLN:HE21	16:AP:82:GLN:N	1.82	0.78
5:CE:82:VAL:HG21	5:CE:138:ALA:HA	1.65	0.78
5:CE:90:VAL:C	5:CE:91:LEU:HD12	2.04	0.78
1:AA:1182:G:H4'	1:AA:1184:G:OP2	1.84	0.78
35:BA:292:C:H42	35:BA:348:G:H1	1.29	0.78
13:AM:3:ARG:HA	13:AM:9:ILE:HG13	1.64	0.78
35:BA:635:C:H2'	35:BA:636:G:H8	1.48	0.78
8:AH:53:VAL:O	8:AH:56:LYS:HB2	1.84	0.78
50:DT:28:VAL:HG13	50:DT:45:PHE:O	1.83	0.78
38:BD:18:VAL:HG23	38:BD:211:ARG:NH2	1.98	0.78
38:DD:268:ARG:HB2	38:DD:268:ARG:NH1	1.97	0.78
35:DA:2315:G:H2'	35:DA:2316:C:C6	2.18	0.78
41:DG:111:LEU:CB	41:DG:112:PRO:HD3	2.10	0.78
50:BT:91:ARG:HA	50:BT:117:ASP:H	1.49	0.78
27:B1:86:SER:O	27:B1:90:ILE:HD11	1.84	0.78
55:DY:86:ARG:HB3	55:DY:88:LYS:HZ2	1.47	0.78
34:B8:6:THR:CG2	34:B8:63:PRO:HD3	2.14	0.78
4:CD:8:VAL:O	4:CD:10:ARG:N	2.17	0.78
43:DI:140:LEU:HD12	43:DI:141:LYS:N	1.98	0.78
46:BP:17:LYS:HG2	46:BP:17:LYS:O	1.82	0.78
27:D1:41:ARG:HH11	27:D1:41:ARG:HG3	1.48	0.78
1:CA:658:G:H1'	15:CO:22:THR:HB	1.66	0.78
25:CY:164:ILE:HD12	25:CY:164:ILE:H	1.49	0.78
12:CL:70:ILE:N	12:CL:70:ILE:HD12	1.99	0.78
46:DP:84:ASN:HA	46:DP:115:LEU:O	1.84	0.78
35:DA:2297:C:C2'	35:DA:2298:A:H5'	2.14	0.78
26:D0:43:THR:HG22	35:DA:2331:G:O2'	1.84	0.78
35:BA:30:G:H2'	35:BA:31:C:H6	1.48	0.78
35:DA:1602:U:H3'	35:DA:1603:A:C5'	2.14	0.78
35:BA:2873:A:H1'	48:BR:6:SER:HB2	1.66	0.78
35:BA:1290:C:H2'	35:BA:1291:C:H6	1.49	0.78
38:DD:31:LYS:NZ	38:DD:31:LYS:HA	1.98	0.78
1:AA:336:C:O2'	1:AA:337:C:H5'	1.83	0.78
7:AG:50:ILE:HB	7:AG:58:PRO:HD3	1.64	0.78
46:BP:64:LYS:O	46:BP:66:GLY:N	2.16	0.78
1:AA:1442(B):A:N3	1:AA:1442(B):A:H5''	1.99	0.78
47:BQ:134:ARG:HG2	47:BQ:135:ASP:H	1.49	0.78
54:BX:76:ARG:O	54:BX:76:ARG:HD3	1.83	0.78
39:DE:100:GLU:O	39:DE:172:VAL:HG23	1.83	0.78
39:DE:52:LEU:HD23	39:DE:75:VAL:CG2	2.13	0.78
41:BG:170:ARG:NH2	41:BG:182:LYS:HE2	1.99	0.78

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
51:DU:92:ARG:O	51:DU:94:ASN:N	2.17	0.78
4:CD:31:CYS:SG	4:CD:31:CYS:O	2.42	0.78
35:BA:1019:U:H2'	35:BA:1020:A:C8	2.18	0.78
35:BA:598:G:H5'	46:BP:15:ARG:HD2	1.63	0.78
39:BE:108:SER:CB	39:BE:165:VAL:HG21	2.13	0.78
8:CH:30:ARG:CB	8:CH:30:ARG:HH11	1.95	0.78
4:AD:5:ILE:HG22	4:AD:6:GLY:N	1.99	0.78
35:BA:1709:U:H2'	35:BA:1710:C:C6	2.18	0.78
39:DE:131:ALA:CB	39:DE:134:ILE:HD11	2.13	0.78
2:AB:140:HIS:O	2:AB:143:GLU:HB2	1.84	0.78
1:AA:1305:G:H5'	21:AU:4:GLY:HA3	1.64	0.78
35:DA:2312:U:O3'	41:DG:71:THR:HG21	1.83	0.78
35:BA:484:C:H2'	35:BA:485:C:H6	1.46	0.78
44:DN:39:ARG:HD3	44:DN:39:ARG:O	1.84	0.78
4:CD:163:GLU:O	4:CD:165:MET:N	2.17	0.78
4:CD:176:LEU:CG	4:CD:177:ASP:H	1.96	0.78
35:BA:1245:G:H3'	46:BP:16:ARG:HH22	1.49	0.78
35:DA:2415:G:H4'	46:DP:66:GLY:C	2.04	0.78
48:DR:20:LEU:HD12	48:DR:20:LEU:C	2.05	0.78
35:BA:1754:C:H5'	50:BT:101:PHE:CD1	2.18	0.78
1:AA:1347:G:H22	1:AA:1373:G:H2'	1.47	0.78
12:CL:47:LYS:CB	12:CL:48:PRO:HD3	2.13	0.78
1:AA:1116:C:C2'	1:AA:1117:G:H5''	2.14	0.78
56:BZ:17:ALA:CA	56:BZ:20:ARG:HB3	2.13	0.78
13:AM:15:VAL:O	13:AM:19:LEU:HD23	1.84	0.78
13:CM:3:ARG:HA	13:CM:9:ILE:HG13	1.64	0.78
37:BC:58:VAL:HG21	37:BC:166:ASP:H	1.47	0.78
22:AV:34:A:H2'	22:AV:35:A:C8	2.19	0.78
1:AA:1497:G:O2'	1:AA:1498:U:H5'	1.84	0.78
35:DA:2691:C:H6	35:DA:2691:C:H5'	1.49	0.78
35:DA:229:A:H3'	35:DA:230:U:H5'	1.65	0.78
35:DA:528:A:H2	35:DA:2043:C:C5'	1.96	0.77
1:CA:405:U:H3'	1:CA:406:G:H5'	1.66	0.77
48:BR:18:LEU:HD13	48:BR:19:ALA:N	1.99	0.77
46:DP:23:PRO:HB2	46:DP:33:ARG:HD3	1.66	0.77
3:CC:157:ILE:HB	3:CC:164:ARG:NH1	1.99	0.77
11:CK:44:SER:H	11:CK:47:VAL:HG21	1.49	0.77
11:AK:111:ASP:HA	18:AR:84:LYS:HG3	1.64	0.77
55:BY:28:LYS:HD2	55:BY:37:VAL:HG12	1.66	0.77
38:DD:129:ASN:O	38:DD:193:VAL:HG12	1.84	0.77
35:BA:1786:A:N7	35:BA:1938:A:N7	2.31	0.77
39:DE:101:ARG:HD3	39:DE:169:ASN:HD22	1.50	0.77

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:CM:49:THR:HB	13:CM:52:GLU:HG3	1.67	0.77
41:DG:144:ILE:CG1	41:DG:145:THR:H	1.96	0.77
45:BO:79:PHE:HA	50:BT:72:VAL:HG22	1.65	0.77
28:D2:27:GLU:C	28:D2:29:LYS:H	1.88	0.77
52:DV:34:GLU:HB3	52:DV:62:LEU:HD12	1.65	0.77
10:AJ:4:ILE:HG23	10:AJ:98:ILE:HG23	1.64	0.77
4:CD:134:ASP:O	4:CD:136:PRO:HD3	1.83	0.77
47:BQ:20:ALA:HA	47:BQ:98:LYS:HB3	1.66	0.77
55:BY:81:LYS:HG3	55:BY:97:ARG:HG2	1.66	0.77
2:AB:200:ILE:HG22	2:AB:202:PRO:HD3	1.66	0.77
35:DA:196:A:H5''	46:DP:46:LYS:HZ1	1.49	0.77
1:CA:1406:U:H2'	1:CA:1407:C:H6	1.49	0.77
25:CY:103:ILE:HD12	25:CY:103:ILE:O	1.84	0.77
12:CL:83:VAL:HG22	12:CL:84:LEU:N	1.98	0.77
7:AG:113:GLU:HB2	7:AG:119:ARG:HG2	1.65	0.77
5:AE:82:VAL:HG21	5:AE:138:ALA:HA	1.64	0.77
16:CP:82:GLN:HE21	16:CP:82:GLN:N	1.82	0.77
1:CA:1184:G:H2'	1:CA:1185:G:H8	1.50	0.77
35:BA:1230:C:H2'	35:BA:1231:G:C8	2.20	0.77
35:DA:2817:G:H21	35:DA:2836:U:H1'	1.49	0.77
35:DA:1750:G:O2'	35:DA:1751:C:H5'	1.84	0.77
15:AO:54:ARG:O	15:AO:58:MET:HG3	1.84	0.77
54:DX:12:VAL:HG11	54:DX:27:THR:HG23	1.66	0.77
35:DA:2715:C:H2'	35:DA:2716:U:C6	2.19	0.77
35:DA:1899:G:N2	35:DA:1902:C:H41	1.82	0.77
36:BB:74:U:C3'	36:BB:75:G:H5''	2.14	0.77
28:B2:56:GLN:HA	28:B2:56:GLN:HE21	1.49	0.77
48:BR:2:ARG:HD2	48:BR:2:ARG:O	1.84	0.77
50:BT:101:PHE:HD2	50:BT:102:ILE:N	1.82	0.77
55:DY:28:LYS:O	55:DY:38:ILE:HB	1.83	0.77
1:CA:1305:G:H5'	21:CU:4:GLY:HA3	1.65	0.77
12:AL:83:VAL:HG22	12:AL:84:LEU:N	1.99	0.77
55:BY:31:LEU:HB2	55:BY:36:ALA:H	1.48	0.77
12:CL:58:VAL:O	12:CL:65:GLU:HA	1.83	0.77
18:CR:53:ARG:HH12	18:CR:59:SER:HA	1.50	0.77
29:B3:56:VAL:HG12	29:B3:57:GLU:N	1.99	0.77
35:DA:759:G:H2'	35:DA:760:G:H8	1.49	0.77
35:BA:1270:C:H5''	35:BA:1271:G:C5'	2.13	0.77
5:AE:76:ILE:HG12	5:AE:77:PRO:HD2	1.66	0.77
27:D1:94:LEU:HD13	27:D1:95:LEU:H	1.50	0.77
17:AQ:54:GLY:HA3	17:AQ:82:MET:SD	2.24	0.77
38:BD:257:LEU:C	38:BD:257:LEU:HD23	2.05	0.77

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2716:U:H2'	35:DA:2717:G:C8	2.19	0.77
35:DA:2720:U:O2	35:DA:2720:U:H2'	1.83	0.77
1:AA:806:C:H2'	1:AA:807:A:C8	2.19	0.77
35:DA:729:G:C5	38:DD:208:LYS:HB2	2.20	0.77
52:BV:5:VAL:HG21	52:BV:36:PRO:HB2	1.66	0.77
49:BS:83:LYS:HG2	49:BS:105:ALA:CB	2.15	0.77
48:DR:41:ALA:HB1	48:DR:114:VAL:HG23	1.65	0.77
50:BT:109:GLU:HA	50:BT:112:ARG:CG	2.14	0.77
1:AA:1490:C:O2'	1:AA:1491:G:H5'	1.84	0.77
47:BQ:82:ARG:O	47:BQ:83:MET:HG2	1.84	0.77
1:AA:686:U:H1'	1:AA:687:A:N7	1.99	0.77
5:AE:19:MET:SD	5:AE:24:ARG:HG2	2.24	0.77
35:BA:2755:C:O2'	35:BA:2756:U:H2'	1.83	0.77
35:BA:2298:A:H2'	35:BA:2299:G:O4'	1.85	0.77
38:BD:133:LEU:HA	38:BD:136:ILE:HD12	1.66	0.77
1:CA:1424:C:H2'	1:CA:1425:U:C6	2.18	0.77
35:DA:1336:A:H2'	35:DA:1337:G:H8	1.50	0.77
12:CL:38:THR:HG22	12:CL:57:LYS:O	1.84	0.77
38:BD:165:ILE:HD12	38:BD:165:ILE:N	1.98	0.77
35:BA:268:C:H2'	35:BA:268:C:O2	1.83	0.77
38:BD:226:MET:HB3	38:BD:230:ASP:HB2	1.66	0.77
28:B2:52:ASP:O	28:B2:55:ARG:HB3	1.85	0.77
28:B2:55:ARG:HH22	54:BX:3:THR:HG23	1.49	0.77
27:B1:51:VAL:HG23	27:B1:62:VAL:HG11	1.66	0.77
56:DZ:6:LYS:HB2	56:DZ:8:TYR:HE1	1.49	0.77
46:DP:64:LYS:O	46:DP:66:GLY:N	2.17	0.77
40:BF:63:LYS:HZ1	40:BF:67:GLN:HB3	1.44	0.77
6:CF:33:TYR:HD1	6:CF:75:LEU:HG	1.48	0.77
35:DA:807:U:H2'	35:DA:808:G:H8	1.49	0.77
43:BI:102:SER:HB2	43:BI:109:ILE:CG1	2.13	0.77
9:CI:21:PRO:HA	9:CI:59:PHE:HA	1.66	0.77
40:BF:177:ALA:HB1	40:BF:178:PRO:HD2	1.67	0.77
32:B6:15:GLU:OE2	32:B6:41:PRO:HG3	1.85	0.77
5:AE:78:HIS:HE1	5:AE:143:ARG:H	1.30	0.77
20:CT:88:VAL:HA	20:CT:91:LEU:HD12	1.66	0.77
1:AA:41:G:H2'	1:AA:42:G:C8	2.20	0.77
35:DA:1570:A:H2'	35:DA:1571:A:C8	2.19	0.77
35:DA:1722:A:O2'	35:DA:1739:U:H5''	1.84	0.77
48:DR:99:LYS:O	48:DR:100:LEU:HD22	1.85	0.77
12:CL:119:LYS:HB2	12:CL:120:TYR:CD1	2.19	0.77
43:BI:140:LEU:HD12	43:BI:141:LYS:N	1.99	0.77
38:BD:35:LYS:HE2	38:BD:104:TYR:HB2	1.63	0.77

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
32:B6:11:LEU:HD11	32:B6:51:GLU:HB2	1.67	0.77
34:B8:25:MET:HE2	46:BP:64:LYS:HG3	1.65	0.77
28:B2:53:LEU:HA	28:B2:56:GLN:CG	2.13	0.77
54:BX:60:ARG:CG	54:BX:72:LYS:H	1.96	0.77
45:DO:119:PRO:HB2	50:DT:68:TYR:CE1	2.19	0.77
35:BA:666:G:H4'	46:BP:49:ARG:NH2	1.99	0.77
40:DF:69:HIS:O	40:DF:70:THR:HG23	1.84	0.77
35:DA:18:C:H2'	35:DA:19:C:H6	1.49	0.77
43:BI:133:HIS:ND1	43:BI:134:PRO:HD2	2.00	0.77
11:AK:43:SER:HA	11:AK:47:VAL:HG21	1.67	0.77
31:D5:44:THR:HG22	31:D5:45:VAL:N	2.00	0.77
9:CI:50:LEU:HD21	9:CI:81:ILE:CG2	2.14	0.77
46:DP:79:ARG:HH21	46:DP:109:GLY:HA3	1.50	0.77
35:BA:1938:A:C2	35:BA:2590:A:H1'	2.20	0.77
18:CR:87:ARG:NH1	18:CR:87:ARG:HB3	1.99	0.77
20:CT:26:ASN:HB2	20:CT:71:THR:HG23	1.66	0.77
29:B3:18:ASP:O	29:B3:21:ALA:HB3	1.84	0.77
38:BD:247:ALA:HA	38:BD:254:THR:HG22	1.67	0.77
38:DD:165:ILE:HD12	38:DD:165:ILE:N	1.99	0.77
35:DA:851:U:H2'	35:DA:852:G:H8	1.49	0.77
50:DT:96:ARG:HG2	50:DT:96:ARG:HH11	1.49	0.77
41:DG:102:PHE:CE1	41:DG:106:LEU:HD13	2.19	0.77
34:B8:13:ARG:CB	46:BP:63:PRO:HA	2.15	0.77
45:BO:2:ILE:HD11	45:BO:82:ASN:HB3	1.66	0.77
41:BG:114:ILE:HD12	41:BG:117:PHE:CG	2.19	0.77
41:BG:73:ALA:HB2	41:BG:87:PRO:HG2	1.65	0.77
34:D8:32:LEU:O	34:D8:33:ASN:HB3	1.84	0.77
52:DV:15:GLU:HB3	52:DV:16:PRO:HD2	1.66	0.77
1:CA:1190:G:P	3:CC:5:ILE:HG23	2.25	0.77
43:DI:79:ILE:CG1	43:DI:140:LEU:HD11	2.14	0.77
34:D8:23:VAL:HG13	34:D8:47:LYS:O	1.84	0.77
4:AD:174:LEU:N	4:AD:186:LEU:HD12	2.00	0.77
33:B7:8:ASN:HD22	33:B7:9:ARG:N	1.83	0.77
35:BA:925:C:H2'	35:BA:926:A:C5'	2.14	0.77
9:AI:95:LYS:HD3	9:AI:96:LEU:N	1.98	0.77
1:AA:1346:A:H5''	9:AI:120:ARG:HH12	1.49	0.77
11:CK:21:ILE:HD12	11:CK:21:ILE:N	1.99	0.77
35:DA:1270:C:H5''	35:DA:1271:G:C5'	2.14	0.77
35:BA:467:G:H2'	35:BA:468:G:H8	1.50	0.77
26:B0:43:THR:HG22	35:BA:2331:G:O2'	1.84	0.77
38:DD:167:GLY:H	38:DD:174:ILE:HB	1.50	0.77
25:CY:52:LEU:HD21	25:CY:56:ALA:HB3	1.65	0.77

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:BD:163:ALA:HB1	38:BD:175:LEU:HD21	1.65	0.77
11:AK:121:PRO:O	11:AK:126:ARG:HB2	1.85	0.77
11:CK:17:GLY:HA3	11:CK:80:VAL:HA	1.65	0.77
39:BE:33:VAL:CG1	39:BE:89:ASP:H	1.95	0.77
41:BG:47:LYS:HE3	41:BG:81:LYS:HB3	1.66	0.77
3:CC:6:HIS:ND1	14:CN:49:HIS:HB3	2.00	0.77
35:DA:8:A:H2'	35:DA:9:U:H6	1.50	0.77
1:CA:662:G:H2'	1:CA:663:A:H8	1.49	0.77
1:AA:405:U:H3'	1:AA:406:G:H5'	1.67	0.77
4:AD:59:ARG:HH22	4:AD:66:ARG:HH22	1.31	0.77
9:CI:9:ARG:HG3	9:CI:14:VAL:HG22	1.67	0.77
1:AA:528:C:H41	12:AL:49:ASN:HD22	1.29	0.77
35:DA:626:U:O2	46:DP:105:LEU:HG	1.84	0.77
46:BP:79:ARG:HH21	46:BP:109:GLY:HA3	1.50	0.77
35:BA:491:G:H2'	35:BA:492:A:C8	2.19	0.77
1:AA:665:A:H2'	1:AA:725:G:N2	2.00	0.77
38:DD:231:HIS:ND1	38:DD:232:PRO:HD2	1.99	0.77
35:BA:2521:C:H42	35:BA:2544:G:H1	1.32	0.77
16:CP:45:THR:HG22	16:CP:47:ASP:H	1.50	0.77
41:DG:41:GLN:NE2	41:DG:153:ARG:HB3	2.00	0.77
35:BA:2854:G:H2'	35:BA:2855:C:C6	2.19	0.77
39:DE:37:ARG:HB2	39:DE:46:ALA:HB3	1.66	0.77
41:BG:115:ARG:HH22	41:BG:136:ARG:HD2	1.48	0.77
10:AJ:4:ILE:HB	10:AJ:74:ILE:CD1	2.15	0.77
47:BQ:39:PRO:HB3	47:BQ:99:PRO:CD	2.10	0.77
35:BA:2820:A:C4'	48:BR:5:LYS:HE2	2.15	0.77
19:AS:70:LYS:HB3	19:AS:70:LYS:NZ	1.99	0.77
6:AF:76:ALA:HB1	6:AF:80:ARG:NH2	1.99	0.77
11:AK:59:TYR:CZ	11:AK:63:LEU:HD11	2.20	0.77
1:AA:192:U:H4'	20:AT:103:GLY:HA2	1.65	0.77
24:AX:13:A:O2'	24:AX:14:U:H5'	1.85	0.77
8:AH:25:ASP:HA	8:AH:59:LEU:O	1.84	0.77
31:D5:57:VAL:HG23	31:D5:58:LEU:H	1.50	0.77
9:CI:63:ILE:HD12	9:CI:63:ILE:H	1.50	0.77
56:BZ:110:GLY:C	56:BZ:112:ARG:N	2.37	0.77
35:DA:1378:A:H4'	35:DA:1379:A:OP1	1.82	0.77
35:DA:2558:C:H2'	35:DA:2559:C:C6	2.20	0.77
35:BA:1635:G:H5'	35:BA:1635:G:H8	1.48	0.77
1:CA:1478:C:H2'	1:CA:1479:C:C6	2.20	0.77
31:B5:25:LEU:HD11	53:BW:19:LEU:HB3	1.66	0.77
28:D2:30:ARG:H	28:D2:30:ARG:HD2	1.48	0.77
35:BA:963:U:H2'	35:BA:964:C:C6	2.20	0.77

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
50:DT:23:ARG:HG2	50:DT:120:ARG:NH1	2.00	0.77
39:BE:52:LEU:HD23	39:BE:75:VAL:CG2	2.15	0.77
44:BN:43:THR:HB	44:BN:46:VAL:HB	1.67	0.77
34:D8:32:LEU:HG	34:D8:34:TRP:HE3	1.50	0.77
51:DU:88:ILE:C	51:DU:90:VAL:N	2.38	0.77
4:CD:30:LYS:C	4:CD:32:ALA:N	2.39	0.77
44:DN:74:ARG:CZ	44:DN:101:HIS:HB3	2.15	0.77
35:BA:581:C:H2'	35:BA:582:G:H8	1.50	0.77
1:AA:59:A:C5'	1:AA:60:A:H5''	2.15	0.77
49:DS:27:SER:HA	49:DS:89:ARG:HD2	1.66	0.77
2:AB:36:ARG:HB3	2:AB:41:ILE:HD11	1.67	0.77
20:CT:104:LEU:HD23	20:CT:105:SER:N	1.99	0.77
40:BF:132:VAL:HG22	40:BF:133:ASN:N	2.00	0.77
9:AI:65:VAL:O	9:AI:66:ARG:HG3	1.85	0.77
7:AG:50:ILE:O	7:AG:54:THR:HG23	1.84	0.77
35:DA:1635:G:H8	35:DA:1635:G:H5'	1.50	0.77
35:DA:2562:U:H1'	45:DO:23:ARG:NH1	1.99	0.76
38:DD:27:THR:O	38:DD:28:GLU:HB2	1.83	0.76
39:BE:6:GLY:HA2	39:BE:51:PHE:CE2	2.19	0.76
28:D2:17:SER:OG	28:D2:18:PRO:HD3	1.83	0.76
56:DZ:120:ILE:O	56:DZ:121:HIS:HB2	1.83	0.76
49:BS:26:LEU:O	49:BS:26:LEU:HD23	1.86	0.76
1:AA:1410:G:H2'	1:AA:1411:C:H6	1.50	0.76
2:AB:95:GLN:HG3	2:AB:148:TYR:HA	1.66	0.76
1:CA:553:A:H2'	1:CA:554:C:C6	2.20	0.76
9:AI:63:ILE:HD12	9:AI:63:ILE:H	1.48	0.76
18:CR:56:THR:HB	18:CR:58:LEU:CD1	2.13	0.76
46:DP:112:LEU:HD22	46:DP:113:LYS:H	1.50	0.76
38:DD:172:TYR:HD1	38:DD:186:HIS:HA	1.50	0.76
1:CA:198:G:H2'	1:CA:199:G:C8	2.20	0.76
35:BA:1364:G:H1'	35:BA:1368:G:N2	1.99	0.76
8:CH:53:VAL:O	8:CH:56:LYS:HB2	1.84	0.76
1:CA:1298:C:H4'	1:CA:1299:A:O4'	1.86	0.76
35:BA:1401:G:H2'	35:BA:1402:C:C6	2.20	0.76
35:DA:1639:U:H2'	35:DA:1640:C:H5''	1.66	0.76
43:BI:77:LEU:HB2	43:BI:140:LEU:CD1	2.13	0.76
38:BD:44:ASN:CB	38:BD:49:ILE:HA	2.15	0.76
41:DG:141:PHE:CD1	41:DG:142:PRO:HD2	2.20	0.76
35:BA:2415:G:H4'	46:BP:66:GLY:C	2.06	0.76
35:BA:2730:C:O2'	35:BA:2731:G:H5'	1.85	0.76
45:BO:6:THR:HG22	45:BO:7:TYR:H	1.50	0.76
56:BZ:103:ARG:HG3	56:BZ:136:PHE:CZ	2.20	0.76

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BE:37:ARG:HB2	39:BE:46:ALA:HB3	1.67	0.76
35:BA:587:C:C5	46:BP:33:ARG:HD2	2.20	0.76
1:CA:778:G:O2'	1:CA:779:C:H5'	1.84	0.76
35:DA:2036:C:C6	35:DA:2036:C:H5'	2.16	0.76
27:B1:26:ARG:HB2	27:B1:34:THR:OG1	1.85	0.76
25:AY:140:LEU:HD11	25:AY:157:ALA:HB1	1.65	0.76
1:CA:1073:U:H2'	1:CA:1074:G:H8	1.49	0.76
18:AR:52:PRO:O	18:AR:56:THR:HG23	1.85	0.76
42:BH:67:LEU:HG	42:BH:71:LEU:HD21	1.67	0.76
9:CI:95:LYS:HD3	9:CI:96:LEU:N	2.01	0.76
39:BE:101:ARG:HD3	39:BE:169:ASN:HD22	1.49	0.76
1:CA:255:G:H1'	17:CQ:16:GLN:NE2	1.99	0.76
31:D5:2:ALA:HB3	35:DA:747:U:C2	2.20	0.76
35:DA:2591:C:OP2	38:DD:239:ARG:HB2	1.85	0.76
35:BA:2779:U:H1'	35:BA:2781:A:C5	2.20	0.76
1:AA:1406:U:H2'	1:AA:1407:C:O4'	1.86	0.76
35:BA:705:A:H1'	38:BD:9:TYR:CE1	2.19	0.76
35:DA:1717:G:H3'	35:DA:1718:G:H5''	1.66	0.76
2:CB:29:ALA:O	2:CB:31:TYR:N	2.18	0.76
35:DA:1314:C:H6	35:DA:1314:C:H5'	1.51	0.76
35:DA:1639:U:C2'	35:DA:1640:C:H5''	2.15	0.76
51:BU:92:ARG:O	51:BU:94:ASN:N	2.18	0.76
35:BA:2220:G:H2'	35:BA:2221:G:H8	1.48	0.76
35:BA:2052:G:H2'	35:BA:2053:G:H8	1.51	0.76
34:D8:25:MET:HE2	46:DP:64:LYS:HG3	1.67	0.76
40:BF:53:THR:CG2	40:BF:56:GLU:HB2	2.15	0.76
47:BQ:108:GLY:HA3	56:BZ:116:VAL:HG21	1.67	0.76
2:CB:36:ARG:HB3	2:CB:41:ILE:HD11	1.66	0.76
2:CB:71:VAL:HG21	2:CB:93:VAL:HG23	1.66	0.76
20:AT:100:ILE:HD12	20:AT:100:ILE:N	1.99	0.76
9:AI:112:LYS:HA	9:AI:119:ALA:HB2	1.67	0.76
35:DA:1914:C:H2'	35:DA:1915:U:O4'	1.85	0.76
39:BE:167:VAL:HG22	39:BE:168:MET:H	1.50	0.76
1:AA:1074:G:H2'	1:AA:1075:C:H6	1.50	0.76
1:CA:313:A:H2'	1:CA:314:C:C6	2.20	0.76
35:DA:97:C:H2'	35:DA:98:G:C8	2.21	0.76
2:CB:19:HIS:HA	2:CB:39:ILE:HD13	1.67	0.76
38:DD:257:LEU:C	38:DD:257:LEU:HD23	2.06	0.76
1:CA:764:C:H2'	1:CA:765:G:H8	1.50	0.76
35:DA:1112:G:H1'	35:DA:1113:U:OP2	1.85	0.76
35:BA:1722:A:O2'	35:BA:1739:U:H5''	1.84	0.76
51:BU:88:ILE:C	51:BU:90:VAL:H	1.87	0.76

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
54:BX:57:LEU:HD12	54:BX:76:ARG:NE	2.00	0.76
40:DF:3:GLU:HB2	40:DF:24:LEU:HG	1.68	0.76
1:AA:1423:G:H5'	45:BO:49:ARG:NH2	2.01	0.76
35:BA:8:A:H2'	35:BA:9:U:H6	1.50	0.76
1:CA:735:C:O2'	1:CA:736:C:H5'	1.85	0.76
35:DA:813:U:H2'	35:DA:814:C:C6	2.21	0.76
51:DU:18:LEU:O	51:DU:18:LEU:HD23	1.86	0.76
51:DU:6:THR:HG21	51:DU:10:ARG:HH21	1.48	0.76
35:DA:2755:C:O2'	35:DA:2756:U:H2'	1.86	0.76
9:CI:112:LYS:HA	9:CI:119:ALA:HB2	1.67	0.76
8:AH:86:ILE:HG12	8:AH:135:CYS:HA	1.65	0.76
9:AI:50:LEU:HD21	9:AI:81:ILE:CG2	2.14	0.76
1:CA:528:C:H41	12:CL:49:ASN:HD22	1.34	0.76
46:BP:83:VAL:HG12	46:BP:112:LEU:HD21	1.66	0.76
47:DQ:82:ARG:O	47:DQ:83:MET:HG2	1.85	0.76
31:D5:2:ALA:HA	35:DA:2015:A:C1'	2.15	0.76
1:CA:1435:G:H2'	1:CA:1436:U:C5	2.20	0.76
35:DA:1614:A:C2	53:DW:87:PRO:HB3	2.20	0.76
35:DA:1709:U:H2'	35:DA:1710:C:H6	1.49	0.76
1:AA:1088:G:H2'	1:AA:1089:G:H8	1.50	0.76
50:DT:65:LYS:HA	50:DT:65:LYS:HZ2	1.48	0.76
38:DD:65:ILE:HD12	38:DD:65:ILE:C	2.06	0.76
45:BO:63:VAL:CG2	45:BO:84:ALA:HA	2.13	0.76
39:BE:30:PRO:HD3	39:BE:180:ASN:ND2	1.99	0.76
54:BX:36:LYS:O	54:BX:38:GLU:N	2.18	0.76
27:B1:19:GLN:HE21	35:BA:379:G:N2	1.81	0.76
56:DZ:33:LEU:HD21	56:DZ:35:ARG:HB2	1.65	0.76
35:DA:558:G:H2'	35:DA:559:G:H8	1.50	0.76
27:D1:47:GLN:HB3	27:D1:64:ALA:HB2	1.65	0.76
35:DA:2415:G:H4'	46:DP:66:GLY:CA	2.15	0.76
40:DF:185:ASP:HA	40:DF:188:ARG:HB3	1.67	0.76
35:DA:2243:U:H2'	35:DA:2244:U:H6	1.51	0.76
35:BA:742:G:H2'	35:BA:743:G:C8	2.18	0.76
8:CH:109:ILE:HG12	8:CH:110:ALA:N	2.00	0.76
1:CA:1053:G:O6	1:CA:1200:C:H5''	1.86	0.76
3:CC:86:VAL:O	3:CC:90:GLU:HG2	1.86	0.76
1:AA:1298:C:H4'	1:AA:1299:A:O4'	1.86	0.76
35:DA:431:U:O2'	35:DA:432:A:H5'	1.85	0.76
48:BR:103:ARG:HG2	48:BR:103:ARG:HH11	1.50	0.76
1:CA:646:U:H2'	1:CA:647:C:C6	2.20	0.76
16:CP:14:ASN:N	16:CP:15:PRO:HD3	1.99	0.76
17:CQ:97:SER:O	17:CQ:98:LEU:HG	1.84	0.76

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:877:U:H2'	35:DA:878:A:H5''	1.65	0.76
38:BD:34:VAL:HG22	38:BD:35:LYS:HG3	1.66	0.76
34:B8:39:LYS:HG2	34:B8:42:ARG:NH1	2.00	0.76
34:B8:23:VAL:HG12	34:B8:46:ARG:HH12	1.51	0.76
10:AJ:48:THR:HG22	10:AJ:49:VAL:H	1.51	0.76
39:DE:102:VAL:HA	39:DE:200:GLU:HA	1.68	0.76
42:BH:85:LYS:O	42:BH:132:ARG:HA	1.85	0.76
35:DA:873:G:H2'	35:DA:874:G:C8	2.20	0.76
36:BB:7:G:H4'	49:BS:29:PHE:CD2	2.20	0.76
3:AC:6:HIS:ND1	14:AN:49:HIS:HB3	2.00	0.76
34:D8:13:ARG:HB3	46:DP:63:PRO:CA	2.14	0.76
1:CA:976:G:N2	1:CA:1362:C:H2'	2.01	0.76
25:AY:61:PRO:HD2	25:AY:65:THR:O	1.86	0.76
33:B7:34:ARG:NH1	33:B7:42:LEU:O	2.17	0.76
1:CA:636:U:H2'	1:CA:637:G:C8	2.20	0.76
8:AH:120:THR:OG1	8:AH:123:GLU:HG3	1.86	0.76
8:CH:25:ASP:HA	8:CH:59:LEU:O	1.85	0.76
31:B5:57:VAL:HG23	31:B5:58:LEU:H	1.49	0.76
38:DD:48:ARG:HG3	38:DD:48:ARG:HH11	1.51	0.76
1:CA:1116:C:C2'	1:CA:1117:G:H5''	2.16	0.76
1:AA:1239:A:H62	1:AA:1299:A:H62	1.33	0.76
1:CA:1299:A:H2'	1:CA:1301:U:C6	2.20	0.76
1:AA:1366:C:H2'	1:AA:1367:C:C6	2.21	0.76
2:CB:95:GLN:HG3	2:CB:148:TYR:HA	1.67	0.76
35:DA:2730:C:O2'	35:DA:2731:G:H5'	1.84	0.76
42:DH:85:LYS:O	42:DH:132:ARG:HA	1.86	0.76
54:DX:36:LYS:O	54:DX:38:GLU:N	2.18	0.76
1:CA:543:C:H2'	1:CA:544:G:H8	1.50	0.76
35:DA:588:U:H6	35:DA:588:U:O5'	1.68	0.76
12:CL:54:LYS:N	12:CL:54:LYS:HD2	2.00	0.76
35:DA:259:G:H21	35:DA:621:A:H8	1.33	0.76
1:AA:198:G:H2'	1:AA:199:G:C8	2.20	0.76
18:CR:86:VAL:HG12	18:CR:87:ARG:HH12	1.50	0.76
1:CA:328:C:H4'	1:CA:329:A:H5'	1.67	0.76
24:CX:16:U:H2'	24:CX:17:U:C6	2.20	0.76
2:AB:19:HIS:HA	2:AB:39:ILE:HD13	1.68	0.76
50:DT:109:GLU:HA	50:DT:112:ARG:CG	2.15	0.76
50:DT:91:ARG:HA	50:DT:117:ASP:H	1.50	0.76
41:DG:39:ILE:HA	41:DG:157:ILE:CA	2.16	0.76
47:DQ:34:LEU:HD12	47:DQ:35:VAL:H	1.50	0.76
50:BT:23:ARG:HG2	50:BT:120:ARG:NH1	2.01	0.76
42:DH:105:LEU:HD21	42:DH:113:VAL:HB	1.68	0.76

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
49:BS:89:ARG:HA	49:BS:89:ARG:NE	2.01	0.76
47:BQ:119:ARG:HG2	47:BQ:120:ILE:HD13	1.66	0.76
44:BN:58:ASP:C	44:BN:60:ILE:H	1.88	0.76
2:CB:72:GLY:HA3	2:CB:165:VAL:HG13	1.68	0.76
46:DP:38:GLN:CG	46:DP:39:LYS:H	1.99	0.76
40:DF:177:ALA:HB1	40:DF:178:PRO:HD2	1.67	0.76
1:AA:255:G:H1'	17:AQ:16:GLN:NE2	1.99	0.76
35:BA:2201:C:O2'	35:BA:2202:C:H5'	1.85	0.76
4:CD:5:ILE:O	4:CD:6:GLY:O	2.04	0.76
46:BP:59:LEU:HA	46:BP:61:ARG:CZ	2.16	0.76
43:BI:79:ILE:CG1	43:BI:140:LEU:HD11	2.16	0.76
34:B8:32:LEU:HG	34:B8:34:TRP:HE3	1.50	0.76
35:BA:528:A:N1	35:BA:2042:A:H2'	2.01	0.76
35:DA:2811:G:OP1	39:DE:60:ASN:HB2	1.85	0.76
54:DX:60:ARG:CG	54:DX:72:LYS:H	1.99	0.76
3:AC:9:GLY:O	3:AC:12:LEU:HB2	1.85	0.76
35:BA:564:C:H2'	35:BA:565:C:C6	2.21	0.76
35:BA:2821:A:H2'	35:BA:2822:G:C8	2.20	0.76
35:BA:1639:U:H2'	35:BA:1640:C:H5''	1.67	0.76
44:DN:34:LEU:HD21	44:DN:120:LEU:CB	2.15	0.76
44:BN:34:LEU:CD2	44:BN:120:LEU:HB2	2.14	0.76
55:DY:28:LYS:HZ2	55:DY:37:VAL:HG12	1.49	0.76
27:B1:33:LYS:HG2	27:B1:34:THR:H	1.50	0.76
25:AY:173:ASP:O	25:AY:177:GLU:HB2	1.85	0.76
25:AY:170:ALA:O	25:AY:174:GLN:HB3	1.86	0.76
12:AL:84:LEU:HD23	12:AL:85:ILE:N	2.01	0.76
1:CA:600:C:O2'	1:CA:601:C:H5'	1.85	0.76
25:CY:70:SER:HB3	25:CY:76:LEU:HB2	1.66	0.76
38:DD:135:PHE:HD1	38:DD:135:PHE:H	1.33	0.76
6:CF:53:ALA:HB3	6:CF:86:ARG:HH12	1.48	0.76
39:BE:167:VAL:O	39:BE:168:MET:HG3	1.84	0.76
17:CQ:40:LYS:HD2	17:CQ:42:TYR:CE1	2.20	0.76
39:BE:98:PRO:HG3	39:BE:175:VAL:HG12	1.67	0.76
1:AA:854:G:H3'	1:AA:871:U:O4	1.86	0.76
35:DA:2762:G:H2'	35:DA:2763:G:H5''	1.68	0.76
38:DD:45:ASN:CG	38:DD:46:GLN:H	1.85	0.76
38:DD:45:ASN:ND2	38:DD:46:GLN:H	1.84	0.76
38:DD:35:LYS:HE2	38:DD:104:TYR:HB2	1.68	0.76
41:DG:37:VAL:CG1	41:DG:94:LEU:HD12	2.16	0.76
35:BA:2415:G:H4'	46:BP:66:GLY:CA	2.15	0.76
45:BO:105:GLU:OE1	45:BO:105:GLU:N	2.19	0.76
35:BA:873:G:H2'	35:BA:874:G:C8	2.21	0.76

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
56:BZ:28:MET:CE	56:BZ:37:VAL:HG21	2.14	0.76
56:BZ:71:VAL:HG22	56:BZ:88:PHE:HE2	1.49	0.76
51:BU:93:LYS:H	51:BU:93:LYS:HD3	1.50	0.76
47:DQ:134:ARG:HG2	47:DQ:135:ASP:H	1.51	0.76
56:DZ:169:GLU:HG2	56:DZ:170:THR:N	2.00	0.76
19:CS:70:LYS:HB3	19:CS:70:LYS:NZ	2.00	0.76
25:AY:70:SER:HB3	25:AY:76:LEU:CD1	2.16	0.76
2:CB:169:LYS:HD3	2:CB:169:LYS:C	2.06	0.76
2:CB:200:ILE:HG22	2:CB:202:PRO:HD3	1.66	0.76
1:AA:1489:G:H2'	1:AA:1490:C:H6	1.51	0.76
20:CT:38:LYS:O	20:CT:41:ILE:HG12	1.86	0.76
20:CT:100:ILE:HD12	20:CT:100:ILE:N	2.00	0.76
39:DE:183:LEU:HD21	50:DT:11:GLU:HB3	1.68	0.76
35:BA:769:G:O2'	35:BA:770:G:H5'	1.86	0.76
12:AL:58:VAL:O	12:AL:65:GLU:HA	1.84	0.76
7:AG:79:ARG:HE	7:AG:84:ASN:ND2	1.82	0.76
54:BX:64:LYS:HG2	54:BX:65:ARG:N	1.99	0.76
35:DA:740:U:H2'	35:DA:741:G:H8	1.45	0.76
46:BP:112:LEU:HD22	46:BP:113:LYS:H	1.51	0.76
31:B5:16:ARG:HG2	31:B5:16:ARG:HH11	1.50	0.76
1:CA:59:A:C5'	1:CA:60:A:H5''	2.15	0.76
35:DA:1364:G:H1'	35:DA:1368:G:N2	2.01	0.76
1:CA:348:G:O2'	1:CA:349:A:H5'	1.86	0.76
35:DA:860:U:H5	35:DA:917:A:N7	1.84	0.76
38:BD:27:THR:O	38:BD:28:GLU:HB2	1.86	0.75
41:DG:46:ALA:HB2	41:DG:88:ILE:HB	1.67	0.75
41:DG:34:LEU:HD12	41:DG:99:MET:SD	2.25	0.75
56:BZ:125:LEU:HD23	56:BZ:126:VAL:N	2.00	0.75
39:DE:181:LEU:HD22	39:DE:181:LEU:N	2.01	0.75
27:B1:94:LEU:HD13	27:B1:95:LEU:O	1.85	0.75
40:BF:185:ASP:HA	40:BF:188:ARG:HB3	1.67	0.75
18:CR:50:ILE:HD12	18:CR:70:ILE:HG21	1.67	0.75
35:DA:30:G:H2'	35:DA:31:C:H6	1.50	0.75
43:BI:98:ALA:HB1	43:BI:109:ILE:CB	2.15	0.75
35:DA:925:C:H2'	35:DA:926:A:C5'	2.16	0.75
9:AI:21:PRO:HA	9:AI:59:PHE:HA	1.66	0.75
31:D5:45:VAL:HG22	31:D5:51:TYR:HD1	1.49	0.75
45:DO:121:VAL:C	45:DO:122:LEU:HD12	2.06	0.75
35:BA:1176:G:H1'	35:BA:1177:A:OP1	1.86	0.75
7:CG:113:GLU:HB2	7:CG:119:ARG:HG2	1.68	0.75
13:CM:23:TYR:CE1	13:CM:71:ARG:HB2	2.21	0.75
4:AD:5:ILE:HG22	4:AD:6:GLY:H	1.51	0.75

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2487:G:H2'	35:BA:2488:A:H8	1.51	0.75
1:AA:770:C:O2'	1:AA:771:G:H5'	1.86	0.75
31:D5:15:ARG:O	31:D5:18:ALA:HB3	1.86	0.75
1:AA:1271:G:H5'	1:AA:1314:C:H5''	1.67	0.75
35:DA:2873:A:H1'	48:DR:6:SER:HB2	1.66	0.75
38:BD:65:ILE:C	38:BD:65:ILE:HD12	2.07	0.75
32:B6:11:LEU:HG	32:B6:26:ASN:ND2	2.00	0.75
35:DA:1578:U:C3'	35:DA:1579:A:H5''	2.16	0.75
28:B2:33:MET:HG2	54:BX:10:ALA:HB2	1.68	0.75
35:DA:904:C:H2'	35:DA:904:C:O2	1.85	0.75
1:CA:429:U:H1'	1:CA:430:A:H5''	1.69	0.75
35:DA:2502:G:H5'	35:DA:2503:A:H5''	1.68	0.75
46:DP:47:ASP:HB3	46:DP:48:PRO:O	1.85	0.75
1:CA:551:U:H2'	1:CA:552:U:C6	2.21	0.75
12:AL:54:LYS:HD2	12:AL:54:LYS:N	2.00	0.75
1:AA:625:G:H2'	1:AA:626:U:C6	2.20	0.75
35:DA:2298:A:H2'	35:DA:2299:G:O4'	1.86	0.75
35:BA:1270:C:H5''	35:BA:1271:G:O5'	1.85	0.75
1:AA:878:G:H5'	8:AH:89:PRO:HG2	1.68	0.75
35:BA:18:C:H2'	35:BA:19:C:H6	1.51	0.75
35:BA:1484:G:C3'	35:BA:1485:G:H5''	2.16	0.75
35:BA:1750:G:O2'	35:BA:1751:C:H5'	1.86	0.75
35:DA:2103:C:C3'	35:DA:2104:G:H5''	2.16	0.75
35:BA:2720:U:H2'	35:BA:2720:U:O2	1.84	0.75
36:BB:91:C:H2'	36:BB:92:C:H6	1.51	0.75
35:BA:877:U:H2'	35:BA:878:A:H5''	1.66	0.75
35:BA:154:G:H1	35:BA:172:C:H42	1.34	0.75
35:DA:1509(B):A:H2'	35:DA:1510:G:H8	1.50	0.75
41:DG:110:ALA:CA	41:DG:140:ILE:HD13	2.16	0.75
35:DA:2303:G:H4'	41:DG:124:SER:O	1.85	0.75
39:BE:128:SER:O	39:BE:129:HIS:HB2	1.86	0.75
54:BX:51:VAL:HG13	54:BX:81:VAL:H	1.50	0.75
41:BG:93:THR:HG22	41:BG:95:ARG:HG3	1.68	0.75
35:DA:536:A:H2'	35:DA:537:C:C6	2.21	0.75
35:BA:2243:U:H2'	35:BA:2244:U:H6	1.50	0.75
55:BY:79:CYS:SG	55:BY:80:GLY:N	2.59	0.75
44:DN:23:LEU:HA	44:DN:26:LEU:HB3	1.66	0.75
44:BN:34:LEU:HD21	44:BN:120:LEU:CB	2.13	0.75
35:DA:792:G:H5''	35:DA:793:A:H5'	1.69	0.75
1:AA:403:C:H2'	1:AA:404:U:H6	1.52	0.75
47:DQ:16:ARG:HB3	47:DQ:16:ARG:NH1	2.01	0.75
25:AY:65:THR:HG23	25:AY:101:ILE:O	1.86	0.75

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:B1:32:LYS:HA	35:BA:2396:G:HO2'	1.52	0.75
8:AH:11:THR:HA	8:AH:14:ARG:NH1	2.01	0.75
1:CA:522:C:N4	1:CA:528:C:H42	1.84	0.75
12:CL:89:ARG:HB2	12:CL:89:ARG:NH1	2.00	0.75
1:CA:385:C:O2'	1:CA:386:C:H5'	1.86	0.75
56:DZ:79:ARG:HG2	56:DZ:80:ARG:HG2	1.68	0.75
35:DA:2857:G:N2	35:DA:2859:G:H3'	2.01	0.75
23:CW:27:G:H2'	23:CW:28:U:C6	2.21	0.75
35:BA:1446:C:H42	35:BA:1465:G:H1	1.34	0.75
41:DG:105:LYS:HB2	41:DG:105:LYS:HZ2	1.52	0.75
41:BG:131:TYR:OH	41:BG:133:LEU:HD23	1.85	0.75
54:DX:5:TYR:O	54:DX:7:VAL:N	2.19	0.75
35:DA:2781:A:H5''	35:DA:2782:G:H5'	1.68	0.75
1:CA:428:G:H4'	1:CA:429:U:O5'	1.87	0.75
20:AT:88:VAL:HA	20:AT:91:LEU:HD12	1.65	0.75
6:CF:10:LEU:HA	6:CF:84:ASN:O	1.86	0.75
35:BA:2533:A:C2'	35:BA:2534:A:H5''	2.16	0.75
1:AA:452:A:H4'	16:AP:72:ARG:NH2	2.02	0.75
1:AA:16:A:O2'	1:AA:17:U:H5'	1.87	0.75
33:D7:34:ARG:NH1	33:D7:42:LEU:O	2.20	0.75
35:BA:2297:C:C2'	35:BA:2298:A:H5'	2.16	0.75
5:CE:145:LYS:O	5:CE:148:VAL:HB	1.87	0.75
1:CA:375:U:H2'	1:CA:376:G:H8	1.52	0.75
35:DA:1403:C:H5''	35:DA:1471:A:C1'	2.16	0.75
35:BA:2307:G:N2	35:BA:2308:G:H5'	2.01	0.75
1:AA:337:C:H2'	1:AA:338:A:H8	1.50	0.75
1:CA:1088:G:H2'	1:CA:1089:G:H8	1.49	0.75
38:DD:226:MET:HB3	38:DD:230:ASP:HB2	1.67	0.75
35:BA:2729:G:H1'	39:BE:187:ALA:CB	2.16	0.75
55:DY:81:LYS:HG3	55:DY:97:ARG:HG2	1.67	0.75
51:DU:68:ALA:O	51:DU:71:GLN:HB3	1.87	0.75
19:CS:36:ARG:NH2	19:CS:75:ALA:HB3	2.00	0.75
40:BF:114:VAL:HG23	40:BF:115:ALA:N	2.01	0.75
25:AY:76:LEU:HA	25:AY:79:ILE:HD12	1.68	0.75
34:D8:23:VAL:HG12	34:D8:46:ARG:NH1	2.00	0.75
1:CA:735:C:H2'	1:CA:736:C:H6	1.51	0.75
13:CM:108:ARG:N	13:CM:108:ARG:HD2	2.02	0.75
13:CM:90:LEU:HA	13:CM:93:ARG:HB2	1.68	0.75
16:CP:26:ARG:NH1	16:CP:26:ARG:HB3	2.01	0.75
55:BY:28:LYS:HZ2	55:BY:37:VAL:HG12	1.51	0.75
25:CY:68:VAL:CG2	25:CY:99:LEU:HB2	2.16	0.75
1:CA:1347:G:H22	1:CA:1373:G:H2'	1.47	0.75

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:CI:65:VAL:O	9:CI:66:ARG:HG3	1.87	0.75
31:D5:16:ARG:HH12	31:D5:17:ASP:CG	1.89	0.75
1:CA:1436:U:H2'	1:CA:1437:C:C6	2.21	0.75
35:DA:1938:A:C2	35:DA:2590:A:H1'	2.21	0.75
13:AM:49:THR:HB	13:AM:52:GLU:HG3	1.67	0.75
3:AC:73:PRO:O	3:AC:76:VAL:HG22	1.86	0.75
31:B5:42:PRO:HB2	35:BA:2815:C:O2'	1.86	0.75
50:DT:101:PHE:HD2	50:DT:102:ILE:N	1.83	0.75
52:DV:61:VAL:HB	52:DV:99:ILE:N	2.01	0.75
49:BS:85:VAL:HG23	49:BS:86:ALA:H	1.52	0.75
4:CD:174:LEU:N	4:CD:186:LEU:HD12	2.02	0.75
52:BV:70:ILE:CB	52:BV:90:PRO:HB2	2.17	0.75
55:BY:75:ILE:HD13	55:BY:76:CYS:N	2.01	0.75
35:BA:2716:U:H2'	35:BA:2717:G:C8	2.20	0.75
49:DS:13:ARG:N	49:DS:13:ARG:HD2	2.02	0.75
49:DS:83:LYS:HG2	49:DS:105:ALA:CB	2.15	0.75
40:DF:53:THR:H	40:DF:56:GLU:CB	1.99	0.75
25:AY:7:TYR:CE2	25:AY:160:GLU:HG2	2.22	0.75
40:BF:170:LEU:HD12	40:BF:171:PRO:HD2	1.69	0.75
35:DA:1937:A:O2'	35:DA:1938:A:H5'	1.87	0.75
14:AN:16:PHE:CD2	14:AN:16:PHE:N	2.53	0.75
13:AM:23:TYR:CE1	13:AM:71:ARG:HB2	2.21	0.75
29:D3:18:ASP:O	29:D3:21:ALA:HB3	1.87	0.75
35:DA:1709:U:H2'	35:DA:1710:C:C6	2.21	0.75
29:D3:59:VAL:HG12	29:D3:60:GLU:N	2.02	0.75
6:AF:50:TYR:CE1	18:AR:77:GLY:HA2	2.22	0.75
6:AF:48:LEU:HD22	18:AR:77:GLY:HA3	1.69	0.75
35:BA:1112:G:H1'	35:BA:1113:U:OP1	1.86	0.75
1:AA:348:G:O2'	1:AA:349:A:H5'	1.85	0.75
38:DD:210:GLY:O	38:DD:211:ARG:HB3	1.87	0.75
16:CP:19:ILE:HG22	16:CP:36:ILE:HG13	1.68	0.75
41:DG:48:GLU:HG2	41:DG:49:ASP:H	1.52	0.75
10:CJ:4:ILE:HB	10:CJ:74:ILE:CD1	2.15	0.75
27:B1:83:GLU:HG3	27:B1:86:SER:H	1.52	0.75
56:DZ:150:LEU:HD23	56:DZ:171:ILE:HD11	1.67	0.75
40:BF:84:VAL:O	40:BF:86:GLY:N	2.19	0.75
1:AA:675:A:H1'	11:AK:116:HIS:CE1	2.22	0.75
50:BT:11:GLU:N	50:BT:11:GLU:CD	2.39	0.75
1:CA:1240:U:H3	7:CG:30:ILE:CG2	1.99	0.75
33:B7:25:PRO:HA	33:B7:28:ARG:NH2	2.02	0.75
42:DH:67:LEU:O	42:DH:71:LEU:HD13	1.87	0.75
13:AM:90:LEU:HA	13:AM:93:ARG:HB2	1.68	0.75

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:15:G:H2'	1:AA:16:A:C8	2.21	0.75
1:AA:1116:C:H2'	1:AA:1117:G:C5'	2.17	0.75
3:CC:155:GLY:HA3	3:CC:163:ALA:HB1	1.69	0.75
38:BD:255:LYS:HE3	38:BD:256:GLY:N	2.02	0.75
24:AX:21:G:H2'	24:AX:22:U:C5	2.21	0.75
35:DA:1644:C:O2'	35:DA:1645:G:H5'	1.87	0.75
16:AP:27:LYS:H	16:AP:27:LYS:HD2	1.52	0.75
35:DA:2316:C:H1'	41:DG:128:ARG:NH1	2.02	0.75
35:BA:1677:A:H2'	35:BA:1678:G:C8	2.22	0.75
45:BO:87:ILE:HD12	45:BO:91:LEU:C	2.06	0.75
39:DE:176:ILE:HB	39:DE:181:LEU:HD23	1.67	0.75
35:BA:2300:G:H1	35:BA:2316:C:H42	1.35	0.75
54:DX:51:VAL:HG13	54:DX:81:VAL:H	1.52	0.75
27:D1:78:LYS:HD2	27:D1:78:LYS:N	2.02	0.75
48:DR:24:GLN:HB2	48:DR:44:LEU:HD21	1.66	0.75
1:AA:1431:C:C2'	1:AA:1432:G:H5'	2.17	0.75
56:BZ:149:SER:CB	56:BZ:173:ALA:HA	2.16	0.75
19:AS:6:LYS:HD2	19:AS:6:LYS:H	1.50	0.75
25:CY:179:LYS:O	25:CY:182:GLU:HB2	1.86	0.75
7:CG:100:ALA:O	7:CG:104:LEU:HD23	1.87	0.75
1:CA:600:C:OP2	8:CH:97:VAL:HG12	1.85	0.75
23:AW:24:C:H6	23:AW:24:C:H5'	1.51	0.75
41:DG:4:ASP:HA	41:DG:8:LYS:HD3	1.69	0.75
35:DA:286:C:H2'	35:DA:286:C:O2	1.86	0.75
35:BA:2195:C:O2'	35:BA:2196:C:H5'	1.87	0.75
1:AA:1466:C:H2'	1:AA:1467:G:O4'	1.86	0.75
29:D3:52:HIS:CD2	36:DB:83:G:H4'	2.21	0.75
56:BZ:29:TYR:HE2	56:BZ:87:ASP:HB2	1.52	0.75
54:BX:40:LYS:HD2	54:BX:41:ASN:N	2.02	0.75
54:BX:47:PHE:O	54:BX:49:VAL:HG23	1.87	0.75
39:DE:61:ARG:HG2	39:DE:62:PRO:HD3	1.69	0.75
41:BG:43:LEU:HD23	41:BG:44:GLY:H	1.49	0.75
1:CA:737:A:H2'	1:CA:738:C:H6	1.47	0.75
16:AP:26:ARG:NH1	16:AP:26:ARG:HB3	2.02	0.75
35:BA:2475:C:H42	35:BA:2529:G:N2	1.84	0.75
19:CS:51:VAL:O	19:CS:57:HIS:HA	1.86	0.75
14:CN:16:PHE:N	14:CN:16:PHE:CD2	2.54	0.75
1:AA:1184:G:H2'	1:AA:1185:G:C8	2.22	0.75
35:BA:361:G:H2'	35:BA:362:U:H5''	1.68	0.75
35:DA:2661:G:H2'	35:DA:2662:A:C8	2.22	0.75
43:DI:49:ALA:HA	43:DI:52:ARG:HG2	1.68	0.75
1:AA:1264:C:H2'	1:AA:1265:G:H8	1.51	0.75

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AF:53:ALA:HB3	6:AF:86:ARG:HH12	1.49	0.75
45:DO:79:PHE:HA	50:DT:72:VAL:HG22	1.69	0.74
50:DT:62:THR:HG21	50:DT:75:ILE:HG13	1.69	0.74
34:B8:32:LEU:HG	34:B8:34:TRP:CE3	2.22	0.74
56:BZ:134:PRO:O	56:BZ:136:PHE:N	2.19	0.74
54:BX:78:LYS:O	54:BX:78:LYS:HD3	1.87	0.74
42:BH:122:THR:HB	42:BH:134:SER:HB2	1.69	0.74
52:DV:5:VAL:HG21	52:DV:36:PRO:HB2	1.67	0.74
32:D6:11:LEU:HD11	32:D6:51:GLU:HB2	1.67	0.74
4:CD:90:GLY:HA3	4:CD:204:ILE:HD11	1.69	0.74
18:CR:74:ARG:HE	18:CR:81:PHE:HA	1.51	0.74
35:DA:587:C:C5	46:DP:33:ARG:HD2	2.22	0.74
35:DA:832:G:O3'	46:DP:45:LEU:HD11	1.86	0.74
43:DI:133:HIS:HB2	43:DI:134:PRO:HD3	1.66	0.74
6:AF:60:PHE:C	6:AF:61:LEU:HD12	2.08	0.74
35:DA:1245:G:H3'	46:DP:16:ARG:HH22	1.50	0.74
25:CY:76:LEU:HD21	25:CY:99:LEU:HD21	1.68	0.74
35:DA:2475:C:H42	35:DA:2529:G:N2	1.85	0.74
53:DW:13:SER:HB3	53:DW:16:LYS:HD2	1.68	0.74
35:BA:1418:G:H1	35:BA:1579:A:H5'	1.52	0.74
35:DA:1484:G:C2'	35:DA:1485:G:H5''	2.16	0.74
35:BA:919:G:H4'	36:BB:81:G:O2'	1.86	0.74
27:B1:20:ARG:NH2	27:B1:41:ARG:HE	1.85	0.74
17:CQ:54:GLY:HA3	17:CQ:82:MET:SD	2.27	0.74
5:AE:152:ARG:HB3	8:AH:43:GLY:HA3	1.67	0.74
6:AF:82:ARG:HB2	6:AF:85:VAL:HG23	1.69	0.74
39:BE:102:VAL:HA	39:BE:200:GLU:HA	1.68	0.74
35:BA:2811:G:OP1	39:BE:60:ASN:HB2	1.87	0.74
52:BV:32:THR:HG22	52:BV:33:VAL:N	2.02	0.74
1:AA:972:C:H4'	10:AJ:57:LYS:CG	2.17	0.74
35:DA:71:A:H4'	35:DA:72:U:O5'	1.85	0.74
44:DN:43:THR:HB	44:DN:46:VAL:HB	1.67	0.74
3:CC:150:LYS:HG3	3:CC:169:ALA:HB2	1.69	0.74
35:DA:1019:U:H2'	35:DA:1020:A:C8	2.22	0.74
35:BA:797:C:H2'	35:BA:798:G:C8	2.23	0.74
47:BQ:43:THR:OG1	47:BQ:46:GLN:HG3	1.87	0.74
1:AA:328:C:H4'	1:AA:329:A:H5'	1.69	0.74
35:BA:1639:U:C2'	35:BA:1640:C:H5''	2.16	0.74
2:AB:185:ILE:HG22	2:AB:199:TYR:HB2	1.68	0.74
44:DN:58:ASP:C	44:DN:60:ILE:H	1.86	0.74
1:CA:675:A:H1'	11:CK:116:HIS:CE1	2.22	0.74
46:DP:45:LEU:HD23	46:DP:46:LYS:H	1.50	0.74

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
55:DY:15:VAL:HG12	55:DY:16:ALA:H	1.52	0.74
43:DI:115:ALA:H	43:DI:131:LYS:HE2	1.51	0.74
43:DI:115:ALA:N	43:DI:131:LYS:HE2	2.02	0.74
6:AF:33:TYR:CD1	6:AF:75:LEU:HG	2.23	0.74
18:AR:74:ARG:HE	18:AR:81:PHE:HA	1.52	0.74
8:CH:119:LEU:HB2	8:CH:123:GLU:HB2	1.68	0.74
26:B0:21:LEU:HD11	26:B0:41:ARG:HD3	1.68	0.74
55:BY:31:LEU:HD12	55:BY:33:LYS:N	2.00	0.74
5:AE:35:GLY:CA	5:AE:41:VAL:HG12	2.17	0.74
2:AB:169:LYS:C	2:AB:169:LYS:HD3	2.07	0.74
5:AE:102:ALA:HB2	5:AE:120:THR:OG1	1.87	0.74
35:DA:1484:G:C3'	35:DA:1485:G:H5''	2.16	0.74
5:CE:76:ILE:HG12	5:CE:77:PRO:HD2	1.68	0.74
5:CE:90:VAL:HG23	5:CE:121:LYS:HB3	1.67	0.74
13:AM:10:PRO:HG2	13:AM:18:ALA:HB1	1.69	0.74
9:AI:107:ARG:O	9:AI:108:VAL:HG13	1.87	0.74
38:DD:255:LYS:HE3	38:DD:256:GLY:N	2.02	0.74
35:BA:1550:C:H2'	35:BA:1551:C:H6	1.51	0.74
35:DA:191:A:O2'	35:DA:192:C:H5'	1.87	0.74
35:DA:1290:C:H2'	35:DA:1291:C:H6	1.50	0.74
13:CM:46:LYS:HG3	13:CM:47:ASP:H	1.52	0.74
35:BA:2102:U:H2'	35:BA:2103:C:C6	2.22	0.74
35:DA:2850:A:H2'	35:DA:2851:A:C8	2.21	0.74
1:CA:1222:G:H5''	19:CS:78:ARG:NH1	2.01	0.74
35:BA:729:G:C5	38:BD:208:LYS:HB2	2.22	0.74
1:CA:15:G:H2'	1:CA:16:A:C8	2.21	0.74
41:DG:144:ILE:CD1	41:DG:145:THR:H	2.00	0.74
35:BA:2728:U:O2'	35:BA:2729:G:H5'	1.88	0.74
52:BV:3:ALA:HB3	52:BV:14:VAL:HB	1.69	0.74
52:BV:38:LEU:CD2	52:BV:40:LEU:H	2.00	0.74
3:CC:112:SER:HB3	3:CC:115:LEU:CD1	2.17	0.74
40:BF:110:LEU:HD23	40:BF:110:LEU:O	1.87	0.74
2:AB:71:VAL:HG21	2:AB:93:VAL:HG23	1.68	0.74
44:DN:120:LEU:CD1	44:DN:122:VAL:HG23	2.17	0.74
35:DA:251:A:H5''	46:DP:51:PHE:CZ	2.22	0.74
6:AF:18:GLN:HA	6:AF:21:LEU:HD23	1.70	0.74
1:CA:939:G:C5'	7:CG:102:ARG:HH22	2.00	0.74
12:AL:119:LYS:HB2	12:AL:120:TYR:CD1	2.22	0.74
16:AP:8:ARG:HH11	16:AP:8:ARG:HG2	1.52	0.74
18:CR:53:ARG:HA	18:CR:56:THR:OG1	1.87	0.74
11:CK:84:VAL:HG23	11:CK:110:ASP:OD1	1.87	0.74
23:CW:59:A:H1'	23:CW:61:U:C5	2.22	0.74

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
26:D0:77:ARG:HH22	35:DA:857:C:H5'	1.52	0.74
26:B0:77:ARG:HH22	35:BA:857:C:H5'	1.50	0.74
35:DA:1528(A):A:H3'	35:DA:1529:G:H5''	1.69	0.74
36:DB:66:A:H61	36:DB:108:U:H2'	1.52	0.74
56:BZ:103:ARG:HG3	56:BZ:136:PHE:CE1	2.22	0.74
41:BG:173:LEU:HD12	41:BG:178:PHE:CE2	2.23	0.74
42:BH:149:ARG:HA	42:BH:162:ILE:HD11	1.70	0.74
35:BA:832:G:O3'	46:BP:45:LEU:HD11	1.87	0.74
35:BA:196:A:H5''	46:BP:46:LYS:HZ1	1.50	0.74
47:BQ:85:LYS:HG3	47:BQ:86:GLY:N	2.02	0.74
20:AT:38:LYS:O	20:AT:41:ILE:HG12	1.87	0.74
44:DN:34:LEU:CD2	44:DN:120:LEU:HB2	2.16	0.74
2:CB:185:ILE:HG22	2:CB:199:TYR:HB2	1.68	0.74
2:CB:69:LEU:HD22	2:CB:91:PRO:HB2	1.68	0.74
46:DP:39:LYS:HD2	46:DP:40:SER:H	1.51	0.74
4:AD:28:SER:HB3	4:AD:29:PRO:CD	2.17	0.74
35:DA:404:C:C4'	35:DA:405:U:H5'	2.18	0.74
25:AY:5:GLU:O	25:AY:9:GLU:HG3	1.85	0.74
1:AA:920:U:H2'	1:AA:921:U:C6	2.23	0.74
35:DA:540:C:H2'	35:DA:541:C:C6	2.22	0.74
1:AA:1073:U:H2'	1:AA:1074:G:H8	1.49	0.74
17:CQ:69:LYS:O	17:CQ:70:ARG:HD2	1.86	0.74
25:CY:115:VAL:O	25:CY:118:VAL:HG23	1.88	0.74
27:D1:94:LEU:CD1	27:D1:95:LEU:H	2.00	0.74
24:AX:21:G:H2'	24:AX:22:U:C6	2.22	0.74
35:BA:2103:C:C3'	35:BA:2104:G:H5''	2.17	0.74
35:DA:2464:C:HO2'	35:DA:2465:C:H6	1.33	0.74
40:DF:176:LEU:HD21	40:DF:180:GLY:O	1.87	0.74
35:DA:524:U:O2	35:DA:524:U:H2'	1.87	0.74
1:AA:148:G:H2'	1:AA:149:A:H8	1.51	0.74
35:DA:1835:G:H5'	35:DA:1836:C:OP2	1.87	0.74
35:DA:696:G:O2'	35:DA:697:C:H5'	1.87	0.74
41:DG:32:PRO:CB	41:DG:172:LEU:HD22	2.17	0.74
56:BZ:6:LYS:HE3	56:BZ:6:LYS:H	1.52	0.74
27:B1:13:ILE:HG13	27:B1:14:VAL:N	2.00	0.74
52:DV:28:GLU:HB2	52:DV:29:PRO:CD	2.10	0.74
49:BS:83:LYS:HA	49:BS:104:GLY:HA2	1.70	0.74
49:BS:13:ARG:N	49:BS:13:ARG:HD2	2.03	0.74
47:BQ:34:LEU:HD12	47:BQ:35:VAL:H	1.52	0.74
35:DA:2639:A:H2'	35:DA:2640:G:C5'	2.14	0.74
34:D8:39:LYS:HG2	34:D8:42:ARG:NH1	2.03	0.74
35:DA:2820:A:C8	39:DE:191:PRO:HB2	2.23	0.74

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:DR:24:GLN:HE22	48:DR:36:THR:HG21	1.50	0.74
48:BR:11:ASN:O	48:BR:12:ARG:HG3	1.87	0.74
49:DS:89:ARG:HA	49:DS:89:ARG:NE	2.03	0.74
27:D1:40:ARG:HG2	27:D1:41:ARG:N	2.01	0.74
6:CF:73:ASN:O	6:CF:76:ALA:HB3	1.87	0.74
1:AA:376:G:OP1	16:AP:6:LEU:HD13	1.86	0.74
20:AT:100:ILE:HD12	20:AT:100:ILE:H	1.52	0.74
43:DI:11:ASN:ND2	43:DI:12:LEU:HD22	2.03	0.74
1:CA:376:G:OP1	16:CP:6:LEU:HD13	1.87	0.74
35:BA:1403:C:H5''	35:BA:1471:A:C1'	2.17	0.74
1:CA:686:U:H1'	1:CA:687:A:N7	2.01	0.74
35:BA:1484:G:C2'	35:BA:1485:G:H5''	2.16	0.74
1:AA:313:A:H2'	1:AA:314:C:C6	2.22	0.74
39:BE:177:PRO:HG2	39:BE:178:GLU:OE1	1.87	0.74
35:BA:1876:A:H2'	35:BA:1877:A:C8	2.22	0.74
41:DG:166:ASP:O	41:DG:170:ARG:HB2	1.87	0.74
1:AA:1244:C:H2'	1:AA:1245:A:C8	2.22	0.74
26:D0:49:LYS:HB2	26:D0:80:HIS:HB3	1.68	0.74
54:DX:8:ILE:H	54:DX:8:ILE:HD12	1.50	0.74
32:D6:11:LEU:HG	32:D6:26:ASN:HD21	1.51	0.74
43:DI:87:LYS:NZ	43:DI:121:LYS:HG2	2.03	0.74
20:AT:18:GLN:O	20:AT:22:ARG:HG3	1.88	0.74
4:AD:26:CYS:HA	4:AD:31:CYS:HB2	1.69	0.74
1:AA:939:G:C5'	7:AG:102:ARG:HH22	1.99	0.74
35:BA:342:G:O2'	35:BA:343:C:H5''	1.86	0.74
11:AK:84:VAL:HG23	11:AK:110:ASP:OD1	1.87	0.74
1:CA:1074:G:H2'	1:CA:1075:C:C6	2.22	0.74
46:DP:84:ASN:ND2	46:DP:116:GLY:HA3	2.02	0.74
23:AW:10:G:H22	23:AW:27:G:H1'	1.49	0.74
1:CA:1508:G:H2'	1:CA:1509:C:C6	2.21	0.74
17:AQ:3:LYS:HD2	17:AQ:60:ILE:HD11	1.69	0.74
35:DA:1428:C:O2'	35:DA:1429:G:H5'	1.87	0.74
26:B0:27:GLU:N	26:B0:69:PHE:HE1	1.85	0.74
35:BA:286:C:O2	35:BA:286:C:H2'	1.88	0.74
43:BI:56:LYS:HA	43:BI:59:ALA:HB3	1.68	0.74
6:CF:82:ARG:HB2	6:CF:85:VAL:HG23	1.68	0.74
46:BP:90:ARG:HD2	46:BP:91:PHE:HD1	1.53	0.74
1:AA:137:C:H42	1:AA:226:G:H1	1.36	0.74
5:AE:57:LYS:O	5:AE:61:TYR:HB2	1.87	0.74
1:CA:1271:G:H5'	1:CA:1314:C:H5''	1.67	0.74
1:AA:179:A:H2'	1:AA:180:U:C6	2.23	0.74
23:CW:9:G:H2'	23:CW:10:G:N7	2.02	0.74

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:DD:229:VAL:HG23	38:DD:230:ASP:H	1.51	0.74
45:BO:35:VAL:HG21	45:BO:69:ILE:HG12	1.69	0.74
35:DA:2575:C:H5''	39:DE:144:ARG:HD3	1.70	0.74
54:BX:73:ARG:H	54:BX:74:PRO:HD3	1.53	0.74
39:DE:197:ILE:HG13	39:DE:199:ARG:HH12	1.53	0.74
40:DF:6:VAL:HG21	40:DF:124:LEU:HA	1.70	0.74
1:AA:1432:G:OP1	50:BT:107:ASP:HB2	1.87	0.74
48:BR:17:ARG:HH11	48:BR:17:ARG:HG2	1.51	0.74
2:AB:69:LEU:HD12	2:AB:71:VAL:HG23	1.70	0.74
4:AD:61:LYS:CA	4:AD:203:VAL:HG22	2.18	0.74
6:AF:99:ALA:HB3	18:AR:29:PHE:CE2	2.23	0.74
35:DA:1176:G:H1'	35:DA:1177:A:OP2	1.87	0.74
35:BA:549:G:C2'	35:BA:551:G:H5''	2.17	0.74
1:AA:383:A:C2'	1:AA:384:G:H5'	2.18	0.74
46:BP:115:LEU:HA	46:BP:134:ALA:CB	2.17	0.74
31:B5:2:ALA:HA	35:BA:2015:A:C1'	2.18	0.74
1:CA:665:A:H2'	1:CA:725:G:H22	1.50	0.74
35:DA:292:C:H2'	35:DA:293:U:H5'	1.70	0.74
2:CB:53:ARG:O	2:CB:56:ARG:HB2	1.88	0.74
35:BA:132:G:H5'	35:BA:132:G:H8	1.52	0.74
38:BD:25:THR:CG2	38:BD:82:ILE:H	2.00	0.74
1:AA:1190:G:H8	3:AC:3:ASN:ND2	1.86	0.74
28:D2:23:LYS:CA	54:DX:5:TYR:HE1	2.01	0.74
10:AJ:34:VAL:CG2	10:AJ:74:ILE:HG22	2.16	0.74
4:CD:17:VAL:HG12	4:CD:18:LYS:H	1.52	0.74
35:BA:259:G:H21	35:BA:621:A:H8	1.31	0.74
40:BF:3:GLU:HB2	40:BF:24:LEU:HG	1.67	0.74
27:D1:9:GLY:N	27:D1:48:LYS:NZ	2.36	0.74
35:BA:2691:C:H5'	35:BA:2691:C:H6	1.52	0.74
4:AD:197:PRO:HD3	6:CF:16:GLN:HG3	1.69	0.74
1:AA:976:G:N2	1:AA:1362:C:H2'	2.02	0.74
43:DI:133:HIS:ND1	43:DI:134:PRO:HD2	2.03	0.74
1:CA:1072:G:H2'	1:CA:1073:U:C6	2.22	0.74
45:BO:119:PRO:HB2	50:BT:68:TYR:CE1	2.22	0.74
8:CH:48:TYR:HA	8:CH:60:ARG:O	1.88	0.74
1:CA:806:C:H2'	1:CA:807:A:C8	2.20	0.74
1:CA:376:G:OP1	16:CP:5:ARG:HB2	1.87	0.74
11:CK:111:ASP:HA	18:CR:84:LYS:HG3	1.68	0.74
35:BA:2307:G:H3'	35:BA:2307:G:N3	2.02	0.74
35:BA:292:C:H2'	35:BA:293:U:H5'	1.70	0.74
13:CM:10:PRO:HG2	13:CM:18:ALA:HB1	1.68	0.74
10:AJ:84:GLN:O	10:AJ:88:LEU:HB2	1.88	0.74

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:DG:43:LEU:H	41:DG:43:LEU:HD13	1.52	0.74
35:BA:2681:C:H5	35:BA:2725:A:H62	1.36	0.74
36:BB:105:A:O2'	56:BZ:30:ASN:HA	1.88	0.74
1:AA:1222:G:H5''	19:AS:78:ARG:NH1	2.03	0.74
2:AB:96:ARG:CD	2:AB:96:ARG:H	1.89	0.74
41:BG:101:ILE:CG1	41:BG:105:LYS:HE3	2.17	0.74
56:DZ:25:PRO:HG2	56:DZ:85:HIS:HA	1.69	0.74
35:DA:1011:G:OP1	51:DU:75:ASN:HB2	1.87	0.74
51:DU:83:LEU:HB3	51:DU:88:ILE:HG12	1.69	0.74
49:BS:92:TYR:CD1	49:BS:93:LYS:N	2.56	0.74
1:AA:385:C:O2'	1:AA:386:C:H5'	1.88	0.74
49:DS:25:ARG:O	49:DS:39:ILE:HA	1.88	0.74
6:CF:18:GLN:HA	6:CF:21:LEU:HD23	1.68	0.74
55:DY:31:LEU:HB2	55:DY:36:ALA:H	1.52	0.74
47:DQ:85:LYS:HG3	47:DQ:86:GLY:N	2.01	0.74
1:AA:735:C:H2'	1:AA:736:C:H6	1.53	0.74
1:CA:1512:U:H2'	1:CA:1513:A:H8	1.52	0.74
1:AA:1240:U:H3	7:AG:30:ILE:CG2	2.01	0.74
25:CY:84:ARG:NH2	25:CY:92:PRO:HD2	2.03	0.74
35:DA:549:G:C2'	35:DA:551:G:H5''	2.18	0.74
35:DA:144:C:H2'	35:DA:145:G:C8	2.22	0.74
46:DP:115:LEU:HA	46:DP:134:ALA:CB	2.18	0.74
11:CK:21:ILE:HB	11:CK:84:VAL:HG12	1.68	0.74
50:DT:13:ARG:C	50:DT:14:TYR:HD1	1.90	0.74
1:CA:1488:G:H2'	1:CA:1489:G:H8	1.51	0.74
35:DA:852:G:O2'	35:DA:853:G:H5'	1.87	0.74
35:BA:1007:C:O2'	44:BN:108:PRO:HA	1.87	0.74
1:AA:417:C:O2'	1:AA:418:C:H5'	1.87	0.74
4:AD:80:GLU:O	4:AD:84:LYS:HG2	1.88	0.74
6:CF:50:TYR:CE1	18:CR:77:GLY:HA2	2.22	0.74
1:CA:148:G:H2'	1:CA:149:A:H8	1.53	0.74
50:BT:88:ILE:HG22	50:BT:89:VAL:N	2.02	0.74
16:AP:18:ARG:HD3	16:AP:35:LYS:HD2	1.68	0.74
47:BQ:141:GLN:O	56:BZ:70:LEU:HD22	1.87	0.74
1:AA:1190:G:P	3:AC:5:ILE:HG23	2.27	0.74
51:BU:88:ILE:C	51:BU:90:VAL:N	2.40	0.74
41:BG:11:TYR:HA	41:BG:15:VAL:HG21	1.70	0.74
28:D2:23:LYS:HA	54:DX:5:TYR:HE1	1.52	0.74
52:DV:38:LEU:CD2	52:DV:40:LEU:H	2.00	0.74
1:CA:1190:G:H8	3:CC:3:ASN:ND2	1.85	0.74
47:BQ:35:VAL:HG23	47:BQ:102:VAL:HA	1.68	0.74
35:BA:2502:G:H5'	35:BA:2503:A:H5''	1.69	0.74

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:DF:110:LEU:HD23	40:DF:110:LEU:O	1.87	0.74
47:BQ:8:LYS:HG3	47:BQ:9:TYR:N	2.03	0.74
2:CB:69:LEU:HD12	2:CB:71:VAL:HG23	1.68	0.74
35:BA:1412:A:H2'	35:BA:1413:G:C8	2.23	0.74
18:AR:86:VAL:HG12	18:AR:87:ARG:HH12	1.52	0.74
1:CA:383:A:C2'	1:CA:384:G:H5'	2.16	0.74
18:CR:52:PRO:O	18:CR:56:THR:HG23	1.86	0.74
35:BA:272(C):G:H2'	35:BA:272(D):G:H8	1.53	0.74
35:DA:1607:C:H4'	35:DA:1608:A:O5'	1.87	0.74
53:BW:87:PRO:HA	53:BW:93:ALA:HB2	1.68	0.74
35:DA:914:C:H2'	35:DA:915:C:H5'	1.69	0.74
56:BZ:61:LEU:HB2	56:BZ:65:GLN:HB3	1.70	0.74
1:CA:1317:C:OP2	14:CN:17:LYS:HG2	1.87	0.74
48:DR:103:ARG:HG2	48:DR:103:ARG:HH11	1.51	0.74
52:DV:46:VAL:HG12	52:DV:47:VAL:HG12	1.70	0.74
35:DA:227:A:C2	35:DA:2407:G:H1'	2.23	0.74
1:CA:1244:C:H2'	1:CA:1245:A:C8	2.23	0.74
35:DA:1755:A:H2	35:DA:2716:U:H1'	1.51	0.73
38:BD:177:LEU:HD12	38:BD:181:GLU:HG3	1.69	0.73
10:CJ:34:VAL:CG2	10:CJ:74:ILE:HG22	2.16	0.73
34:B8:32:LEU:O	34:B8:33:ASN:HB3	1.85	0.73
39:DE:116:VAL:HG22	39:DE:117:MET:N	2.03	0.73
51:BU:70:ARG:HA	51:BU:74:LEU:O	1.88	0.73
27:B1:78:LYS:N	27:B1:78:LYS:HD2	2.03	0.73
27:B1:86:SER:CA	27:B1:89:GLU:HG3	2.16	0.73
49:DS:85:VAL:HG23	49:DS:86:ALA:H	1.53	0.73
27:D1:38:SER:HB3	35:DA:2080:G:H4'	1.70	0.73
1:CA:741:G:H2'	1:CA:742:G:H8	1.53	0.73
15:CO:54:ARG:O	15:CO:58:MET:HG3	1.88	0.73
35:DA:676:A:H8	35:DA:2069:G:H21	1.35	0.73
1:AA:673:G:H5''	6:AF:87:ARG:HH11	1.52	0.73
55:BY:26:LYS:HG2	55:BY:27:VAL:H	1.52	0.73
1:AA:600:C:O2'	1:AA:601:C:H5'	1.87	0.73
8:CH:82:HIS:HD2	8:CH:138:TRP:NE1	1.86	0.73
35:BA:1401:G:H2'	35:BA:1402:C:H6	1.53	0.73
16:CP:8:ARG:HG2	16:CP:8:ARG:HH11	1.51	0.73
36:DB:11:C:H3'	36:DB:12:C:C6	2.23	0.73
35:BA:2661:G:H2'	35:BA:2662:A:C8	2.23	0.73
1:CA:1442(A):G:C3'	1:CA:1442(B):A:H5''	2.10	0.73
1:CA:922:G:N3	1:CA:1398:A:H2	1.86	0.73
35:DA:1819:A:OP1	38:DD:161:THR:HG21	1.88	0.73
35:BA:2394:C:OP1	46:BP:63:PRO:HD2	1.88	0.73

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
28:B2:29:LYS:O	28:B2:33:MET:N	2.20	0.73
41:BG:169:ALA:O	41:BG:173:LEU:HD23	1.88	0.73
55:DY:75:ILE:HD13	55:DY:76:CYS:N	2.01	0.73
43:DI:88:ILE:HD11	43:DI:123:LEU:HD12	1.68	0.73
35:BA:1024:G:C3'	35:BA:1025:G:H5''	2.19	0.73
35:BA:588:U:O5'	35:BA:588:U:H6	1.70	0.73
40:DF:29:ASN:H	40:DF:112:MET:HE3	1.51	0.73
2:AB:69:LEU:HD22	2:AB:91:PRO:HB2	1.68	0.73
35:DA:690:G:H2'	35:DA:691:C:H6	1.53	0.73
18:AR:37:VAL:HG23	18:AR:38:GLU:N	2.01	0.73
26:D0:70:GLN:CG	26:D0:71:ASP:H	2.01	0.73
44:BN:14:VAL:HG12	44:BN:15:LEU:N	2.03	0.73
18:AR:53:ARG:HH12	18:AR:59:SER:HA	1.52	0.73
1:AA:665:A:H2'	1:AA:725:G:H22	1.53	0.73
4:CD:132:ARG:HD2	4:CD:132:ARG:O	1.88	0.73
17:CQ:88:TYR:O	17:CQ:91:ARG:HB3	1.87	0.73
35:BA:2857:G:N2	35:BA:2859:G:H3'	2.03	0.73
1:CA:1264:C:H2'	1:CA:1265:G:H8	1.52	0.73
1:CA:303:A:OP1	12:CL:17:LYS:HE3	1.87	0.73
2:CB:49:GLU:O	2:CB:52:GLU:HB3	1.88	0.73
10:CJ:84:GLN:O	10:CJ:88:LEU:HB2	1.86	0.73
39:DE:177:PRO:HG2	39:DE:178:GLU:OE1	1.89	0.73
39:DE:9:VAL:HG13	39:DE:25:VAL:O	1.88	0.73
38:DD:25:THR:CB	38:DD:82:ILE:H	2.00	0.73
56:BZ:40:ASP:HB3	56:BZ:43:GLU:HB2	1.70	0.73
51:BU:83:LEU:HB3	51:BU:88:ILE:HG12	1.68	0.73
28:B2:29:LYS:NZ	54:BX:9:LEU:HA	2.04	0.73
51:DU:70:ARG:HA	51:DU:74:LEU:O	1.89	0.73
40:BF:103:LYS:HG2	40:BF:106:ARG:NH2	2.02	0.73
40:BF:112:MET:HA	40:BF:115:ALA:HB3	1.70	0.73
27:D1:13:ILE:HG23	27:D1:14:VAL:H	1.50	0.73
34:D8:14:VAL:CG1	34:D8:22:VAL:HG13	2.18	0.73
55:DY:31:LEU:HD12	55:DY:33:LYS:N	2.03	0.73
4:AD:30:LYS:C	4:AD:32:ALA:N	2.39	0.73
1:CA:1443:G:H22	1:CA:1460:A:H1'	1.51	0.73
1:AA:551:U:H2'	1:AA:552:U:C6	2.23	0.73
1:CA:694:A:H5''	11:CK:53:SER:HB3	1.69	0.73
5:AE:35:GLY:HA3	5:AE:41:VAL:HG12	1.71	0.73
2:CB:111:ARG:HG2	2:CB:111:ARG:HH11	1.52	0.73
12:AL:47:LYS:HB3	12:AL:48:PRO:CD	2.18	0.73
12:AL:46:LYS:HG2	12:AL:47:LYS:N	2.04	0.73
1:CA:559:A:H4'	1:CA:560:U:C5'	2.18	0.73

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
33:D7:34:ARG:HB3	33:D7:42:LEU:HD23	1.70	0.73
56:BZ:110:GLY:O	56:BZ:112:ARG:N	2.21	0.73
38:DD:133:LEU:HA	38:DD:136:ILE:HD12	1.68	0.73
14:AN:8:GLU:HB2	14:AN:12:ARG:NH1	2.03	0.73
32:D6:15:GLU:OE2	32:D6:41:PRO:HG3	1.88	0.73
1:AA:658:G:H1'	15:AO:22:THR:HB	1.69	0.73
43:BI:49:ALA:HA	43:BI:52:ARG:HG2	1.68	0.73
45:BO:13:ASN:O	45:BO:15:GLY:N	2.20	0.73
11:AK:17:GLY:HA3	11:AK:80:VAL:HA	1.70	0.73
44:DN:137:LYS:HG2	44:DN:138:LEU:H	1.53	0.73
3:AC:111:LEU:HD21	3:AC:146:ALA:HB2	1.70	0.73
35:BA:2291:U:H3	35:BA:2341:G:H1	1.35	0.73
2:AB:29:ALA:O	2:AB:31:TYR:N	2.20	0.73
43:BI:88:ILE:CG2	43:BI:89:TYR:N	2.50	0.73
1:CA:16:A:O2'	1:CA:17:U:H5'	1.88	0.73
35:DA:2300:G:H1	35:DA:2316:C:H42	1.34	0.73
56:BZ:125:LEU:HD23	56:BZ:126:VAL:H	1.53	0.73
42:DH:84:SER:O	42:DH:85:LYS:HB2	1.86	0.73
27:B1:45:ASN:C	27:B1:46:LEU:HD12	2.09	0.73
41:BG:174:GLU:HA	41:BG:178:PHE:HB2	1.70	0.73
54:DX:47:PHE:O	54:DX:49:VAL:HG23	1.87	0.73
56:DZ:151:HIS:HA	56:DZ:170:THR:HA	1.71	0.73
1:CA:406:G:H1	1:CA:436:C:H42	1.32	0.73
48:DR:18:LEU:HD13	48:DR:19:ALA:N	2.02	0.73
48:BR:95:THR:HA	48:BR:116:LEU:O	1.88	0.73
55:DY:26:LYS:HG2	55:DY:27:VAL:H	1.52	0.73
7:AG:100:ALA:O	7:AG:104:LEU:HD23	1.87	0.73
12:CL:86:ARG:HG2	12:CL:87:GLY:H	1.52	0.73
43:BI:11:ASN:ND2	43:BI:12:LEU:HD22	2.03	0.73
55:BY:28:LYS:HB2	55:BY:37:VAL:HB	1.70	0.73
1:AA:522:C:N4	1:AA:528:C:H42	1.86	0.73
46:DP:90:ARG:HD2	46:DP:91:PHE:HD1	1.53	0.73
46:BP:131:SER:HB2	46:BP:134:ALA:HB3	1.68	0.73
39:DE:167:VAL:HG22	39:DE:168:MET:N	2.03	0.73
14:CN:8:GLU:HB2	14:CN:12:ARG:NH1	2.03	0.73
35:BA:1578:U:H3'	35:BA:1579:A:H5''	1.71	0.73
35:BA:120:U:H1'	35:BA:149:A:C8	2.23	0.73
35:BA:191:A:O2'	35:BA:192:C:H5'	1.87	0.73
2:AB:53:ARG:O	2:AB:56:ARG:HB2	1.89	0.73
10:CJ:9:ARG:O	10:CJ:94:VAL:HG13	1.88	0.73
36:BB:66:A:H61	36:BB:108:U:H2'	1.52	0.73
41:DG:130:ASN:O	41:DG:159:VAL:HG23	1.87	0.73

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:DH:92:ILE:HG22	42:DH:93:GLY:N	2.04	0.73
34:D8:8:LYS:O	34:D8:12:LYS:HG3	1.88	0.73
41:BG:111:LEU:HB2	41:BG:112:PRO:HD3	1.71	0.73
41:BG:170:ARG:HH22	41:BG:182:LYS:CE	2.01	0.73
54:DX:76:ARG:O	54:DX:76:ARG:HD3	1.89	0.73
34:D8:32:LEU:HG	34:D8:34:TRP:CE3	2.22	0.73
47:BQ:16:ARG:NH1	47:BQ:16:ARG:HB3	2.03	0.73
1:AA:1428:A:H2'	1:AA:1429:C:C6	2.23	0.73
1:AA:428:G:H4'	1:AA:429:U:O5'	1.87	0.73
4:AD:17:VAL:HG12	4:AD:18:LYS:H	1.52	0.73
25:AY:170:ALA:C	25:AY:172:ALA:H	1.91	0.73
26:D0:41:ARG:HH21	35:DA:2387:U:C1'	2.01	0.73
11:AK:44:SER:H	11:AK:47:VAL:HG21	1.52	0.73
23:AW:37:U:H2'	23:AW:38:A:C8	2.23	0.73
33:D7:34:ARG:HD3	33:D7:42:LEU:HA	1.70	0.73
53:BW:11:ARG:NH2	53:BW:98:LYS:HB3	2.02	0.73
1:CA:1116:C:H2'	1:CA:1117:G:C5'	2.17	0.73
2:AB:98:LEU:HB2	2:AB:101:MET:HG2	1.71	0.73
14:AN:16:PHE:HD2	14:AN:16:PHE:N	1.86	0.73
14:CN:16:PHE:N	14:CN:16:PHE:HD2	1.87	0.73
26:B0:36:ILE:HD11	35:BA:2355:C:H4'	1.70	0.73
31:B5:25:LEU:HB2	53:BW:23:LEU:HD11	1.70	0.73
6:AF:14:LEU:CD1	6:AF:19:LEU:HB2	2.19	0.73
1:CA:892:A:H2'	1:CA:893:C:C6	2.23	0.73
35:DA:2677:G:H2'	35:DA:2678:C:H6	1.52	0.73
1:CA:971:G:H4'	1:CA:972:C:H5''	1.70	0.73
35:DA:2307:G:N2	35:DA:2308:G:H5'	2.03	0.73
41:DG:103:LEU:HA	41:DG:106:LEU:HD23	1.70	0.73
28:B2:23:LYS:HA	54:BX:5:TYR:HE1	1.52	0.73
41:BG:60:LEU:CD2	41:BG:63:ILE:HD11	2.12	0.73
42:BH:84:SER:O	42:BH:85:LYS:HB2	1.88	0.73
56:DZ:150:LEU:HD22	56:DZ:150:LEU:H	1.54	0.73
56:DZ:146:ILE:HG22	56:DZ:174:VAL:HG12	1.71	0.73
52:DV:28:GLU:CB	52:DV:29:PRO:HD3	2.14	0.73
1:CA:403:C:H2'	1:CA:404:U:H6	1.52	0.73
35:BA:992:C:H2'	35:BA:993:G:H8	1.51	0.73
3:AC:112:SER:HB3	3:AC:115:LEU:CD1	2.18	0.73
44:BN:23:LEU:HA	44:BN:26:LEU:HB3	1.70	0.73
1:AA:410:G:H21	1:AA:432:A:H62	1.35	0.73
35:DA:610:G:H22	35:DA:619:G:H1'	1.54	0.73
35:BA:1937:A:O2'	35:BA:1938:A:H5'	1.89	0.73
35:DA:2704:C:H2'	35:DA:2705:A:C8	2.23	0.73

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
17:CQ:46:ASP:OD1	17:CQ:49:GLU:HA	1.89	0.73
35:BA:97:C:H2'	35:BA:98:G:C8	2.24	0.73
7:AG:137:LYS:O	7:AG:141:VAL:HG23	1.88	0.73
35:DA:1639:U:O2'	35:DA:1640:C:H5''	1.88	0.73
35:DA:2854:G:H2'	35:DA:2855:C:C6	2.23	0.73
9:CI:114:TYR:N	9:CI:114:TYR:CD2	2.50	0.73
38:BD:229:VAL:HG23	38:BD:230:ASP:H	1.54	0.73
38:DD:209:ALA:O	38:DD:212:SER:HB3	1.88	0.73
41:DG:58:GLN:HG3	41:DG:59:GLU:N	2.03	0.73
32:B6:51:GLU:HG2	32:B6:52:VAL:N	2.01	0.73
45:BO:22:ILE:HB	45:BO:40:VAL:HG12	1.70	0.73
50:BT:65:LYS:HZ2	50:BT:65:LYS:HA	1.52	0.73
39:BE:181:LEU:N	39:BE:181:LEU:HD22	2.03	0.73
39:BE:61:ARG:HG2	39:BE:62:PRO:HD3	1.69	0.73
51:BU:90:VAL:HG22	52:BV:39:LEU:HD12	1.70	0.73
54:BX:72:LYS:CG	54:BX:74:PRO:HD3	2.08	0.73
39:DE:172:VAL:HG13	39:DE:182:LEU:HD11	1.69	0.73
4:CD:58:LEU:HD13	4:CD:59:ARG:N	2.02	0.73
35:BA:2715:C:H2'	35:BA:2716:U:C6	2.23	0.73
55:DY:68:HIS:HB3	55:DY:71:LYS:NZ	2.03	0.73
35:DA:869:G:H1'	47:DQ:8:LYS:NZ	2.04	0.73
1:CA:1522:U:O2'	1:CA:1523:G:H5'	1.89	0.73
12:CL:85:ILE:HD11	12:CL:98:TYR:CB	2.17	0.73
22:AV:38:U:H2'	22:AV:39:C:C6	2.24	0.73
43:DI:37:VAL:HG13	43:DI:38:LEU:HD12	1.68	0.73
12:AL:46:LYS:NZ	12:AL:47:LYS:HB2	2.04	0.73
19:AS:53:ASN:HD21	19:AS:56:GLN:N	1.86	0.73
46:BP:83:VAL:CG1	46:BP:112:LEU:HD21	2.18	0.73
36:DB:91:C:H2'	36:DB:92:C:H6	1.53	0.73
35:BA:2762:G:H2'	35:BA:2763:G:H5''	1.71	0.73
35:DA:154:G:H1	35:DA:172:C:H42	1.36	0.73
1:CA:1388:C:H2'	1:CA:1389:C:C6	2.24	0.73
35:DA:1550:C:H2'	35:DA:1551:C:H6	1.52	0.73
43:DI:56:LYS:HA	43:DI:59:ALA:HB3	1.69	0.73
53:BW:32:ALA:O	53:BW:35:ILE:HB	1.88	0.73
1:CA:337:C:H2'	1:CA:338:A:H8	1.54	0.73
50:DT:38:ASN:ND2	50:DT:40:THR:H	1.85	0.73
41:DG:137:GLU:HG2	41:DG:138:GLN:H	1.53	0.73
50:BT:38:ASN:ND2	50:BT:40:THR:H	1.87	0.73
50:BT:48:ILE:O	50:BT:63:VAL:HA	1.88	0.73
56:BZ:29:TYR:HE2	56:BZ:87:ASP:CB	2.01	0.73
56:BZ:59:LEU:O	56:BZ:66:SER:HA	1.88	0.73

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:D8:6:THR:CG2	34:D8:63:PRO:HD3	2.18	0.73
39:DE:30:PRO:HD3	39:DE:180:ASN:ND2	2.02	0.73
56:DZ:108:PRO:CB	56:DZ:144:LEU:H	2.01	0.73
19:CS:6:LYS:HD2	19:CS:6:LYS:H	1.53	0.73
49:BS:25:ARG:O	49:BS:39:ILE:HA	1.89	0.73
35:BA:389:G:N1	46:BP:71:VAL:HB	2.01	0.73
40:DF:114:VAL:HG23	40:DF:115:ALA:N	2.03	0.73
44:DN:22:THR:CA	44:DN:61:ARG:HB2	2.19	0.73
6:CF:60:PHE:C	6:CF:61:LEU:HD12	2.09	0.73
1:AA:1317:C:OP1	14:AN:17:LYS:HG2	1.88	0.73
42:DH:73:ALA:O	42:DH:76:VAL:HB	1.88	0.73
55:BY:28:LYS:HZ3	55:BY:30:VAL:HA	1.54	0.73
2:CB:98:LEU:HB2	2:CB:101:MET:HG2	1.69	0.73
8:AH:11:THR:CG2	8:AH:14:ARG:HH12	2.02	0.73
50:BT:13:ARG:C	50:BT:14:TYR:HD1	1.92	0.73
40:DF:170:LEU:HD12	40:DF:171:PRO:HD2	1.68	0.73
27:D1:17:SER:O	27:D1:44:PRO:HD2	1.89	0.73
35:BA:860:U:H5	35:BA:917:A:N7	1.85	0.73
35:DA:1449:A:N3	35:DA:1529:G:H1'	2.03	0.73
35:DA:361:G:H2'	35:DA:362:U:H5''	1.70	0.73
41:BG:33:ARG:HD3	41:BG:162:THR:HG21	1.71	0.73
41:DG:95:ARG:NH1	41:DG:95:ARG:HA	2.04	0.73
45:BO:107:ARG:HH11	50:BT:36:GLU:H	1.37	0.73
45:BO:6:THR:HG22	45:BO:7:TYR:N	2.03	0.73
54:BX:5:TYR:O	54:BX:7:VAL:N	2.21	0.73
4:CD:61:LYS:CA	4:CD:203:VAL:HG22	2.18	0.73
27:D1:83:GLU:HG2	27:D1:86:SER:HB2	1.71	0.73
1:CA:658:G:C1'	15:CO:22:THR:HB	2.19	0.73
1:AA:1489:G:H2'	1:AA:1490:C:C6	2.24	0.73
20:CT:43:LEU:HD12	20:CT:52:ALA:HA	1.71	0.73
26:D0:21:LEU:HD11	26:D0:41:ARG:HD3	1.70	0.73
22:AV:39:C:O2'	22:AV:40:C:H5'	1.89	0.73
12:AL:75:HIS:HD2	12:AL:77:LEU:HG	1.52	0.73
35:DA:2092:U:H5	35:DA:2226:C:OP2	1.72	0.73
38:BD:239:ARG:HH21	38:BD:239:ARG:HG3	1.53	0.73
35:DA:271(U):G:H2'	35:DA:271(V):G:C8	2.24	0.73
1:AA:662:G:H2'	1:AA:663:A:H8	1.51	0.73
43:BI:54:GLN:HG2	43:BI:57:ARG:HH12	1.53	0.73
35:BA:1644:C:O2'	35:BA:1645:G:H5'	1.89	0.73
53:BW:51:LEU:HD13	53:BW:52:GLU:N	2.04	0.73
35:DA:705:A:H1'	38:DD:9:TYR:CE1	2.24	0.73
22:CV:41:C:H2'	22:CV:42:C:C6	2.23	0.73

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:20:U:H2'	1:AA:21:G:O4'	1.87	0.73
52:BV:46:VAL:HG12	52:BV:47:VAL:HG12	1.69	0.73
50:DT:22:PHE:N	50:DT:22:PHE:CD2	2.51	0.73
38:BD:25:THR:HG22	38:BD:82:ILE:O	1.89	0.73
38:BD:45:ASN:CG	38:BD:46:GLN:H	1.89	0.73
41:DG:137:GLU:HG2	41:DG:138:GLN:N	2.03	0.73
39:BE:77:ILE:HG22	39:BE:78:LEU:N	2.04	0.73
27:B1:14:VAL:O	27:B1:46:LEU:HD23	1.89	0.73
28:D2:44:LEU:C	28:D2:46:GLN:H	1.92	0.73
42:BH:105:LEU:HD22	42:BH:105:LEU:N	2.03	0.73
3:AC:157:ILE:HB	3:AC:164:ARG:NH1	2.04	0.73
35:BA:1258:C:H2'	35:BA:1259:G:C8	2.23	0.73
35:BA:571:A:H5'	35:BA:2030:A:H62	1.54	0.73
52:DV:70:ILE:CB	52:DV:90:PRO:HB2	2.17	0.73
35:DA:342:G:O2'	35:DA:343:C:H5''	1.87	0.73
23:CW:2:G:N2	23:CW:3:C:H1'	2.03	0.73
23:AW:42:C:H2'	23:AW:43:G:H8	1.54	0.73
8:AH:119:LEU:HB2	8:AH:123:GLU:HB2	1.71	0.73
42:BH:67:LEU:O	42:BH:71:LEU:HD13	1.87	0.73
46:BP:84:ASN:ND2	46:BP:116:GLY:HA3	2.04	0.73
35:BA:1614:A:C2	53:BW:87:PRO:HB3	2.24	0.73
29:D3:56:VAL:HG12	29:D3:57:GLU:N	2.03	0.73
35:DA:2801(A):A:C4'	35:DA:2802:G:H5'	2.19	0.73
43:BI:54:GLN:HG2	43:BI:57:ARG:NH1	2.03	0.73
35:DA:2487:G:H2'	35:DA:2488:A:H8	1.54	0.73
35:BA:185:U:H2'	35:BA:186:G:H8	1.53	0.73
31:D5:42:PRO:HB2	35:DA:2815:C:O2'	1.89	0.73
1:AA:498:U:O2	1:AA:498:U:H2'	1.89	0.73
35:DA:2773:C:H5''	39:DE:164:ARG:O	1.89	0.73
4:AD:142:PRO:HA	4:AD:185:PHE:HD2	1.54	0.73
35:BA:2007:C:H2'	35:BA:2008:C:H6	1.52	0.73
45:DO:16:ALA:HB1	45:DO:43:VAL:HG13	1.71	0.72
16:CP:18:ARG:HD3	16:CP:35:LYS:HD2	1.71	0.72
41:DG:76:SER:HB3	41:DG:83:ARG:CB	2.19	0.72
1:AA:1442(B):A:OP1	1:AA:1442(B):A:H4'	1.88	0.72
45:BO:69:ILE:HD13	45:BO:77:ILE:HG23	1.70	0.72
39:BE:82:ARG:HG3	39:BE:83:ASP:H	1.54	0.72
52:BV:4:ILE:HD12	52:BV:40:LEU:HD21	1.71	0.72
42:DH:153:LYS:HB2	42:DH:154:PRO:HD2	1.71	0.72
28:D2:14:ARG:CG	28:D2:15:LYS:N	2.50	0.72
28:D2:40:SER:CB	28:D2:41:ILE:HD12	2.19	0.72
54:DX:54:VAL:C	54:DX:55:ASN:HD22	1.93	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:676:A:H8	35:BA:2069:G:H21	1.34	0.72
55:BY:74:PRO:O	55:BY:75:ILE:HB	1.87	0.72
6:CF:76:ALA:HB1	6:CF:80:ARG:NH2	2.04	0.72
4:AD:120:LEU:N	4:AD:120:LEU:HD12	2.01	0.72
11:AK:21:ILE:N	11:AK:21:ILE:HD12	2.04	0.72
26:B0:41:ARG:HH21	35:BA:2387:U:C1'	2.01	0.72
8:AH:48:TYR:HA	8:AH:60:ARG:O	1.88	0.72
35:DA:272(C):G:H2'	35:DA:272(D):G:H8	1.54	0.72
46:DP:83:VAL:HG12	46:DP:112:LEU:HD21	1.71	0.72
35:BA:208:C:H2'	35:BA:209:C:C6	2.23	0.72
1:CA:1435:G:H2'	1:CA:1436:U:C6	2.24	0.72
1:CA:1303:C:O2	1:CA:1303:C:H2'	1.88	0.72
2:AB:133:LYS:O	2:AB:137:ARG:HB2	1.88	0.72
1:AA:154:C:H2'	1:AA:155:C:C6	2.24	0.72
35:DA:648:G:H2'	35:DA:649:G:H8	1.53	0.72
35:DA:2562:U:H2'	35:DA:2563:U:H5'	1.70	0.72
56:BZ:127:LYS:H	56:BZ:164:ALA:HB3	1.49	0.72
35:DA:2570:G:H2'	35:DA:2571:C:C6	2.25	0.72
47:DQ:141:GLN:HE21	56:DZ:72:ARG:HA	1.54	0.72
47:DQ:27:VAL:HG22	56:DZ:81:ARG:HH22	1.53	0.72
56:DZ:44:PHE:CE2	56:DZ:86:VAL:HG21	2.23	0.72
46:BP:47:ASP:HB3	46:BP:48:PRO:O	1.88	0.72
35:DA:2821:A:H2'	35:DA:2822:G:C8	2.23	0.72
50:BT:102:ILE:HA	50:BT:110:ILE:HD11	1.71	0.72
49:DS:83:LYS:HA	49:DS:104:GLY:HA2	1.69	0.72
1:AA:985:C:H2'	1:AA:986:A:C8	2.24	0.72
4:AD:31:CYS:O	4:AD:31:CYS:SG	2.46	0.72
35:BA:296:C:O2'	35:BA:297:C:H5'	1.89	0.72
35:BA:1607:C:H4'	35:BA:1608:A:O5'	1.88	0.72
42:DH:70:THR:O	42:DH:72:ILE:N	2.22	0.72
7:AG:148:ASN:ND2	23:AW:41:C:H4'	2.04	0.72
20:AT:60:GLU:HG3	20:AT:81:LYS:HE3	1.71	0.72
8:CH:32:LYS:O	8:CH:35:ILE:HG12	1.89	0.72
9:CI:28:VAL:HG13	9:CI:63:ILE:O	1.89	0.72
35:DA:541:C:H2'	35:DA:542:C:C6	2.23	0.72
38:BD:135:PHE:HD1	38:BD:135:PHE:H	1.35	0.72
35:BA:144:C:H2'	35:BA:145:G:C8	2.24	0.72
20:CT:18:GLN:O	20:CT:22:ARG:HG3	1.88	0.72
1:CA:186:C:H2'	1:CA:187:C:C6	2.24	0.72
35:BA:1509(B):A:H2'	35:BA:1510:G:C8	2.24	0.72
35:BA:1689:A:H62	35:BA:1698:A:H2	1.34	0.72
44:BN:132:ALA:O	44:BN:133:GLN:HB2	1.87	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:DE:98:PRO:HG3	39:DE:175:VAL:HG12	1.70	0.72
1:AA:1522:U:O2'	1:AA:1523:G:H5'	1.89	0.72
35:BA:2558:C:H2'	35:BA:2559:C:C6	2.25	0.72
35:BA:1908:C:H2'	35:BA:1909:C:H6	1.53	0.72
35:DA:2000:G:HO2'	35:DA:2689:U:H5	1.36	0.72
38:BD:183:ARG:HG2	38:BD:183:ARG:HH11	1.53	0.72
28:B2:14:ARG:HE	28:B2:14:ARG:N	1.86	0.72
39:DE:59:VAL:HG11	39:DE:63:LEU:HG	1.70	0.72
28:D2:37:PHE:CE2	28:D2:40:SER:HA	2.24	0.72
3:AC:149:ALA:HA	3:AC:201:TYR:O	1.90	0.72
38:DD:14:ARG:CB	38:DD:14:ARG:HH11	2.01	0.72
34:B8:52:LYS:H	34:B8:53:PRO:CD	1.99	0.72
35:DA:992:C:H2'	35:DA:993:G:H8	1.53	0.72
1:AA:553:A:H2'	1:AA:554:C:C6	2.25	0.72
11:CK:44:SER:N	11:CK:47:VAL:HG21	2.04	0.72
35:BA:329:G:OP2	55:BY:71:LYS:HD3	1.89	0.72
8:AH:120:THR:HG23	8:AH:123:GLU:OE1	1.88	0.72
9:CI:107:ARG:O	9:CI:108:VAL:HG13	1.88	0.72
1:CA:706:A:C5	1:CA:707:C:H5	2.08	0.72
35:BA:1503:U:H2'	35:BA:1504:C:C6	2.24	0.72
9:AI:9:ARG:HG3	9:AI:14:VAL:HG22	1.69	0.72
2:CB:133:LYS:O	2:CB:137:ARG:HB2	1.88	0.72
35:DA:2521:C:H42	35:DA:2544:G:H1	1.37	0.72
35:BA:481:G:H1'	35:BA:506:G:N2	2.04	0.72
1:CA:854:G:H3'	1:CA:871:U:O4	1.89	0.72
16:CP:27:LYS:H	16:CP:27:LYS:HD2	1.54	0.72
40:BF:8:GLN:HB2	40:BF:126:VAL:HA	1.71	0.72
35:DA:1876:A:H2'	35:DA:1877:A:C8	2.24	0.72
25:AY:117:ALA:O	25:AY:120:GLN:HB3	1.88	0.72
35:DA:1660:C:H5'	35:DA:2712(A):A:H61	1.54	0.72
41:DG:144:ILE:HG13	41:DG:145:THR:N	2.04	0.72
35:BA:1341:U:P	35:BA:1397:U:H3	2.11	0.72
35:BA:71:A:H4'	35:BA:72:U:O5'	1.89	0.72
54:BX:55:ASN:HB2	54:BX:77:LYS:HD2	1.72	0.72
39:DE:82:ARG:HG3	39:DE:83:ASP:H	1.53	0.72
27:B1:83:GLU:CG	27:B1:86:SER:H	2.02	0.72
42:BH:105:LEU:HD21	42:BH:113:VAL:HB	1.72	0.72
56:DZ:166:SER:CB	56:DZ:168:GLU:N	2.40	0.72
47:DQ:51:ARG:O	47:DQ:54:MET:HB3	1.89	0.72
1:CA:985:C:H2'	1:CA:986:A:C8	2.25	0.72
4:CD:26:CYS:HA	4:CD:31:CYS:HB2	1.71	0.72
5:CE:51:VAL:O	5:CE:55:VAL:HG23	1.89	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:D1:83:GLU:CG	27:D1:86:SER:HB2	2.19	0.72
47:BQ:8:LYS:CG	47:BQ:9:TYR:H	2.01	0.72
4:AD:153:ARG:HB3	4:AD:153:ARG:NH1	2.05	0.72
35:DA:342:G:H2'	35:DA:343:C:C5'	2.20	0.72
9:AI:50:LEU:O	9:AI:53:VAL:HG22	1.89	0.72
1:AA:266:G:H22	1:AA:270:A:H62	1.38	0.72
23:AW:28:U:H3	23:AW:44:A:H2	1.37	0.72
35:DA:467:G:H2'	35:DA:468:G:H8	1.52	0.72
1:AA:186:C:H2'	1:AA:187:C:C6	2.24	0.72
1:CA:20:U:H2'	1:CA:21:G:O4'	1.87	0.72
35:BA:227:A:C2	35:BA:2407:G:H1'	2.25	0.72
35:DA:1170:G:H1	35:DA:1179:C:H42	1.37	0.72
10:AJ:82:ILE:O	10:AJ:86:MET:HB3	1.89	0.72
35:DA:2852:G:H2'	35:DA:2853:C:C6	2.24	0.72
1:CA:17:U:H2'	1:CA:18:C:C6	2.24	0.72
50:BT:52:ILE:O	50:BT:52:ILE:HG13	1.88	0.72
1:AA:971:G:H4'	1:AA:972:C:H5''	1.70	0.72
28:B2:17:SER:O	28:B2:21:LEU:N	2.21	0.72
28:B2:55:ARG:NH1	35:BA:72:U:H5'	2.04	0.72
35:BA:1342:A:H5'	54:BX:55:ASN:OD1	1.89	0.72
35:DA:1345:C:H2'	35:DA:1346:G:H8	1.53	0.72
41:BG:27:ASN:HD21	41:BG:29:TRP:CB	1.99	0.72
4:CD:28:SER:HB3	4:CD:29:PRO:CD	2.17	0.72
40:BF:6:VAL:HG21	40:BF:124:LEU:HA	1.72	0.72
27:D1:13:ILE:CG1	27:D1:14:VAL:N	2.50	0.72
27:D1:14:VAL:O	27:D1:46:LEU:HD23	1.89	0.72
3:CC:9:GLY:O	3:CC:12:LEU:HB2	1.89	0.72
50:BT:109:GLU:O	50:BT:113:LYS:HG3	1.88	0.72
2:CB:178:ARG:NH2	8:CH:74:PRO:HG3	2.03	0.72
35:DA:329:G:OP2	55:DY:71:LYS:HD3	1.90	0.72
55:DY:37:VAL:HG23	55:DY:38:ILE:N	2.04	0.72
4:AD:90:GLY:HA3	4:AD:204:ILE:HD11	1.72	0.72
43:DI:102:SER:CB	43:DI:109:ILE:HG12	2.19	0.72
25:CY:36:ALA:HA	25:CY:39:LEU:HG	1.71	0.72
33:B7:9:ARG:NH1	35:BA:1309:G:H3'	2.05	0.72
8:CH:120:THR:OG1	8:CH:123:GLU:HG3	1.88	0.72
1:CA:1118:C:H6	1:CA:1118:C:H5'	1.54	0.72
31:D5:56:LYS:O	31:D5:57:VAL:HG13	1.89	0.72
54:BX:64:LYS:O	54:BX:65:ARG:HB2	1.88	0.72
5:AE:145:LYS:O	5:AE:148:VAL:HB	1.89	0.72
1:AA:1346:A:N1	1:AA:1374:A:H5''	2.05	0.72
35:BA:1270:C:H5''	35:BA:1271:G:H5'	1.71	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1503:U:H2'	35:DA:1504:C:C6	2.24	0.72
38:BD:129:ASN:O	38:BD:193:VAL:HG12	1.89	0.72
5:CE:90:VAL:CG2	5:CE:121:LYS:HB3	2.20	0.72
1:AA:1303:C:H2'	1:AA:1303:C:O2	1.88	0.72
26:D0:27:GLU:HB2	26:D0:69:PHE:CD1	2.25	0.72
35:BA:1290:C:H2'	35:BA:1291:C:C6	2.24	0.72
1:AA:1404:C:H2'	1:AA:1405:G:C8	2.24	0.72
35:DA:2102:U:H2'	35:DA:2103:C:C6	2.23	0.72
35:BA:2720:U:H5'	35:BA:2721:A:OP2	1.89	0.72
39:DE:128:SER:O	39:DE:129:HIS:HB2	1.90	0.72
35:BA:2074:U:H2'	35:BA:2075:U:C6	2.25	0.72
40:BF:10:PRO:HD2	40:BF:13:SER:O	1.88	0.72
45:DO:87:ILE:HD12	45:DO:91:LEU:C	2.09	0.72
56:DZ:131:ARG:O	56:DZ:133:ILE:HD12	1.88	0.72
50:DT:48:ILE:O	50:DT:63:VAL:HA	1.89	0.72
1:CA:1080:A:H5'	5:CE:14:ARG:NH2	2.03	0.72
47:BQ:33:GLY:HA2	47:BQ:105:GLU:HA	1.70	0.72
39:BE:77:ILE:CG2	39:BE:78:LEU:N	2.52	0.72
54:BX:54:VAL:C	54:BX:55:ASN:HD22	1.92	0.72
55:DY:87:LYS:HG3	55:DY:89:PHE:N	2.04	0.72
2:AB:72:GLY:HA3	2:AB:165:VAL:HG13	1.70	0.72
45:BO:114:ILE:H	45:BO:114:ILE:CD1	1.97	0.72
18:CR:47:THR:OG1	18:CR:49:LYS:HG2	1.90	0.72
51:BU:18:LEU:HD23	51:BU:18:LEU:O	1.89	0.72
8:CH:37:ARG:O	8:CH:41:ARG:HB3	1.90	0.72
35:DA:465:G:H2'	35:DA:466:A:C8	2.24	0.72
54:DX:64:LYS:O	54:DX:65:ARG:HB2	1.88	0.72
3:AC:107:GLN:H	3:AC:107:GLN:CD	1.93	0.72
35:BA:2189:U:C3'	35:BA:2190:G:H5''	2.19	0.72
35:BA:1528(A):A:H3'	35:BA:1529:G:H5''	1.70	0.72
35:BA:285:C:H2'	35:BA:286:C:H5''	1.72	0.72
46:BP:122:PRO:HB3	46:BP:141:ALA:HB1	1.72	0.72
39:DE:39:PRO:HA	39:DE:43:GLY:HA2	1.69	0.72
36:BB:11:C:H3'	36:BB:12:C:C6	2.24	0.72
50:DT:53:ARG:HG2	50:DT:53:ARG:HH11	1.55	0.72
38:BD:183:ARG:HG3	38:BD:269:PHE:O	1.89	0.72
56:BZ:28:MET:HE3	56:BZ:37:VAL:HG21	1.70	0.72
55:DY:76:CYS:SG	55:DY:77:PRO:HD3	2.28	0.72
28:D2:40:SER:HB2	28:D2:41:ILE:HD12	1.72	0.72
54:DX:40:LYS:HD2	54:DX:41:ASN:N	2.04	0.72
32:D6:51:GLU:HG2	32:D6:52:VAL:N	2.01	0.72
27:D1:58:ILE:HG23	27:D1:59:THR:N	2.03	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:D8:30:ARG:NH2	46:DP:62:LEU:HD23	2.04	0.72
35:BA:585:G:H2'	35:BA:1251:C:H42	1.54	0.72
40:BF:65:TRP:CH2	40:BF:75:HIS:HD2	2.08	0.72
18:CR:37:VAL:HG23	18:CR:38:GLU:N	2.02	0.72
25:CY:18:LEU:CG	25:CY:19:GLU:N	2.53	0.72
1:CA:1445:C:H2'	1:CA:1446:U:H6	1.53	0.72
40:DF:132:VAL:HG22	40:DF:133:ASN:N	2.03	0.72
35:DA:610:G:N2	35:DA:619:G:H1'	2.04	0.72
9:AI:2:GLU:O	9:AI:3:GLN:HG3	1.88	0.72
9:AI:95:LYS:HZ3	9:AI:96:LEU:HB2	1.55	0.72
1:CA:452:A:H4'	16:CP:72:ARG:NH2	2.05	0.72
1:AA:471:G:H2'	1:AA:472:A:H8	1.53	0.72
1:CA:1258:G:H2'	1:CA:1259:C:C6	2.25	0.72
35:DA:635:C:H2'	35:DA:636:G:C8	2.25	0.72
35:BA:635:C:H2'	35:BA:636:G:C8	2.23	0.72
17:AQ:88:TYR:O	17:AQ:91:ARG:HB3	1.89	0.72
25:AY:48:ALA:O	25:AY:50:VAL:HG13	1.90	0.72
1:AA:688:G:H2'	1:AA:689:C:H6	1.54	0.72
35:DA:185:U:H2'	35:DA:186:G:H8	1.54	0.72
35:BA:1034:G:N2	35:BA:1122:G:H1'	2.05	0.72
35:DA:2729:G:H1'	39:DE:187:ALA:CB	2.17	0.72
38:DD:224:ALA:HB2	38:DD:233:HIS:HB3	1.72	0.72
41:DG:73:ALA:HB3	41:DG:87:PRO:HG2	1.71	0.72
35:DA:2052:G:H2'	35:DA:2053:G:H8	1.55	0.72
35:BA:2808:U:H2'	35:BA:2809:A:H5'	1.72	0.72
39:DE:77:ILE:HG22	39:DE:78:LEU:N	2.05	0.72
42:BH:103:LEU:HD23	42:BH:115:VAL:HB	1.71	0.72
1:CA:977:A:H2'	1:CA:978:A:H5'	1.72	0.72
55:BY:45:VAL:CA	55:BY:62:GLU:HG2	2.12	0.72
40:BF:18:ARG:HG2	40:BF:19:GLU:H	1.53	0.72
35:BA:2575:C:H5''	39:BE:144:ARG:HD3	1.71	0.72
35:BA:1188:U:O2'	35:BA:1189:A:H5'	1.88	0.72
40:BF:69:HIS:O	40:BF:70:THR:HG23	1.89	0.72
2:CB:165:VAL:CG2	2:CB:166:ASP:H	1.99	0.72
47:DQ:76:LYS:H	47:DQ:88:GLY:CA	2.03	0.72
1:CA:989:C:H42	1:CA:1217:C:N4	1.88	0.72
1:CA:692:U:H2'	1:CA:694:A:OP2	1.89	0.72
43:BI:102:SER:CB	43:BI:109:ILE:HG12	2.19	0.72
1:AA:694:A:O2'	23:AW:39:A:H1'	1.90	0.72
13:AM:91:ARG:HB3	13:AM:96:LEU:O	1.89	0.72
45:BO:121:VAL:C	45:BO:122:LEU:HD12	2.09	0.72
1:AA:522:C:H41	12:AL:53:ARG:NH2	1.85	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:878:G:H5'	8:CH:89:PRO:CG	2.19	0.72
12:CL:46:LYS:NZ	12:CL:47:LYS:HB2	2.05	0.72
1:AA:444:C:H2'	1:AA:445:G:H8	1.55	0.72
35:DA:709:U:H2'	35:DA:710:G:H8	1.54	0.72
1:AA:1053:G:O6	1:AA:1200:C:H5''	1.88	0.72
31:D5:2:ALA:HB2	35:DA:2014:A:HO2'	1.55	0.72
35:DA:1364:G:H1'	35:DA:1368:G:H22	1.55	0.72
1:AA:1118:C:H5'	1:AA:1118:C:H6	1.54	0.72
33:B7:45:ALA:O	33:B7:46:VAL:HB	1.88	0.72
54:BX:16:LYS:HA	54:BX:16:LYS:HE3	1.71	0.72
10:AJ:32:ALA:HB1	10:AJ:75:ILE:HD11	1.72	0.72
45:DO:35:VAL:HG21	45:DO:69:ILE:HG12	1.72	0.72
38:BD:48:ARG:HH11	38:BD:48:ARG:HG3	1.53	0.72
35:DA:2307:G:N3	35:DA:2307:G:H3'	2.04	0.72
39:DE:116:VAL:O	39:DE:117:MET:HB3	1.87	0.72
28:B2:53:LEU:O	28:B2:54:LYS:HB3	1.89	0.72
27:B1:90:ILE:O	27:B1:93:GLU:HG2	1.89	0.72
29:D3:31:LEU:HD22	29:D3:32:GLN:H	1.55	0.72
1:CA:542:G:H2'	1:CA:543:C:C6	2.25	0.72
4:CD:33:MET:HE2	4:CD:37:PRO:HA	1.72	0.72
49:DS:26:LEU:O	49:DS:26:LEU:HD23	1.89	0.72
27:D1:38:SER:CB	35:DA:2080:G:H4'	2.20	0.72
6:CF:99:ALA:HB3	18:CR:29:PHE:CE2	2.25	0.72
19:AS:15:LEU:HD22	19:AS:15:LEU:H	1.54	0.72
35:DA:2739:U:O2'	35:DA:2740:A:H5'	1.89	0.72
7:AG:71:PRO:HG3	7:AG:103:TRP:CZ3	2.24	0.72
1:AA:375:U:H2'	1:AA:376:G:H8	1.53	0.72
35:BA:1131:G:N3	35:BA:1132:A:N7	2.38	0.72
8:AH:6:ILE:HG22	8:AH:10:LEU:HD11	1.72	0.72
9:AI:118:LYS:HB3	9:AI:118:LYS:HZ3	1.53	0.72
12:CL:47:LYS:HB3	12:CL:48:PRO:CD	2.19	0.72
40:BF:176:LEU:HD21	40:BF:180:GLY:O	1.90	0.72
35:BA:1578:U:C3'	35:BA:1579:A:H5''	2.19	0.72
4:AD:3:ARG:O	4:AD:5:ILE:HG13	1.89	0.72
1:CA:728:A:H2'	1:CA:729:A:C8	2.24	0.72
41:DG:52:ILE:O	41:DG:54:GLU:N	2.23	0.72
35:BA:1170:G:H1	35:BA:1179:C:H42	1.37	0.72
50:DT:109:GLU:HB3	50:DT:113:LYS:CE	2.18	0.72
50:DT:50:ILE:HA	50:DT:99:LEU:HD11	1.72	0.72
38:BD:27:THR:CG2	38:BD:28:GLU:H	1.91	0.72
38:DD:267:SER:C	38:DD:269:PHE:N	2.42	0.72
45:BO:2:ILE:HD11	45:BO:82:ASN:CB	2.19	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
45:BO:61:VAL:HG22	45:BO:62:VAL:O	1.89	0.72
50:BT:83:ILE:HG13	50:BT:84:GLN:HG2	1.72	0.72
44:BN:41:ASP:C	51:BU:64:ARG:HH11	1.94	0.72
41:BG:91:ARG:HG2	41:BG:92:VAL:H	1.54	0.72
55:DY:79:CYS:SG	55:DY:80:GLY:N	2.62	0.72
54:DX:49:VAL:HG12	54:DX:50:LYS:H	1.54	0.72
42:BH:89:ILE:HD13	42:BH:90:LYS:H	1.55	0.72
52:DV:19:LYS:NZ	52:DV:20:LEU:H	1.87	0.72
1:CA:1062:U:H2'	1:CA:1063:C:C6	2.24	0.72
43:DI:77:LEU:HB2	43:DI:140:LEU:CD1	2.17	0.72
46:BP:16:ARG:CD	46:BP:18:ARG:H	2.02	0.72
35:DA:1024:G:C3'	35:DA:1025:G:H5''	2.20	0.72
55:BY:2:ARG:N	55:BY:4:LYS:HG2	2.05	0.72
55:BY:2:ARG:N	55:BY:4:LYS:HE2	2.05	0.72
31:B5:40:LYS:HZ3	31:B5:45:VAL:HA	1.54	0.72
46:DP:131:SER:HB2	46:DP:134:ALA:HB3	1.71	0.72
7:CG:65:ALA:HB1	7:CG:127:ALA:HB3	1.71	0.72
32:B6:36:LEU:HD13	32:B6:50:ARG:NH1	2.05	0.72
35:BA:1449:A:N3	35:BA:1529:G:H1'	2.05	0.72
35:DA:919:G:H4'	36:DB:81:G:O2'	1.90	0.72
35:DA:1446:C:H42	35:DA:1465:G:H1	1.38	0.72
55:DY:101:LYS:HG2	55:DY:102:CYS:N	2.05	0.72
44:DN:132:ALA:O	44:DN:133:GLN:HB2	1.88	0.72
39:BE:154:LYS:HE3	39:BE:154:LYS:HA	1.72	0.72
1:CA:154:C:H2'	1:CA:155:C:C6	2.25	0.72
41:DG:125:PHE:HD1	41:DG:125:PHE:H	1.37	0.71
41:DG:38:VAL:N	41:DG:158:ALA:HB3	2.05	0.71
56:BZ:95:PRO:HA	56:BZ:129:SER:HA	1.72	0.71
35:DA:1578:U:H3'	35:DA:1579:A:H5''	1.70	0.71
29:B3:31:LEU:HD22	29:B3:32:GLN:H	1.55	0.71
52:BV:61:VAL:HB	52:BV:99:ILE:N	2.04	0.71
42:BH:101:ARG:HB2	42:BH:117:PRO:HG3	1.72	0.71
35:BA:2639:A:H2'	35:BA:2640:G:C5'	2.16	0.71
35:BA:226:G:H5'	35:BA:257:A:H4'	1.72	0.71
1:AA:1431:C:H2'	1:AA:1432:G:H5'	1.72	0.71
48:BR:62:ALA:O	48:BR:66:VAL:HG23	1.90	0.71
44:DN:26:LEU:CG	44:DN:30:ILE:HD11	2.19	0.71
43:DI:98:ALA:CB	43:DI:109:ILE:HB	2.19	0.71
42:DH:43:VAL:HG23	42:DH:43:VAL:O	1.89	0.71
8:AH:37:ARG:O	8:AH:41:ARG:HB3	1.89	0.71
38:DD:44:ASN:CB	38:DD:49:ILE:HA	2.18	0.71
35:DA:549:G:H2'	35:DA:551:G:C5'	2.19	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:DP:129:ALA:C	46:DP:130:PHE:HD2	1.93	0.71
38:BD:172:TYR:CD1	38:BD:186:HIS:HA	2.23	0.71
40:BF:164:ARG:HG3	40:BF:175:THR:OG1	1.89	0.71
56:BZ:17:ALA:C	56:BZ:20:ARG:HB3	2.11	0.71
35:BA:1786:A:C5	35:BA:1938:A:N7	2.57	0.71
38:DD:118:VAL:HG22	38:DD:119:ALA:N	2.05	0.71
35:DA:445:C:H5''	51:DU:3:ARG:HB2	1.72	0.71
1:AA:1074:G:H2'	1:AA:1075:C:C6	2.25	0.71
35:DA:1300:U:O2	35:DA:1626:G:H2'	1.89	0.71
3:CC:107:GLN:CD	3:CC:107:GLN:H	1.94	0.71
35:BA:2801(A):A:C4'	35:BA:2802:G:H5'	2.20	0.71
19:AS:51:VAL:O	19:AS:57:HIS:HA	1.89	0.71
1:AA:114:U:H2'	1:AA:115:G:C8	2.25	0.71
43:DI:54:GLN:HG2	43:DI:57:ARG:NH1	2.04	0.71
27:D1:8:SER:HA	35:DA:1365:A:OP2	1.90	0.71
5:CE:35:GLY:CA	5:CE:41:VAL:HG12	2.20	0.71
1:CA:597:G:H2'	1:CA:598:U:H5'	1.72	0.71
4:CD:3:ARG:O	4:CD:5:ILE:HG13	1.90	0.71
44:BN:107:LEU:HB2	44:BN:108:PRO:HD2	1.71	0.71
35:DA:2195:C:O2'	35:DA:2196:C:H5'	1.90	0.71
35:BA:648:G:H2'	35:BA:649:G:H8	1.55	0.71
35:DA:2291:U:H3	35:DA:2341:G:H1	1.35	0.71
35:DA:920:G:H2'	35:DA:921:G:H8	1.54	0.71
3:CC:73:PRO:O	3:CC:76:VAL:HG22	1.90	0.71
35:BA:2817:G:H21	35:BA:2836:U:H1'	1.52	0.71
5:CE:57:LYS:O	5:CE:61:TYR:HB2	1.89	0.71
50:DT:60:THR:HG22	50:DT:77:PRO:HA	1.73	0.71
38:BD:267:SER:O	38:BD:269:PHE:N	2.23	0.71
41:DG:41:GLN:HE22	41:DG:153:ARG:HB3	1.55	0.71
45:BO:104:ARG:HB3	45:BO:104:ARG:NH1	2.06	0.71
39:BE:197:ILE:HG13	39:BE:199:ARG:HH12	1.55	0.71
51:BU:68:ALA:O	51:BU:71:GLN:HB3	1.88	0.71
42:DH:101:ARG:HB2	42:DH:117:PRO:HG3	1.72	0.71
27:B1:13:ILE:HB	27:B1:63:ALA:HB2	1.71	0.71
55:DY:88:LYS:HD2	55:DY:88:LYS:N	2.04	0.71
52:DV:29:PRO:HD2	52:DV:32:THR:HG1	1.55	0.71
45:DO:113:LYS:O	45:DO:117:LEU:HG	1.90	0.71
35:BA:675:A:H4'	40:BF:67:GLN:OE1	1.91	0.71
56:BZ:118:GLN:O	56:BZ:172:ALA:HA	1.89	0.71
1:CA:738:C:H5''	6:CF:69:GLU:HB2	1.71	0.71
55:DY:2:ARG:N	55:DY:4:LYS:HG2	2.04	0.71
35:DA:582:G:H2'	35:DA:583:G:C8	2.24	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:CY:28:LEU:O	25:CY:30:THR:HG23	1.90	0.71
1:AA:989:C:H42	1:AA:1217:C:N4	1.89	0.71
7:CG:71:PRO:HG3	7:CG:103:TRP:CZ3	2.26	0.71
55:BY:27:VAL:HG12	55:BY:29:GLU:H	1.55	0.71
5:AE:147:ASP:HA	5:AE:150:ARG:HB3	1.72	0.71
12:CL:47:LYS:CG	12:CL:48:PRO:HD3	2.20	0.71
31:D5:17:ASP:O	31:D5:20:ARG:HB2	1.90	0.71
35:BA:2704:C:H2'	35:BA:2705:A:C8	2.24	0.71
1:CA:1184:G:H2'	1:CA:1185:G:C8	2.24	0.71
22:CV:30:A:C4	22:CV:31:U:H5	2.08	0.71
1:CA:1241:G:H2'	1:CA:1242:C:C6	2.25	0.71
13:AM:46:LYS:HG3	13:AM:47:ASP:H	1.53	0.71
1:CA:565:U:H3'	1:CA:566:G:H2'	1.71	0.71
38:DD:247:ALA:HA	38:DD:254:THR:HG22	1.72	0.71
1:CA:1483:A:H2'	1:CA:1484:C:O4'	1.90	0.71
53:DW:32:ALA:O	53:DW:35:ILE:HB	1.90	0.71
35:DA:2853:C:H2'	35:DA:2854:G:H8	1.55	0.71
50:DT:88:ILE:HG22	50:DT:89:VAL:N	2.05	0.71
34:B8:13:ARG:HB3	46:BP:63:PRO:CA	2.15	0.71
45:BO:68:GLU:HB3	45:BO:78:ARG:HD3	1.73	0.71
50:BT:25:GLY:HA2	50:BT:92:GLY:CA	2.20	0.71
56:BZ:24:LEU:HG	56:BZ:25:PRO:HD2	1.72	0.71
42:DH:105:LEU:HD22	42:DH:105:LEU:N	2.04	0.71
42:BH:83:TYR:HB3	42:BH:135:GLY:O	1.91	0.71
47:DQ:33:GLY:HA2	47:DQ:105:GLU:HA	1.72	0.71
35:BA:621:A:H2'	35:BA:622:G:H5'	1.70	0.71
48:DR:95:THR:HA	48:DR:116:LEU:O	1.90	0.71
48:DR:61:HIS:O	48:DR:65:LEU:HB2	1.90	0.71
36:DB:7:G:H3'	36:DB:8:U:C5'	2.21	0.71
2:CB:233:SER:HB2	2:CB:234:PRO:HD2	1.72	0.71
1:AA:1220:G:H2'	1:AA:1221:G:H8	1.55	0.71
47:BQ:55:VAL:HG12	47:BQ:64:ILE:CD1	2.20	0.71
13:CM:91:ARG:HB3	13:CM:96:LEU:O	1.90	0.71
20:CT:100:ILE:H	20:CT:100:ILE:HD12	1.53	0.71
35:BA:108:U:H2'	35:BA:109:G:H8	1.56	0.71
35:BA:549:G:H2'	35:BA:551:G:C5'	2.19	0.71
54:BX:18:TYR:HA	54:BX:21:PHE:CD1	2.25	0.71
8:AH:82:HIS:HD2	8:AH:138:TRP:NE1	1.87	0.71
17:CQ:3:LYS:HD2	17:CQ:60:ILE:HD11	1.71	0.71
3:AC:155:GLY:HA3	3:AC:163:ALA:HB1	1.70	0.71
32:D6:36:LEU:HD13	32:D6:50:ARG:NH1	2.05	0.71
43:DI:57:ARG:HB3	43:DI:57:ARG:NH1	2.05	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:BD:79:VAL:CG1	38:BD:113:VAL:HA	2.19	0.71
17:AQ:82:MET:O	17:AQ:85:VAL:HB	1.89	0.71
35:BA:1314:C:H5'	35:BA:1314:C:H6	1.56	0.71
35:DA:1221(A):C:O2'	35:DA:1222:C:H5'	1.90	0.71
45:DO:36:GLY:N	45:DO:62:VAL:HB	2.05	0.71
50:DT:52:ILE:HG13	50:DT:52:ILE:O	1.90	0.71
35:BA:1788:C:H2'	35:BA:1789:A:H8	1.55	0.71
5:CE:12:LEU:HD13	5:CE:31:LEU:HB3	1.72	0.71
41:DG:137:GLU:CG	41:DG:138:GLN:H	2.01	0.71
47:BQ:25:ASP:HA	56:BZ:78:LYS:HZ1	1.53	0.71
35:BA:536:A:H2'	35:BA:537:C:C6	2.25	0.71
42:DH:122:THR:HB	42:DH:134:SER:HB2	1.71	0.71
27:B1:87:PRO:C	27:B1:89:GLU:H	1.92	0.71
41:BG:135:LEU:HG	41:BG:136:ARG:H	1.54	0.71
28:D2:41:ILE:H	28:D2:41:ILE:CD1	1.97	0.71
51:DU:93:LYS:HD3	51:DU:93:LYS:H	1.54	0.71
1:CA:410:G:H21	1:CA:432:A:H62	1.36	0.71
1:CA:543:C:H2'	1:CA:544:G:C8	2.26	0.71
25:AY:76:LEU:CD1	25:AY:99:LEU:HG	2.20	0.71
35:BA:797:C:H2'	35:BA:798:G:H8	1.53	0.71
40:DF:41:LEU:HD11	40:DF:184:TYR:HE1	1.56	0.71
55:BY:88:LYS:HD2	55:BY:88:LYS:N	2.05	0.71
48:DR:11:ASN:O	48:DR:12:ARG:HG3	1.90	0.71
48:BR:24:GLN:HE22	48:BR:36:THR:HG21	1.54	0.71
51:DU:21:ALA:HB2	51:DU:35:ALA:HB1	1.71	0.71
12:AL:85:ILE:HD11	12:AL:98:TYR:CB	2.20	0.71
42:BH:16:SER:CB	42:BH:27:LYS:HB2	2.20	0.71
11:AK:21:ILE:HD13	11:AK:84:VAL:HG12	1.72	0.71
8:CH:120:THR:HG23	8:CH:123:GLU:OE1	1.90	0.71
35:DA:660:G:H5'	40:DF:99:TYR:CE2	2.25	0.71
9:CI:28:VAL:CG1	9:CI:64:THR:HA	2.21	0.71
35:BA:2591:C:OP2	38:BD:239:ARG:HB2	1.90	0.71
39:BE:203:LYS:HD2	39:BE:203:LYS:O	1.90	0.71
35:DA:2189:U:C3'	35:DA:2190:G:H5''	2.19	0.71
35:DA:1614:A:N6	53:DW:93:ALA:HB2	2.06	0.71
35:DA:2772:C:H2'	35:DA:2773:C:C6	2.25	0.71
44:BN:137:LYS:HG2	44:BN:138:LEU:H	1.56	0.71
35:BA:2749:A:H4'	42:BH:62:LYS:HB3	1.73	0.71
5:AE:13:ILE:HA	5:AE:29:GLY:O	1.90	0.71
2:AB:49:GLU:O	2:AB:52:GLU:HB3	1.90	0.71
35:DA:2749:A:H4'	42:DH:62:LYS:HB3	1.72	0.71
35:DA:2201:C:O2'	35:DA:2202:C:H5'	1.90	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
56:BZ:104:PHE:CD1	56:BZ:139:VAL:HG21	2.25	0.71
29:B3:59:VAL:HG12	29:B3:60:GLU:N	2.03	0.71
1:AA:903:G:H2'	1:AA:904:C:H6	1.54	0.71
41:DG:5:VAL:CG1	41:DG:6:ALA:H	1.91	0.71
32:B6:11:LEU:HG	32:B6:26:ASN:HD21	1.55	0.71
35:BA:2677:G:H2'	35:BA:2678:C:H6	1.55	0.71
39:BE:9:VAL:HG13	39:BE:25:VAL:O	1.91	0.71
45:BO:2:ILE:HD12	45:BO:6:THR:HG21	1.72	0.71
56:BZ:150:LEU:N	56:BZ:150:LEU:HD22	2.05	0.71
35:BA:559:G:N2	51:BU:49:HIS:CD2	2.59	0.71
44:BN:9:VAL:HG11	44:BN:39:ARG:NH2	2.04	0.71
41:BG:46:ALA:HB2	41:BG:88:ILE:HB	1.71	0.71
41:BG:43:LEU:HD21	41:BG:88:ILE:HG22	1.70	0.71
41:BG:28:VAL:HG12	41:BG:28:VAL:O	1.90	0.71
42:BH:92:ILE:HG22	42:BH:93:GLY:N	2.06	0.71
49:BS:15:ARG:HB3	49:BS:18:ILE:CD1	2.17	0.71
34:B8:52:LYS:N	34:B8:53:PRO:CD	2.54	0.71
49:DS:85:VAL:HG23	49:DS:86:ALA:N	2.05	0.71
55:DY:28:LYS:HB2	55:DY:37:VAL:HB	1.72	0.71
35:BA:342:G:H2'	35:BA:343:C:C5'	2.19	0.71
35:DA:1412:A:H2'	35:DA:1413:G:C8	2.25	0.71
35:DA:621:A:H2'	35:DA:622:G:H5'	1.72	0.71
12:CL:46:LYS:HG2	12:CL:47:LYS:N	2.04	0.71
9:CI:2:GLU:O	9:CI:3:GLN:HG3	1.90	0.71
2:AB:105:PHE:O	2:AB:108:ILE:HG22	1.90	0.71
35:BA:2186:G:C2'	35:BA:2187:G:H5''	2.20	0.71
5:CE:72:GLN:HE22	5:CE:77:PRO:HD3	1.55	0.71
53:DW:87:PRO:HA	53:DW:93:ALA:HB2	1.73	0.71
35:DA:285:C:H2'	35:DA:286:C:H5''	1.72	0.71
35:BA:2859:G:H2'	35:BA:2860:A:C8	2.26	0.71
10:CJ:30:SER:O	10:CJ:81:THR:HG23	1.91	0.71
26:B0:48:GLY:HA3	26:B0:80:HIS:ND1	2.05	0.71
1:CA:477:A:O2'	1:CA:479:C:H5'	1.90	0.71
35:DA:481:G:H1'	35:DA:506:G:N2	2.06	0.71
19:AS:43:GLU:C	19:AS:45:VAL:H	1.94	0.71
50:DT:109:GLU:O	50:DT:113:LYS:HG3	1.89	0.71
44:BN:39:ARG:HD3	44:BN:39:ARG:O	1.89	0.71
42:DH:83:TYR:HB3	42:DH:135:GLY:O	1.89	0.71
35:DA:1860:G:H1	35:DA:1882:C:H42	1.38	0.71
35:BA:2773:C:H5''	39:BE:164:ARG:O	1.89	0.71
49:BS:38:GLN:HG2	49:BS:39:ILE:N	2.04	0.71
46:BP:70:GLN:HG3	46:BP:71:VAL:H	1.56	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1258:C:H2'	35:BA:1259:G:H8	1.54	0.71
35:BA:2069:G:O2'	35:BA:2070:G:H5'	1.91	0.71
40:DF:112:MET:HA	40:DF:115:ALA:HB3	1.71	0.71
55:BY:88:LYS:HZ3	55:BY:93:GLY:N	1.84	0.71
35:DA:1279:G:H4'	48:DR:31:HIS:CD2	2.24	0.71
48:DR:62:ALA:O	48:DR:66:VAL:HG23	1.91	0.71
49:DS:15:ARG:HB3	49:DS:18:ILE:CD1	2.14	0.71
4:AD:33:MET:HE2	4:AD:37:PRO:HA	1.72	0.71
1:AA:738:C:H5''	6:AF:69:GLU:HB2	1.73	0.71
18:AR:78:LEU:O	18:AR:79:LEU:HG	1.90	0.71
39:BE:183:LEU:HD21	50:BT:11:GLU:HB3	1.71	0.71
55:BY:28:LYS:HA	55:BY:39:VAL:H	1.53	0.71
9:AI:83:ARG:O	9:AI:86:VAL:HG12	1.89	0.71
1:AA:559:A:H4'	1:AA:560:U:C5'	2.20	0.71
4:AD:132:ARG:HD2	4:AD:132:ARG:O	1.90	0.71
35:BA:1751:C:O2'	35:BA:1752:C:H5'	1.91	0.71
35:BA:2558:C:H2'	35:BA:2559:C:H6	1.54	0.71
4:CD:142:PRO:HA	4:CD:185:PHE:HD2	1.55	0.71
1:AA:1241:G:H2'	1:AA:1242:C:C6	2.26	0.71
26:D0:72:ARG:HD3	26:D0:75:LEU:HD13	1.73	0.71
50:DT:102:ILE:HA	50:DT:110:ILE:HD11	1.72	0.71
50:DT:25:GLY:HA2	50:DT:92:GLY:CA	2.20	0.71
50:DT:83:ILE:HG13	50:DT:84:GLN:N	2.06	0.71
1:CA:15:G:H4'	5:CE:24:ARG:NH2	2.05	0.71
38:DD:177:LEU:HD12	38:DD:181:GLU:HG3	1.73	0.71
41:DG:144:ILE:HG13	41:DG:145:THR:H	1.54	0.71
41:DG:135:LEU:HD23	41:DG:155:MET:HE1	1.73	0.71
34:B8:32:LEU:HB3	34:B8:35:GLN:H	1.56	0.71
45:BO:107:ARG:NH1	50:BT:36:GLU:H	1.89	0.71
35:DA:1418:G:H1	35:DA:1579:A:H5'	1.55	0.71
1:AA:972:C:O3'	10:AJ:57:LYS:HG2	1.90	0.71
9:AI:114:TYR:N	9:AI:114:TYR:CD2	2.51	0.71
41:BG:132:ASN:OD1	41:BG:158:ALA:HA	1.90	0.71
49:BS:85:VAL:HG23	49:BS:86:ALA:N	2.06	0.71
4:CD:59:ARG:O	4:CD:62:GLN:HB2	1.91	0.71
35:BA:792:G:H5''	35:BA:793:A:H5'	1.71	0.71
46:BP:32:THR:O	46:BP:33:ARG:HB2	1.90	0.71
46:BP:39:LYS:HD3	46:BP:40:SER:H	1.54	0.71
44:BN:120:LEU:CD1	44:BN:122:VAL:HG23	2.21	0.71
1:AA:542:G:H2'	1:AA:543:C:C6	2.26	0.71
1:AA:706:A:C5	1:AA:707:C:H5	2.09	0.71
1:CA:1350:A:OP2	9:CI:118:LYS:HD2	1.90	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:BP:129:ALA:C	46:BP:130:PHE:HD2	1.93	0.71
35:BA:323:G:HO2'	35:BA:1205:U:H3	1.38	0.71
43:DI:54:GLN:HG2	43:DI:57:ARG:HH12	1.55	0.71
13:CM:9:ILE:HG22	13:CM:11:ARG:HG3	1.72	0.71
4:CD:5:ILE:HG22	4:CD:6:GLY:N	2.03	0.71
35:DA:285:C:C3'	35:DA:286:C:H5''	2.21	0.71
1:AA:6:G:H4'	1:AA:298:A:H4'	1.72	0.71
1:CA:1375:A:H2'	1:CA:1376:U:C6	2.25	0.71
33:D7:45:ALA:O	33:D7:46:VAL:HB	1.90	0.71
3:AC:127:ARG:HG2	3:AC:127:ARG:HH11	1.54	0.71
40:DF:10:PRO:HD2	40:DF:13:SER:O	1.90	0.71
7:CG:151:TYR:O	7:CG:154:TYR:HB2	1.90	0.71
10:AJ:42:THR:HG23	10:AJ:68:HIS:HA	1.73	0.71
50:BT:62:THR:HG21	50:BT:75:ILE:HG13	1.73	0.71
42:DH:126:PRO:O	42:DH:127:GLU:HG2	1.91	0.71
54:BX:49:VAL:HG12	54:BX:50:LYS:H	1.55	0.71
35:BA:673:C:H5'	40:BF:54:ARG:HH12	1.55	0.71
35:BA:814:C:O2'	35:BA:815:C:H5'	1.90	0.71
2:AB:204:ASN:HD21	2:AB:207:ALA:H	1.39	0.71
2:AB:54:THR:HG22	2:AB:58:ILE:HD11	1.73	0.71
2:AB:178:ARG:HH21	8:AH:74:PRO:HG3	1.56	0.71
45:BO:113:LYS:O	45:BO:117:LEU:HG	1.89	0.71
35:DA:2752:C:H5	35:DA:2753:A:H62	1.37	0.71
2:CB:105:PHE:O	2:CB:108:ILE:HG22	1.91	0.71
1:AA:955:U:H1'	1:AA:1227:A:N6	2.05	0.71
1:CA:1349:A:P	9:CI:118:LYS:HZ2	2.12	0.71
1:AA:1280:A:H5''	10:AJ:40:LEU:HD13	1.73	0.71
35:DA:2317:C:O2'	35:DA:2318:G:H5'	1.91	0.71
39:DE:203:LYS:HD2	39:DE:203:LYS:O	1.89	0.71
1:CA:266:G:H22	1:CA:270:A:H62	1.39	0.71
35:DA:120:U:H1'	35:DA:149:A:C8	2.26	0.71
4:AD:128:VAL:HG12	4:AD:129:ASN:N	2.06	0.71
1:AA:1258:G:H2'	1:AA:1259:C:C6	2.26	0.71
1:AA:597:G:H2'	1:AA:598:U:H5'	1.72	0.71
13:AM:23:TYR:CD1	13:AM:67:GLU:HA	2.26	0.71
35:BA:1336:A:H2'	35:BA:1337:G:C8	2.25	0.71
35:BA:1364:G:H1'	35:BA:1368:G:H22	1.52	0.71
27:B1:20:ARG:HH12	27:B1:41:ARG:CZ	2.04	0.71
35:DA:1449:A:C2	35:DA:1529:G:H1'	2.26	0.71
26:D0:48:GLY:HA3	26:D0:80:HIS:ND1	2.05	0.71
19:CS:43:GLU:C	19:CS:45:VAL:H	1.94	0.71
35:DA:1034:G:N2	35:DA:1122:G:H1'	2.05	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
45:DO:104:ARG:NH1	45:DO:104:ARG:HB3	2.06	0.71
10:CJ:56:HIS:O	10:CJ:58:ASP:N	2.24	0.71
38:BD:210:GLY:O	38:BD:212:SER:N	2.24	0.71
38:BD:14:ARG:CB	38:BD:14:ARG:HH11	2.01	0.71
45:BO:16:ALA:HB1	45:BO:43:VAL:HG13	1.72	0.71
39:DE:77:ILE:CG2	39:DE:78:LEU:N	2.53	0.71
41:BG:178:PHE:HB3	41:BG:180:PHE:CE1	2.24	0.71
54:DX:58:HIS:O	54:DX:59:VAL:HG13	1.89	0.71
54:DX:29:TRP:HZ3	54:DX:76:ARG:HG2	1.54	0.71
35:DA:2598:A:C5'	38:DD:236:GLY:H	1.94	0.71
36:BB:7:G:H4'	49:BS:29:PHE:CE2	2.25	0.71
44:BN:62:VAL:O	44:BN:63:THR:HG22	1.90	0.71
55:DY:27:VAL:HG12	55:DY:29:GLU:H	1.56	0.71
25:CY:106:LEU:HD12	25:CY:110:ARG:HG2	1.72	0.71
35:BA:78:A:H2'	35:BA:79:G:H8	1.55	0.71
11:AK:44:SER:N	11:AK:47:VAL:HG21	2.05	0.71
12:AL:47:LYS:CG	12:AL:48:PRO:HD3	2.20	0.71
1:CA:1280:A:H5''	10:CJ:40:LEU:HD13	1.72	0.71
1:CA:1239:A:H62	1:CA:1299:A:H62	1.36	0.71
35:BA:285:C:C3'	35:BA:286:C:H5''	2.21	0.71
35:BA:2290:G:H5'	35:BA:2290:G:H8	1.55	0.71
26:B0:49:LYS:HB2	26:B0:80:HIS:HB3	1.71	0.71
1:AA:930:C:O2'	1:AA:931:C:H5'	1.91	0.71
10:CJ:42:THR:HG23	10:CJ:68:HIS:HA	1.72	0.71
35:BA:1887:C:H3'	35:BA:1888:G:H5''	1.73	0.71
35:BA:986:C:O2'	35:BA:987:G:H5'	1.91	0.71
35:DA:1031:G:H22	35:DA:1124:C:H1'	1.56	0.71
45:DO:107:ARG:HH11	50:DT:36:GLU:H	1.37	0.71
35:BA:1803:A:O2'	38:BD:259:THR:HG21	1.91	0.71
41:DG:125:PHE:CD1	41:DG:125:PHE:N	2.57	0.71
41:DG:73:ALA:N	41:DG:87:PRO:HD2	2.06	0.71
35:BA:2853:C:H2'	35:BA:2854:G:H8	1.56	0.71
39:BE:78:LEU:CD2	39:BE:78:LEU:H	2.03	0.71
27:B1:73:LEU:HA	27:B1:76:ARG:HH12	1.56	0.71
41:BG:125:PHE:HB2	41:BG:166:ASP:OD2	1.91	0.71
56:DZ:48:PHE:CE2	56:DZ:71:VAL:HG11	2.24	0.71
3:AC:150:LYS:HG3	3:AC:169:ALA:HB2	1.72	0.71
1:CA:986:A:H1'	19:CS:54:GLY:O	1.91	0.71
49:BS:28:VAL:HG12	49:BS:29:PHE:N	2.03	0.71
4:CD:59:ARG:HH22	4:CD:66:ARG:NH2	1.89	0.71
3:AC:148:GLY:CA	3:AC:203:PHE:HB3	2.20	0.71
34:D8:52:LYS:HE3	34:D8:52:LYS:HA	1.73	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AD:119:GLN:HG3	4:AD:123:HIS:HD2	1.54	0.71
12:CL:102:ARG:HG2	12:CL:102:ARG:HH11	1.56	0.71
35:DA:2701:C:H3'	35:DA:2702:U:C5'	2.20	0.71
20:CT:60:GLU:HG3	20:CT:81:LYS:HE3	1.72	0.71
2:CB:101:MET:HB2	2:CB:102:LEU:HD12	1.73	0.71
1:AA:778:G:O2'	1:AA:779:C:H5'	1.90	0.71
39:DE:101:ARG:HD3	39:DE:169:ASN:ND2	2.05	0.71
35:DA:1301:A:H4'	35:DA:1302:A:OP1	1.90	0.71
13:AM:52:GLU:O	13:AM:56:LEU:HB2	1.91	0.71
13:AM:9:ILE:HG22	13:AM:11:ARG:HG3	1.73	0.71
35:DA:2859:G:H2'	35:DA:2860:A:C8	2.26	0.71
4:CD:80:GLU:O	4:CD:84:LYS:HG2	1.91	0.71
45:DO:13:ASN:O	45:DO:15:GLY:N	2.23	0.71
1:CA:417:C:O2'	1:CA:418:C:H5'	1.90	0.71
50:BT:50:ILE:HA	50:BT:99:LEU:HD11	1.73	0.70
56:BZ:58:VAL:HA	56:BZ:67:LEU:O	1.91	0.70
35:BA:1345:C:H2'	35:BA:1346:G:H8	1.55	0.70
2:AB:84:GLU:CB	2:AB:219:VAL:HG21	2.20	0.70
41:BG:172:LEU:N	41:BG:175:LEU:HD12	2.05	0.70
41:BG:47:LYS:HE3	41:BG:81:LYS:CB	2.19	0.70
35:DA:1342:A:H5'	54:DX:55:ASN:OD1	1.91	0.70
56:DZ:33:LEU:HD11	56:DZ:35:ARG:HG2	1.72	0.70
1:CA:1220:G:H2'	1:CA:1221:G:H8	1.55	0.70
4:CD:65:ARG:HD2	4:CD:70:ILE:O	1.91	0.70
34:B8:14:VAL:CG1	34:B8:22:VAL:HG13	2.20	0.70
35:BA:807:U:H2'	35:BA:808:G:H8	1.56	0.70
35:BA:1279:G:H4'	48:BR:31:HIS:CD2	2.26	0.70
27:D1:26:ARG:HA	27:D1:34:THR:HA	1.71	0.70
3:AC:173:VAL:HG12	3:AC:173:VAL:O	1.91	0.70
42:DH:16:SER:CB	42:DH:27:LYS:HB2	2.21	0.70
11:AK:69:ALA:HA	11:AK:72:ALA:HB3	1.72	0.70
55:BY:68:HIS:HB3	55:BY:71:LYS:NZ	2.06	0.70
35:DA:2125:G:N2	35:DA:2173:A:H62	1.84	0.70
6:CF:45:LEU:HD12	6:CF:46:ARG:N	2.06	0.70
40:DF:164:ARG:HG3	40:DF:175:THR:OG1	1.90	0.70
17:AQ:46:ASP:OD1	17:AQ:49:GLU:HA	1.91	0.70
35:BA:2801(A):A:H4'	35:BA:2802:G:C2'	2.21	0.70
16:CP:82:GLN:HE21	16:CP:82:GLN:H	1.39	0.70
32:B6:32:ASN:CG	32:B6:33:LYS:H	1.94	0.70
35:DA:1340:U:C6	35:DA:1603:A:O4'	2.44	0.70
35:DA:1336:A:H2'	35:DA:1337:G:C8	2.25	0.70
47:BQ:140:ALA:HB2	56:BZ:99:TYR:CG	2.25	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BE:100:GLU:O	39:BE:172:VAL:HG23	1.90	0.70
39:BE:52:LEU:HD12	39:BE:53:PRO:HD2	1.73	0.70
52:BV:28:GLU:CB	52:BV:29:PRO:HD3	2.13	0.70
42:DH:149:ARG:HG3	42:DH:162:ILE:HD11	1.72	0.70
28:D2:49:LYS:O	28:D2:52:ASP:N	2.24	0.70
38:DD:236:GLY:O	38:DD:237:GLU:HG2	1.91	0.70
19:CS:15:LEU:H	19:CS:15:LEU:HD22	1.56	0.70
35:BA:1639:U:O2'	35:BA:1640:C:H5''	1.91	0.70
2:AB:69:LEU:CD1	2:AB:71:VAL:HG23	2.20	0.70
40:DF:63:LYS:HZ1	40:DF:67:GLN:HB3	1.55	0.70
35:DA:690:G:H2'	35:DA:691:C:C6	2.26	0.70
1:AA:1320:C:N4	19:AS:36:ARG:HG3	2.07	0.70
1:CA:1401:G:C2'	1:CA:1402:C:H5'	2.21	0.70
35:DA:1131:G:N3	35:DA:1132:A:N7	2.39	0.70
1:CA:1307:U:H2'	1:CA:1308:U:C6	2.25	0.70
51:BU:21:ALA:HB2	51:BU:35:ALA:HB1	1.72	0.70
35:BA:1428:C:O2'	35:BA:1429:G:H5'	1.90	0.70
12:AL:38:THR:HG22	12:AL:57:LYS:O	1.90	0.70
7:AG:151:TYR:O	7:AG:154:TYR:HB2	1.90	0.70
13:AM:91:ARG:HB3	13:AM:98:VAL:HG22	1.73	0.70
3:CC:173:VAL:O	3:CC:173:VAL:HG12	1.90	0.70
56:DZ:76:LEU:CD2	56:DZ:76:LEU:N	2.54	0.70
38:DD:172:TYR:CD1	38:DD:186:HIS:HA	2.25	0.70
2:AB:101:MET:HA	2:AB:108:ILE:HG13	1.74	0.70
26:D0:23:VAL:HG13	26:D0:37:LEU:O	1.90	0.70
48:BR:4:LEU:O	48:BR:4:LEU:HD13	1.91	0.70
1:AA:741:G:H2'	1:AA:742:G:H8	1.56	0.70
35:BA:2075:U:H2'	35:BA:2238:G:N2	2.06	0.70
1:AA:748:C:H1'	1:AA:749:C:OP2	1.91	0.70
1:AA:1388:C:H2'	1:AA:1389:C:C6	2.26	0.70
35:DA:6:A:O2'	44:DN:130:HIS:HB2	1.90	0.70
35:DA:2681:C:H5	35:DA:2725:A:H62	1.37	0.70
41:DG:51:ARG:HA	41:DG:51:ARG:HE	1.56	0.70
41:DG:67:LYS:HD2	41:DG:67:LYS:H	1.56	0.70
50:BT:27:THR:HA	50:BT:88:ILE:H	1.53	0.70
56:BZ:162:GLU:O	56:BZ:164:ALA:N	2.24	0.70
35:DA:2807:G:H3'	35:DA:2808:U:H5''	1.73	0.70
27:B1:87:PRO:O	27:B1:90:ILE:HG12	1.91	0.70
55:DY:74:PRO:O	55:DY:75:ILE:HB	1.89	0.70
1:AA:1057:G:O2'	1:AA:1058:G:H5'	1.91	0.70
4:CD:33:MET:CE	4:CD:37:PRO:HA	2.21	0.70
27:D1:67:ILE:N	27:D1:68:PRO:CD	2.55	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:803:U:O2'	35:BA:804:A:H5'	1.91	0.70
49:DS:25:ARG:NH2	49:DS:89:ARG:HH12	1.88	0.70
6:AF:91:VAL:HG11	18:AR:72:ARG:HH12	1.55	0.70
1:CA:1443:G:N2	1:CA:1460:A:H1'	2.07	0.70
1:AA:694:A:H5''	11:AK:53:SER:HB3	1.72	0.70
31:B5:56:LYS:O	31:B5:57:VAL:HG13	1.90	0.70
35:DA:364:C:C2'	35:DA:365:C:H5''	2.20	0.70
33:D7:25:PRO:HG2	33:D7:26:GLY:H	1.56	0.70
56:BZ:17:ALA:HA	56:BZ:20:ARG:HD2	1.71	0.70
35:BA:740:U:H2'	35:BA:741:G:H8	1.53	0.70
1:AA:892:A:H2'	1:AA:893:C:H6	1.55	0.70
1:AA:728:A:H2'	1:AA:729:A:C8	2.25	0.70
35:DA:1290:C:H2'	35:DA:1291:C:C6	2.26	0.70
36:DB:11:C:H3'	36:DB:12:C:H6	1.56	0.70
44:DN:3:THR:HG22	44:DN:5:VAL:HG23	1.74	0.70
35:DA:1844:C:O2'	35:DA:1845:G:H5'	1.91	0.70
35:BA:6:A:O2'	44:BN:130:HIS:HB2	1.90	0.70
35:DA:1401:G:H2'	35:DA:1402:C:C6	2.26	0.70
27:D1:16:ASN:ND2	27:D1:16:ASN:H	1.90	0.70
45:DO:23:ARG:O	45:DO:39:ILE:HG13	1.91	0.70
50:DT:27:THR:HA	50:DT:88:ILE:H	1.56	0.70
50:BT:22:PHE:CD2	50:BT:22:PHE:N	2.54	0.70
1:AA:1191:A:H5''	3:AC:4:LYS:NZ	2.06	0.70
44:BN:42:TRP:N	51:BU:64:ARG:NH1	2.39	0.70
41:BG:173:LEU:H	41:BG:173:LEU:CD2	2.04	0.70
54:DX:49:VAL:HG12	54:DX:50:LYS:N	2.07	0.70
42:BH:153:LYS:HB2	42:BH:154:PRO:HD2	1.73	0.70
52:DV:3:ALA:HB3	52:DV:14:VAL:HB	1.72	0.70
4:CD:153:ARG:HB3	4:CD:153:ARG:NH1	2.07	0.70
35:DA:2394:C:OP1	46:DP:63:PRO:HD2	1.89	0.70
35:BA:2467:C:C2'	35:BA:2468:G:H5'	2.21	0.70
55:BY:28:LYS:HD2	55:BY:37:VAL:CG1	2.21	0.70
55:BY:31:LEU:CD1	55:BY:34:LYS:H	2.03	0.70
5:AE:12:LEU:HD13	5:AE:31:LEU:HB3	1.72	0.70
1:CA:1346:A:N1	1:CA:1374:A:H5''	2.06	0.70
56:BZ:107:THR:CG2	56:BZ:111:VAL:HG11	2.22	0.70
1:CA:625:G:H2'	1:CA:626:U:C6	2.26	0.70
35:DA:2672:G:C2'	35:DA:2673:G:H5''	2.21	0.70
7:AG:65:ALA:HB1	7:AG:127:ALA:HB3	1.74	0.70
1:CA:489:C:H2'	1:CA:490:G:C8	2.26	0.70
5:AE:90:VAL:C	5:AE:91:LEU:HD12	2.11	0.70
35:BA:445:C:H5''	51:BU:3:ARG:CB	2.21	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1786:A:N7	35:DA:1938:A:N7	2.40	0.70
35:BA:1570:A:H2'	35:BA:1571:A:H8	1.54	0.70
29:D3:29:ARG:HH11	35:DA:1183:G:H4'	1.56	0.70
35:DA:2007:C:H2'	35:DA:2008:C:H6	1.56	0.70
1:CA:498:U:H2'	1:CA:498:U:O2	1.89	0.70
35:BA:713:G:O2'	35:BA:714:U:H5'	1.90	0.70
35:BA:1799:G:OP1	38:BD:260:ARG:HD2	1.92	0.70
35:BA:783:A:H2'	35:BA:784:A:H4'	1.73	0.70
38:DD:94:LEU:HD13	38:DD:94:LEU:O	1.91	0.70
39:BE:96:PHE:HA	39:BE:100:GLU:OE1	1.91	0.70
39:DE:59:VAL:CG2	39:DE:63:LEU:HA	2.22	0.70
35:BA:2200:C:H42	35:BA:2223:G:H1	1.39	0.70
28:D2:48:HIS:NE2	35:DA:75:G:H4'	2.06	0.70
47:DQ:65:PHE:O	47:DQ:66:ILE:HG23	1.91	0.70
4:CD:119:GLN:HG3	4:CD:123:HIS:HD2	1.55	0.70
35:BA:2579:C:O2'	35:BA:2580:U:H5'	1.90	0.70
46:BP:23:PRO:HD2	46:BP:33:ARG:CZ	2.21	0.70
55:BY:81:LYS:HD3	55:BY:97:ARG:O	1.90	0.70
35:BA:2820:A:H62	39:BE:192:ASN:HB2	1.57	0.70
48:BR:41:ALA:HB1	48:BR:114:VAL:CG2	2.21	0.70
49:DS:92:TYR:CD1	49:DS:93:LYS:N	2.59	0.70
35:DA:78:A:H2'	35:DA:79:G:H8	1.54	0.70
1:AA:448:A:O2'	1:AA:449:C:H5'	1.91	0.70
25:AY:130:ARG:NH1	25:AY:130:ARG:HG3	2.06	0.70
1:AA:692:U:H2'	1:AA:694:A:OP2	1.91	0.70
1:AA:956:U:O2'	1:AA:957:U:H5'	1.91	0.70
35:BA:541:C:H2'	35:BA:542:C:C6	2.26	0.70
35:BA:2732:G:C3'	35:BA:2733:A:H5'	2.22	0.70
1:CA:114:U:H2'	1:CA:115:G:C8	2.26	0.70
1:CA:254:G:O2'	1:CA:255:G:H5'	1.90	0.70
35:DA:2114:A:H2'	35:DA:2115:G:H5'	1.73	0.70
7:CG:137:LYS:O	7:CG:141:VAL:HG23	1.91	0.70
11:CK:59:TYR:CZ	11:CK:63:LEU:HD11	2.25	0.70
1:AA:977:A:H2'	1:AA:978:A:H5'	1.73	0.70
1:CA:203:U:H4'	1:CA:216:G:C2	2.26	0.70
10:CJ:82:ILE:O	10:CJ:86:MET:HB3	1.90	0.70
47:BQ:30:GLY:HA3	47:BQ:107:ALA:HB2	1.72	0.70
10:AJ:30:SER:O	10:AJ:81:THR:HG23	1.90	0.70
50:DT:28:VAL:HG11	50:DT:46:GLU:HA	1.74	0.70
38:DD:158:ALA:O	38:DD:161:THR:HG23	1.92	0.70
41:DG:35:GLU:HA	41:DG:99:MET:HE1	1.74	0.70
34:B8:23:VAL:HG12	34:B8:46:ARG:NH1	2.06	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BE:176:ILE:HB	39:BE:181:LEU:HD23	1.72	0.70
27:B1:46:LEU:N	27:B1:46:LEU:HD12	2.06	0.70
27:B1:11:ARG:HH11	27:B1:60:PHE:HA	1.56	0.70
41:BG:137:GLU:HB3	41:BG:140:ILE:HG23	1.74	0.70
55:DY:81:LYS:HD3	55:DY:97:ARG:O	1.91	0.70
28:D2:29:LYS:HG2	28:D2:32:LEU:HD23	1.72	0.70
42:BH:144:VAL:HG12	42:BH:148:ILE:HD11	1.74	0.70
44:DN:41:ASP:C	51:DU:64:ARG:HH11	1.95	0.70
39:BE:116:VAL:HG22	39:BE:117:MET:N	2.04	0.70
27:D1:89:GLU:OE2	27:D1:90:ILE:HG12	1.92	0.70
35:BA:251:A:H5''	46:BP:51:PHE:CE1	2.26	0.70
40:DF:18:ARG:HG2	40:DF:19:GLU:H	1.56	0.70
48:DR:116:LEU:O	48:DR:117:VAL:HB	1.92	0.70
50:BT:109:GLU:HB3	50:BT:113:LYS:CE	2.18	0.70
49:DS:34:HIS:CD2	49:DS:53:SER:HB3	2.27	0.70
27:D1:41:ARG:NH1	27:D1:41:ARG:HG3	2.05	0.70
1:AA:429:U:H1'	1:AA:430:A:H5''	1.72	0.70
43:DI:133:HIS:O	43:DI:135:GLU:HG3	1.92	0.70
13:CM:91:ARG:HB3	13:CM:98:VAL:HG22	1.74	0.70
40:DF:160:ASN:ND2	40:DF:162:LEU:H	1.89	0.70
8:AH:32:LYS:O	8:AH:35:ILE:HG12	1.90	0.70
1:AA:1249:C:H5''	9:AI:70:LYS:HE2	1.74	0.70
54:DX:18:TYR:HA	54:DX:21:PHE:CD1	2.25	0.70
42:BH:70:THR:O	42:BH:72:ILE:N	2.24	0.70
38:BD:131:LEU:CD1	38:BD:136:ILE:HG12	2.20	0.70
46:BP:79:ARG:HH21	46:BP:109:GLY:CA	2.05	0.70
56:BZ:17:ALA:HA	56:BZ:20:ARG:CB	2.21	0.70
53:BW:13:SER:HB3	53:BW:16:LYS:HD2	1.72	0.70
38:DD:117:VAL:HG22	38:DD:118:VAL:N	2.06	0.70
35:DA:49:A:OP2	35:DA:51:G:H5'	1.92	0.70
48:BR:61:HIS:O	48:BR:65:LEU:HB2	1.92	0.70
5:CE:35:GLY:HA3	5:CE:41:VAL:HG12	1.74	0.70
35:DA:1947:C:H2'	35:DA:1948:G:C8	2.27	0.70
1:CA:764:C:H2'	1:CA:765:G:C8	2.26	0.70
53:DW:51:LEU:HD13	53:DW:52:GLU:N	2.07	0.70
35:DA:986:C:O2'	35:DA:987:G:H5'	1.91	0.70
1:AA:946:A:H2'	1:AA:947:G:C8	2.26	0.70
40:BF:198:ALA:O	40:BF:201:VAL:HG12	1.92	0.70
12:CL:75:HIS:HD2	12:CL:77:LEU:HG	1.55	0.70
1:AA:303:A:OP1	12:AL:17:LYS:HE3	1.90	0.70
45:DO:63:VAL:CG2	45:DO:84:ALA:HA	2.21	0.70
35:DA:1791:A:O3'	38:DD:206:LEU:HB2	1.91	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:DG:132:ASN:HB2	41:DG:159:VAL:CG2	2.20	0.70
39:BE:11:MET:CB	39:BE:24:THR:HA	2.21	0.70
50:BT:38:ASN:HD22	50:BT:40:THR:N	1.90	0.70
39:BE:179:GLU:HB3	39:BE:181:LEU:CD2	2.20	0.70
39:BE:36:ARG:HH22	39:BE:88:GLY:CA	2.05	0.70
54:BX:58:HIS:O	54:BX:59:VAL:HG13	1.91	0.70
56:DZ:152:ALA:N	56:DZ:169:GLU:O	2.25	0.70
46:BP:23:PRO:HD2	46:BP:33:ARG:NH1	2.06	0.70
6:AF:62:TRP:HB2	18:AR:35:ARG:HH12	1.55	0.70
25:CY:26:ALA:O	25:CY:37:LEU:HA	1.92	0.70
35:BA:2036:C:H5'	35:BA:2036:C:C6	2.19	0.70
11:AK:103:LEU:CD2	11:AK:103:LEU:H	2.00	0.70
43:BI:110:ASP:O	43:BI:112:LYS:N	2.24	0.70
1:CA:562:C:H1'	12:CL:15:ARG:HB3	1.74	0.70
1:AA:1350:A:OP2	9:AI:118:LYS:HD2	1.92	0.70
1:AA:1369:C:OP2	9:AI:111:ARG:HA	1.92	0.70
1:AA:490:G:H2'	1:AA:491:G:H8	1.56	0.70
46:BP:74:GLU:OE2	46:BP:75:ILE:HD12	1.91	0.70
47:DQ:30:GLY:HA3	47:DQ:107:ALA:HB2	1.72	0.70
1:AA:203:U:H4'	1:AA:216:G:C2	2.27	0.70
35:DA:1249:U:H6	35:DA:1249:U:H5'	1.57	0.70
1:CA:1432:G:OP1	50:DT:107:ASP:HB2	1.91	0.70
35:BA:1899:G:N2	35:BA:1902:C:N4	2.39	0.70
38:DD:4:LYS:NZ	38:DD:20:ASP:HA	2.07	0.70
41:DG:60:LEU:HA	41:DG:63:ILE:HG13	1.74	0.70
35:BA:2852:G:H2'	35:BA:2853:C:C6	2.26	0.70
45:BO:43:VAL:HG21	45:BO:52:VAL:HG12	1.74	0.70
42:DH:103:LEU:HD23	42:DH:115:VAL:HB	1.72	0.70
39:DE:49:LEU:N	39:DE:49:LEU:HD22	2.07	0.70
36:DB:104:U:O2'	36:DB:105:A:H5'	1.91	0.70
52:DV:39:LEU:HD11	52:DV:53:GLU:N	2.06	0.70
10:AJ:5:ARG:HH21	10:AJ:99:LYS:HG3	1.56	0.70
47:DQ:52:VAL:CG1	47:DQ:53:ALA:H	1.99	0.70
35:BA:571:A:C5'	35:BA:2030:A:H62	2.05	0.70
35:BA:582:G:H2'	35:BA:583:G:C8	2.25	0.70
55:DY:28:LYS:HD2	55:DY:37:VAL:HG12	1.72	0.70
1:CA:1495:U:H2'	1:CA:1496:C:C6	2.27	0.70
51:DU:31:SER:HB3	51:DU:34:LYS:HB2	1.74	0.70
1:AA:1375:A:H2'	1:AA:1376:U:C6	2.27	0.70
7:AG:71:PRO:HG3	7:AG:103:TRP:HZ3	1.54	0.70
35:BA:2327:A:H2'	35:BA:2328:A:C8	2.26	0.70
55:BY:37:VAL:HG23	55:BY:38:ILE:N	2.04	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:693:G:N2	23:AW:38:A:H2	1.88	0.70
11:CK:69:ALA:HA	11:CK:72:ALA:HB3	1.74	0.70
8:CH:6:ILE:HG22	8:CH:10:LEU:HD11	1.72	0.70
46:BP:131:SER:HB2	46:BP:134:ALA:CB	2.21	0.70
1:CA:1410:G:H2'	1:CA:1411:C:H6	1.56	0.70
17:AQ:40:LYS:HD2	17:AQ:42:TYR:CE1	2.27	0.70
13:CM:52:GLU:O	13:CM:56:LEU:HB2	1.92	0.70
1:CA:336:C:O2'	1:CA:337:C:H5'	1.90	0.70
1:CA:6:G:H4'	1:CA:298:A:H4'	1.73	0.70
40:DF:8:GLN:HB2	40:DF:126:VAL:HA	1.74	0.70
35:BA:1031:G:H22	35:BA:1124:C:H1'	1.57	0.70
55:BY:50:ARG:HB2	55:BY:53:PRO:HG3	1.74	0.70
35:DA:2720:U:H5'	35:DA:2721:A:OP2	1.90	0.70
45:DO:107:ARG:NH1	50:DT:36:GLU:H	1.89	0.70
50:DT:83:ILE:HG13	50:DT:84:GLN:HG2	1.72	0.70
43:BI:88:ILE:HG22	43:BI:89:TYR:N	2.06	0.70
1:CA:974:A:H1'	14:CN:31:ARG:HH21	1.56	0.70
1:CA:972:C:O3'	10:CJ:57:LYS:HG2	1.91	0.70
1:CA:924:C:H2'	1:CA:925:G:H8	1.57	0.70
56:BZ:58:VAL:HG22	56:BZ:68:PRO:CA	2.22	0.70
28:B2:57:ILE:HG12	28:B2:59:ARG:NH1	2.06	0.70
54:BX:29:TRP:HZ3	54:BX:76:ARG:HG2	1.57	0.70
39:DE:78:LEU:CD2	39:DE:78:LEU:H	2.05	0.70
41:BG:64:THR:HG23	41:BG:65:GLY:H	1.57	0.70
28:D2:48:HIS:CD2	35:DA:75:G:HO2'	2.10	0.70
1:CA:1203:C:H2'	1:CA:1204:A:H8	1.57	0.70
35:DA:389:G:N1	46:DP:71:VAL:HB	2.04	0.70
34:B8:52:LYS:HE3	34:B8:52:LYS:HA	1.73	0.70
47:BQ:76:LYS:H	47:BQ:88:GLY:CA	2.04	0.70
1:AA:332:G:H2'	1:AA:333:G:H8	1.56	0.70
35:DA:189:G:H2'	35:DA:205:G:N2	2.07	0.70
6:CF:33:TYR:CD1	6:CF:75:LEU:HG	2.26	0.70
52:DV:70:ILE:HB	52:DV:90:PRO:CB	2.19	0.70
4:AD:117:ALA:O	4:AD:121:VAL:HG23	1.92	0.70
47:BQ:64:ILE:HG23	47:BQ:106:VAL:HG13	1.74	0.70
25:CY:64:ARG:HA	25:CY:103:ILE:CD1	2.21	0.70
1:AA:376:G:H5''	16:AP:5:ARG:HD2	1.73	0.70
25:AY:59:THR:O	25:AY:67:VAL:HG22	1.91	0.70
12:AL:85:ILE:HD11	12:AL:98:TYR:HB3	1.72	0.70
12:AL:86:ARG:HG2	12:AL:87:GLY:H	1.55	0.70
35:DA:2279:G:N2	35:DA:2280:G:H1'	2.06	0.70
2:CB:101:MET:HA	2:CB:108:ILE:HG13	1.74	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:661:C:H2'	35:DA:662:G:C8	2.27	0.70
1:AA:1507:A:C2	1:AA:1530:G:H1'	2.27	0.70
31:B5:40:LYS:HE2	31:B5:46:CYS:HB3	1.74	0.70
12:AL:102:ARG:HH11	12:AL:102:ARG:HG2	1.56	0.70
35:BA:364:C:C2'	35:BA:365:C:H5''	2.22	0.70
5:CE:149:GLU:O	5:CE:153:LYS:HG2	1.92	0.70
40:BF:160:ASN:ND2	40:BF:162:LEU:H	1.89	0.70
17:AQ:45:HIS:HB2	17:AQ:69:LYS:HE2	1.73	0.70
1:CA:471:G:H2'	1:CA:472:A:H8	1.56	0.70
1:AA:658:G:C1'	15:AO:22:THR:HB	2.21	0.70
17:CQ:82:MET:O	17:CQ:85:VAL:HB	1.92	0.70
36:BB:11:C:H3'	36:BB:12:C:H6	1.56	0.70
43:BI:62:LYS:O	43:BI:62:LYS:HD3	1.91	0.70
4:CD:194:LEU:HD22	4:CD:194:LEU:N	2.07	0.70
39:BE:173:VAL:HG12	39:BE:174:ASP:H	1.57	0.70
46:DP:122:PRO:HB3	46:DP:141:ALA:HB1	1.73	0.70
33:D7:48:LYS:N	33:D7:48:LYS:HD3	2.06	0.70
35:BA:1777:U:O2'	35:BA:1778:U:H5'	1.91	0.70
41:DG:72:ARG:HD3	41:DG:86:MET:HA	1.72	0.70
35:DA:1493:C:H4'	35:DA:1494:A:OP2	1.91	0.70
10:AJ:56:HIS:O	10:AJ:58:ASP:N	2.25	0.70
52:DV:61:VAL:HG23	52:DV:100:ARG:H	1.55	0.70
4:CD:13:ARG:HG2	4:CD:14:ARG:N	2.07	0.70
4:CD:18:LYS:NZ	4:CD:31:CYS:SG	2.65	0.70
35:BA:2051:A:H4'	39:BE:141:ILE:CD1	2.22	0.70
35:BA:2443:C:O2'	35:BA:2444:G:H5'	1.92	0.70
6:CF:39:LYS:HG2	6:CF:40:VAL:H	1.57	0.70
1:AA:986:A:H1'	19:AS:54:GLY:O	1.91	0.70
55:DY:2:ARG:N	55:DY:4:LYS:HE2	2.06	0.70
4:AD:59:ARG:HH22	4:AD:66:ARG:NH2	1.89	0.70
44:DN:14:VAL:HG12	44:DN:15:LEU:N	2.03	0.70
1:CA:1513:A:H2'	1:CA:1514:C:C6	2.27	0.70
25:CY:147:LEU:HD23	25:CY:148:HIS:N	2.06	0.70
35:DA:660:G:H5'	40:DF:99:TYR:CD2	2.26	0.70
1:AA:254:G:O2'	1:AA:255:G:H5'	1.92	0.70
35:BA:2801(A):A:H4'	35:BA:2802:G:H5'	1.74	0.70
35:DA:2186:G:C2'	35:DA:2187:G:H5''	2.22	0.70
4:CD:128:VAL:C	4:CD:130:GLY:H	1.93	0.70
35:BA:1301:A:H4'	35:BA:1302:A:OP1	1.91	0.70
35:DA:877:U:C2'	35:DA:878:A:H5''	2.22	0.70
2:AB:19:HIS:O	2:AB:39:ILE:HG23	1.91	0.70
35:BA:185:U:H2'	35:BA:186:G:C8	2.27	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1377:A:H2'	7:CG:7:ALA:HB3	1.72	0.70
1:CA:1366:C:H2'	1:CA:1367:C:C6	2.26	0.70
35:BA:2506:U:H4'	35:BA:2507:C:OP1	1.91	0.70
17:AQ:9:VAL:HG12	17:AQ:10:VAL:H	1.57	0.70
1:CA:137:C:H42	1:CA:226:G:H1	1.37	0.70
40:DF:32:LEU:C	40:DF:32:LEU:HD23	2.11	0.70
1:AA:243:A:H4'	1:AA:244:U:O5'	1.90	0.70
35:DA:1999:C:H2'	35:DA:2000:G:H8	1.57	0.69
50:DT:25:GLY:HA2	50:DT:92:GLY:N	2.06	0.69
35:DA:1789:A:H2'	35:DA:1790:C:H6	1.56	0.69
35:DA:2312:U:H2'	35:DA:2313:C:H5''	1.74	0.69
10:CJ:5:ARG:HH21	10:CJ:99:LYS:HG3	1.57	0.69
50:BT:30:VAL:HG12	50:BT:44:ASP:CA	2.22	0.69
50:BT:64:ARG:HB2	50:BT:73:GLU:HB3	1.73	0.69
35:BA:58:G:OP1	54:BX:72:LYS:HB3	1.91	0.69
27:B1:19:GLN:NE2	35:BA:379:G:H21	1.90	0.69
41:BG:83:ARG:HB3	41:BG:84:LYS:HD2	1.74	0.69
35:DA:1345:C:O2'	35:DA:1346:G:H5'	1.92	0.69
54:DX:57:LEU:HD12	54:DX:76:ARG:NE	2.06	0.69
47:DQ:116:GLU:O	47:DQ:119:ARG:HB3	1.92	0.69
52:DV:32:THR:HG22	52:DV:33:VAL:N	2.05	0.69
1:CA:1190:G:OP1	3:CC:5:ILE:HD12	1.92	0.69
3:CC:124:ILE:HG13	3:CC:130:VAL:HG22	1.74	0.69
44:DN:62:VAL:O	44:DN:63:THR:HG22	1.91	0.69
35:BA:588:U:H2'	35:BA:589:C:H6	1.55	0.69
52:BV:70:ILE:HB	52:BV:90:PRO:CB	2.19	0.69
48:DR:17:ARG:HH11	48:DR:17:ARG:HG2	1.57	0.69
44:BN:22:THR:CA	44:BN:61:ARG:HB2	2.20	0.69
18:CR:81:PHE:O	18:CR:82:THR:HB	1.92	0.69
35:BA:2125:G:N2	35:BA:2173:A:H62	1.85	0.69
43:BI:115:ALA:N	43:BI:131:LYS:HE2	2.07	0.69
35:BA:2282:G:H1	35:BA:2427:C:N4	1.89	0.69
1:AA:1507:A:H2'	1:AA:1508:G:H8	1.56	0.69
8:CH:45:ILE:HA	8:CH:64:LYS:HB3	1.73	0.69
56:BZ:142:SER:H	56:BZ:144:LEU:CD2	2.05	0.69
19:CS:53:ASN:HD21	19:CS:56:GLN:N	1.89	0.69
17:AQ:95:TYR:O	17:AQ:97:SER:N	2.25	0.69
1:CA:1422:G:H4'	45:DO:49:ARG:NH1	2.07	0.69
1:AA:235:C:H1'	17:AQ:61:GLU:OE1	1.92	0.69
38:BD:79:VAL:HG12	38:BD:113:VAL:HA	1.73	0.69
5:CE:82:VAL:HG21	5:CE:138:ALA:CA	2.22	0.69
13:CM:66:LEU:CA	13:CM:70:LEU:HD12	2.22	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2801(A):A:H4'	35:DA:2802:G:C2'	2.22	0.69
1:AA:750:G:N3	15:AO:23:GLY:HA3	2.07	0.69
35:BA:1844:C:O2'	35:BA:1845:G:H5'	1.92	0.69
12:CL:76:ASN:OD1	12:CL:108:ALA:HB3	1.90	0.69
40:DF:198:ALA:O	40:DF:201:VAL:HG12	1.90	0.69
1:AA:1206:G:H4'	3:AC:192:THR:O	1.92	0.69
35:DA:2203:U:O4'	38:DD:151:LYS:HE3	1.92	0.69
1:CA:688:G:H2'	1:CA:689:C:H6	1.55	0.69
1:AA:1288:A:H1'	1:AA:1352:C:O2'	1.92	0.69
35:BA:897:C:H1'	35:BA:899:A:N7	2.05	0.69
23:CW:57:C:H2'	23:CW:58:A:H8	1.57	0.69
45:DO:2:ILE:HD11	45:DO:82:ASN:CB	2.22	0.69
41:DG:129:GLY:C	41:DG:131:TYR:H	1.96	0.69
54:BX:81:VAL:HG13	54:BX:85:PRO:HB2	1.73	0.69
2:AB:233:SER:HB2	2:AB:234:PRO:HD2	1.72	0.69
41:BG:101:ILE:CD1	41:BG:105:LYS:HE3	2.22	0.69
41:BG:19:LEU:HD21	41:BG:175:LEU:CD1	2.22	0.69
47:DQ:66:ILE:HG22	47:DQ:104:PHE:CE2	2.26	0.69
40:BF:37:VAL:O	40:BF:40:GLN:HB2	1.93	0.69
47:BQ:10:ARG:HD3	47:BQ:12:GLN:HB3	1.75	0.69
2:CB:54:THR:HG22	2:CB:58:ILE:HD11	1.74	0.69
2:CB:69:LEU:CD1	2:CB:71:VAL:HG23	2.22	0.69
55:DY:28:LYS:HA	55:DY:39:VAL:H	1.56	0.69
43:DI:113:ARG:HA	43:DI:131:LYS:HE3	1.73	0.69
25:CY:14:MET:O	25:CY:18:LEU:HB3	1.91	0.69
19:CS:62:ILE:HD12	19:CS:63:THR:H	1.56	0.69
1:CA:1456:G:H2'	1:CA:1457:G:C5'	2.22	0.69
2:CB:102:LEU:CD1	2:CB:102:LEU:H	2.04	0.69
46:DP:80:TYR:CE1	46:DP:111:ARG:HB3	2.27	0.69
6:CF:53:ALA:HB3	6:CF:86:ARG:NH1	2.05	0.69
35:DA:1930:G:H22	35:DA:1968:G:H2'	1.58	0.69
46:DP:17:LYS:C	46:DP:19:VAL:H	1.95	0.69
36:BB:79:C:O2'	36:BB:80:U:H5'	1.91	0.69
35:DA:1751:C:O2'	35:DA:1752:C:H5'	1.92	0.69
1:AA:349:A:O2'	1:AA:350:G:H5'	1.91	0.69
6:CF:48:LEU:HD22	18:CR:77:GLY:HA3	1.72	0.69
17:AQ:11:VAL:HA	17:AQ:53:LEU:HD11	1.73	0.69
53:BW:70:TYR:HE2	53:BW:108:GLY:HA3	1.56	0.69
1:CA:668:G:O4'	15:CO:49:ASP:HB2	1.92	0.69
20:CT:57:ARG:NH1	20:CT:57:ARG:HB2	2.07	0.69
24:CX:20:A:H2'	24:CX:21:G:C8	2.27	0.69
35:DA:2845:G:O2'	35:DA:2846:G:H5'	1.92	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:CJ:5:ARG:HA	10:CJ:73:ASP:OD1	1.93	0.69
36:BB:104:U:O2'	36:BB:105:A:H5'	1.92	0.69
47:BQ:132:VAL:HG12	47:BQ:133:ARG:H	1.56	0.69
56:BZ:76:LEU:O	56:BZ:78:LYS:N	2.24	0.69
47:BQ:132:VAL:HG11	56:BZ:81:ARG:NH1	2.07	0.69
35:BA:1600:C:O2'	35:BA:1601:G:H5'	1.92	0.69
39:DE:36:ARG:HH22	39:DE:88:GLY:CA	2.05	0.69
41:BG:166:ASP:OD1	41:BG:170:ARG:HB2	1.92	0.69
35:DA:2467:C:C2'	35:DA:2468:G:H5'	2.23	0.69
52:DV:19:LYS:HG3	52:DV:20:LEU:N	2.07	0.69
19:CS:12:ASP:HB3	19:CS:15:LEU:HD23	1.75	0.69
1:CA:1203:C:OP1	14:CN:3:ARG:HD2	1.92	0.69
55:BY:76:CYS:O	55:BY:78:ALA:N	2.25	0.69
35:BA:869:G:H1'	47:BQ:8:LYS:NZ	2.06	0.69
44:DN:120:LEU:HD11	44:DN:122:VAL:CG2	2.23	0.69
1:CA:750:G:N3	15:CO:23:GLY:HA3	2.06	0.69
18:CR:67:ALA:HA	18:CR:70:ILE:HD12	1.73	0.69
18:CR:47:THR:O	18:CR:82:THR:HA	1.92	0.69
35:DA:1258:C:H2'	35:DA:1259:G:C8	2.28	0.69
43:DI:68:LEU:O	43:DI:68:LEU:HD23	1.92	0.69
47:DQ:8:LYS:CG	47:DQ:9:TYR:H	2.04	0.69
11:AK:61:ALA:HB3	11:AK:90:GLY:HA3	1.72	0.69
1:CA:522:C:H41	12:CL:53:ARG:NH2	1.86	0.69
38:DD:79:VAL:CG1	38:DD:113:VAL:HA	2.22	0.69
35:DA:445:C:H5''	51:DU:3:ARG:CB	2.22	0.69
35:BA:709:U:H2'	35:BA:710:G:H8	1.56	0.69
7:AG:120:ILE:HG22	7:AG:124:LEU:HD11	1.73	0.69
5:AE:82:VAL:HG21	5:AE:138:ALA:CA	2.21	0.69
57:DC:58:VAL:CG2	57:DC:166:ASP:H	2.04	0.69
35:BA:1340:U:C6	35:BA:1603:A:O4'	2.45	0.69
48:DR:4:LEU:O	48:DR:4:LEU:HD13	1.92	0.69
35:DA:185:U:H2'	35:DA:186:G:C8	2.27	0.69
35:BA:7:G:H4'	44:BN:13:TRP:CH2	2.27	0.69
35:DA:1193:G:H2'	35:DA:1194:A:O4'	1.92	0.69
10:CJ:45:ARG:O	10:CJ:64:GLU:HA	1.93	0.69
41:DG:40:ASN:ND2	41:DG:91:ARG:HB2	2.08	0.69
56:BZ:165:VAL:HG12	56:BZ:166:SER:N	2.07	0.69
52:BV:61:VAL:CG2	52:BV:100:ARG:H	2.05	0.69
35:BA:137:C:H2'	35:BA:139:G:H5'	1.74	0.69
54:BX:49:VAL:HG12	54:BX:50:LYS:N	2.07	0.69
35:BA:2312:U:H2'	35:BA:2313:C:H5''	1.73	0.69
35:DA:1341:U:P	35:DA:1397:U:H3	2.15	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1320:C:N4	19:CS:36:ARG:HG3	2.08	0.69
39:BE:116:VAL:O	39:BE:117:MET:HB3	1.91	0.69
46:DP:66:GLY:O	46:DP:68:GLN:HG2	1.92	0.69
6:CF:21:LEU:O	6:CF:24:GLU:HG2	1.93	0.69
35:DA:814:C:O2'	35:DA:815:C:H5'	1.92	0.69
46:DP:39:LYS:HD3	46:DP:40:SER:H	1.56	0.69
4:AD:96:LEU:N	4:AD:96:LEU:HD22	2.02	0.69
6:AF:21:LEU:O	6:AF:24:GLU:HG2	1.93	0.69
1:CA:1324:A:H2'	1:CA:1325:C:C6	2.19	0.69
1:CA:955:U:H1'	1:CA:1227:A:N6	2.07	0.69
16:AP:6:LEU:HB3	16:AP:17:TYR:HD2	1.58	0.69
35:DA:1177:A:H5'	35:DA:1178:C:C5	2.28	0.69
35:BA:1177:A:H5'	35:BA:1178:C:C5	2.28	0.69
1:AA:489:C:H2'	1:AA:490:G:C8	2.24	0.69
40:BF:129:PHE:HA	40:BF:142:TRP:NE1	2.06	0.69
1:CA:444:C:H2'	1:CA:445:G:H8	1.55	0.69
35:DA:1786:A:C5	35:DA:1938:A:N7	2.61	0.69
6:AF:53:ALA:HB3	6:AF:86:ARG:NH1	2.08	0.69
53:BW:51:LEU:C	53:BW:51:LEU:HD13	2.13	0.69
35:BA:186:G:O2'	35:BA:187:G:H5'	1.92	0.69
27:D1:16:ASN:HD22	27:D1:16:ASN:H	1.39	0.69
1:CA:1292:U:H2'	1:CA:1293:G:C8	2.28	0.69
50:DT:78:LEU:HD23	50:DT:79:HIS:CE1	2.27	0.69
35:BA:2284:C:H2'	35:BA:2285:C:C5'	2.16	0.69
1:AA:1062:U:H2'	1:AA:1063:C:C6	2.28	0.69
44:BN:42:TRP:CD1	51:BU:63:VAL:HG11	2.27	0.69
56:DZ:104:PHE:HE2	56:DZ:122:ARG:HA	1.57	0.69
44:DN:9:VAL:HG11	44:DN:39:ARG:NH2	2.04	0.69
44:DN:42:TRP:CD1	51:DU:63:VAL:HG11	2.28	0.69
47:DQ:51:ARG:O	47:DQ:55:VAL:HG13	1.92	0.69
3:CC:149:ALA:HA	3:CC:201:TYR:O	1.92	0.69
35:BA:2514:U:H2'	35:BA:2515:C:C6	2.27	0.69
46:BP:47:ASP:OD1	46:BP:49:ARG:HB3	1.92	0.69
35:BA:2820:A:H62	39:BE:192:ASN:CB	2.06	0.69
35:DA:575:A:C2'	35:DA:576:U:H5'	2.23	0.69
35:DA:588:U:H2'	35:DA:589:C:H6	1.53	0.69
7:CG:71:PRO:HG3	7:CG:103:TRP:HZ3	1.56	0.69
35:BA:2701:C:H3'	35:BA:2702:U:C5'	2.20	0.69
35:BA:2036:C:H6	35:BA:2036:C:C5'	2.05	0.69
35:DA:661:C:H4'	46:DP:18:ARG:HG2	1.74	0.69
11:CK:58:PRO:HD3	11:CK:89:ALA:HB1	1.75	0.69
35:DA:2472:G:H5'	35:DA:2473:U:H5''	1.75	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:AI:5:TYR:HE1	9:AI:7:THR:HG1	1.38	0.69
5:CE:144:THR:O	5:CE:148:VAL:HG23	1.92	0.69
31:D5:13:LYS:O	31:D5:16:ARG:HB3	1.93	0.69
5:AE:72:GLN:HE22	5:AE:77:PRO:HD3	1.57	0.69
1:CA:320:C:H2'	1:CA:321:A:C8	2.27	0.69
25:CY:73:GLN:HB2	25:CY:77:LYS:HZ1	1.56	0.69
32:D6:32:ASN:CG	32:D6:33:LYS:H	1.94	0.69
46:DP:17:LYS:O	46:DP:19:VAL:N	2.25	0.69
1:AA:724:G:O2'	1:AA:725:G:H5'	1.92	0.69
35:DA:1509(B):A:H2'	35:DA:1510:G:C8	2.27	0.69
35:DA:1221:C:H2'	35:DA:1221(A):C:H6	1.57	0.69
35:DA:755:C:H2'	35:DA:756:C:C6	2.26	0.69
35:DA:713:G:O2'	35:DA:714:U:H5'	1.93	0.69
1:AA:439:A:C2	1:AA:441:A:H1'	2.27	0.69
1:AA:1084:G:H5'	1:AA:1102:A:OP2	1.92	0.69
55:BY:101:LYS:HG2	55:BY:102:CYS:N	2.05	0.69
38:BD:210:GLY:O	38:BD:211:ARG:HB3	1.90	0.69
41:DG:51:ARG:NE	41:DG:51:ARG:CA	2.45	0.69
41:DG:63:ILE:HD12	41:DG:64:THR:N	2.07	0.69
47:BQ:140:ALA:HB3	56:BZ:53:ILE:CD1	2.16	0.69
10:AJ:45:ARG:O	10:AJ:64:GLU:HA	1.93	0.69
27:B1:87:PRO:HB2	27:B1:91:LYS:NZ	2.05	0.69
1:CA:977:A:C2'	1:CA:978:A:H5'	2.22	0.69
43:DI:83:ALA:HB1	43:DI:88:ILE:HG12	1.73	0.69
3:CC:16:ARG:NH1	3:CC:16:ARG:HB2	2.08	0.69
35:BA:2712:U:H1'	35:BA:2712(A):A:C8	2.26	0.69
48:BR:63:ARG:O	48:BR:67:LEU:HD23	1.92	0.69
2:AB:162:ILE:O	2:AB:162:ILE:HD12	1.93	0.69
34:D8:52:LYS:H	34:D8:53:PRO:CD	2.03	0.69
35:DA:251:A:H5''	46:DP:51:PHE:CE1	2.28	0.69
40:DF:53:THR:CG2	40:DF:56:GLU:HB2	2.22	0.69
47:BQ:50:ALA:HA	47:BQ:124:LYS:HG3	1.75	0.69
43:BI:12:LEU:HD12	43:BI:19:VAL:HG11	1.74	0.69
43:BI:38:LEU:HB2	43:BI:40:THR:HG23	1.75	0.69
1:AA:449:C:O2	16:AP:42:ARG:HD2	1.92	0.69
35:BA:755:C:H2'	35:BA:756:C:C6	2.27	0.69
35:BA:2127:G:H1'	35:BA:2128:C:H4'	1.74	0.69
42:BH:43:VAL:O	42:BH:43:VAL:HG23	1.92	0.69
1:AA:1402:C:H2'	1:AA:1403:C:O4'	1.92	0.69
5:CE:147:ASP:HA	5:CE:150:ARG:HB3	1.73	0.69
1:AA:677:U:H3	1:AA:713:G:H22	1.41	0.69
35:BA:2013:A:H4'	53:BW:96:ILE:HD12	1.73	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:271(U):G:H2'	35:BA:271(V):G:C8	2.27	0.69
3:AC:73:PRO:HA	3:AC:76:VAL:HG13	1.73	0.69
1:CA:1375:A:H2'	1:CA:1376:U:H6	1.57	0.69
1:CA:689:C:P	11:CK:46:GLY:HA3	2.33	0.69
1:AA:1287:A:H2'	1:AA:1288:A:C8	2.27	0.69
25:CY:45:TYR:O	25:CY:46:TYR:HB2	1.92	0.69
10:AJ:9:ARG:O	10:AJ:94:VAL:HG13	1.92	0.69
1:AA:1291:G:H4'	9:AI:39:GLY:HA3	1.74	0.69
35:BA:1405:U:H2'	35:BA:1406:U:C6	2.27	0.69
1:AA:570:G:H2'	1:AA:571:U:C6	2.27	0.69
1:AA:818:G:H3'	1:AA:819:A:H5''	1.75	0.69
35:DA:797:C:H2'	35:DA:798:G:C8	2.27	0.69
35:DA:1991:U:H2'	35:DA:1992:G:C5'	2.23	0.69
35:DA:2723:C:C2'	35:DA:2724:C:H5'	2.23	0.69
38:BD:161:THR:O	38:BD:196:VAL:HG23	1.92	0.69
38:BD:264:LYS:HE2	38:BD:266:SER:O	1.92	0.69
41:DG:137:GLU:OE2	41:DG:140:ILE:HG23	1.92	0.69
35:BA:2562:U:H2'	35:BA:2563:U:H5'	1.75	0.69
35:DA:2808:U:H2'	35:DA:2809:A:H5'	1.72	0.69
56:DZ:33:LEU:HD11	56:DZ:35:ARG:CG	2.23	0.69
35:BA:660:G:H5'	40:BF:99:TYR:CE2	2.27	0.69
35:BA:575:A:C2'	35:BA:576:U:H5'	2.22	0.69
46:BP:30:THR:CG2	46:BP:31:ALA:H	2.05	0.69
20:AT:43:LEU:HD12	20:AT:52:ALA:HA	1.75	0.69
35:DA:686:G:N2	35:DA:788:A:H61	1.89	0.69
12:AL:8:ASN:ND2	17:AQ:34:LYS:HE2	2.08	0.69
35:DA:296:C:O2'	35:DA:297:C:H5'	1.93	0.69
25:CY:30:THR:HG22	25:CY:179:LYS:HE3	1.74	0.69
25:CY:18:LEU:HG	25:CY:19:GLU:HG3	1.75	0.69
46:DP:16:ARG:CD	46:DP:18:ARG:H	2.04	0.69
35:DA:272(D):G:H1	35:DA:364:C:N4	1.88	0.69
38:BD:118:VAL:HG22	38:BD:119:ALA:N	2.07	0.69
40:BF:9:ILE:HG12	40:BF:14:PRO:HA	1.74	0.69
35:DA:1232:G:H2'	35:DA:1233:C:H6	1.57	0.69
35:DA:2200:C:H42	35:DA:2223:G:H1	1.38	0.69
32:B6:15:GLU:O	32:B6:15:GLU:HG2	1.93	0.69
44:DN:107:LEU:HB2	44:DN:108:PRO:HD2	1.75	0.69
35:BA:852:G:O2'	35:BA:853:G:H5'	1.93	0.69
46:DP:58:THR:C	46:DP:60:MET:H	1.96	0.69
46:DP:59:LEU:HA	46:DP:61:ARG:NE	2.08	0.69
37:BC:58:VAL:CG2	37:BC:166:ASP:H	2.05	0.69
4:AD:142:PRO:HA	4:AD:185:PHE:CD2	2.27	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:696:A:H2'	1:AA:697:U:H6	1.56	0.69
1:CA:783:C:O2'	1:CA:784:C:H5'	1.91	0.69
1:CA:1126:U:H2'	1:CA:1127:G:C8	2.27	0.69
50:DT:64:ARG:HB2	50:DT:73:GLU:HB3	1.73	0.69
50:DT:75:ILE:HD12	50:DT:75:ILE:N	2.07	0.69
1:CA:972:C:H4'	10:CJ:57:LYS:HG3	1.73	0.69
1:CA:920:U:H2'	1:CA:921:U:C6	2.28	0.69
35:DA:1799:G:OP1	38:DD:260:ARG:HD2	1.92	0.69
38:DD:267:SER:O	38:DD:269:PHE:N	2.25	0.69
47:DQ:39:PRO:HB3	47:DQ:99:PRO:CD	2.12	0.69
35:BA:2680:C:H2'	35:BA:2681:C:O2	1.92	0.69
50:BT:27:THR:O	50:BT:28:VAL:HB	1.91	0.69
50:BT:78:LEU:HD23	50:BT:79:HIS:CE1	2.28	0.69
47:BQ:28:ALA:CB	47:BQ:67:ARG:HD2	2.22	0.69
56:BZ:60:GLU:HA	56:BZ:66:SER:HB3	1.75	0.69
39:BE:105:THR:OG1	39:BE:166:THR:HG22	1.92	0.69
28:B2:57:ILE:O	28:B2:57:ILE:HG12	1.90	0.69
55:DY:90:LEU:HG	55:DY:91:GLU:HG2	1.75	0.69
52:DV:61:VAL:CG2	52:DV:100:ARG:H	2.05	0.69
3:CC:148:GLY:CA	3:CC:203:PHE:HB3	2.23	0.69
35:BA:571:A:H5'	35:BA:2030:A:N6	2.07	0.69
48:BR:82:GLU:O	48:BR:85:PRO:HD2	1.92	0.69
2:CB:69:LEU:HD23	2:CB:159:PRO:HG2	1.75	0.69
35:DA:1188:U:O2'	35:DA:1189:A:H5'	1.93	0.69
46:DP:47:ASP:OD1	46:DP:49:ARG:HB3	1.93	0.69
1:AA:881:G:P	12:AL:12:ARG:NH2	2.66	0.69
43:DI:129:THR:HA	43:DI:137:PRO:HA	1.75	0.69
35:DA:571:A:C5'	35:DA:2030:A:H62	2.05	0.69
12:CL:86:ARG:HG2	12:CL:87:GLY:N	2.08	0.69
1:AA:377:G:OP1	16:AP:3:LYS:HD3	1.92	0.69
43:BI:115:ALA:H	43:BI:131:LYS:HE2	1.57	0.69
35:BA:110:G:O2'	35:BA:111:A:H5'	1.92	0.69
1:AA:17:U:H2'	1:AA:18:C:C6	2.27	0.69
43:DI:4:ILE:HD13	43:DI:47:LEU:HD22	1.75	0.69
9:AI:70:LYS:O	9:AI:74:ILE:HG13	1.92	0.69
12:CL:36:VAL:O	12:CL:58:VAL:HG13	1.93	0.69
9:CI:83:ARG:O	9:CI:86:VAL:HG12	1.93	0.69
9:CI:28:VAL:HG12	9:CI:29:ASN:N	2.08	0.69
33:D7:15:THR:HG22	33:D7:16:HIS:CD2	2.28	0.69
35:DA:64:A:O2'	35:DA:65:C:H5'	1.92	0.69
35:BA:2317:C:O2'	35:BA:2318:G:H5'	1.93	0.69
38:BD:117:VAL:HG22	38:BD:118:VAL:N	2.07	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:714:G:H21	1:AA:777:A:H1'	1.57	0.69
11:CK:21:ILE:HD13	11:CK:84:VAL:HG12	1.74	0.69
39:BE:101:ARG:HD3	39:BE:169:ASN:ND2	2.07	0.69
6:AF:45:LEU:HD12	6:AF:46:ARG:N	2.08	0.69
35:DA:2830:G:H5'	39:DE:58:ARG:HH12	1.57	0.69
35:DA:2250:G:C5	47:DQ:82:ARG:HD2	2.28	0.69
35:BA:2114:A:H2'	35:BA:2115:G:H5'	1.73	0.69
27:D1:19:GLN:NE2	35:DA:379:G:H21	1.90	0.69
35:DA:1270:C:H5''	35:DA:1271:G:H5'	1.74	0.69
35:DA:2801(A):A:H4'	35:DA:2802:G:H5'	1.73	0.69
26:B0:23:VAL:HG13	26:B0:37:LEU:O	1.92	0.69
35:DA:208:C:H2'	35:DA:209:C:C6	2.28	0.69
29:B3:29:ARG:HH11	35:BA:1183:G:H4'	1.56	0.69
9:AI:65:VAL:HG22	9:AI:66:ARG:N	2.08	0.69
35:BA:1449:A:C2	35:BA:1529:G:H1'	2.26	0.69
35:BA:184:C:H2'	35:BA:185:U:C6	2.28	0.69
1:AA:498:U:H2'	1:AA:499:A:H5'	1.75	0.69
1:CA:533:A:O2'	1:CA:534:U:H5''	1.93	0.69
35:DA:897:C:H1'	35:DA:899:A:N7	2.07	0.69
5:AE:42:GLY:HA3	5:AE:66:MET:HG2	1.74	0.69
43:DI:62:LYS:O	43:DI:62:LYS:HD3	1.93	0.69
54:DX:16:LYS:HE3	54:DX:16:LYS:HA	1.74	0.69
9:AI:18:PHE:HB2	9:AI:62:TYR:O	1.93	0.69
5:CE:13:ILE:HA	5:CE:29:GLY:O	1.93	0.69
1:CA:179:A:H2'	1:CA:180:U:C6	2.27	0.69
35:DA:2712:U:H1'	35:DA:2712(A):A:C8	2.28	0.69
38:BD:267:SER:C	38:BD:269:PHE:N	2.41	0.69
54:BX:54:VAL:HG13	54:BX:78:LYS:O	1.92	0.69
35:BA:2223:G:C2'	35:BA:2224:G:H5'	2.22	0.69
42:BH:97:ARG:O	42:BH:125:VAL:HG11	1.93	0.69
51:DU:83:LEU:CB	51:DU:88:ILE:HG12	2.23	0.69
35:BA:1860:G:H1	35:BA:1882:C:H42	1.41	0.69
47:BQ:71:ASP:O	47:BQ:73:PRO:HD3	1.93	0.69
35:BA:404:C:C4'	35:BA:405:U:H5'	2.20	0.69
6:AF:9:VAL:C	6:AF:10:LEU:HD12	2.13	0.69
1:CA:1512:U:H2'	1:CA:1513:A:C8	2.28	0.69
8:CH:121:ASP:O	8:CH:125:ARG:HB2	1.93	0.69
42:BH:41:MET:HG3	42:BH:53:GLU:O	1.93	0.69
54:BX:25:LYS:NZ	54:BX:87:GLN:N	2.41	0.69
38:DD:45:ASN:CG	38:DD:46:GLN:N	2.46	0.69
27:B1:41:ARG:HH22	35:BA:205:G:H1	1.37	0.69
10:AJ:27:ALA:CB	10:AJ:85:LEU:HD11	2.23	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:184:C:H2'	35:DA:185:U:C6	2.27	0.69
55:DY:50:ARG:HB2	55:DY:53:PRO:HG3	1.73	0.69
41:BG:96:ARG:O	41:BG:99:MET:HB3	1.93	0.69
35:DA:7:G:H4'	44:DN:13:TRP:CH2	2.28	0.69
1:CA:67:C:H2'	1:CA:68:G:C8	2.28	0.69
35:DA:1405:U:H2'	35:DA:1406:U:C6	2.28	0.69
35:DA:1991:U:H2'	35:DA:1992:G:H5'	1.75	0.69
43:BI:77:LEU:CB	43:BI:140:LEU:HD13	2.18	0.69
43:BI:83:ALA:HB1	43:BI:88:ILE:HG12	1.73	0.69
38:BD:80:ALA:HB3	38:BD:94:LEU:CD1	2.23	0.69
1:CA:920:U:H1'	1:CA:1080:A:H2	1.55	0.69
41:DG:114:ILE:HG22	41:DG:115:ARG:N	2.06	0.69
50:BT:75:ILE:N	50:BT:75:ILE:HD12	2.08	0.69
39:BE:1:MET:HG2	39:BE:83:ASP:O	1.92	0.69
42:DH:145:ALA:HB1	42:DH:164:TYR:HE1	1.58	0.69
49:BS:26:LEU:HA	49:BS:39:ILE:HG13	1.74	0.69
6:CF:14:LEU:CD1	6:CF:19:LEU:HB2	2.21	0.69
1:CA:673:G:H5''	6:CF:87:ARG:NH1	2.08	0.69
2:CB:187:LEU:C	2:CB:187:LEU:HD22	2.14	0.69
35:DA:990:A:N6	35:DA:1186:G:H1'	2.08	0.69
1:CA:976:G:H22	1:CA:1362:C:H2'	1.57	0.69
19:AS:12:ASP:HB3	19:AS:15:LEU:HD23	1.75	0.69
1:CA:714:G:H21	1:CA:777:A:H1'	1.58	0.69
1:CA:794:A:H4'	1:CA:1521:G:O2'	1.93	0.69
1:CA:818:G:H3'	1:CA:819:A:H5''	1.74	0.69
1:AA:922:G:C2	1:AA:1396:A:C2	2.81	0.69
1:CA:1369:C:OP2	9:CI:111:ARG:HA	1.92	0.69
1:AA:522:C:N4	12:AL:53:ARG:HH21	1.88	0.69
35:DA:2127:G:H1'	35:DA:2128:C:H4'	1.75	0.69
38:BD:101:GLU:OE1	38:BD:103:ARG:HD3	1.93	0.69
46:BP:101:VAL:CG2	46:BP:107:LYS:HA	2.23	0.69
35:DA:678:C:H2'	35:DA:679:C:C6	2.25	0.69
17:CQ:19:VAL:CG2	17:CQ:44:ALA:HB3	2.23	0.69
19:AS:33:THR:HG23	19:AS:51:VAL:HA	1.75	0.69
5:CE:102:ALA:HB2	5:CE:120:THR:OG1	1.92	0.69
35:DA:696:G:C2'	35:DA:697:C:H5'	2.23	0.69
25:AY:118:VAL:C	25:AY:120:GLN:H	1.94	0.69
25:AY:80:GLU:C	25:AY:82:ALA:H	1.97	0.69
35:DA:603:A:H4'	35:DA:604:G:O5'	1.92	0.69
53:DW:70:TYR:HE2	53:DW:108:GLY:HA3	1.58	0.69
1:CA:126:G:H5'	1:CA:633:G:N2	2.07	0.69
9:CI:18:PHE:HB2	9:CI:62:TYR:O	1.93	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1324:G:H3'	35:BA:1325:G:H4'	1.75	0.69
35:DA:1830:C:H42	35:DA:1975:G:H1	1.40	0.69
56:DZ:134:PRO:O	56:DZ:136:PHE:N	2.25	0.69
1:CA:962:C:H2'	1:CA:963:G:H8	1.58	0.68
14:CN:34:TYR:C	14:CN:36:PHE:H	1.96	0.68
38:BD:206:LEU:HA	38:BD:211:ARG:HH12	1.57	0.68
38:BD:25:THR:O	38:BD:26:LYS:HD2	1.93	0.68
38:DD:210:GLY:O	38:DD:212:SER:N	2.26	0.68
45:BO:68:GLU:CD	45:BO:78:ARG:HH11	1.97	0.68
35:BA:2807:G:H3'	35:BA:2808:U:H5''	1.74	0.68
35:DA:2808:U:C2'	35:DA:2809:A:H5'	2.23	0.68
39:DE:77:ILE:HG23	39:DE:78:LEU:HD23	1.75	0.68
43:BI:23:PRO:HB3	43:BI:27:ARG:HH21	1.57	0.68
10:AJ:5:ARG:O	10:AJ:98:ILE:HA	1.92	0.68
47:BQ:34:LEU:HD11	47:BQ:129:THR:CB	2.23	0.68
35:BA:660:G:H5'	40:BF:99:TYR:CD2	2.28	0.68
35:BA:833:U:H2'	35:BA:834:C:C6	2.27	0.68
5:AE:51:VAL:O	5:AE:55:VAL:HG23	1.93	0.68
49:DS:38:GLN:HG2	49:DS:39:ILE:N	2.06	0.68
2:CB:84:GLU:CB	2:CB:219:VAL:HG21	2.20	0.68
6:CF:22:GLU:O	6:CF:26:ILE:HG13	1.93	0.68
15:CO:36:ILE:HD12	15:CO:63:ARG:HD3	1.76	0.68
15:CO:56:LEU:O	15:CO:60:VAL:HG23	1.93	0.68
35:DA:1258:C:H2'	35:DA:1259:G:H8	1.57	0.68
3:AC:15:THR:CG2	3:AC:16:ARG:HH12	2.00	0.68
18:AR:47:THR:O	18:AR:82:THR:HA	1.92	0.68
18:AR:47:THR:OG1	18:AR:49:LYS:HG2	1.93	0.68
35:DA:226:G:H5'	35:DA:257:A:H4'	1.75	0.68
5:AE:36:ASP:O	5:AE:37:ARG:HB2	1.92	0.68
8:AH:12:ARG:NH1	8:AH:26:VAL:HA	2.09	0.68
35:DA:2175:C:C2'	35:DA:2176:A:H5''	2.22	0.68
54:BX:25:LYS:HZ3	54:BX:87:GLN:N	1.92	0.68
23:AW:19:G:H3'	23:AW:20:G:C5'	2.23	0.68
1:CA:254:G:OP1	17:CQ:67:LYS:O	2.10	0.68
17:AQ:19:VAL:CG2	17:AQ:44:ALA:HB3	2.22	0.68
32:D6:15:GLU:O	32:D6:15:GLU:HG2	1.93	0.68
35:BA:1300:U:O2	35:BA:1626:G:H2'	1.92	0.68
35:BA:1528(A):A:C3'	35:BA:1529:G:H5''	2.22	0.68
35:DA:1528(A):A:C3'	35:DA:1529:G:H5''	2.22	0.68
7:CG:152:ALA:C	7:CG:154:TYR:H	1.97	0.68
33:D7:48:LYS:H	33:D7:48:LYS:HD3	1.58	0.68
13:AM:75:ALA:O	13:AM:79:LYS:HG3	1.92	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:67:C:H2'	1:AA:68:G:C8	2.27	0.68
35:BA:920:G:H2'	35:BA:921:G:H8	1.56	0.68
35:BA:1221(A):C:O2'	35:BA:1222:C:H5'	1.92	0.68
1:CA:1416:G:H2'	1:CA:1417:G:O4'	1.93	0.68
10:CJ:51:ARG:H	10:CJ:60:ARG:HA	1.58	0.68
35:BA:1791:A:O3'	38:BD:206:LEU:HB2	1.93	0.68
38:BD:35:LYS:CE	38:BD:104:TYR:HB2	2.22	0.68
41:DG:125:PHE:CD2	41:DG:131:TYR:HB3	2.28	0.68
41:DG:130:ASN:ND2	41:DG:161:THR:N	2.40	0.68
39:BE:59:VAL:HG11	39:BE:63:LEU:HG	1.74	0.68
35:BA:2787:C:O2	39:BE:61:ARG:HD3	1.93	0.68
52:BV:61:VAL:HG23	52:BV:100:ARG:H	1.56	0.68
54:BX:81:VAL:CG1	54:BX:85:PRO:HB2	2.23	0.68
41:BG:172:LEU:O	41:BG:175:LEU:HB2	1.93	0.68
28:D2:26:ARG:HH22	54:DX:6:ASP:CA	2.04	0.68
56:DZ:98:MET:O	56:DZ:126:VAL:HG22	1.94	0.68
3:CC:109:PRO:HA	3:CC:115:LEU:CD1	2.23	0.68
35:BA:1190:G:H4'	46:BP:35:HIS:HB3	1.76	0.68
35:DA:2820:A:H62	39:DE:192:ASN:HB2	1.56	0.68
35:DA:196:A:H5''	46:DP:46:LYS:NZ	2.07	0.68
1:CA:1401:G:H2'	1:CA:1402:C:H5'	1.75	0.68
19:CS:63:THR:CG2	19:CS:66:MET:HG2	2.22	0.68
5:CE:36:ASP:O	5:CE:37:ARG:HB2	1.93	0.68
9:AI:28:VAL:HG12	9:AI:29:ASN:N	2.08	0.68
7:CG:120:ILE:HG22	7:CG:124:LEU:HD11	1.74	0.68
38:DD:144:ALA:HB3	38:DD:192:THR:CG2	2.22	0.68
35:BA:1937:A:C2'	35:BA:1938:A:H5'	2.23	0.68
13:CM:23:TYR:CD1	13:CM:67:GLU:HA	2.27	0.68
27:B1:20:ARG:HH12	27:B1:41:ARG:NH2	1.89	0.68
52:DV:1:MET:HE3	52:DV:45:THR:H	1.57	0.68
22:CV:38:U:H2'	22:CV:39:C:H6	1.56	0.68
10:AJ:27:ALA:HB2	10:AJ:85:LEU:HD11	1.74	0.68
36:DB:24:G:H4'	36:DB:25:A:C8	2.28	0.68
33:B7:48:LYS:H	33:B7:48:LYS:HD3	1.58	0.68
17:CQ:11:VAL:HA	17:CQ:53:LEU:HD11	1.74	0.68
50:DT:28:VAL:CG2	50:DT:47:GLY:N	2.57	0.68
9:CI:114:TYR:HD2	9:CI:114:TYR:N	1.90	0.68
10:CJ:48:THR:HG22	10:CJ:49:VAL:H	1.58	0.68
41:DG:45:GLU:C	41:DG:47:LYS:H	1.96	0.68
50:BT:25:GLY:HA2	50:BT:92:GLY:N	2.09	0.68
35:DA:2051:A:H4'	39:DE:141:ILE:CD1	2.23	0.68
35:BA:2304:G:H5'	35:BA:2305:A:OP2	1.93	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:BG:41:GLN:O	41:BG:43:LEU:HD22	1.93	0.68
34:B8:8:LYS:O	34:B8:12:LYS:HG3	1.92	0.68
42:BH:126:PRO:O	42:BH:127:GLU:HG2	1.92	0.68
44:DN:42:TRP:N	51:DU:64:ARG:NH1	2.41	0.68
52:DV:4:ILE:HD12	52:DV:40:LEU:HD21	1.76	0.68
35:BA:1879:C:C3'	35:BA:1880:C:H5''	2.23	0.68
35:BA:795:C:H2'	35:BA:796:C:C6	2.28	0.68
2:CB:162:ILE:HD12	2:CB:162:ILE:O	1.93	0.68
46:DP:38:GLN:HG3	46:DP:39:LYS:N	2.05	0.68
3:AC:16:ARG:NH1	3:AC:16:ARG:HB2	2.08	0.68
1:AA:425:G:H2'	1:AA:426:G:H8	1.58	0.68
35:DA:571:A:H5'	35:DA:2030:A:N6	2.07	0.68
25:CY:28:LEU:O	25:CY:30:THR:N	2.25	0.68
35:BA:690:G:H2'	35:BA:691:C:H6	1.59	0.68
1:AA:1307:U:H2'	1:AA:1308:U:C6	2.29	0.68
11:CK:61:ALA:HB3	11:CK:90:GLY:HA3	1.73	0.68
46:DP:126:VAL:HA	46:DP:145:PRO:HB2	1.74	0.68
38:BD:133:LEU:HA	38:BD:136:ILE:CD1	2.23	0.68
1:CA:449:C:O2	16:CP:42:ARG:HD2	1.93	0.68
7:CG:65:ALA:O	7:CG:69:VAL:HG23	1.93	0.68
35:BA:2672:G:C2'	35:BA:2673:G:H5''	2.23	0.68
26:D0:36:ILE:HD11	35:DA:2355:C:H4'	1.75	0.68
38:DD:239:ARG:HH21	38:DD:239:ARG:HG3	1.58	0.68
35:BA:1947:C:H2'	35:BA:1948:G:C8	2.28	0.68
35:BA:2543:G:H2'	35:BA:2544:G:C8	2.28	0.68
2:CB:39:ILE:HG22	2:CB:40:HIS:O	1.93	0.68
35:BA:877:U:C2'	35:BA:878:A:H5''	2.23	0.68
3:CC:73:PRO:HA	3:CC:76:VAL:HG13	1.76	0.68
35:DA:1894:C:O2'	35:DA:1895:C:H5'	1.94	0.68
10:AJ:3:LYS:HB2	10:AJ:77:PRO:HD3	1.75	0.68
1:AA:671:G:O2'	1:AA:672:U:H5'	1.94	0.68
4:AD:194:LEU:N	4:AD:194:LEU:HD22	2.08	0.68
50:DT:96:ARG:HG3	50:DT:98:LYS:O	1.93	0.68
43:BI:140:LEU:HD12	43:BI:141:LYS:H	1.59	0.68
56:BZ:151:HIS:HA	56:BZ:170:THR:HA	1.75	0.68
39:DE:116:VAL:HG21	39:DE:122:PHE:CG	2.28	0.68
42:DH:88:LEU:HD21	42:DH:165:ALA:HA	1.75	0.68
35:DA:1600:C:O2'	35:DA:1601:G:H5'	1.93	0.68
35:DA:58:G:OP1	54:DX:72:LYS:HB3	1.93	0.68
54:DX:36:LYS:NZ	54:DX:39:ILE:HA	2.08	0.68
4:CD:10:ARG:O	4:CD:13:ARG:HB3	1.93	0.68
43:DI:79:ILE:HB	43:DI:81:VAL:HG23	1.75	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:CF:67:MET:HB2	6:CF:68:PRO:HD2	1.75	0.68
35:DA:803:U:O2'	35:DA:804:A:H5'	1.92	0.68
35:DA:943:U:OP2	46:DP:38:GLN:CD	2.31	0.68
12:CL:66:VAL:HG23	12:CL:67:THR:O	1.94	0.68
1:CA:192:U:C4'	20:CT:103:GLY:HA2	2.24	0.68
25:AY:130:ARG:HG2	35:BA:1942:C:O2	1.93	0.68
1:CA:693:G:H2'	1:CA:694:A:C8	2.28	0.68
43:BI:98:ALA:CB	43:BI:109:ILE:HB	2.23	0.68
35:BA:2092:U:H5	35:BA:2226:C:OP2	1.76	0.68
1:CA:522:C:N4	12:CL:53:ARG:HH21	1.89	0.68
33:D7:30:VAL:HG23	33:D7:31:LEU:H	1.57	0.68
33:D7:7:PRO:HB2	35:DA:1309:G:H4'	1.75	0.68
40:BF:150:GLY:HA2	40:BF:172:TRP:CE3	2.28	0.68
3:AC:104:GLN:CD	3:AC:105:GLU:H	1.96	0.68
35:DA:2208:A:H1'	35:DA:2219:G:C4	2.29	0.68
19:CS:33:THR:HG23	19:CS:51:VAL:HA	1.76	0.68
25:CY:109:GLU:O	25:CY:112:LYS:HB3	1.94	0.68
35:DA:1719:G:O2'	35:DA:1720:U:H5'	1.93	0.68
35:BA:1635:G:H5'	35:BA:1635:G:C8	2.28	0.68
1:AA:899:C:O5'	1:AA:899:C:H6	1.77	0.68
35:DA:154(A):C:H5	35:DA:171:G:N1	1.92	0.68
35:BA:2817:G:H21	35:BA:2836:U:C1'	2.07	0.68
38:BD:68:LYS:HG3	38:BD:68:LYS:O	1.93	0.68
35:DA:1434:A:H2'	35:DA:1435:G:C8	2.28	0.68
10:CJ:32:ALA:HB1	10:CJ:75:ILE:HD11	1.74	0.68
35:DA:556:G:H2'	35:DA:557:U:C6	2.28	0.68
50:DT:30:VAL:HG12	50:DT:44:ASP:CA	2.24	0.68
43:BI:145:VAL:HG12	43:BI:146:ALA:N	2.07	0.68
41:DG:46:ALA:CB	41:DG:88:ILE:HB	2.23	0.68
47:DQ:20:ALA:HB2	47:DQ:99:PRO:CG	2.23	0.68
50:BT:50:ILE:CG2	50:BT:99:LEU:HD12	2.19	0.68
47:BQ:66:ILE:HG22	47:BQ:104:PHE:CE2	2.28	0.68
56:BZ:155:LEU:HD23	56:BZ:156:LYS:H	1.58	0.68
42:DH:162:ILE:HD12	42:DH:162:ILE:C	2.14	0.68
1:AA:963:G:N2	10:AJ:55:LYS:HZ3	1.91	0.68
1:AA:974:A:H1'	14:AN:31:ARG:HH21	1.57	0.68
39:DE:52:LEU:HD23	39:DE:75:VAL:HG23	1.75	0.68
27:B1:48:LYS:O	27:B1:49:VAL:HG23	1.92	0.68
27:B1:86:SER:C	27:B1:89:GLU:CG	2.61	0.68
41:BG:5:VAL:HG12	41:BG:6:ALA:N	2.05	0.68
38:BD:236:GLY:O	38:BD:237:GLU:HG2	1.94	0.68
56:DZ:144:LEU:HD21	56:DZ:150:LEU:HD11	1.73	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AJ:8:LEU:HA	10:AJ:96:ILE:HG22	1.76	0.68
3:AC:6:HIS:NE2	3:AC:8:ILE:HB	2.08	0.68
40:DF:46:ARG:HG3	40:DF:48:THR:HG23	1.76	0.68
20:AT:15:ARG:O	20:AT:18:GLN:HB2	1.93	0.68
44:BN:32:THR:CG2	44:BN:37:LYS:HB3	2.23	0.68
35:DA:571:A:H5'	35:DA:2030:A:H62	1.55	0.68
12:CL:85:ILE:HD11	12:CL:98:TYR:HB3	1.74	0.68
43:BI:113:ARG:HA	43:BI:131:LYS:HE3	1.75	0.68
35:BA:926:A:H2'	35:BA:927:G:H8	1.57	0.68
12:AL:76:ASN:OD1	12:AL:108:ALA:HB3	1.92	0.68
1:CA:1149:C:H2'	1:CA:1150:U:H6	1.59	0.68
35:DA:541:C:H2'	35:DA:542:C:C5	2.28	0.68
35:BA:2590:A:O2'	35:BA:2591:C:H5'	1.94	0.68
17:AQ:68:ARG:N	17:AQ:70:ARG:NH1	2.41	0.68
53:BW:75:TYR:HD1	53:BW:75:TYR:N	1.92	0.68
28:D2:30:ARG:H	28:D2:30:ARG:CD	2.06	0.68
1:CA:349:A:O2'	1:CA:350:G:H5'	1.94	0.68
1:CA:930:C:O2'	1:CA:931:C:H5'	1.94	0.68
35:BA:2087:G:O2'	35:BA:2088:G:H5'	1.93	0.68
10:CJ:3:LYS:HB2	10:CJ:77:PRO:HD3	1.74	0.68
35:BA:431:U:O2'	35:BA:432:A:H5'	1.93	0.68
50:DT:52:ILE:HG22	50:DT:61:PHE:HB2	1.76	0.68
41:DG:69:ALA:HB3	41:DG:91:ARG:O	1.93	0.68
34:B8:30:ARG:NH2	46:BP:62:LEU:HD23	2.08	0.68
47:DQ:23:GLY:HA2	47:DQ:101:ARG:HB2	1.74	0.68
35:DA:2514:U:H2'	35:DA:2515:C:C6	2.29	0.68
28:B2:44:LEU:HD23	35:BA:61:G:H5'	1.76	0.68
39:DE:60:ASN:OD1	39:DE:62:PRO:HD2	1.94	0.68
54:DX:59:VAL:HG23	54:DX:74:PRO:HD2	1.75	0.68
54:DX:77:LYS:HA	54:DX:77:LYS:HE3	1.76	0.68
35:DA:2777:G:C5'	35:DA:2778:A:H5'	2.23	0.68
49:BS:17:ARG:HG3	49:BS:18:ILE:CD1	2.24	0.68
40:DF:6:VAL:HG23	40:DF:125:LEU:H	1.59	0.68
48:DR:82:GLU:O	48:DR:85:PRO:HD2	1.94	0.68
48:BR:9:LYS:O	48:BR:10:LEU:CG	2.41	0.68
49:DS:26:LEU:HA	49:DS:39:ILE:HG13	1.73	0.68
2:CB:54:THR:HG21	2:CB:201:ILE:HD11	1.76	0.68
47:DQ:8:LYS:HG3	47:DQ:9:TYR:N	2.08	0.68
1:AA:1377:A:H2'	7:AG:7:ALA:HB3	1.76	0.68
12:CL:8:ASN:ND2	17:CQ:34:LYS:HE2	2.08	0.68
8:AH:121:ASP:O	8:AH:125:ARG:HB2	1.94	0.68
31:D5:49:CYS:O	31:D5:56:LYS:HB2	1.94	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:677:U:H3	1:CA:713:G:H22	1.42	0.68
1:CA:235:C:H1'	17:CQ:61:GLU:OE1	1.93	0.68
5:AE:102:ALA:H	5:AE:107:ARG:HH21	1.40	0.68
35:BA:445:C:H5''	51:BU:3:ARG:HB2	1.74	0.68
3:CC:104:GLN:CD	3:CC:105:GLU:H	1.97	0.68
44:DN:108:PRO:C	44:DN:109:LYS:HD3	2.14	0.68
4:CD:5:ILE:HG22	4:CD:6:GLY:H	1.56	0.68
46:BP:59:LEU:HA	46:BP:61:ARG:NE	2.08	0.68
1:CA:498:U:H2'	1:CA:499:A:H5'	1.76	0.68
33:B7:48:LYS:HD3	33:B7:48:LYS:N	2.07	0.68
1:AA:1292:U:H2'	1:AA:1293:G:C8	2.28	0.68
1:AA:477:A:O2'	1:AA:479:C:H5'	1.93	0.68
53:DW:64:MET:O	53:DW:65:LEU:HB3	1.94	0.68
45:DO:4:PRO:O	45:DO:5:GLN:CB	2.41	0.68
1:AA:1126:U:H2'	1:AA:1127:G:C8	2.28	0.68
3:AC:58:GLU:O	3:AC:64:VAL:HA	1.93	0.68
1:CA:1291:G:H4'	9:CI:39:GLY:HA3	1.74	0.68
38:BD:63:ARG:NH1	38:BD:86:PRO:HD2	2.08	0.68
38:DD:4:LYS:HZ1	38:DD:20:ASP:HA	1.59	0.68
47:DQ:34:LEU:HD12	47:DQ:35:VAL:N	2.08	0.68
50:BT:32:TYR:O	50:BT:33:LYS:HB2	1.94	0.68
28:B2:28:LYS:O	28:B2:32:LEU:HD23	1.94	0.68
34:B8:6:THR:HG21	34:B8:63:PRO:HD3	1.75	0.68
56:DZ:3:TYR:O	56:DZ:57:ILE:HA	1.94	0.68
10:AJ:6:ILE:HG22	10:AJ:98:ILE:HG13	1.76	0.68
46:BP:17:LYS:C	46:BP:19:VAL:H	1.96	0.68
34:D8:52:LYS:N	34:D8:53:PRO:CD	2.57	0.68
35:DA:110:G:O2'	35:DA:111:A:H5'	1.92	0.68
6:AF:21:LEU:O	6:AF:25:ILE:HG12	1.93	0.68
35:BA:2739:U:O2'	35:BA:2740:A:H5'	1.93	0.68
12:CL:85:ILE:HD12	12:CL:99:HIS:O	1.94	0.68
20:CT:63:ILE:HD12	20:CT:81:LYS:HG2	1.74	0.68
5:AE:131:ILE:H	5:AE:131:ILE:HD13	1.59	0.68
9:CI:65:VAL:HG22	9:CI:66:ARG:N	2.08	0.68
35:BA:1614:A:N6	53:BW:93:ALA:HB2	2.09	0.68
20:CT:15:ARG:O	20:CT:18:GLN:HB2	1.94	0.68
3:CC:111:LEU:HD21	3:CC:146:ALA:HB2	1.73	0.68
2:CB:19:HIS:O	2:CB:39:ILE:HG23	1.94	0.68
46:BP:58:THR:C	46:BP:60:MET:H	1.95	0.68
35:DA:1643:G:H2'	35:DA:1644:C:H6	1.59	0.68
1:CA:1287:A:H2'	1:CA:1288:A:C8	2.28	0.68
1:CA:1260:C:OP1	1:CA:1284:C:H4'	1.94	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
47:BQ:131:ILE:HD13	47:BQ:131:ILE:N	2.08	0.68
1:CA:1046:A:H3'	1:CA:1047:G:H8	1.59	0.68
1:AA:533:A:O2'	1:AA:534:U:H5''	1.93	0.68
45:DO:69:ILE:CD1	45:DO:77:ILE:HG23	2.23	0.68
34:B8:30:ARG:NH2	46:BP:62:LEU:HB2	2.06	0.68
1:AA:1442(A):G:O6	35:BA:2863:C:H4'	1.94	0.68
39:BE:59:VAL:CG2	39:BE:63:LEU:HA	2.23	0.68
42:DH:145:ALA:HB1	42:DH:164:TYR:CE1	2.29	0.68
54:BX:77:LYS:HE3	54:BX:77:LYS:HA	1.76	0.68
27:B1:58:ILE:CD1	27:B1:59:THR:H	1.95	0.68
28:D2:50:ILE:O	28:D2:51:ARG:HB2	1.93	0.68
28:D2:53:LEU:HD23	28:D2:54:LYS:HG3	1.75	0.68
27:D1:13:ILE:HG23	27:D1:14:VAL:N	2.07	0.68
27:D1:60:PHE:CD1	27:D1:70:VAL:HG13	2.26	0.68
27:D1:86:SER:N	27:D1:87:PRO:HD3	2.09	0.68
46:BP:38:GLN:CG	46:BP:39:LYS:H	2.00	0.68
1:AA:1424:C:H2'	1:AA:1425:U:H6	1.58	0.68
44:BN:30:ILE:HD13	44:BN:54:VAL:HG21	1.74	0.68
6:CF:91:VAL:HG11	18:CR:72:ARG:HH12	1.58	0.68
15:CO:61:GLY:O	15:CO:65:ARG:HD3	1.93	0.68
2:CB:204:ASN:HD21	2:CB:207:ALA:H	1.39	0.68
52:DV:75:PHE:CD1	52:DV:87:HIS:HB3	2.29	0.68
55:DY:31:LEU:CD1	55:DY:34:LYS:H	2.06	0.68
25:AY:130:ARG:HH11	25:AY:130:ARG:HG3	1.58	0.68
29:D3:7:LYS:O	29:D3:54:VAL:HG13	1.93	0.68
1:AA:1458:G:H2'	1:AA:1459:C:H6	1.59	0.68
42:DH:156:ALA:C	42:DH:158:HIS:N	2.46	0.68
13:AM:66:LEU:CA	13:AM:70:LEU:HD12	2.23	0.68
54:BX:12:VAL:HG12	54:BX:27:THR:O	1.93	0.68
9:AI:10:ARG:HG3	9:AI:104:ARG:O	1.92	0.68
54:DX:12:VAL:HG12	54:DX:27:THR:O	1.94	0.68
26:B0:27:GLU:HB2	26:B0:69:PHE:CD1	2.28	0.68
1:CA:1084:G:H5'	1:CA:1102:A:OP2	1.94	0.68
1:AA:627:G:H2'	1:AA:628:G:H8	1.57	0.68
1:AA:1260:C:OP1	1:AA:1284:C:H4'	1.94	0.68
35:DA:2853:C:H2'	35:DA:2854:G:C8	2.28	0.68
43:BI:79:ILE:HB	43:BI:81:VAL:HG23	1.76	0.68
43:BI:88:ILE:HD11	43:BI:123:LEU:HD12	1.76	0.68
38:DD:215:LEU:O	38:DD:217:ARG:N	2.27	0.68
35:BA:2853:C:H2'	35:BA:2854:G:C8	2.28	0.68
56:BZ:125:LEU:HB3	56:BZ:165:VAL:HG22	1.74	0.68
39:BE:77:ILE:CG2	39:BE:78:LEU:H	2.07	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BE:77:ILE:HG23	39:BE:78:LEU:HD23	1.75	0.68
10:AJ:62:HIS:H	10:AJ:62:HIS:CD2	2.12	0.68
54:BX:55:ASN:HD22	54:BX:55:ASN:N	1.92	0.68
41:BG:82:LEU:HD22	41:BG:86:MET:HB2	1.76	0.68
3:CC:110:ASN:O	3:CC:141:VAL:HG13	1.94	0.68
43:DI:91:SER:CB	43:DI:121:LYS:HE3	2.21	0.68
40:BF:5:ALA:O	40:BF:6:VAL:HG13	1.93	0.68
48:DR:41:ALA:HB1	48:DR:114:VAL:CG2	2.23	0.68
2:CB:212:GLN:NE2	2:CB:216:SER:HB2	2.09	0.68
27:D1:41:ARG:NH2	35:DA:205:G:H1	1.92	0.68
35:DA:189:G:H2'	35:DA:205:G:H22	1.59	0.68
6:CF:62:TRP:HB2	18:CR:35:ARG:HH12	1.58	0.68
46:DP:7:ARG:O	46:DP:10:PRO:HD3	1.94	0.68
43:DI:71:ILE:HG13	43:DI:72:LEU:N	2.09	0.68
1:AA:989:C:H42	1:AA:1217:C:H42	1.40	0.68
11:AK:21:ILE:HB	11:AK:84:VAL:HG12	1.74	0.68
8:CH:85:ARG:HH12	8:CH:134:ILE:HG23	1.59	0.68
31:D5:40:LYS:HZ3	31:D5:45:VAL:HA	1.56	0.68
1:CA:1249:C:H5''	9:CI:70:LYS:HE2	1.74	0.68
35:BA:2175:C:C2'	35:BA:2176:A:H5''	2.23	0.68
35:DA:708:C:N4	35:DA:723:G:H1	1.92	0.68
38:DD:145:VAL:HG12	38:DD:146:GLU:N	2.08	0.68
35:DA:1007:C:HO2'	44:DN:108:PRO:HA	1.59	0.68
3:CC:84:ILE:HD11	3:CC:88:ARG:HH21	1.59	0.68
35:DA:1613:G:H2'	35:DA:1617:C:N4	2.09	0.68
35:DA:967:C:O2'	35:DA:968:G:H5'	1.94	0.68
35:DA:860:U:C5	35:DA:917:A:N7	2.62	0.68
36:DB:79:C:O2'	36:DB:80:U:H5'	1.92	0.68
27:B1:20:ARG:HD2	27:B1:20:ARG:N	2.09	0.68
35:BA:649:G:H2'	35:BA:650:C:C6	2.28	0.68
4:CD:142:PRO:HA	4:CD:185:PHE:CD2	2.28	0.68
1:AA:977:A:C2'	1:AA:978:A:H5'	2.23	0.68
35:BA:64:A:O2'	35:BA:65:C:H5'	1.94	0.68
35:BA:1249:U:H5'	35:BA:1249:U:H6	1.59	0.68
35:DA:2505:G:H2'	35:DA:2576:G:O6	1.94	0.68
44:BN:3:THR:HG22	44:BN:5:VAL:HG23	1.76	0.68
25:AY:116:ARG:HG2	25:AY:116:ARG:HH11	1.59	0.68
32:B6:40:CYS:HB2	32:B6:46:HIS:HE1	1.59	0.68
35:DA:2728:U:O2'	35:DA:2729:G:H5'	1.94	0.68
50:DT:27:THR:O	50:DT:28:VAL:HB	1.94	0.68
38:BD:45:ASN:ND2	38:BD:46:GLN:H	1.92	0.68
38:DD:27:THR:C	38:DD:29:PRO:HD2	2.14	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:DD:92:ILE:HA	38:DD:107:ALA:H	1.59	0.68
36:DB:42:C:C6	41:DG:69:ALA:HB2	2.29	0.68
35:DA:2316:C:H1'	41:DG:128:ARG:HH12	1.58	0.68
41:DG:51:ARG:HH11	41:DG:53:LEU:HG	1.54	0.68
41:DG:60:LEU:HA	41:DG:63:ILE:CG1	2.24	0.68
52:BV:19:LYS:HE2	52:BV:19:LYS:HA	1.75	0.68
42:DH:149:ARG:HA	42:DH:162:ILE:HD11	1.76	0.68
1:AA:972:C:H4'	10:AJ:57:LYS:HG3	1.76	0.68
54:BX:60:ARG:HG3	54:BX:72:LYS:N	2.07	0.68
41:BG:153:ARG:NH1	41:BG:153:ARG:HG3	2.01	0.68
32:D6:10:LEU:CD1	34:D8:36:LYS:HD3	2.13	0.68
47:BQ:20:ALA:HB2	47:BQ:99:PRO:CG	2.24	0.68
35:BA:909:A:H1'	47:BQ:10:ARG:NH2	2.09	0.68
47:BQ:16:ARG:C	47:BQ:17:LEU:HD23	2.14	0.68
48:DR:12:ARG:HH11	48:DR:12:ARG:HG3	1.59	0.68
1:CA:741:G:H2'	1:CA:742:G:C8	2.28	0.68
35:DA:673:C:H5'	40:DF:54:ARG:HH12	1.59	0.68
25:AY:30:THR:C	25:AY:32:ARG:H	1.97	0.68
2:CB:102:LEU:HD12	2:CB:102:LEU:N	2.09	0.68
11:CK:103:LEU:CD2	11:CK:103:LEU:H	2.05	0.68
25:CY:38:LEU:HA	25:CY:41:LEU:CD1	2.23	0.68
8:AH:45:ILE:HA	8:AH:64:LYS:HB3	1.76	0.68
47:BQ:63:LYS:HA	56:BZ:178:GLU:OE1	1.93	0.68
16:CP:38:TYR:O	16:CP:49:LEU:HA	1.94	0.68
3:AC:79:ARG:NH1	11:CK:99:GLN:HB3	2.09	0.68
39:DE:103:ASP:OD2	39:DE:201:THR:HA	1.94	0.68
35:BA:2544:G:H2'	35:BA:2545:G:H8	1.59	0.68
35:BA:2814:C:H2'	35:BA:2815:C:H6	1.58	0.68
41:DG:2:PRO:HD2	41:DG:4:ASP:O	1.93	0.68
17:CQ:86:GLU:C	17:CQ:88:TYR:H	1.97	0.68
46:BP:90:ARG:HD2	46:BP:91:PHE:CD1	2.29	0.68
4:CD:189:PRO:HB2	4:CD:194:LEU:HD21	1.75	0.68
1:CA:624:C:H4'	16:CP:10:GLY:HA2	1.76	0.68
10:CJ:27:ALA:HB2	10:CJ:85:LEU:HD11	1.74	0.68
43:DI:23:PRO:HB3	43:DI:27:ARG:HH21	1.58	0.68
1:CA:1030:C:H2'	1:CA:1030(A):G:H5'	1.76	0.68
23:CW:7:G:H2'	23:CW:50:G:OP2	1.94	0.68
35:BA:979:G:H3'	35:BA:980:A:H5''	1.76	0.68
14:CN:27:CYS:HB3	14:CN:43:CYS:SG	2.33	0.67
38:BD:242:ARG:HG3	38:BD:242:ARG:HH11	1.58	0.67
38:DD:24:ILE:O	38:DD:24:ILE:HG23	1.93	0.67
41:DG:39:ILE:CG1	41:DG:157:ILE:HG22	2.24	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:DG:92:VAL:HG22	41:DG:93:THR:N	2.08	0.67
35:BA:2684:U:P	50:BT:53:ARG:HH21	2.17	0.67
50:BT:60:THR:HG22	50:BT:77:PRO:HA	1.75	0.67
1:AA:1190:G:OP1	3:AC:5:ILE:HD12	1.94	0.67
10:AJ:51:ARG:H	10:AJ:60:ARG:HA	1.57	0.67
41:BG:17:PRO:HA	41:BG:20:ILE:HG12	1.75	0.67
42:BH:116:GLU:HG2	42:BH:117:PRO:HD2	1.77	0.67
47:DQ:28:ALA:CB	47:DQ:67:ARG:HD2	2.23	0.67
35:DA:2777:G:C4'	35:DA:2778:A:H5'	2.25	0.67
43:DI:145:VAL:HG12	43:DI:146:ALA:N	2.09	0.67
34:D8:30:ARG:NH2	46:DP:62:LEU:HB2	2.09	0.67
35:BA:1188:U:C2'	35:BA:1189:A:H5'	2.24	0.67
35:DA:1414:G:H2'	35:DA:1415:U:H6	1.59	0.67
4:AD:58:LEU:HD13	4:AD:59:ARG:N	2.10	0.67
25:CY:110:ARG:O	25:CY:114:LEU:HD23	1.93	0.67
1:AA:1324:A:H2'	1:AA:1325:C:C6	2.19	0.67
19:AS:62:ILE:HD12	19:AS:63:THR:H	1.58	0.67
43:BI:129:THR:HA	43:BI:137:PRO:HA	1.75	0.67
11:AK:59:TYR:O	11:AK:63:LEU:HG	1.94	0.67
13:AM:91:ARG:CB	13:AM:98:VAL:HG22	2.24	0.67
20:AT:57:ARG:NH1	20:AT:57:ARG:HB2	2.09	0.67
31:D5:45:VAL:HG22	31:D5:51:TYR:CD1	2.29	0.67
9:CI:5:TYR:HE1	9:CI:7:THR:HG1	1.42	0.67
56:BZ:108:PRO:HB3	56:BZ:142:SER:O	1.93	0.67
1:AA:679:C:O2'	1:AA:680:C:H5'	1.93	0.67
1:CA:34:C:H2'	1:CA:35:G:C8	2.28	0.67
2:AB:104:ASN:OD1	2:AB:107:THR:HB	1.94	0.67
1:CA:112:G:H4'	1:CA:389:A:H5''	1.74	0.67
38:DD:101:GLU:OE1	38:DD:103:ARG:HD3	1.93	0.67
1:CA:59:A:H5'	1:CA:60:A:H5''	1.76	0.67
1:CA:1253:G:H2'	1:CA:1254:C:C6	2.29	0.67
1:CA:724:G:O2'	1:CA:725:G:H5'	1.93	0.67
35:DA:1456:G:H2'	35:DA:1457:A:C8	2.29	0.67
35:BA:1719:G:O2'	35:BA:1720:U:H5'	1.94	0.67
1:CA:1091:U:H2'	1:CA:1093:A:OP2	1.93	0.67
35:DA:186:G:O2'	35:DA:187:G:H5'	1.94	0.67
23:CW:6:G:H1	23:CW:68:C:H42	1.42	0.67
1:AA:284:G:H2'	1:AA:285:G:H8	1.58	0.67
39:DE:11:MET:CB	39:DE:24:THR:HA	2.23	0.67
5:CE:12:LEU:HD11	5:CE:31:LEU:HD13	1.75	0.67
35:DA:1902:C:H4'	38:DD:244:ARG:HB2	1.76	0.67
35:DA:2304:G:H5'	35:DA:2305:A:OP2	1.94	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:DG:132:ASN:HD21	41:DG:157:ILE:CG1	2.04	0.67
35:BA:2722:G:H2'	35:BA:2723:C:C6	2.29	0.67
39:DE:119:ARG:HD2	39:DE:120:TRP:NE1	2.09	0.67
42:DH:97:ARG:O	42:DH:125:VAL:HG11	1.92	0.67
27:B1:71:TYR:HA	27:B1:74:VAL:CG2	2.23	0.67
41:BG:38:VAL:O	41:BG:158:ALA:HB3	1.94	0.67
35:DA:137:C:H2'	35:DA:139:G:H5'	1.75	0.67
47:DQ:132:VAL:HG12	47:DQ:133:ARG:H	1.59	0.67
35:BA:1493:C:H4'	35:BA:1494:A:OP1	1.94	0.67
1:AA:1202:G:H2'	1:AA:1203:C:H5'	1.76	0.67
49:BS:26:LEU:C	49:BS:88:ASP:HB3	2.13	0.67
47:BQ:23:GLY:HA2	47:BQ:101:ARG:HB2	1.76	0.67
27:D1:62:VAL:HG22	27:D1:63:ALA:N	2.09	0.67
27:D1:88:LYS:O	27:D1:90:ILE:N	2.28	0.67
34:D8:46:ARG:O	34:D8:47:LYS:HB3	1.93	0.67
35:BA:943:U:OP2	46:BP:38:GLN:CD	2.32	0.67
4:AD:59:ARG:O	4:AD:62:GLN:HB2	1.93	0.67
6:AF:72:VAL:HG13	6:AF:73:ASN:N	2.08	0.67
18:AR:50:ILE:CD1	18:AR:70:ILE:HG21	2.23	0.67
1:AA:600:C:OP1	8:AH:97:VAL:HG12	1.93	0.67
8:CH:20:TYR:CE2	8:CH:75:ARG:HB3	2.29	0.67
31:D5:46:CYS:SG	31:D5:47:PRO:HD2	2.35	0.67
42:DH:13:LYS:C	42:DH:15:VAL:H	1.98	0.67
39:BE:167:VAL:HG22	39:BE:168:MET:N	2.09	0.67
2:AB:101:MET:HB2	2:AB:102:LEU:HD12	1.74	0.67
2:AB:102:LEU:CD1	2:AB:102:LEU:H	2.07	0.67
7:AG:113:GLU:CG	7:AG:119:ARG:HG2	2.24	0.67
5:CE:102:ALA:H	5:CE:107:ARG:HH21	1.42	0.67
26:B0:36:ILE:HD11	35:BA:2355:C:C4'	2.22	0.67
43:BI:57:ARG:HB3	43:BI:57:ARG:NH1	2.09	0.67
1:AA:1096:C:H5''	2:AB:137:ARG:HH22	1.58	0.67
22:CV:39:C:O2'	22:CV:40:C:H5'	1.93	0.67
35:DA:797:C:H2'	35:DA:798:G:H8	1.60	0.67
53:DW:26:GLY:HA2	53:DW:71:VAL:O	1.93	0.67
1:CA:1206:G:H4'	3:CC:192:THR:O	1.94	0.67
1:CA:233:C:H2'	1:CA:234:C:H6	1.58	0.67
41:DG:60:LEU:HD13	41:DG:63:ILE:HG12	1.75	0.67
39:BE:52:LEU:HD23	39:BE:75:VAL:HG23	1.77	0.67
39:BE:60:ASN:OD1	39:BE:62:PRO:HD2	1.94	0.67
47:DQ:55:VAL:HG12	47:DQ:64:ILE:CD1	2.20	0.67
4:CD:120:LEU:HB3	4:CD:125:HIS:HB2	1.75	0.67
40:BF:32:LEU:C	40:BF:32:LEU:HD23	2.15	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:389:G:H1	46:BP:71:VAL:CG1	2.07	0.67
1:AA:1422:G:H2'	1:AA:1423:G:C8	2.29	0.67
1:AA:59:A:H5'	1:AA:60:A:H5''	1.75	0.67
48:BR:116:LEU:O	48:BR:117:VAL:HB	1.94	0.67
28:B2:30:ARG:HD2	28:B2:30:ARG:N	2.00	0.67
2:AB:187:LEU:C	2:AB:187:LEU:HD22	2.15	0.67
2:AB:187:LEU:HA	2:AB:201:ILE:HB	1.77	0.67
44:DN:30:ILE:HD13	44:DN:54:VAL:HG21	1.75	0.67
44:BN:30:ILE:O	44:BN:34:LEU:HB2	1.94	0.67
35:DA:833:U:H2'	35:DA:834:C:C6	2.29	0.67
35:DA:104:U:H2'	35:DA:105:C:O4'	1.94	0.67
6:AF:68:PRO:HG3	6:AF:71:ARG:NH2	2.08	0.67
16:AP:71:ARG:O	16:AP:74:LEU:HB2	1.93	0.67
1:CA:1457:G:H2'	1:CA:1458:G:H8	1.60	0.67
12:AL:66:VAL:HG23	12:AL:67:THR:O	1.93	0.67
11:CK:27:ASN:HA	11:CK:55:LYS:O	1.95	0.67
11:AK:65:ALA:HB3	11:AK:97:ALA:HB3	1.76	0.67
35:BA:933:A:H2'	35:BA:934:G:O4'	1.94	0.67
12:AL:46:LYS:HZ1	12:AL:47:LYS:HB2	1.58	0.67
31:B5:40:LYS:HE2	31:B5:46:CYS:CB	2.25	0.67
1:AA:562:C:H1'	12:AL:15:ARG:HB3	1.75	0.67
35:DA:1177:A:H5'	35:DA:1178:C:C6	2.30	0.67
46:DP:131:SER:HB2	46:DP:134:ALA:CB	2.24	0.67
46:DP:83:VAL:CG1	46:DP:112:LEU:HD21	2.25	0.67
35:BA:323:G:H2'	40:BF:169:ASN:ND2	2.09	0.67
38:DD:133:LEU:HA	38:DD:136:ILE:CD1	2.24	0.67
1:AA:1072:G:H2'	1:AA:1073:U:C6	2.29	0.67
13:CM:39:ILE:HD12	13:CM:56:LEU:HD23	1.75	0.67
1:AA:689:C:P	11:AK:46:GLY:HA3	2.33	0.67
1:AA:245:C:O2'	1:AA:246:A:H5'	1.94	0.67
35:DA:796:C:H2'	35:DA:797:C:C6	2.28	0.67
1:AA:696:A:H2'	1:AA:697:U:C6	2.29	0.67
1:CA:1288:A:H1'	1:CA:1352:C:O2'	1.94	0.67
36:BB:61:G:H2'	36:BB:62:C:C6	2.29	0.67
35:BA:2838:G:O2'	35:BA:2839:G:H5'	1.94	0.67
56:BZ:4:ARG:O	56:BZ:5:LEU:HG	1.94	0.67
52:BV:39:LEU:HD11	52:BV:53:GLU:N	2.08	0.67
49:DS:26:LEU:C	49:DS:88:ASP:HB3	2.14	0.67
35:DA:1190:G:H4'	46:DP:35:HIS:HB3	1.75	0.67
43:BI:4:ILE:HD13	43:BI:47:LEU:HD22	1.74	0.67
35:BA:1131:G:OP1	44:BN:80:GLY:HA2	1.95	0.67
35:BA:2020:A:O2'	35:BA:2021:C:H5'	1.94	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:CI:50:LEU:O	9:CI:53:VAL:HG22	1.94	0.67
17:CQ:67:LYS:HA	17:CQ:70:ARG:HH12	1.60	0.67
39:DE:173:VAL:HG12	39:DE:174:ASP:N	2.10	0.67
35:DA:2817:G:H21	35:DA:2836:U:C1'	2.06	0.67
38:BD:10:THR:HG23	38:BD:13:ARG:CB	2.25	0.67
44:BN:108:PRO:C	44:BN:109:LYS:HD3	2.15	0.67
6:AF:12:PRO:O	6:AF:14:LEU:N	2.27	0.67
35:DA:649:G:H2'	35:DA:650:C:C6	2.29	0.67
11:CK:59:TYR:O	11:CK:63:LEU:HG	1.95	0.67
53:BW:26:GLY:O	53:BW:27:LYS:HG3	1.94	0.67
36:BB:24:G:H4'	36:BB:25:A:C8	2.29	0.67
18:AR:19:LYS:O	18:AR:20:ALA:HB2	1.94	0.67
35:DA:1438:U:H2'	35:DA:1439:A:C8	2.30	0.67
3:AC:138:VAL:HG22	3:AC:151:VAL:HG23	1.76	0.67
35:DA:1908:C:H2'	35:DA:1909:C:H6	1.58	0.67
1:AA:357:G:OP1	1:AA:367:U:H5''	1.94	0.67
38:BD:24:ILE:HG23	38:BD:24:ILE:O	1.93	0.67
34:B8:25:MET:HB2	46:BP:62:LEU:HD11	1.77	0.67
35:BA:1345:C:O2'	35:BA:1346:G:H5'	1.94	0.67
54:BX:36:LYS:NZ	54:BX:39:ILE:HA	2.08	0.67
39:DE:77:ILE:CG2	39:DE:78:LEU:H	2.07	0.67
35:DA:142(A):C:H2'	35:DA:143:G:O4'	1.94	0.67
42:BH:89:ILE:HD11	42:BH:129:THR:HB	1.75	0.67
47:DQ:108:GLY:O	47:DQ:109:VAL:HG23	1.94	0.67
27:D1:58:ILE:HD12	27:D1:59:THR:N	2.04	0.67
27:D1:83:GLU:OE1	27:D1:86:SER:N	2.27	0.67
52:BV:75:PHE:CD1	52:BV:87:HIS:HB3	2.30	0.67
35:DA:2820:A:H62	39:DE:192:ASN:CB	2.08	0.67
48:BR:82:GLU:C	48:BR:85:PRO:HD2	2.15	0.67
26:B0:70:GLN:CG	26:B0:71:ASP:H	2.02	0.67
46:DP:146:VAL:HG22	46:DP:147:LEU:N	2.05	0.67
4:AD:201:GLN:HA	4:AD:204:ILE:HD12	1.76	0.67
1:CA:818:G:H3'	1:CA:819:A:C5'	2.24	0.67
1:AA:1375:A:H2'	1:AA:1376:U:H6	1.59	0.67
25:CY:129:ILE:HA	25:CY:132:ILE:HD12	1.75	0.67
25:CY:32:ARG:NE	25:CY:32:ARG:HA	2.08	0.67
25:AY:28:LEU:HB3	25:AY:114:LEU:HD11	1.76	0.67
33:B7:30:VAL:HG23	33:B7:31:LEU:H	1.59	0.67
8:AH:10:LEU:HD23	8:AH:10:LEU:H	1.60	0.67
8:CH:82:HIS:HB3	8:CH:138:TRP:CE2	2.28	0.67
5:AE:109:ILE:HG22	5:AE:110:LEU:N	2.08	0.67
1:CA:1253:G:H5'	10:CJ:44:VAL:HG12	1.76	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1483:A:H2'	1:AA:1484:C:H5'	1.76	0.67
4:CD:128:VAL:HG12	4:CD:129:ASN:N	2.09	0.67
2:CB:22:LYS:HZ2	2:CB:22:LYS:HA	1.59	0.67
35:DA:853:G:H2'	35:DA:854:G:H8	1.59	0.67
3:AC:73:PRO:HA	3:AC:76:VAL:CG1	2.25	0.67
1:CA:439:A:C2	1:CA:441:A:H1'	2.28	0.67
38:BD:167:GLY:H	38:BD:174:ILE:HB	1.58	0.67
30:B4:45:GLY:C	30:B4:47:GLN:H	1.98	0.67
3:CC:181:ASN:ND2	3:CC:204:LEU:HB2	2.10	0.67
35:BA:1438:U:H2'	35:BA:1439:A:C8	2.29	0.67
1:CA:426:G:H4'	4:CD:41:GLY:O	1.94	0.67
35:BA:2808:U:C2'	35:BA:2809:A:H5'	2.23	0.67
52:BV:14:VAL:HG12	52:BV:15:GLU:H	1.60	0.67
10:AJ:49:VAL:CG1	14:AN:41:ARG:HB2	2.25	0.67
27:B1:83:GLU:HG3	27:B1:86:SER:N	2.08	0.67
41:BG:76:SER:HB3	41:BG:83:ARG:HB3	1.77	0.67
56:DZ:57:ILE:N	56:DZ:57:ILE:HD12	2.09	0.67
51:DU:92:ARG:HD2	52:DV:11:GLN:HG3	1.76	0.67
44:DN:70:LYS:O	44:DN:71:ILE:HD13	1.95	0.67
20:AT:80:ARG:O	20:AT:84:LEU:HB2	1.94	0.67
44:DN:57:ALA:O	44:DN:58:ASP:O	2.13	0.67
47:DQ:43:THR:OG1	47:DQ:46:GLN:HG3	1.93	0.67
35:DA:2028:U:H2'	35:DA:2029:G:C8	2.30	0.67
25:AY:150:SER:OG	25:AY:153:GLU:HG3	1.95	0.67
1:AA:920:U:H1'	1:AA:1080:A:H2	1.59	0.67
35:BA:1175:U:H4'	35:BA:1176:G:H3'	1.77	0.67
15:CO:15:PHE:HB2	15:CO:27:VAL:HG22	1.77	0.67
35:BA:322:A:P	40:BF:169:ASN:HB2	2.34	0.67
38:DD:130:ALA:HB1	38:DD:191:ALA:O	1.93	0.67
11:CK:65:ALA:HB3	11:CK:97:ALA:HB3	1.75	0.67
35:DA:2732:G:C3'	35:DA:2733:A:H5'	2.23	0.67
35:BA:680:G:H2'	35:BA:681:G:H8	1.56	0.67
1:CA:333:G:H4'	20:CT:16:HIS:CE1	2.29	0.67
4:AD:128:VAL:C	4:AD:130:GLY:H	1.96	0.67
35:BA:554:U:O2'	35:BA:555:U:H5'	1.95	0.67
13:AM:39:ILE:HD12	13:AM:56:LEU:HD23	1.76	0.67
26:B0:25:ARG:HB2	26:B0:37:LEU:HD23	1.77	0.67
1:AA:342:C:O2'	1:AA:343:U:H5'	1.95	0.67
35:BA:2521:C:N4	35:BA:2544:G:H1	1.92	0.67
1:CA:1090:U:H2'	1:CA:1091:U:C6	2.30	0.67
35:DA:1401:G:H2'	35:DA:1402:C:H6	1.59	0.67
35:DA:718:A:H3'	35:DA:719:C:C6	2.30	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1108:U:H2'	35:BA:1109:C:H5'	1.75	0.67
29:D3:36:VAL:O	29:D3:37:LEU:HD23	1.95	0.67
45:BO:4:PRO:O	45:BO:5:GLN:CB	2.42	0.67
1:CA:334:C:O2'	1:CA:335:C:H5'	1.94	0.67
45:DO:69:ILE:N	45:DO:69:ILE:HD12	2.09	0.67
38:BD:158:ALA:O	38:BD:161:THR:HG23	1.94	0.67
38:BD:223:GLY:O	38:BD:225:ALA:N	2.26	0.67
1:CA:1079:G:H2'	1:CA:1080:A:C8	2.29	0.67
35:DA:1792:G:P	38:DD:206:LEU:HB2	2.35	0.67
41:DG:140:ILE:HD12	41:DG:141:PHE:N	2.09	0.67
41:DG:51:ARG:CZ	41:DG:51:ARG:HA	2.24	0.67
56:BZ:138:GLU:H	56:BZ:138:GLU:CD	1.96	0.67
35:DA:2787:C:O2	39:DE:61:ARG:HD3	1.94	0.67
27:B1:68:PRO:O	27:B1:70:VAL:N	2.28	0.67
54:DX:53:LYS:NZ	54:DX:55:ASN:HD21	1.92	0.67
42:BH:88:LEU:HD21	42:BH:165:ALA:HA	1.76	0.67
35:BA:271(P):C:C5'	43:BI:46:ALA:HB2	2.19	0.67
35:BA:577:G:H2'	35:BA:578:A:C8	2.30	0.67
48:DR:97:VAL:HG22	48:DR:114:VAL:HG22	1.76	0.67
43:BI:71:ILE:HG13	43:BI:72:LEU:N	2.09	0.67
6:CF:69:GLU:O	6:CF:72:VAL:HG12	1.95	0.67
35:DA:1257:C:O2'	40:DF:84:VAL:HG23	1.95	0.67
35:DA:792:G:C5'	35:DA:793:A:H5'	2.25	0.67
35:DA:108:U:H2'	35:DA:109:G:H8	1.59	0.67
4:AD:33:MET:CE	4:AD:37:PRO:HA	2.25	0.67
1:CA:1402:C:H2'	1:CA:1403:C:O4'	1.94	0.67
1:CA:989:C:H42	1:CA:1217:C:H42	1.40	0.67
7:AG:86:GLN:CG	23:AW:33:C:H5'	2.25	0.67
1:AA:15:G:H4'	5:AE:24:ARG:NH2	2.10	0.67
8:AH:23:SER:HA	8:AH:63:LEU:CD2	2.24	0.67
9:AI:63:ILE:N	9:AI:63:ILE:HD12	2.09	0.67
1:AA:1195:C:H5''	1:AA:1196:U:OP2	1.94	0.67
35:BA:2472:G:H5'	35:BA:2473:U:H5''	1.76	0.67
31:B5:41:PRO:HG2	31:B5:44:THR:OG1	1.94	0.67
35:DA:779:U:H2'	35:DA:780:G:C8	2.30	0.67
40:BF:134:GLY:H	40:BF:162:LEU:HD11	1.59	0.67
1:CA:490:G:H2'	1:CA:491:G:H8	1.59	0.67
26:D0:39:ARG:HH21	35:DA:2355:C:H1'	1.57	0.67
20:CT:80:ARG:O	20:CT:84:LEU:HB2	1.94	0.67
2:AB:39:ILE:HG22	2:AB:40:HIS:O	1.95	0.67
1:CA:340:U:H2'	1:CA:341:C:H6	1.60	0.67
1:CA:294:U:H2'	1:CA:295:C:C6	2.30	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
57:DC:22:ILE:HG22	57:DC:25:ALA:HB2	1.75	0.67
3:CC:127:ARG:HG2	3:CC:127:ARG:HH11	1.57	0.67
45:DO:68:GLU:CD	45:DO:78:ARG:HH11	1.97	0.67
38:DD:242:ARG:HH11	38:DD:242:ARG:HG3	1.60	0.67
38:DD:34:VAL:O	38:DD:34:VAL:HG13	1.94	0.67
41:DG:73:ALA:O	41:DG:85:GLY:HA2	1.94	0.67
50:BT:83:ILE:HG13	50:BT:84:GLN:N	2.08	0.67
56:BZ:72:ARG:O	56:BZ:73:GLN:HB2	1.93	0.67
39:BE:65:GLY:O	39:BE:70:ALA:HB2	1.95	0.67
51:BU:83:LEU:CB	51:BU:88:ILE:HG12	2.24	0.67
54:BX:77:LYS:HE2	54:BX:78:LYS:HG3	1.77	0.67
39:DE:52:LEU:HD12	39:DE:53:PRO:HD2	1.76	0.67
35:DA:389:G:H1	46:DP:71:VAL:CG1	2.08	0.67
35:BA:2243:U:H2'	35:BA:2244:U:C6	2.30	0.67
52:BV:72:VAL:HA	52:BV:88:ARG:NH1	2.09	0.67
1:AA:331:G:OP1	1:AA:332:G:H5'	1.95	0.67
49:DS:17:ARG:HG3	49:DS:18:ILE:CD1	2.25	0.67
15:CO:54:ARG:HA	15:CO:57:LEU:HD12	1.77	0.67
2:CB:162:ILE:C	2:CB:162:ILE:HD12	2.15	0.67
46:DP:23:PRO:HD2	46:DP:33:ARG:CZ	2.24	0.67
46:DP:32:THR:O	46:DP:33:ARG:HB2	1.93	0.67
1:AA:990:C:H2'	1:AA:991:U:C6	2.30	0.67
12:AL:89:ARG:HH11	12:AL:90:VAL:N	1.93	0.67
46:DP:85:LEU:CD2	46:DP:85:LEU:H	2.06	0.67
35:BA:272(D):G:H1	35:BA:364:C:N4	1.93	0.67
35:BA:2830:G:H5'	39:BE:58:ARG:HH12	1.60	0.67
16:CP:28:ARG:HH11	16:CP:28:ARG:HG2	1.59	0.67
5:AE:102:ALA:HB1	5:AE:106:PRO:CG	2.25	0.67
1:CA:332:G:H2'	1:CA:333:G:H8	1.59	0.67
38:BD:130:ALA:HB1	38:BD:191:ALA:O	1.95	0.67
35:BA:1232:G:H2'	35:BA:1233:C:H6	1.59	0.67
23:CW:57:C:H2'	23:CW:58:A:C8	2.30	0.67
35:DA:795:C:H2'	35:DA:796:C:C6	2.30	0.67
1:CA:284:G:H2'	1:CA:285:G:H8	1.59	0.67
23:AW:54:G:O2'	23:AW:55:5MU:H5''	1.95	0.67
15:AO:61:GLY:O	15:AO:65:ARG:HD3	1.95	0.67
1:CA:899:C:H6	1:CA:899:C:O5'	1.76	0.67
35:BA:703:U:H2'	35:BA:704:G:H5'	1.76	0.67
1:AA:189(D):C:H1'	1:AA:189(H):G:C2	2.30	0.67
35:BA:1531:C:H3'	35:BA:1532:C:C4'	2.25	0.67
41:DG:43:LEU:H	41:DG:43:LEU:CD1	2.08	0.67
10:CJ:6:ILE:HG22	10:CJ:98:ILE:HG13	1.77	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2893:G:H5'	35:BA:2894:G:C5'	2.15	0.67
54:BX:38:GLU:HB3	54:BX:41:ASN:HD21	1.59	0.67
39:DE:96:PHE:HA	39:DE:100:GLU:OE1	1.94	0.67
54:DX:38:GLU:HB3	54:DX:41:ASN:HD21	1.60	0.67
51:DU:90:VAL:HG22	52:DV:39:LEU:HD12	1.75	0.67
1:CA:1064:G:N2	1:CA:1190:G:H2'	2.10	0.67
27:D1:11:ARG:HB3	27:D1:12:PRO:HD2	1.77	0.67
6:CF:21:LEU:O	6:CF:25:ILE:HG12	1.94	0.67
4:AD:101:LEU:HD23	4:AD:121:VAL:HG13	1.76	0.67
35:DA:18:C:H2'	35:DA:19:C:C6	2.30	0.67
1:AA:1499:A:O2'	1:AA:1500:A:H5'	1.94	0.67
31:D5:41:PRO:HG2	31:D5:44:THR:OG1	1.93	0.67
5:AE:149:GLU:O	5:AE:153:LYS:HG2	1.94	0.67
7:CG:113:GLU:CG	7:CG:119:ARG:HG2	2.25	0.67
5:AE:96:PRO:HA	5:AE:117:ASP:OD2	1.95	0.67
1:AA:312:C:H2'	1:AA:313:A:C8	2.30	0.67
15:AO:54:ARG:HA	15:AO:57:LEU:HD12	1.76	0.67
35:DA:1707:G:H2'	35:DA:1708:C:C6	2.30	0.67
35:BA:1742:G:N7	35:BA:1743:C:C4	2.63	0.67
35:DA:1531:C:H3'	35:DA:1532:C:C4'	2.25	0.67
32:D6:40:CYS:HB2	32:D6:46:HIS:HE1	1.58	0.67
50:DT:3:ARG:HB3	50:DT:6:LEU:HB3	1.77	0.67
35:DA:2087:G:O2'	35:DA:2088:G:H5'	1.95	0.67
35:BA:1523:U:H2'	35:BA:1524:G:H8	1.60	0.67
50:DT:38:ASN:HD22	50:DT:40:THR:N	1.88	0.67
35:BA:631:A:O2'	46:BP:67:MET:HB3	1.95	0.67
50:BT:48:ILE:HD12	50:BT:48:ILE:N	2.10	0.67
47:BQ:65:PHE:O	47:BQ:66:ILE:HG23	1.94	0.67
42:DH:89:ILE:HD13	42:DH:89:ILE:N	2.10	0.67
14:AN:34:TYR:C	14:AN:36:PHE:H	1.97	0.67
34:D8:8:LYS:HB3	34:D8:12:LYS:HE3	1.77	0.67
35:BA:2222:G:O2'	35:BA:2223:G:H5'	1.93	0.67
44:DN:9:VAL:CG1	44:DN:39:ARG:HH22	2.06	0.67
1:CA:1190:G:H3'	3:CC:3:ASN:OD1	1.95	0.67
44:BN:91:LEU:HA	44:BN:95:PRO:HB3	1.76	0.67
44:DN:91:LEU:HA	44:DN:95:PRO:HB3	1.77	0.67
48:DR:55:ALA:HB2	48:DR:79:LEU:HD12	1.75	0.67
48:DR:9:LYS:O	48:DR:10:LEU:CG	2.42	0.67
35:BA:2820:A:C8	39:BE:191:PRO:HB2	2.29	0.67
2:CB:187:LEU:HA	2:CB:201:ILE:HB	1.77	0.67
2:CB:33:TYR:HD1	2:CB:43:ASP:HA	1.58	0.67
35:DA:78:A:H2'	35:DA:79:G:C8	2.29	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AD:65:ARG:HD2	4:AD:70:ILE:O	1.94	0.67
18:AR:67:ALA:HA	18:AR:70:ILE:HD12	1.77	0.67
46:BP:146:VAL:HG22	46:BP:147:LEU:N	2.05	0.67
11:CK:88:GLY:O	11:CK:91:ARG:HB2	1.96	0.67
47:BQ:82:ARG:HG2	47:BQ:82:ARG:HH11	1.59	0.67
1:AA:1340:A:O2'	22:AV:31:U:H5'	1.94	0.67
8:AH:119:LEU:HG	8:AH:124:ALA:HB2	1.75	0.67
8:AH:127:LEU:O	8:AH:127:LEU:HD13	1.95	0.67
1:AA:1079:G:H2'	1:AA:1080:A:C8	2.30	0.67
35:DA:743:G:O2'	35:DA:744:G:H5'	1.95	0.67
8:CH:11:THR:CG2	8:CH:14:ARG:HH12	2.06	0.67
31:B5:45:VAL:HG22	31:B5:51:TYR:CD1	2.29	0.67
29:B3:7:LYS:O	29:B3:54:VAL:HG13	1.95	0.67
12:CL:46:LYS:HZ1	12:CL:47:LYS:HB2	1.59	0.67
46:DP:95:VAL:CG2	46:DP:125:VAL:HB	2.25	0.67
35:DA:1946:U:O2'	35:DA:1947:C:H5'	1.95	0.67
4:CD:191:ARG:HH12	4:CD:195:ALA:HA	1.59	0.67
35:DA:718:A:H3'	35:DA:719:C:H6	1.58	0.67
25:AY:112:LYS:O	25:AY:116:ARG:HG3	1.95	0.67
35:DA:1108:U:H2'	35:DA:1109:C:H5'	1.75	0.67
47:DQ:131:ILE:N	47:DQ:131:ILE:HD13	2.10	0.67
6:CF:43:LEU:H	6:CF:43:LEU:HD12	1.60	0.67
35:DA:1935:G:H3'	35:DA:1962:C:H42	1.58	0.67
13:CM:75:ALA:O	13:CM:79:LYS:HG3	1.95	0.67
1:CA:532:A:H2	1:CA:1207:G:O4'	1.78	0.66
10:CJ:49:VAL:CG1	14:CN:41:ARG:HB2	2.24	0.66
35:DA:1899:G:N2	35:DA:1902:C:N4	2.43	0.66
38:DD:206:LEU:HA	38:DD:211:ARG:HH12	1.58	0.66
41:DG:93:THR:O	41:DG:94:LEU:HD23	1.94	0.66
34:B8:43:GLN:C	34:B8:44:LYS:HD2	2.16	0.66
1:AA:962:C:H2'	1:AA:963:G:H8	1.58	0.66
39:DE:105:THR:OG1	39:DE:166:THR:HG22	1.94	0.66
39:DE:4:ILE:CG1	39:DE:28:ALA:HB1	2.25	0.66
27:B1:87:PRO:C	27:B1:89:GLU:N	2.46	0.66
41:BG:5:VAL:HG11	41:BG:104:GLU:OE2	1.95	0.66
54:DX:55:ASN:HB2	54:DX:77:LYS:HD2	1.75	0.66
34:D8:32:LEU:HB3	34:D8:35:GLN:H	1.58	0.66
40:BF:28:ILE:HG22	40:BF:112:MET:HB3	1.76	0.66
27:D1:88:LYS:O	27:D1:92:LYS:N	2.27	0.66
1:AA:59:A:H5'	1:AA:60:A:C5'	2.24	0.66
48:BR:55:ALA:HB2	48:BR:79:LEU:HD12	1.77	0.66
2:AB:54:THR:HG21	2:AB:201:ILE:HD11	1.75	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:CB:194:PRO:O	2:CB:196:LEU:N	2.29	0.66
35:DA:2443:C:O2'	35:DA:2444:G:H5'	1.95	0.66
16:AP:5:ARG:C	16:AP:6:LEU:HD12	2.16	0.66
25:AY:14:MET:HE1	25:AY:165:THR:HG23	1.77	0.66
11:CK:44:SER:OG	11:CK:47:VAL:HG23	1.94	0.66
35:BA:465:G:H2'	35:BA:466:A:C8	2.29	0.66
2:CB:104:ASN:OD1	2:CB:107:THR:HB	1.95	0.66
43:DI:38:LEU:HB2	43:DI:40:THR:HG23	1.75	0.66
46:DP:90:ARG:HD2	46:DP:91:PHE:CD1	2.29	0.66
42:BH:13:LYS:C	42:BH:15:VAL:H	1.98	0.66
35:DA:779:U:H2'	35:DA:780:G:H8	1.60	0.66
46:DP:79:ARG:HH21	46:DP:109:GLY:CA	2.06	0.66
46:BP:95:VAL:CG2	46:BP:125:VAL:HB	2.25	0.66
1:CA:377:G:OP1	16:CP:3:LYS:HD3	1.95	0.66
38:DD:142:VAL:HG23	38:DD:192:THR:C	2.16	0.66
1:CA:679:C:O2'	1:CA:680:C:H5'	1.95	0.66
35:DA:323:G:C2'	40:DF:169:ASN:HD21	2.08	0.66
38:BD:144:ALA:HB3	38:BD:192:THR:CG2	2.25	0.66
1:AA:1253:G:H2'	1:AA:1254:C:C6	2.30	0.66
35:BA:1713:U:O2'	35:BA:1714:G:H5'	1.95	0.66
1:AA:160:A:H1'	1:AA:344:A:N7	2.10	0.66
10:CJ:27:ALA:CB	10:CJ:85:LEU:HD11	2.24	0.66
30:D4:45:GLY:C	30:D4:47:GLN:H	1.97	0.66
33:D7:13:ALA:O	33:D7:17:GLY:HA3	1.94	0.66
3:CC:152:ILE:HA	3:CC:166:GLU:O	1.95	0.66
1:AA:1046:A:H3'	1:AA:1047:G:H8	1.60	0.66
23:AW:7:G:H5'	23:AW:8:U:H5	1.59	0.66
35:BA:603:A:H4'	35:BA:604:G:O5'	1.94	0.66
35:BA:608:A:OP1	40:BF:100:THR:HG21	1.95	0.66
25:CY:43:VAL:O	25:CY:49:HIS:HA	1.95	0.66
45:DO:61:VAL:HG22	45:DO:62:VAL:O	1.95	0.66
50:DT:28:VAL:CG2	50:DT:47:GLY:H	2.03	0.66
35:DA:1778:U:C5	35:DA:1784:A:C4	2.82	0.66
38:DD:25:THR:CG2	38:DD:82:ILE:H	2.08	0.66
38:DD:25:THR:HG22	38:DD:82:ILE:O	1.95	0.66
50:BT:118:ARG:O	50:BT:121:ILE:HG22	1.95	0.66
14:AN:27:CYS:HB3	14:AN:43:CYS:SG	2.34	0.66
55:DY:76:CYS:O	55:DY:78:ALA:N	2.28	0.66
35:DA:559:G:N2	51:DU:49:HIS:CD2	2.63	0.66
51:DU:105:VAL:O	51:DU:109:LEU:HG	1.95	0.66
4:CD:22:LYS:HB2	4:CD:26:CYS:CB	2.20	0.66
40:BF:2:LYS:O	40:BF:25:PRO:HD2	1.95	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:D1:46:LEU:CD1	27:D1:46:LEU:H	1.99	0.66
55:BY:87:LYS:HG3	55:BY:89:PHE:N	2.06	0.66
35:BA:2845:G:O2'	35:BA:2846:G:H5'	1.95	0.66
49:DS:62:LYS:HD3	49:DS:62:LYS:N	2.10	0.66
27:D1:37:ILE:HD12	35:DA:2080:G:O5'	1.94	0.66
47:BQ:108:GLY:O	47:BQ:109:VAL:HG23	1.94	0.66
6:CF:9:VAL:C	6:CF:10:LEU:HD12	2.15	0.66
4:AD:13:ARG:HD3	4:AD:38:TYR:O	1.95	0.66
47:DQ:10:ARG:HD3	47:DQ:12:GLN:HB3	1.75	0.66
25:AY:7:TYR:OH	25:AY:157:ALA:HA	1.94	0.66
43:BI:133:HIS:O	43:BI:135:GLU:HG3	1.94	0.66
35:BA:108:U:H2'	35:BA:109:G:C8	2.30	0.66
7:AG:152:ALA:C	7:AG:154:TYR:H	1.97	0.66
1:AA:1116:C:C3'	1:AA:1117:G:H5''	2.25	0.66
11:CK:65:ALA:O	11:CK:68:ALA:HB3	1.95	0.66
1:CA:1488:G:H2'	1:CA:1489:G:C8	2.30	0.66
35:DA:2830:G:H5'	39:DE:58:ARG:HH22	1.61	0.66
38:DD:95:LEU:HD12	38:DD:103:ARG:O	1.92	0.66
17:AQ:69:LYS:C	17:AQ:70:ARG:HD2	2.15	0.66
35:DA:2115:G:H4'	35:DA:2166:G:N2	2.09	0.66
1:CA:59:A:H5'	1:CA:60:A:C5'	2.26	0.66
3:AC:83:ARG:O	3:AC:87:LEU:HG	1.95	0.66
47:BQ:30:GLY:CA	47:BQ:107:ALA:HB2	2.24	0.66
25:CY:45:TYR:HB2	25:CY:78:ALA:HB1	1.75	0.66
3:CC:23:TYR:HA	10:CJ:11:PHE:CE1	2.31	0.66
35:DA:1742:G:N7	35:DA:1743:C:C4	2.63	0.66
35:DA:2037:G:H2'	35:DA:2038:G:C8	2.30	0.66
36:DB:60:C:H2'	36:DB:61:G:H8	1.61	0.66
45:DO:1:MET:H3	45:DO:1:MET:HE2	1.60	0.66
10:CJ:50:ILE:HA	10:CJ:60:ARG:HG2	1.78	0.66
35:BA:1819:A:OP1	38:BD:161:THR:HG21	1.95	0.66
38:DD:25:THR:O	38:DD:26:LYS:HD2	1.95	0.66
38:DD:94:LEU:N	38:DD:94:LEU:HD12	2.06	0.66
45:BO:69:ILE:HD12	45:BO:69:ILE:N	2.11	0.66
50:BT:53:ARG:HG2	50:BT:53:ARG:HH11	1.58	0.66
35:BA:558:G:H2'	35:BA:559:G:H8	1.58	0.66
52:BV:61:VAL:HG12	52:BV:62:LEU:N	2.11	0.66
28:B2:14:ARG:NE	28:B2:14:ARG:N	2.43	0.66
54:BX:80:ILE:O	54:BX:81:VAL:HB	1.94	0.66
35:BA:2774:C:H2'	35:BA:2775:A:C8	2.31	0.66
49:BS:25:ARG:NH2	49:BS:89:ARG:HH12	1.91	0.66
49:BS:54:LEU:HD13	49:BS:58:LEU:O	1.96	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1456:G:H2'	35:BA:1457:A:C8	2.30	0.66
6:CF:18:GLN:O	6:CF:21:LEU:HB2	1.95	0.66
3:CC:164:ARG:HB2	3:CC:164:ARG:NH1	2.06	0.66
1:CA:1405:G:N2	1:CA:1517:G:H22	1.93	0.66
25:CY:131:ASN:O	25:CY:132:ILE:C	2.33	0.66
20:CT:41:ILE:C	20:CT:43:LEU:H	1.97	0.66
25:AY:101:ILE:H	25:AY:101:ILE:HD12	1.61	0.66
35:BA:2259:G:H1'	35:BA:2427:C:C2	2.30	0.66
1:CA:1073:U:H2'	1:CA:1074:G:C8	2.29	0.66
8:AH:20:TYR:CE2	8:AH:75:ARG:HB3	2.30	0.66
5:AE:144:THR:O	5:AE:148:VAL:HG23	1.96	0.66
54:DX:25:LYS:NZ	54:DX:87:GLN:N	2.38	0.66
9:CI:77:ILE:O	9:CI:81:ILE:HG12	1.95	0.66
33:D7:9:ARG:NH1	35:DA:1309:G:H3'	2.10	0.66
56:BZ:110:GLY:O	56:BZ:111:VAL:HG12	1.95	0.66
14:AN:8:GLU:CB	14:AN:12:ARG:HH11	2.09	0.66
23:AW:1:C:O2'	23:AW:2:G:H5'	1.95	0.66
35:BA:377:C:H2'	35:BA:378:C:H6	1.60	0.66
40:DF:9:ILE:HG12	40:DF:14:PRO:HA	1.75	0.66
35:BA:271(V):G:H2'	35:BA:271(W):G:O4'	1.95	0.66
3:AC:84:ILE:HD11	3:AC:88:ARG:HH21	1.60	0.66
35:BA:2781:A:H5''	35:BA:2782:G:H5'	1.77	0.66
22:AV:34:A:H2'	22:AV:35:A:H8	1.58	0.66
17:AQ:86:GLU:C	17:AQ:88:TYR:H	1.96	0.66
1:CA:425:G:H2'	1:CA:426:G:H8	1.61	0.66
35:BA:2485:G:O2'	35:BA:2486:G:H5'	1.96	0.66
1:AA:484:G:H4'	1:AA:485:G:O5'	1.95	0.66
35:DA:2485:G:O2'	35:DA:2486:G:H5'	1.96	0.66
1:CA:671:G:O2'	1:CA:672:U:H5'	1.94	0.66
50:DT:42:ILE:HG13	50:DT:42:ILE:O	1.94	0.66
50:DT:107:ASP:OD1	50:DT:109:GLU:HB2	1.94	0.66
50:DT:27:THR:OG1	50:DT:87:ASP:HA	1.94	0.66
38:BD:268:ARG:HH11	38:BD:268:ARG:HB2	1.61	0.66
38:BD:34:VAL:O	38:BD:34:VAL:HG13	1.95	0.66
42:DH:89:ILE:HD11	42:DH:129:THR:HB	1.76	0.66
54:BX:53:LYS:NZ	54:BX:55:ASN:HD21	1.93	0.66
54:DX:60:ARG:HG3	54:DX:72:LYS:N	2.09	0.66
56:DZ:58:VAL:HG22	56:DZ:68:PRO:HA	1.77	0.66
1:AA:1203:C:OP1	14:AN:3:ARG:HD2	1.95	0.66
14:CN:4:LYS:O	14:CN:7:ILE:HG12	1.95	0.66
27:D1:87:PRO:HB2	27:D1:91:LYS:HZ2	1.61	0.66
48:DR:18:LEU:HD11	48:DR:22:ARG:NH2	2.11	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:DR:63:ARG:O	48:DR:67:LEU:HD23	1.94	0.66
1:AA:60:A:P	1:AA:60:A:H8	2.17	0.66
6:AF:39:LYS:HG2	6:AF:40:VAL:H	1.60	0.66
42:DH:44:VAL:HG12	42:DH:45:VAL:H	1.61	0.66
13:CM:91:ARG:CB	13:CM:98:VAL:HG22	2.26	0.66
12:AL:86:ARG:HG2	12:AL:87:GLY:N	2.11	0.66
35:BA:2389:G:H5''	35:BA:2390:U:O4'	1.96	0.66
1:AA:639:G:O2'	1:AA:640:A:H5'	1.96	0.66
35:BA:2529:G:OP2	35:BA:2530:A:H5''	1.95	0.66
35:BA:2745:C:H2'	35:BA:2746:U:C6	2.30	0.66
10:CJ:40:LEU:HB2	10:CJ:41:PRO:HD2	1.76	0.66
35:BA:1177:A:H5'	35:BA:1178:C:C6	2.29	0.66
35:BA:1613:G:H2'	35:BA:1617:C:N4	2.10	0.66
7:AG:65:ALA:O	7:AG:69:VAL:HG23	1.95	0.66
17:CQ:68:ARG:N	17:CQ:70:ARG:NH1	2.43	0.66
26:D0:25:ARG:HA	26:D0:29:GLN:NE2	2.10	0.66
53:DW:75:TYR:N	53:DW:75:TYR:HD1	1.93	0.66
1:AA:943:U:O5'	1:AA:943:U:H6	1.79	0.66
25:CY:73:GLN:HB2	25:CY:77:LYS:NZ	2.10	0.66
2:CB:137:ARG:HH11	2:CB:137:ARG:HG2	1.61	0.66
35:DA:1547:C:O2'	35:DA:1548:C:H5'	1.95	0.66
1:AA:148:G:O2'	1:AA:149:A:H5'	1.95	0.66
47:DQ:30:GLY:CA	47:DQ:107:ALA:HB2	2.24	0.66
1:AA:818:G:H3'	1:AA:819:A:C5'	2.25	0.66
35:DA:892:G:H1	35:DA:894:C:N4	1.93	0.66
35:BA:1193:G:H2'	35:BA:1194:A:O4'	1.94	0.66
35:DA:703:U:C2'	35:DA:704:G:H5'	2.26	0.66
31:B5:4:HIS:O	35:BA:2056:G:N2	2.28	0.66
56:DZ:61:LEU:HB2	56:DZ:65:GLN:HB2	1.78	0.66
1:AA:54:C:H41	1:AA:352:C:H2'	1.60	0.66
6:CF:37:VAL:HA	6:CF:65:VAL:HG12	1.77	0.66
3:AC:152:ILE:HA	3:AC:166:GLU:O	1.96	0.66
35:BA:449:A:O2'	35:BA:450:G:H5'	1.96	0.66
45:DO:1:MET:HG3	45:DO:32:TYR:HD2	1.60	0.66
45:DO:68:GLU:HB3	45:DO:78:ARG:HD3	1.78	0.66
35:BA:1902:C:H4'	38:BD:244:ARG:HB2	1.76	0.66
38:BD:27:THR:C	38:BD:29:PRO:HD2	2.16	0.66
16:CP:22:THR:HG22	16:CP:32:TYR:HA	1.78	0.66
35:BA:1665:A:H2'	35:BA:1666:G:O4'	1.95	0.66
56:BZ:39:VAL:HG21	56:BZ:44:PHE:HD2	1.61	0.66
39:BE:49:LEU:HD22	39:BE:49:LEU:N	2.09	0.66
1:AA:1064:G:N2	1:AA:1190:G:H2'	2.10	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
51:DU:92:ARG:HG3	51:DU:94:ASN:HB3	1.75	0.66
10:AJ:6:ILE:HA	10:AJ:97:GLU:O	1.95	0.66
1:AA:995:C:O2	14:AN:4:LYS:HE2	1.94	0.66
36:BB:7:G:H3'	36:BB:8:U:C5'	2.23	0.66
44:BN:70:LYS:O	44:BN:71:ILE:HD13	1.96	0.66
40:BF:41:LEU:HD11	40:BF:184:TYR:HE1	1.61	0.66
40:BF:52:LYS:HD3	40:BF:57:VAL:HA	1.76	0.66
3:AC:109:PRO:HA	3:AC:115:LEU:CD1	2.26	0.66
1:AA:1434:A:O2'	1:AA:1435:G:H5'	1.94	0.66
50:BT:100:TYR:HD2	50:BT:103:ARG:CZ	2.08	0.66
6:CF:72:VAL:HG13	6:CF:73:ASN:N	2.10	0.66
40:DF:67:GLN:O	40:DF:68:LYS:HG2	1.94	0.66
1:CA:817:C:H42	1:CA:1529:G:H1	1.43	0.66
25:CY:4:LYS:HA	25:CY:4:LYS:HE3	1.77	0.66
50:DT:10:VAL:C	50:DT:12:SER:N	2.45	0.66
1:AA:552:U:O2'	1:AA:553:A:H5'	1.94	0.66
35:DA:2259:G:H1'	35:DA:2427:C:C2	2.30	0.66
5:AE:12:LEU:HD11	5:AE:31:LEU:HD13	1.77	0.66
1:AA:523:A:N1	12:AL:92:ASP:HB2	2.11	0.66
2:AB:100:GLY:HA2	2:AB:103:THR:HB	1.78	0.66
8:AH:82:HIS:HB3	8:AH:138:TRP:CE2	2.30	0.66
14:CN:8:GLU:CB	14:CN:12:ARG:HH11	2.08	0.66
32:B6:13:CYS:HB3	32:B6:49:HIS:HB3	1.76	0.66
26:D0:36:ILE:HD11	35:DA:2355:C:C4'	2.26	0.66
35:DA:2795:G:N3	35:DA:2795:G:H2'	2.10	0.66
5:CE:78:HIS:CE1	5:CE:143:ARG:H	2.11	0.66
23:CW:17:C:C4'	23:CW:62:C:H5'	2.26	0.66
53:BW:26:GLY:HA2	53:BW:71:VAL:O	1.95	0.66
4:AD:12:CYS:SG	4:AD:19:LEU:O	2.54	0.66
19:CS:22:LEU:O	19:CS:22:LEU:HD13	1.95	0.66
50:DT:80:SER:CB	50:DT:81:PRO:CD	2.65	0.66
10:CJ:62:HIS:H	10:CJ:62:HIS:CD2	2.11	0.66
38:BD:209:ALA:O	38:BD:212:SER:HB3	1.94	0.66
35:DA:1568:G:H5''	38:DD:61:LEU:HB2	1.78	0.66
41:DG:44:GLY:C	41:DG:46:ALA:H	1.99	0.66
35:BA:2723:C:C2'	35:BA:2724:C:H5'	2.26	0.66
1:AA:1191:A:H5''	3:AC:4:LYS:HZ3	1.60	0.66
39:DE:65:GLY:O	39:DE:70:ALA:HB2	1.94	0.66
28:D2:52:ASP:O	28:D2:56:GLN:HG2	1.96	0.66
3:CC:112:SER:HB3	3:CC:115:LEU:HD12	1.77	0.66
4:CD:17:VAL:HG12	4:CD:18:LYS:N	2.10	0.66
43:DI:88:ILE:CG2	43:DI:89:TYR:N	2.58	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:BF:6:VAL:HG23	40:BF:125:LEU:H	1.59	0.66
35:BA:581:C:H2'	35:BA:582:G:C8	2.30	0.66
52:DV:72:VAL:HA	52:DV:88:ARG:NH1	2.10	0.66
4:AD:134:ASP:O	4:AD:136:PRO:HD3	1.96	0.66
3:AC:173:VAL:O	3:AC:175:LEU:N	2.28	0.66
33:B7:7:PRO:HB2	35:BA:1309:G:H4'	1.77	0.66
31:D5:40:LYS:HE2	31:D5:46:CYS:N	2.09	0.66
35:DA:1175:U:H4'	35:DA:1176:G:H3'	1.77	0.66
35:DA:543:C:N4	35:DA:551:G:H1	1.93	0.66
38:DD:79:VAL:HG12	38:DD:113:VAL:HA	1.77	0.66
38:DD:131:LEU:CD1	38:DD:136:ILE:HG12	2.26	0.66
35:BA:2186:G:C3'	35:BA:2187:G:H5''	2.26	0.66
35:BA:2014:A:H4'	53:BW:94:ASP:OD1	1.95	0.66
39:DE:133:LYS:C	39:DE:134:ILE:HD13	2.15	0.66
35:BA:860:U:C5	35:BA:917:A:N7	2.64	0.66
28:D2:30:ARG:CZ	28:D2:30:ARG:HB3	2.26	0.66
35:DA:2101:G:C2	35:DA:2102:U:H1'	2.31	0.66
35:BA:189:G:H2'	35:BA:205:G:N2	2.10	0.66
1:CA:243:A:H4'	1:CA:244:U:O5'	1.96	0.66
44:DN:3:THR:HG22	44:DN:5:VAL:CG2	2.25	0.66
53:DW:5:ALA:HB2	53:DW:54:ALA:HB2	1.77	0.66
35:DA:979:G:H3'	35:DA:980:A:H5''	1.76	0.66
37:BC:22:ILE:HG22	37:BC:25:ALA:HB2	1.76	0.66
1:CA:189(D):C:H1'	1:CA:189(H):G:C2	2.30	0.66
1:CA:484:G:H4'	1:CA:485:G:O5'	1.95	0.66
6:AF:43:LEU:H	6:AF:43:LEU:HD12	1.60	0.66
35:DA:2881:C:H2'	35:DA:2882:A:H8	1.60	0.66
35:DA:2562:U:C2'	35:DA:2563:U:H5'	2.25	0.66
35:DA:2715:C:H2'	35:DA:2716:U:H6	1.60	0.66
35:DA:2864:G:H8	35:DA:2864:G:H5'	1.61	0.66
41:DG:76:SER:CB	41:DG:84:LYS:H	2.08	0.66
41:DG:76:SER:HB3	41:DG:83:ARG:CA	2.26	0.66
56:BZ:119:GLU:HG3	56:BZ:119:GLU:O	1.96	0.66
54:BX:82:GLN:CG	54:BX:83:VAL:H	2.08	0.66
54:DX:60:ARG:HG2	54:DX:74:PRO:CD	2.25	0.66
42:BH:149:ARG:HG3	42:BH:162:ILE:HD11	1.77	0.66
35:BA:2772:C:H2'	35:BA:2773:C:C6	2.31	0.66
56:DZ:30:ASN:C	56:DZ:32:HIS:H	1.99	0.66
35:BA:2570:G:H2'	35:BA:2571:C:C6	2.30	0.66
35:DA:2243:U:H2'	35:DA:2244:U:C6	2.30	0.66
44:BN:26:LEU:CG	44:BN:30:ILE:HD11	2.26	0.66
15:CO:30:ALA:O	15:CO:33:THR:HB	1.94	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:D8:22:VAL:HG21	34:D8:56:GLU:HB2	1.76	0.66
46:DP:23:PRO:HD2	46:DP:33:ARG:NH1	2.10	0.66
1:AA:976:G:H22	1:AA:1362:C:H2'	1.59	0.66
35:DA:581:C:H2'	35:DA:582:G:C8	2.27	0.66
20:CT:100:ILE:HG22	20:CT:102:GLY:H	1.61	0.66
8:CH:119:LEU:HG	8:CH:124:ALA:HB2	1.77	0.66
23:AW:40:C:H2'	23:AW:41:C:C6	2.31	0.66
1:AA:954:G:H2'	1:AA:955:U:C6	2.30	0.66
1:AA:1392:G:H21	1:AA:1502:A:H8	1.42	0.66
1:AA:1507:A:C2	1:AA:1530:G:C1'	2.79	0.66
9:AI:28:VAL:CG1	9:AI:64:THR:HA	2.25	0.66
31:B5:46:CYS:HB3	31:B5:48:GLU:OE2	1.96	0.66
35:BA:2752:C:H5	35:BA:2753:A:H62	1.42	0.66
38:BD:121:PRO:HB3	38:BD:135:PHE:CE2	2.31	0.66
16:CP:71:ARG:O	16:CP:74:LEU:HB2	1.95	0.66
35:DA:493:G:C3'	35:DA:494:G:H5''	2.25	0.66
38:DD:142:VAL:HG23	38:DD:193:VAL:CA	2.24	0.66
56:BZ:17:ALA:O	56:BZ:20:ARG:HB3	1.96	0.66
35:BA:1771:C:H2'	35:BA:1772:G:C8	2.30	0.66
1:AA:1073:U:H2'	1:AA:1074:G:C8	2.30	0.66
35:BA:17:G:H4'	51:BU:25:TRP:CZ3	2.30	0.66
1:CA:60:A:H8	1:CA:60:A:P	2.18	0.66
35:BA:2777:G:C5'	35:BA:2778:A:H5'	2.25	0.66
26:B0:77:ARG:NH2	35:BA:857:C:H5'	2.10	0.66
2:CB:25:ASN:OD1	2:CB:27:LYS:HB2	1.95	0.66
35:DA:268:C:N4	35:DA:424:G:H1	1.94	0.66
1:AA:160:A:H1'	1:AA:344:A:C8	2.31	0.66
1:AA:741:G:H2'	1:AA:742:G:C8	2.30	0.66
1:CA:1096:C:H5''	2:CB:137:ARG:HH22	1.60	0.66
1:CA:160:A:H1'	1:CA:344:A:C8	2.31	0.66
4:AD:189:PRO:HB2	4:AD:194:LEU:HD21	1.78	0.66
35:DA:882:G:H22	35:DA:895:U:H3	1.44	0.66
1:CA:627:G:H2'	1:CA:628:G:H8	1.59	0.66
31:B5:15:ARG:O	31:B5:18:ALA:HB3	1.96	0.66
53:BW:1:MET:HG3	53:BW:2:GLU:H	1.61	0.66
56:BZ:9:TYR:OH	56:BZ:35:ARG:HG3	1.96	0.66
35:BA:265:A:H1'	35:BA:266:G:O4'	1.95	0.66
35:DA:1324:G:H3'	35:DA:1325:G:H4'	1.75	0.66
7:CG:49:ILE:O	7:CG:49:ILE:HG22	1.95	0.66
45:DO:104:ARG:HH12	50:DT:35:LYS:HD3	1.59	0.66
41:DG:76:SER:O	41:DG:77:ILE:HG23	1.95	0.66
46:BP:62:LEU:N	46:BP:62:LEU:HD13	2.11	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
51:BU:92:ARG:HG3	51:BU:94:ASN:HB3	1.78	0.66
52:BV:19:LYS:HG3	52:BV:20:LEU:N	2.11	0.66
9:AI:114:TYR:N	9:AI:114:TYR:HD2	1.92	0.66
52:DV:61:VAL:HG12	52:DV:62:LEU:N	2.10	0.66
10:AJ:5:ARG:HA	10:AJ:73:ASP:OD1	1.95	0.66
49:BS:87:PHE:CG	49:BS:88:ASP:N	2.62	0.66
27:D1:85:LEU:C	27:D1:87:PRO:HD3	2.17	0.66
34:D8:40:GLU:OE1	34:D8:44:LYS:HE3	1.96	0.66
3:CC:15:THR:CG2	3:CC:16:ARG:HH12	2.04	0.66
35:BA:2079:U:H3	35:BA:2241:A:H61	1.44	0.66
51:BU:6:THR:O	51:BU:8:VAL:N	2.22	0.66
49:DS:28:VAL:HG12	49:DS:29:PHE:N	2.05	0.66
6:CF:62:TRP:CZ2	6:CF:64:GLN:HB2	2.30	0.66
4:AD:200:GLU:O	4:AD:204:ILE:HG13	1.95	0.66
6:AF:69:GLU:O	6:AF:72:VAL:HG12	1.95	0.66
25:CY:131:ASN:O	25:CY:134:ARG:N	2.28	0.66
21:CU:8:THR:O	21:CU:12:LYS:HB2	1.96	0.66
25:AY:14:MET:HA	25:AY:132:ILE:HD13	1.76	0.66
35:BA:78:A:H2'	35:BA:79:G:C8	2.31	0.66
35:DA:926:A:H2'	35:DA:927:G:H8	1.60	0.66
1:AA:1504:G:H3'	1:AA:1504:G:P	2.35	0.66
8:CH:23:SER:HA	8:CH:63:LEU:CD2	2.21	0.66
35:BA:543:C:N4	35:BA:551:G:H1	1.94	0.66
16:CP:6:LEU:HB3	16:CP:17:TYR:HD2	1.59	0.66
1:CA:1422:G:H4'	45:DO:49:ARG:HH12	1.59	0.66
40:DF:129:PHE:HA	40:DF:142:TRP:NE1	2.10	0.66
40:DF:150:GLY:HA2	40:DF:172:TRP:CE3	2.30	0.66
27:D1:19:GLN:HE21	35:DA:379:G:H21	1.42	0.66
3:CC:83:ARG:O	3:CC:87:LEU:HG	1.96	0.66
35:BA:2777:G:C4'	35:BA:2778:A:H5'	2.26	0.66
3:AC:181:ASN:ND2	3:AC:204:LEU:HB2	2.11	0.66
1:CA:1472:U:O2'	1:CA:1473:A:H5'	1.95	0.66
2:CB:31:TYR:N	2:CB:31:TYR:CD2	2.62	0.66
1:CA:148:G:O2'	1:CA:149:A:H5'	1.95	0.66
1:CA:160:A:H1'	1:CA:344:A:N7	2.10	0.66
23:AW:64:G:H2'	23:AW:65:G:H8	1.60	0.66
35:DA:703:U:H2'	35:DA:704:G:H5'	1.76	0.66
8:AH:18:ARG:N	8:AH:78:GLN:NE2	2.44	0.66
43:DI:28:ASN:O	43:DI:32:PRO:HG2	1.95	0.66
35:BA:1991:U:H2'	35:BA:1992:G:C5'	2.26	0.66
35:BA:2866:U:C6	35:BA:2868:A:H1'	2.31	0.66
56:BZ:97:GLU:O	56:BZ:98:MET:HB3	1.96	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
28:D2:52:ASP:C	28:D2:54:LYS:N	2.48	0.66
44:DN:38:HIS:O	51:DU:67:ALA:HB1	1.96	0.66
49:BS:31:SER:OG	49:BS:32:LEU:N	2.29	0.66
44:DN:62:VAL:HG22	44:DN:66:LYS:HG3	1.78	0.66
44:DN:66:LYS:O	44:DN:67:LEU:HD23	1.96	0.66
35:BA:2712:U:H1'	35:BA:2712(A):A:H8	1.61	0.66
50:BT:109:GLU:HA	50:BT:112:ARG:HG3	1.77	0.66
2:AB:185:ILE:CG2	2:AB:199:TYR:HB2	2.26	0.66
6:CF:12:PRO:O	6:CF:14:LEU:N	2.28	0.66
15:CO:17:ARG:HG3	15:CO:17:ARG:HH11	1.61	0.66
2:CB:48:MET:HA	2:CB:51:LEU:HD12	1.78	0.66
6:AF:22:GLU:O	6:AF:26:ILE:HG13	1.96	0.66
12:CL:55:VAL:HG12	12:CL:56:ALA:N	2.06	0.66
38:BD:31:LYS:HA	38:BD:31:LYS:HZ1	1.60	0.66
35:DA:237:C:H2'	35:DA:238:C:H6	1.61	0.66
9:CI:10:ARG:HG3	9:CI:104:ARG:O	1.96	0.66
8:AH:64:LYS:O	8:AH:79:VAL:HG21	1.95	0.66
7:CG:84:ASN:HD22	7:CG:84:ASN:N	1.92	0.66
35:BA:323:G:C2'	40:BF:169:ASN:HD21	2.09	0.66
35:DA:999:U:O2	35:DA:999:U:H2'	1.95	0.66
35:BA:154(A):C:H5	35:BA:171:G:N1	1.94	0.66
35:BA:2101:G:C2	35:BA:2102:U:H1'	2.31	0.66
35:BA:718:A:H3'	35:BA:719:C:H6	1.61	0.66
1:CA:1048:G:H4'	14:CN:2:ALA:N	2.10	0.66
1:CA:696:A:H2'	1:CA:697:U:H6	1.60	0.66
1:CA:1152:A:H5''	10:CJ:13:HIS:CD2	2.31	0.66
50:DT:22:PHE:HD2	50:DT:22:PHE:H	1.42	0.66
38:BD:4:LYS:NZ	38:BD:20:ASP:HA	2.11	0.66
35:BA:782:A:H2	38:BD:226:MET:HE2	1.60	0.66
56:BZ:29:TYR:O	56:BZ:30:ASN:HB3	1.96	0.66
44:BN:10:GLU:OE2	44:BN:11:PRO:HD2	1.96	0.66
54:BX:83:VAL:O	54:BX:85:PRO:HD3	1.96	0.66
35:BA:2199:A:H5'	35:BA:2200:C:OP2	1.96	0.66
41:BG:16:ARG:O	41:BG:20:ILE:HG12	1.96	0.66
45:DO:114:ILE:HD12	45:DO:114:ILE:N	2.02	0.66
4:CD:101:LEU:HD23	4:CD:121:VAL:HG13	1.78	0.66
35:BA:661:C:H4'	46:BP:18:ARG:HG2	1.77	0.66
1:AA:1433:A:C2	1:AA:1434:A:C4	2.84	0.66
1:AA:1479:C:H2'	1:AA:1480:G:H8	1.60	0.66
20:AT:50:GLU:HG3	20:AT:51:GLU:N	2.11	0.66
35:BA:1758:G:N7	35:BA:2695:C:H4'	2.12	0.66
49:DS:104:GLY:O	49:DS:106:ARG:N	2.26	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
49:DS:87:PHE:CG	49:DS:88:ASP:N	2.63	0.66
2:AB:70:PHE:O	2:AB:92:TYR:HB2	1.95	0.66
35:DA:2079:U:H3	35:DA:2241:A:H61	1.43	0.66
6:CF:26:ILE:O	6:CF:30:LEU:HG	1.96	0.66
2:CB:70:PHE:O	2:CB:92:TYR:HB2	1.96	0.66
6:AF:67:MET:HB2	6:AF:68:PRO:HD2	1.77	0.66
51:DU:31:SER:OG	51:DU:34:LYS:N	2.27	0.66
13:CM:116:THR:HG22	13:CM:117:VAL:N	2.11	0.66
1:CA:990:C:H2'	1:CA:991:U:C6	2.31	0.66
1:AA:451:A:H1'	1:AA:452:A:C8	2.31	0.66
16:AP:38:TYR:O	16:AP:49:LEU:HA	1.96	0.66
35:DA:2261:C:H1'	35:DA:2388:A:N3	2.11	0.66
1:CA:601:C:H2'	1:CA:602:A:H8	1.60	0.66
8:AH:1:MET:HE2	8:AH:2:LEU:N	2.10	0.66
10:AJ:40:LEU:HB2	10:AJ:41:PRO:HD2	1.78	0.66
9:AI:113:LYS:HB2	9:AI:116:LYS:HG3	1.77	0.66
1:CA:448:A:O2'	1:CA:449:C:H5'	1.95	0.66
29:D3:4:LEU:HD21	29:D3:56:VAL:CG1	2.26	0.66
1:AA:1457:G:H2'	1:AA:1458:G:H8	1.60	0.66
35:BA:2115:G:H4'	35:BA:2166:G:N2	2.10	0.66
32:D6:13:CYS:HB3	32:D6:49:HIS:HB3	1.78	0.66
35:BA:863:A:C2'	35:BA:864:G:H5'	2.26	0.66
46:BP:122:PRO:HG3	46:BP:141:ALA:HB3	1.78	0.66
1:AA:1206:G:O4'	3:AC:194:GLY:HA2	1.96	0.66
35:DA:449:A:O2'	35:DA:450:G:H5'	1.95	0.66
26:D0:2:ALA:O	35:DA:2494:G:H5'	1.96	0.66
1:AA:1152:A:H5''	10:AJ:13:HIS:CD2	2.31	0.66
36:BB:15:A:H3'	36:BB:16:G:C5'	2.26	0.66
35:DA:2682:U:O4	35:DA:2728:U:H1'	1.96	0.65
45:DO:32:TYR:CD1	45:DO:32:TYR:N	2.61	0.65
50:DT:32:TYR:O	50:DT:33:LYS:HB2	1.95	0.65
50:DT:48:ILE:C	50:DT:63:VAL:HG12	2.16	0.65
34:B8:35:GLN:HA	35:BA:2420:C:P	2.35	0.65
45:BO:104:ARG:HB3	45:BO:104:ARG:CZ	2.26	0.65
45:BO:37:ASP:H	45:BO:62:VAL:H	1.41	0.65
50:BT:80:SER:CB	50:BT:81:PRO:CD	2.66	0.65
35:BA:2208:A:H1'	35:BA:2219:G:C4	2.31	0.65
35:BA:380:U:H2'	35:BA:381:G:H8	1.60	0.65
2:AB:212:GLN:NE2	2:AB:216:SER:HB2	2.10	0.65
41:BG:173:LEU:H	41:BG:173:LEU:HD22	1.60	0.65
28:D2:20:GLU:O	28:D2:22:GLU:N	2.29	0.65
4:CD:96:LEU:C	4:CD:98:GLU:H	1.99	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:271(P):C:C5'	43:DI:46:ALA:HB2	2.20	0.65
40:DF:202:PHE:HE1	40:DF:206:ILE:HD13	1.61	0.65
35:BA:2710:C:OP1	48:BR:15:SER:HB2	1.96	0.65
2:AB:48:MET:HA	2:AB:51:LEU:HD12	1.79	0.65
2:CB:172:ILE:CD1	2:CB:172:ILE:H	2.08	0.65
35:DA:1188:U:C2'	35:DA:1189:A:H5'	2.26	0.65
1:CA:1517:G:H1'	35:DA:1919:A:O3'	1.96	0.65
16:AP:56:ALA:O	16:AP:60:LEU:HG	1.95	0.65
3:CC:173:VAL:O	3:CC:175:LEU:N	2.29	0.65
42:BH:44:VAL:HG12	42:BH:45:VAL:H	1.59	0.65
8:AH:39:LEU:O	8:AH:44:PHE:HB2	1.97	0.65
8:CH:2:LEU:O	8:CH:3:THR:HG23	1.96	0.65
1:CA:523:A:N1	12:CL:92:ASP:HB2	2.11	0.65
35:BA:2745:C:H2'	35:BA:2746:U:H6	1.61	0.65
46:DP:74:GLU:OE2	46:DP:75:ILE:HD12	1.96	0.65
35:BA:2119:A:H3'	35:BA:2120:G:C5'	2.26	0.65
35:DA:2830:G:C5'	39:DE:58:ARG:HH22	2.09	0.65
35:DA:1771:C:H2'	35:DA:1772:G:C8	2.30	0.65
1:AA:248:C:O2'	1:AA:249:U:H5'	1.96	0.65
35:DA:1570:A:H2'	35:DA:1571:A:H8	1.58	0.65
35:DA:1642:G:H2'	35:DA:1643:G:H8	1.61	0.65
3:AC:111:LEU:HD21	3:AC:145:GLY:O	1.96	0.65
35:BA:703:U:C2'	35:BA:704:G:H5'	2.25	0.65
35:DA:1323:U:H3	35:DA:1331:A:H61	1.44	0.65
41:BG:9:ARG:O	41:BG:13:GLU:HG2	1.96	0.65
1:CA:946:A:H2'	1:CA:947:G:C8	2.31	0.65
7:AG:49:ILE:HG22	7:AG:49:ILE:O	1.95	0.65
45:DO:17:ARG:O	45:DO:18:LYS:HG3	1.97	0.65
27:D1:54:ALA:HB2	27:D1:57:GLU:OE1	1.96	0.65
1:CA:248:C:O2'	1:CA:249:U:H5'	1.96	0.65
35:BA:1935:G:H3'	35:BA:1962:C:H42	1.62	0.65
39:BE:24:THR:CG2	39:BE:184:VAL:HG23	2.25	0.65
56:BZ:102:LEU:HD11	56:BZ:124:ILE:CG2	2.25	0.65
56:BZ:58:VAL:HG13	56:BZ:67:LEU:C	2.17	0.65
51:BU:92:ARG:HD2	52:BV:11:GLN:HG3	1.78	0.65
10:AJ:48:THR:HG22	10:AJ:49:VAL:N	2.11	0.65
34:D8:6:THR:HG21	34:D8:63:PRO:HD3	1.78	0.65
54:BX:59:VAL:HG23	54:BX:74:PRO:HD2	1.78	0.65
41:BG:76:SER:CB	41:BG:83:ARG:HB3	2.25	0.65
54:DX:80:ILE:O	54:DX:81:VAL:HB	1.96	0.65
35:DA:997:G:O2'	35:DA:998:C:H5'	1.96	0.65
45:DO:119:PRO:HB2	50:DT:68:TYR:CD1	2.31	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
51:BU:47:TYR:HD1	51:BU:50:ARG:HH22	1.41	0.65
3:AC:53:ALA:O	3:AC:54:ARG:HB2	1.95	0.65
48:BR:18:LEU:HD11	48:BR:22:ARG:CZ	2.26	0.65
49:DS:26:LEU:HD22	49:DS:87:PHE:CE1	2.31	0.65
2:AB:158:LEU:N	2:AB:158:LEU:HD12	2.11	0.65
44:DN:30:ILE:O	44:DN:34:LEU:HB2	1.95	0.65
18:CR:43:PHE:C	18:CR:44:LEU:HD12	2.16	0.65
2:CB:72:GLY:HA3	2:CB:165:VAL:CG1	2.26	0.65
43:DI:110:ASP:O	43:DI:112:LYS:N	2.28	0.65
47:BQ:51:ARG:O	47:BQ:54:MET:HB3	1.95	0.65
1:CA:1399:C:C2	1:CA:1502:A:N6	2.64	0.65
25:CY:165:THR:HG22	25:CY:166:ASP:N	2.11	0.65
1:AA:452:A:O2'	1:AA:453:A:H8	1.73	0.65
16:CP:56:ALA:O	16:CP:60:LEU:HG	1.95	0.65
40:DF:158:THR:HG21	40:DF:163:VAL:CB	2.26	0.65
2:CB:108:ILE:HD13	2:CB:108:ILE:O	1.95	0.65
7:AG:86:GLN:NE2	23:AW:32:G:H21	1.93	0.65
9:CI:28:VAL:HG13	9:CI:64:THR:CA	2.26	0.65
9:CI:70:LYS:O	9:CI:74:ILE:HG13	1.95	0.65
46:BP:126:VAL:HA	46:BP:145:PRO:HG2	1.78	0.65
35:DA:2223:G:C2'	35:DA:2224:G:H5'	2.26	0.65
35:DA:2830:G:H5'	39:DE:58:ARG:NH1	2.12	0.65
17:AQ:68:ARG:N	17:AQ:70:ARG:HH12	1.95	0.65
42:BH:156:ALA:C	42:BH:158:HIS:N	2.47	0.65
1:CA:331:G:OP1	1:CA:332:G:H5'	1.96	0.65
53:BW:6:ILE:HG13	53:BW:104:THR:HG23	1.77	0.65
13:CM:49:THR:HG22	13:CM:51:ALA:H	1.62	0.65
13:AM:9:ILE:HD12	13:AM:9:ILE:N	2.12	0.65
1:AA:154:C:H2'	1:AA:155:C:H6	1.60	0.65
7:AG:14:PRO:HG3	7:AG:21:VAL:HG13	1.76	0.65
35:DA:1889:A:O2'	35:DA:2087:G:H5'	1.96	0.65
1:CA:927:G:H2'	1:CA:928:G:C8	2.31	0.65
35:BA:1210:A:H4'	35:BA:1211:U:O5'	1.95	0.65
1:AA:1048:G:H4'	14:AN:2:ALA:N	2.11	0.65
38:DD:125:ILE:N	38:DD:125:ILE:HD12	2.12	0.65
53:BW:58:ALA:HB1	53:BW:64:MET:SD	2.37	0.65
1:CA:1427:U:H2'	1:CA:1428:A:C8	2.30	0.65
57:DC:47:LEU:HA	57:DC:207:THR:HA	1.78	0.65
38:BD:80:ALA:HB3	38:BD:94:LEU:HD13	1.77	0.65
41:DG:98:ARG:O	41:DG:101:ILE:HG22	1.96	0.65
10:CJ:6:ILE:HA	10:CJ:97:GLU:O	1.96	0.65
35:BA:1999:C:H2'	35:BA:2000:G:H8	1.59	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
45:BO:102:VAL:HB	45:BO:106:LEU:CD1	2.25	0.65
45:BO:32:TYR:N	45:BO:32:TYR:CD1	2.62	0.65
28:B2:20:GLU:O	28:B2:23:LYS:N	2.29	0.65
28:B2:55:ARG:NH2	54:BX:3:THR:HG23	2.11	0.65
27:B1:77:ALA:C	27:B1:78:LYS:HD2	2.17	0.65
41:BG:57:ALA:HB1	41:BG:68:PRO:HB3	1.77	0.65
54:DX:34:ALA:O	54:DX:36:LYS:HG3	1.95	0.65
34:D8:35:GLN:HA	35:DA:2420:C:P	2.35	0.65
42:BH:145:ALA:HB1	42:BH:164:TYR:CE1	2.31	0.65
56:DZ:118:GLN:O	56:DZ:172:ALA:HA	1.97	0.65
56:DZ:18:LEU:HG	56:DZ:23:LYS:HB2	1.79	0.65
56:DZ:56:VAL:HG22	56:DZ:70:LEU:HD11	1.77	0.65
49:BS:67:ARG:O	49:BS:71:ARG:N	2.30	0.65
27:D1:46:LEU:HD13	27:D1:48:LYS:HE3	1.79	0.65
27:D1:62:VAL:HG21	27:D1:67:ILE:CA	2.23	0.65
49:DS:67:ARG:O	49:DS:71:ARG:N	2.29	0.65
44:BN:16:ILE:O	44:BN:54:VAL:HA	1.96	0.65
18:CR:50:ILE:CD1	18:CR:70:ILE:HG21	2.26	0.65
46:DP:33:ARG:O	46:DP:34:GLY:C	2.34	0.65
43:DI:129:THR:OG1	43:DI:135:GLU:HB3	1.96	0.65
1:AA:1106:G:H2'	1:AA:1107:C:C6	2.31	0.65
43:BI:37:VAL:HG13	43:BI:38:LEU:CD1	2.26	0.65
43:BI:38:LEU:H	43:BI:38:LEU:CD1	2.02	0.65
11:CK:44:SER:N	11:CK:47:VAL:CG2	2.59	0.65
42:DH:41:MET:HG3	42:DH:53:GLU:O	1.94	0.65
35:BA:2387:U:H5'	35:BA:2388:A:OP2	1.96	0.65
7:AG:84:ASN:N	7:AG:84:ASN:HD22	1.92	0.65
9:AI:47:LEU:HB3	9:AI:50:LEU:HD12	1.79	0.65
38:BD:76:PRO:HG2	38:BD:98:VAL:CG2	2.26	0.65
31:D5:20:ARG:HH12	53:DW:15:ARG:CZ	2.09	0.65
46:BP:111:ARG:HA	46:BP:128:HIS:ND1	2.11	0.65
1:CA:376:G:OP2	16:CP:67:THR:HG21	1.96	0.65
35:BA:2884:U:H2'	35:BA:2885:C:H5'	1.78	0.65
2:AB:108:ILE:HD13	2:AB:108:ILE:O	1.94	0.65
1:AA:1513:A:H2'	1:AA:1514:C:H6	1.60	0.65
17:AQ:60:ILE:HG12	17:AQ:61:GLU:O	1.97	0.65
5:AE:78:HIS:CE1	5:AE:143:ARG:H	2.13	0.65
3:CC:111:LEU:HD21	3:CC:145:GLY:O	1.96	0.65
35:BA:1697:G:H3'	35:BA:1698:A:C5'	2.26	0.65
35:DA:506:G:H4'	35:DA:509:C:O2	1.96	0.65
35:DA:977:G:O2'	35:DA:978:G:H5'	1.97	0.65
1:CA:696:A:H2'	1:CA:697:U:C6	2.31	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:CB:157:ARG:HG2	2:CB:158:LEU:H	1.59	0.65
35:DA:265:A:H1'	35:DA:266:G:O4'	1.97	0.65
7:AG:42:ILE:HA	7:AG:45:ASP:HB2	1.78	0.65
19:AS:22:LEU:HD13	19:AS:22:LEU:O	1.97	0.65
7:CG:36:LYS:HB2	7:CG:36:LYS:HZ2	1.61	0.65
35:DA:2863:C:H2'	35:DA:2864:G:H5''	1.79	0.65
45:DO:31:LYS:C	45:DO:32:TYR:CD1	2.69	0.65
50:DT:100:TYR:HD2	50:DT:103:ARG:CZ	2.10	0.65
38:BD:35:LYS:HE3	38:BD:65:ILE:N	2.09	0.65
41:DG:37:VAL:CG2	41:DG:99:MET:HG3	2.25	0.65
41:BG:57:ALA:HB1	41:BG:68:PRO:CB	2.26	0.65
56:DZ:166:SER:HB2	56:DZ:167:PRO:C	2.17	0.65
44:DN:46:VAL:HG11	44:DN:48:MET:HG3	1.79	0.65
47:DQ:50:ALA:HA	47:DQ:124:LYS:HG3	1.79	0.65
4:CD:104:VAL:HG21	4:CD:140:VAL:HG21	1.77	0.65
4:CD:201:GLN:HA	4:CD:204:ILE:HD12	1.78	0.65
40:BF:46:ARG:HG3	40:BF:48:THR:HG23	1.77	0.65
46:BP:41:ARG:N	46:BP:41:ARG:HD2	2.12	0.65
35:BA:1414:G:H2'	35:BA:1415:U:H6	1.59	0.65
6:AF:62:TRP:CZ2	6:AF:64:GLN:HB2	2.32	0.65
6:AF:73:ASN:O	6:AF:76:ALA:HB3	1.96	0.65
25:CY:130:ARG:HH21	35:DA:1942:C:H2'	1.61	0.65
11:AK:44:SER:OG	11:AK:47:VAL:HG23	1.95	0.65
40:DF:37:VAL:O	40:DF:40:GLN:HB2	1.96	0.65
43:DI:12:LEU:HD12	43:DI:19:VAL:HG11	1.78	0.65
19:AS:48:THR:HG22	19:AS:61:TYR:CA	2.26	0.65
16:AP:28:ARG:HG2	16:AP:28:ARG:HH11	1.60	0.65
5:CE:109:ILE:HG22	5:CE:110:LEU:N	2.12	0.65
35:DA:2579:C:O2'	35:DA:2580:U:H5'	1.96	0.65
39:BE:39:PRO:HA	39:BE:43:GLY:CA	2.25	0.65
38:DD:166:GLN:HE21	38:DD:166:GLN:N	1.93	0.65
35:DA:1635:G:H5'	35:DA:1635:G:C8	2.31	0.65
35:DA:1713:U:O2'	35:DA:1714:G:H5'	1.97	0.65
24:CX:14:U:H2'	24:CX:15:G:C8	2.30	0.65
53:BW:35:ILE:HG22	53:BW:36:LEU:HD23	1.77	0.65
1:AA:1242:C:H2'	1:AA:1243:C:H6	1.61	0.65
10:CJ:78:ASN:C	10:CJ:80:LYS:H	2.00	0.65
53:BW:64:MET:O	53:BW:65:LEU:HB3	1.95	0.65
8:CH:18:ARG:N	8:CH:78:GLN:NE2	2.45	0.65
35:BA:1515:G:C2'	35:BA:1516:C:H5'	2.27	0.65
35:BA:892:G:H1	35:BA:894:C:N4	1.94	0.65
23:CW:42:C:H2'	23:CW:43:G:C8	2.31	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:696:G:C2'	35:BA:697:C:H5'	2.26	0.65
45:DO:102:VAL:HB	45:DO:106:LEU:CD1	2.26	0.65
41:DG:106:LEU:C	41:DG:108:ASN:H	1.99	0.65
41:DG:144:ILE:HD12	41:DG:145:THR:H	1.60	0.65
56:DZ:166:SER:HB3	56:DZ:168:GLU:H	1.59	0.65
44:DN:10:GLU:OE2	44:DN:11:PRO:HD2	1.96	0.65
35:DA:1884:A:H2'	35:DA:1885:A:C5'	2.21	0.65
35:BA:2413:G:H21	46:BP:70:GLN:HE21	1.44	0.65
1:AA:1423:G:H5'	45:BO:49:ARG:HH21	1.61	0.65
35:BA:1280:G:H3'	35:BA:1281:G:H5''	1.78	0.65
35:DA:200:U:H2'	35:DA:201:C:H5'	1.79	0.65
4:AD:126:ILE:HG22	4:AD:127:THR:N	2.11	0.65
55:DY:16:ALA:C	55:DY:21:LYS:HD2	2.17	0.65
1:AA:585:G:H4'	12:AL:8:ASN:ND2	2.06	0.65
35:DA:582:G:H2'	35:DA:583:G:H8	1.59	0.65
46:BP:7:ARG:O	46:BP:10:PRO:HD3	1.95	0.65
20:CT:50:GLU:HG3	20:CT:51:GLU:N	2.12	0.65
35:BA:2262:U:H4'	35:BA:2328:A:C2	2.31	0.65
55:BY:37:VAL:O	55:BY:38:ILE:HB	1.95	0.65
18:AR:58:LEU:CD1	18:AR:58:LEU:H	2.06	0.65
8:CH:36:LEU:O	8:CH:39:LEU:HB3	1.95	0.65
31:B5:40:LYS:HE2	31:B5:46:CYS:N	2.11	0.65
5:CE:96:PRO:HA	5:CE:117:ASP:OD2	1.97	0.65
1:CA:32:A:H2'	1:CA:33:A:H8	1.59	0.65
44:BN:93:THR:HG23	44:BN:93:THR:O	1.97	0.65
5:AE:76:ILE:HD11	5:AE:142:LEU:HD11	1.77	0.65
35:BA:49:A:OP1	35:BA:51:G:H5'	1.97	0.65
1:CA:237:C:H4'	17:CQ:25:ARG:NH1	2.12	0.65
35:DA:971:C:H2'	35:DA:972:G:O4'	1.96	0.65
1:AA:741:G:H2'	1:AA:742:G:O4'	1.97	0.65
35:DA:1335:U:H2'	35:DA:1336:A:C8	2.31	0.65
35:BA:1221:C:H2'	35:BA:1221(A):C:H6	1.61	0.65
35:DA:1171:G:H3'	35:DA:1173:G:O4'	1.96	0.65
35:BA:1841:U:H2'	35:BA:1842:G:C8	2.32	0.65
53:BW:95:ILE:O	53:BW:95:ILE:HG13	1.96	0.65
23:CW:24:C:H2'	23:CW:25:U:C6	2.31	0.65
35:DA:2677:G:H2'	35:DA:2678:C:C6	2.30	0.65
35:DA:1824:G:O2'	35:DA:1825:A:H5'	1.95	0.65
38:DD:35:LYS:HE3	38:DD:65:ILE:N	2.10	0.65
45:BO:23:ARG:O	45:BO:39:ILE:HG13	1.97	0.65
39:DE:52:LEU:CB	39:DE:76:ARG:HB2	2.26	0.65
35:DA:2467:C:H2'	35:DA:2468:G:H5'	1.79	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:BN:66:LYS:O	44:BN:67:LEU:HD23	1.95	0.65
3:CC:11:ARG:HH11	3:CC:11:ARG:HG2	1.62	0.65
40:DF:28:ILE:HG22	40:DF:112:MET:HB3	1.79	0.65
48:DR:18:LEU:HD11	48:DR:22:ARG:CZ	2.27	0.65
2:AB:162:ILE:C	2:AB:162:ILE:HD12	2.16	0.65
2:AB:33:TYR:HD1	2:AB:43:ASP:HA	1.59	0.65
18:CR:36:ASN:ND2	18:CR:39:VAL:HB	2.11	0.65
35:DA:1213:A:H2'	35:DA:1214:A:H8	1.62	0.65
1:AA:403:C:H2'	1:AA:404:U:C6	2.32	0.65
4:AD:120:LEU:HB3	4:AD:125:HIS:HB2	1.76	0.65
18:AR:35:ARG:C	18:AR:37:VAL:H	1.98	0.65
1:CA:1404:C:H2'	1:CA:1405:G:C8	2.32	0.65
35:DA:2036:C:H6	35:DA:2036:C:C5'	2.05	0.65
7:AG:101:LEU:O	7:AG:105:VAL:HG23	1.96	0.65
25:CY:21:LEU:HD11	25:CY:121:TYR:O	1.96	0.65
35:BA:1213:A:H2'	35:BA:1214:A:H8	1.61	0.65
25:AY:86:SER:OG	25:AY:88:LEU:HD13	1.96	0.65
35:DA:933:A:H2'	35:DA:934:G:O4'	1.96	0.65
35:BA:104:U:H2'	35:BA:105:C:O4'	1.96	0.65
13:AM:116:THR:HG22	13:AM:117:VAL:N	2.11	0.65
35:DA:611:C:O2'	35:DA:612:C:H5'	1.96	0.65
20:AT:89:ARG:HB2	20:AT:104:LEU:HD11	1.78	0.65
5:AE:126:ARG:C	5:AE:131:ILE:HD11	2.17	0.65
9:CI:113:LYS:HB2	9:CI:116:LYS:HG3	1.78	0.65
35:DA:2119:A:H3'	35:DA:2120:G:C5'	2.27	0.65
42:BH:73:ALA:O	42:BH:76:VAL:HB	1.97	0.65
33:D7:25:PRO:HA	33:D7:28:ARG:NH2	2.12	0.65
19:AS:53:ASN:ND2	19:AS:55:LYS:H	1.93	0.65
35:BA:2830:G:H5'	39:BE:58:ARG:HH22	1.62	0.65
35:DA:323:G:H2'	40:DF:169:ASN:ND2	2.10	0.65
32:B6:16:CYS:SG	32:B6:47:THR:HG21	2.35	0.65
1:AA:471:G:H2'	1:AA:472:A:C8	2.32	0.65
53:BW:75:TYR:N	53:BW:75:TYR:CD1	2.63	0.65
1:AA:340:U:H2'	1:AA:341:C:H6	1.61	0.65
10:AJ:78:ASN:C	10:AJ:80:LYS:H	1.99	0.65
7:CG:14:PRO:HG3	7:CG:21:VAL:HG13	1.78	0.65
1:AA:927:G:H2'	1:AA:928:G:C8	2.32	0.65
7:AG:11:GLN:HE21	7:AG:12:LEU:H	1.45	0.65
1:AA:1310:G:O2'	1:AA:1311:G:H5'	1.97	0.65
1:CA:54:C:H41	1:CA:352:C:H2'	1.61	0.65
2:CB:132:LYS:O	2:CB:135:GLN:HB2	1.97	0.65
45:DO:104:ARG:CZ	45:DO:104:ARG:HB3	2.27	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
45:DO:31:LYS:HD2	45:DO:32:TYR:HE1	1.61	0.65
38:BD:94:LEU:O	38:BD:94:LEU:HD13	1.96	0.65
35:DA:783:A:H2'	35:DA:784:A:H4'	1.77	0.65
34:B8:42:ARG:O	34:B8:44:LYS:N	2.29	0.65
35:BA:2415:G:H4'	46:BP:66:GLY:HA3	1.78	0.65
35:BA:2866:U:C5	35:BA:2868:A:H1'	2.31	0.65
35:BA:999:U:H2'	35:BA:999:U:O2	1.97	0.65
42:DH:89:ILE:CD1	42:DH:89:ILE:N	2.59	0.65
52:DV:19:LYS:HE2	52:DV:19:LYS:HA	1.79	0.65
35:DA:1018:C:O2'	35:DA:1019:U:H5'	1.96	0.65
48:DR:82:GLU:C	48:DR:85:PRO:HD2	2.16	0.65
1:AA:320:C:H2'	1:AA:321:A:C8	2.31	0.65
2:AB:157:ARG:HG2	2:AB:158:LEU:H	1.61	0.65
18:CR:35:ARG:C	18:CR:37:VAL:H	1.98	0.65
25:CY:133:ARG:HG3	25:CY:161:ILE:HG22	1.77	0.65
12:CL:27:LEU:O	12:CL:29:GLY:N	2.30	0.65
33:B7:30:VAL:HG13	33:B7:33:ARG:HH22	1.60	0.65
11:CK:103:LEU:N	11:CK:103:LEU:HD22	2.06	0.65
35:DA:975(A):G:OP1	52:DV:79:VAL:HG13	1.96	0.65
31:B5:46:CYS:SG	31:B5:47:PRO:HD2	2.37	0.65
56:DZ:109:ALA:HB3	56:DZ:145:GLU:OE1	1.97	0.65
1:AA:1166:G:N2	1:AA:1169:A:H3'	2.12	0.65
1:CA:376:G:H5''	16:CP:5:ARG:HD2	1.79	0.65
1:CA:1116:C:C3'	1:CA:1117:G:H5''	2.27	0.65
26:D0:77:ARG:NH2	35:DA:857:C:H5'	2.11	0.65
53:DW:6:ILE:HG13	53:DW:104:THR:HG23	1.77	0.65
35:BA:970:C:H2'	35:BA:971:C:H6	1.61	0.65
15:AO:17:ARG:HH11	15:AO:17:ARG:HG3	1.61	0.65
15:AO:56:LEU:O	15:AO:60:VAL:HG23	1.97	0.65
35:BA:285:C:C2'	35:BA:286:C:H5''	2.27	0.65
9:AI:48:GLU:N	9:AI:49:PRO:HD2	2.12	0.65
17:CQ:9:VAL:HG12	17:CQ:10:VAL:H	1.62	0.65
35:BA:2861:G:O2'	35:BA:2862:G:H5'	1.97	0.65
1:CA:748:C:H1'	1:CA:749:C:OP2	1.95	0.65
1:AA:783:C:O2'	1:AA:784:C:H5'	1.96	0.65
35:DA:2074:U:H2'	35:DA:2075:U:C6	2.32	0.65
1:CA:924:C:H2'	1:CA:925:G:C8	2.32	0.65
38:DD:268:ARG:HB2	38:DD:268:ARG:HH11	1.62	0.65
35:BA:2863:C:H2'	35:BA:2864:G:H5''	1.79	0.65
50:BT:22:PHE:HD2	50:BT:22:PHE:H	1.44	0.65
42:DH:116:GLU:HG2	42:DH:117:PRO:HD2	1.77	0.65
54:BX:77:LYS:HE3	54:BX:78:LYS:N	2.12	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
28:D2:26:ARG:HD3	54:DX:5:TYR:HD1	1.61	0.65
28:D2:49:LYS:HE2	35:DA:76:C:OP1	1.97	0.65
54:DX:59:VAL:C	54:DX:73:ARG:HA	2.18	0.65
54:DX:77:LYS:HE2	54:DX:78:LYS:HG3	1.77	0.65
3:AC:164:ARG:HB2	3:AC:164:ARG:NH1	2.07	0.65
14:AN:4:LYS:O	14:AN:7:ILE:HG12	1.97	0.65
4:CD:200:GLU:O	4:CD:204:ILE:HG13	1.96	0.65
4:CD:96:LEU:N	4:CD:96:LEU:HD22	2.05	0.65
35:BA:225:A:O2'	35:BA:226:G:H5'	1.96	0.65
35:DA:393:C:H2'	35:DA:394:A:H8	1.61	0.65
34:D8:43:GLN:C	34:D8:44:LYS:HD2	2.16	0.65
3:CC:6:HIS:NE2	3:CC:8:ILE:HB	2.11	0.65
40:DF:2:LYS:O	40:DF:25:PRO:HD2	1.97	0.65
35:BA:1587:A:H2'	35:BA:1588:C:O4'	1.97	0.65
44:DN:56:ASN:CA	44:DN:124:ALA:HA	2.27	0.65
55:DY:28:LYS:HD2	55:DY:37:VAL:CG1	2.26	0.65
4:AD:13:ARG:HG2	4:AD:14:ARG:N	2.12	0.65
20:CT:89:ARG:HB2	20:CT:104:LEU:HD11	1.79	0.65
25:AY:174:GLN:O	25:AY:177:GLU:HB3	1.97	0.65
19:AS:62:ILE:HD12	19:AS:66:MET:HG3	1.79	0.65
55:BY:31:LEU:HD23	55:BY:36:ALA:HB3	1.77	0.65
1:AA:192:U:C4'	20:AT:103:GLY:HA2	2.26	0.65
20:AT:63:ILE:HD12	20:AT:81:LYS:HG2	1.79	0.65
43:DI:5:LEU:N	43:DI:5:LEU:HD23	2.12	0.65
9:AI:7:THR:HB	9:AI:83:ARG:NH1	2.12	0.65
8:CH:22:GLU:O	8:CH:63:LEU:HD23	1.96	0.65
31:B5:49:CYS:O	31:B5:56:LYS:HB2	1.97	0.65
8:CH:82:HIS:CD2	8:CH:138:TRP:HE1	2.09	0.65
44:DN:93:THR:O	44:DN:93:THR:HG23	1.97	0.65
8:AH:82:HIS:CD2	8:AH:138:TRP:HE1	2.09	0.65
1:AA:254:G:OP1	17:AQ:67:LYS:O	2.15	0.65
26:D0:26:TYR:CE2	35:DA:857:C:H1'	2.32	0.65
1:AA:112:G:H4'	1:AA:389:A:H5''	1.78	0.65
19:CS:48:THR:HG22	19:CS:61:TYR:CA	2.26	0.65
15:AO:30:ALA:O	15:AO:33:THR:HB	1.97	0.65
35:BA:1366:A:H2'	35:BA:1367:A:H8	1.62	0.65
23:CW:35:C:H2'	23:CW:36:A:O4'	1.96	0.65
35:BA:1406:U:H3'	35:BA:1407:C:H6	1.62	0.65
44:BN:3:THR:HG22	44:BN:5:VAL:CG2	2.25	0.65
35:DA:1854:A:H3'	35:DA:1855:G:H8	1.61	0.65
35:BA:2111:C:O2'	35:BA:2118:U:H4'	1.97	0.65
12:CL:34:ARG:HB3	12:CL:61:THR:HG21	1.77	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1681:G:OP2	35:BA:1681:G:H8	1.80	0.65
11:CK:86:GLY:H	11:CK:112:THR:HG23	1.61	0.65
35:DA:2410:G:C2	35:DA:2411:A:H1'	2.31	0.65
25:AY:42:LYS:HB3	25:AY:49:HIS:HB3	1.79	0.65
35:DA:2506:U:H4'	35:DA:2507:C:OP1	1.95	0.65
38:BD:92:ILE:HA	38:BD:107:ALA:H	1.60	0.65
56:BZ:10:ARG:HG2	56:BZ:11:GLU:H	1.60	0.65
56:BZ:29:TYR:CE2	56:BZ:87:ASP:HB2	2.31	0.65
56:BZ:71:VAL:HG22	56:BZ:88:PHE:CE2	2.32	0.65
35:DA:2051:A:H4'	39:DE:141:ILE:HD11	1.79	0.65
39:BE:4:ILE:CG1	39:BE:28:ALA:HB1	2.27	0.65
27:B1:51:VAL:HG23	27:B1:62:VAL:CG1	2.26	0.65
41:BG:15:VAL:O	41:BG:19:LEU:HG	1.97	0.65
47:DQ:64:ILE:HG23	47:DQ:106:VAL:HG13	1.77	0.65
3:CC:53:ALA:O	3:CC:54:ARG:HB2	1.94	0.65
47:BQ:34:LEU:HD12	47:BQ:35:VAL:N	2.11	0.65
46:BP:17:LYS:O	46:BP:19:VAL:N	2.29	0.65
1:AA:104:G:O2'	1:AA:105:G:H5'	1.97	0.65
49:DS:24:LEU:HB2	49:DS:85:VAL:HB	1.79	0.65
49:DS:25:ARG:HH21	49:DS:89:ARG:NH1	1.93	0.65
35:DA:993:G:H5'	52:DV:75:PHE:CZ	2.32	0.65
25:CY:169:ILE:O	25:CY:170:ALA:C	2.35	0.65
21:AU:8:THR:O	21:AU:12:LYS:HB2	1.97	0.65
1:CA:1456:G:C2'	1:CA:1457:G:H5'	2.26	0.65
25:AY:148:HIS:O	25:AY:149:LEU:HD23	1.95	0.65
31:B5:17:ASP:O	31:B5:20:ARG:HB2	1.96	0.65
51:DU:3:ARG:HH11	51:DU:3:ARG:CG	2.08	0.65
1:CA:253:U:H2'	1:CA:254:G:C8	2.32	0.65
35:DA:1937:A:C2'	35:DA:1938:A:H5'	2.26	0.65
13:AM:65:LYS:C	13:AM:66:LEU:N	2.50	0.65
35:BA:967:C:O2'	35:BA:968:G:H5'	1.97	0.65
29:D3:15:TYR:HB3	29:D3:19:GLN:NE2	2.12	0.65
15:AO:28:GLN:O	15:AO:32:LEU:HG	1.97	0.65
35:DA:554:U:O2'	35:DA:555:U:H5'	1.96	0.65
35:BA:2292:C:O2'	35:BA:2293:C:H5'	1.95	0.65
2:AB:31:TYR:N	2:AB:31:TYR:CD2	2.60	0.65
25:AY:43:VAL:HG13	25:AY:82:ALA:HB3	1.78	0.65
1:CA:154:C:H2'	1:CA:155:C:H6	1.60	0.65
4:CD:192:GLU:H	4:CD:192:GLU:CD	2.01	0.65
56:DZ:132:ASN:O	56:DZ:134:PRO:HD3	1.96	0.65
4:AD:191:ARG:HH12	4:AD:195:ALA:HA	1.61	0.65
7:CG:40:ALA:HA	7:CG:43:PHE:HB3	1.79	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1030(A):G:H1'	1:CA:1031:G:H1	1.62	0.65
35:BA:1742:G:N7	35:BA:1743:C:N3	2.44	0.65
38:DD:68:LYS:O	38:DD:68:LYS:HG3	1.96	0.65
35:DA:816:C:O2'	35:DA:817:C:H5'	1.97	0.65
35:BA:1765:C:H2'	35:BA:1766:U:C6	2.31	0.65
39:DE:2:LYS:HE2	39:DE:95:ILE:HG22	1.79	0.65
12:AL:34:ARG:HB3	12:AL:61:THR:HG21	1.79	0.65
1:AA:884:U:H4'	1:AA:885:G:H5''	1.79	0.65
35:BA:1568:G:H5''	38:BD:61:LEU:HB2	1.79	0.65
35:BA:1819:A:H1'	35:BA:1821:A:C6	2.32	0.65
35:BA:997:G:O2'	35:BA:998:C:H5'	1.97	0.65
54:BX:33:LYS:C	54:BX:35:THR:N	2.46	0.65
41:BG:11:TYR:O	41:BG:15:VAL:HB	1.97	0.65
41:BG:36:LYS:CE	41:BG:160:VAL:HG21	2.26	0.65
42:BH:145:ALA:HB1	42:BH:164:TYR:HE1	1.62	0.65
56:DZ:53:ILE:HG13	56:DZ:53:ILE:O	1.95	0.65
51:DU:92:ARG:C	51:DU:94:ASN:H	1.99	0.65
1:AA:1203:C:H2'	1:AA:1204:A:H8	1.62	0.65
3:CC:182:ILE:HG23	3:CC:203:PHE:HA	1.78	0.65
35:BA:2051:A:H5'	35:BA:2578:G:O4'	1.96	0.65
3:CC:16:ARG:HH11	3:CC:16:ARG:HA	1.60	0.65
49:DS:13:ARG:H	49:DS:13:ARG:CD	1.99	0.65
4:AD:65:ARG:HH11	4:AD:72:GLU:N	1.95	0.65
35:DA:909:A:H1'	47:DQ:10:ARG:NH2	2.12	0.65
12:AL:85:ILE:HD12	12:AL:99:HIS:O	1.96	0.65
9:AI:77:ILE:O	9:AI:81:ILE:HG12	1.96	0.65
8:CH:12:ARG:NH1	8:CH:26:VAL:HA	2.12	0.65
31:D5:49:CYS:HB2	31:D5:59:GLU:OE1	1.96	0.65
31:D5:44:THR:HG21	48:DR:101:ALA:CB	2.23	0.65
35:DA:2206:G:C2	35:DA:2207:G:H5'	2.31	0.65
35:DA:2884:U:H2'	35:DA:2885:C:H5'	1.78	0.65
36:DB:20:C:C2'	36:DB:21:G:H5''	2.26	0.65
35:BA:2795:G:H2'	35:BA:2795:G:N3	2.10	0.65
1:AA:1118:C:OP1	9:AI:9:ARG:HD3	1.97	0.65
2:AB:137:ARG:HG2	2:AB:137:ARG:HH11	1.61	0.65
35:BA:2487:G:H2'	35:BA:2488:A:C8	2.31	0.65
43:BI:51:ILE:HG22	43:BI:52:ARG:N	2.12	0.65
35:DA:2290:G:H8	35:DA:2290:G:H5'	1.61	0.65
4:AD:192:GLU:CD	4:AD:192:GLU:H	2.01	0.65
26:B0:2:ALA:O	35:BA:2494:G:H5'	1.97	0.65
40:DF:60:SER:OG	40:DF:61:GLY:N	2.28	0.65
26:B0:72:ARG:HD3	26:B0:75:LEU:HD13	1.77	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:882:G:H22	35:BA:895:U:H3	1.43	0.65
35:DA:1681:G:OP2	35:DA:1681:G:H8	1.80	0.65
45:DO:43:VAL:HG21	45:DO:52:VAL:HG12	1.78	0.64
41:DG:114:ILE:HG21	41:DG:117:PHE:CB	2.17	0.64
41:DG:132:ASN:ND2	41:DG:133:LEU:N	2.45	0.64
41:DG:60:LEU:O	41:DG:64:THR:HG22	1.97	0.64
41:DG:73:ALA:H	41:DG:87:PRO:HD2	1.62	0.64
41:DG:92:VAL:HG22	41:DG:93:THR:H	1.61	0.64
45:BO:69:ILE:CD1	45:BO:77:ILE:HG23	2.27	0.64
35:DA:2631:G:N2	39:DE:61:ARG:NH1	2.45	0.64
42:BH:89:ILE:CD1	42:BH:90:LYS:H	2.10	0.64
51:DU:59:ARG:O	51:DU:61:TRP:N	2.30	0.64
52:DV:39:LEU:HD21	52:DV:53:GLU:HA	1.79	0.64
40:DF:96:ASP:OD1	40:DF:98:SER:HB3	1.97	0.64
1:CA:734:G:O2'	1:CA:735:C:H5'	1.97	0.64
18:CR:44:LEU:O	18:CR:45:SER:HB3	1.96	0.64
3:AC:16:ARG:HA	3:AC:16:ARG:HH11	1.62	0.64
25:CY:123:GLU:O	25:CY:126:ARG:N	2.30	0.64
25:CY:32:ARG:HB3	25:CY:103:ILE:HD13	1.80	0.64
35:BA:1353:A:H4'	38:BD:38:LYS:NZ	2.12	0.64
40:DF:134:GLY:H	40:DF:162:LEU:HD11	1.61	0.64
12:AL:37:CYS:SG	12:AL:81:SER:HB2	2.36	0.64
11:AK:44:SER:N	11:AK:47:VAL:CG2	2.61	0.64
23:AW:39:A:H2'	23:AW:40:C:H5'	1.79	0.64
4:CD:145:GLU:HG2	4:CD:184:LYS:CG	2.25	0.64
42:BH:44:VAL:HG12	42:BH:45:VAL:N	2.12	0.64
25:CY:70:SER:CB	25:CY:76:LEU:HB2	2.27	0.64
8:CH:10:LEU:HD23	8:CH:10:LEU:H	1.62	0.64
18:CR:53:ARG:NH2	18:CR:60:ALA:N	2.44	0.64
35:BA:2591:C:H2'	35:BA:2592:G:H8	1.58	0.64
1:AA:586:C:O2'	1:AA:587:G:H5'	1.97	0.64
29:D3:4:LEU:HD23	29:D3:5:LYS:N	2.13	0.64
47:DQ:82:ARG:HG2	47:DQ:82:ARG:HH11	1.61	0.64
35:DA:322:A:P	40:DF:169:ASN:HB2	2.37	0.64
35:DA:2014:A:H4'	53:DW:94:ASP:OD1	1.97	0.64
35:BA:678:C:H2'	35:BA:679:C:C6	2.28	0.64
27:D1:42:GLN:HG2	27:D1:43:TYR:H	1.61	0.64
35:DA:2186:G:C3'	35:DA:2187:G:H5''	2.27	0.64
41:DG:4:ASP:HB3	41:DG:8:LYS:CE	2.27	0.64
27:B1:20:ARG:NH1	27:B1:41:ARG:NE	2.45	0.64
35:DA:2075:U:H2'	35:DA:2238:G:N2	2.12	0.64
20:AT:31:SER:O	20:AT:34:LYS:HB2	1.97	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
45:DO:47:ILE:HG23	45:DO:48:PRO:HD2	1.78	0.64
1:CA:580:U:H2'	1:CA:581:G:O4'	1.97	0.64
1:AA:1030:C:H2'	1:AA:1030(A):G:H5'	1.77	0.64
6:CF:5:GLU:HG3	6:CF:93:SER:OG	1.96	0.64
1:CA:884:U:H4'	1:CA:885:G:H5''	1.78	0.64
18:CR:19:LYS:O	18:CR:20:ALA:HB2	1.97	0.64
52:BV:52:VAL:C	52:BV:54:GLY:H	1.99	0.64
1:AA:642:A:N3	8:AH:113:SER:OG	2.24	0.64
38:DD:109:ASP:HB3	38:DD:195:ALA:HB3	1.79	0.64
35:DA:2680:C:H2'	35:DA:2681:C:O2	1.97	0.64
35:DA:2723:C:O2'	35:DA:2724:C:H5'	1.97	0.64
50:DT:109:GLU:HA	50:DT:112:ARG:HG3	1.78	0.64
35:DA:2304:G:H4'	41:DG:133:LEU:HB3	1.78	0.64
45:BO:36:GLY:H	45:BO:62:VAL:HB	1.59	0.64
50:BT:27:THR:C	50:BT:88:ILE:HD13	2.17	0.64
50:BT:28:VAL:HG11	50:BT:46:GLU:HA	1.78	0.64
44:BN:42:TRP:CE2	44:BN:44:PRO:HD3	2.32	0.64
35:BA:93:G:H2'	35:BA:94:C:H6	1.62	0.64
35:DA:1879:C:C3'	35:DA:1880:C:H5''	2.27	0.64
35:DA:1159:U:H2'	35:DA:1160:G:H5'	1.78	0.64
35:DA:528:A:C2	35:DA:2042:A:H2'	2.32	0.64
40:BF:114:VAL:HG11	40:BF:202:PHE:HE2	1.61	0.64
39:BE:133:LYS:C	39:BE:134:ILE:HD13	2.17	0.64
34:B8:50:LEU:C	34:B8:53:PRO:HD2	2.17	0.64
34:B8:22:VAL:HG21	34:B8:56:GLU:HB2	1.80	0.64
40:DF:5:ALA:O	40:DF:6:VAL:HG13	1.97	0.64
3:AC:110:ASN:O	3:AC:141:VAL:HG13	1.96	0.64
3:AC:182:ILE:HG23	3:AC:202:ILE:C	2.17	0.64
48:BR:18:LEU:HD11	48:BR:22:ARG:NH2	2.12	0.64
48:BR:97:VAL:HG22	48:BR:114:VAL:HG22	1.80	0.64
50:BT:107:ASP:OD1	50:BT:109:GLU:HB2	1.97	0.64
2:AB:165:VAL:CG2	2:AB:166:ASP:H	1.99	0.64
56:BZ:117:LEU:HA	56:BZ:173:ALA:O	1.96	0.64
2:CB:185:ILE:CG2	2:CB:199:TYR:HB2	2.26	0.64
34:D8:50:LEU:C	34:D8:53:PRO:HD2	2.18	0.64
40:DF:88:VAL:HG22	40:DF:89:VAL:N	2.12	0.64
25:CY:171:LYS:HD2	25:CY:175:LEU:HD13	1.77	0.64
35:BA:690:G:H2'	35:BA:691:C:C6	2.32	0.64
55:BY:31:LEU:CB	55:BY:36:ALA:H	2.10	0.64
9:CI:105:ASP:HB3	9:CI:107:ARG:HG3	1.79	0.64
54:BX:65:ARG:NH2	54:BX:66:LEU:H	1.95	0.64
9:AI:111:ARG:HG2	9:AI:112:LYS:N	2.12	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:CI:95:LYS:HZ3	9:CI:96:LEU:HB2	1.62	0.64
38:BD:117:VAL:HG22	38:BD:118:VAL:H	1.61	0.64
35:DA:2013:A:H4'	53:DW:96:ILE:HD12	1.77	0.64
38:DD:142:VAL:HA	38:DD:194:GLY:H	1.62	0.64
35:BA:2673:G:H2'	35:BA:2674:G:H8	1.62	0.64
38:DD:76:PRO:HG2	38:DD:98:VAL:CG2	2.27	0.64
35:DA:2222:G:O2'	35:DA:2223:G:H5'	1.97	0.64
7:AG:113:GLU:CB	7:AG:119:ARG:HG2	2.28	0.64
32:D6:16:CYS:SG	32:D6:47:THR:HG21	2.37	0.64
26:B0:40:GLN:HE21	26:B0:43:THR:HA	1.62	0.64
35:DA:1353:A:H4'	38:DD:38:LYS:NZ	2.13	0.64
35:DA:2009:G:H1'	48:DR:107:ASP:O	1.98	0.64
1:AA:556:C:O2'	1:AA:557:G:H5'	1.97	0.64
6:AF:5:GLU:HG3	6:AF:93:SER:OG	1.97	0.64
53:DW:1:MET:HG3	53:DW:2:GLU:H	1.62	0.64
35:BA:2404:C:H2'	35:BA:2405:G:O4'	1.98	0.64
1:CA:1381:U:H2'	1:CA:1382:C:H5'	1.79	0.64
35:DA:2111:C:O2'	35:DA:2118:U:H4'	1.97	0.64
1:CA:1310:G:O2'	1:CA:1311:G:H5'	1.96	0.64
25:AY:108:GLU:HA	25:AY:111:ARG:CG	2.28	0.64
40:DF:22:ALA:O	40:DF:26:ALA:HB2	1.96	0.64
43:BI:92:VAL:O	43:BI:92:VAL:HG22	1.96	0.64
38:BD:177:LEU:HD12	38:BD:181:GLU:CG	2.27	0.64
35:DA:1795:C:H42	35:DA:1824:G:H1	1.45	0.64
35:BA:142(A):C:H2'	35:BA:143:G:O4'	1.98	0.64
27:B1:68:PRO:HG2	27:B1:69:LYS:N	2.09	0.64
54:DX:82:GLN:CG	54:DX:83:VAL:H	2.10	0.64
42:BH:102:ALA:HB2	42:BH:117:PRO:CD	2.19	0.64
3:CC:182:ILE:HG23	3:CC:202:ILE:C	2.17	0.64
49:BS:54:LEU:HD21	49:BS:59:LYS:O	1.98	0.64
40:BF:202:PHE:HE1	40:BF:206:ILE:HD13	1.63	0.64
3:CC:16:ARG:HH11	3:CC:16:ARG:CB	2.10	0.64
1:AA:1422:G:H2'	1:AA:1423:G:H8	1.62	0.64
1:AA:59:A:H5''	1:AA:60:A:H5''	1.78	0.64
49:DS:38:GLN:C	49:DS:39:ILE:HD12	2.18	0.64
27:D1:34:THR:HG21	35:DA:387:U:O3'	1.97	0.64
56:BZ:149:SER:OG	56:BZ:173:ALA:HB2	1.98	0.64
6:CF:30:LEU:HD23	6:CF:75:LEU:HD21	1.79	0.64
51:DU:47:TYR:HA	51:DU:50:ARG:CZ	2.28	0.64
19:AS:36:ARG:HH12	19:AS:75:ALA:HB3	1.63	0.64
1:AA:880:C:O2'	1:AA:881:G:H5'	1.96	0.64
16:AP:6:LEU:CD1	16:AP:6:LEU:N	2.60	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
20:CT:36:LEU:H	20:CT:36:LEU:CD2	2.11	0.64
17:CQ:29:HIS:HB3	17:CQ:33:GLY:N	2.11	0.64
12:AL:25:PRO:HD2	12:AL:98:TYR:OH	1.96	0.64
33:B7:25:PRO:HG2	33:B7:26:GLY:H	1.61	0.64
1:CA:639:G:O2'	1:CA:640:A:H5'	1.98	0.64
9:CI:113:LYS:HD2	9:CI:113:LYS:N	2.13	0.64
1:CA:1166:G:N2	1:CA:1169:A:H3'	2.11	0.64
35:DA:1605:C:H5'	35:DA:1610:A:N6	2.13	0.64
16:CP:6:LEU:HB3	16:CP:17:TYR:CD2	2.33	0.64
26:D0:25:ARG:HB2	26:D0:37:LEU:HD23	1.78	0.64
1:AA:312:C:H2'	1:AA:313:A:H8	1.62	0.64
35:DA:1614:A:N6	53:DW:93:ALA:CB	2.60	0.64
35:BA:230:U:H2'	35:BA:230:U:O2	1.96	0.64
1:CA:174:C:O2'	1:CA:175:C:H5'	1.97	0.64
40:BF:141:ALA:O	40:BF:144:LYS:HB3	1.98	0.64
35:BA:519:U:H5''	53:BW:25:ARG:NH2	2.13	0.64
42:DH:31:GLY:O	42:DH:79:VAL:HG11	1.97	0.64
50:BT:42:ILE:O	50:BT:42:ILE:HG13	1.97	0.64
43:BI:28:ASN:O	43:BI:32:PRO:HG2	1.98	0.64
35:BA:2106:G:H2'	35:BA:2107:C:O4'	1.97	0.64
35:DA:2312:U:C2'	35:DA:2313:C:H5''	2.28	0.64
35:BA:2854:G:H2'	35:BA:2855:C:H6	1.63	0.64
50:BT:52:ILE:HG22	50:BT:61:PHE:CB	2.27	0.64
56:BZ:128:VAL:HG22	56:BZ:132:ASN:HB2	1.78	0.64
39:DE:141:ILE:N	39:DE:141:ILE:HD13	2.12	0.64
35:BA:2631:G:N2	39:BE:61:ARG:NH1	2.44	0.64
39:DE:1:MET:HG2	39:DE:83:ASP:O	1.97	0.64
41:BG:36:LYS:HE2	41:BG:160:VAL:HG21	1.79	0.64
52:DV:61:VAL:HG12	52:DV:62:LEU:H	1.62	0.64
3:AC:134:ILE:HD11	3:AC:153:VAL:HG21	1.78	0.64
4:CD:127:THR:HG22	4:CD:149:ALA:H	1.62	0.64
3:CC:138:VAL:HG22	3:CC:151:VAL:HG23	1.78	0.64
35:BA:661:C:H2'	35:BA:662:G:C8	2.32	0.64
35:DA:2415:G:H4'	46:DP:66:GLY:HA3	1.79	0.64
48:BR:2:ARG:CZ	48:BR:5:LYS:HE3	2.27	0.64
44:BN:17:ASP:O	44:BN:19:GLU:N	2.30	0.64
47:DQ:43:THR:HG1	47:DQ:45:GLN:HB2	1.63	0.64
13:CM:91:ARG:HH11	19:CS:81:ARG:NH2	1.88	0.64
1:AA:1218:C:H2'	1:AA:1219:U:C6	2.32	0.64
25:AY:139:LYS:O	25:AY:143:LEU:HB2	1.98	0.64
35:BA:2250:G:C5	47:BQ:82:ARG:HD2	2.32	0.64
8:AH:97:VAL:HG13	8:AH:98:LYS:HG3	1.79	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
45:BO:120:GLU:HG3	45:BO:122:LEU:HD11	1.80	0.64
1:CA:1342:C:H1'	9:CI:124:GLN:NE2	2.12	0.64
46:DP:101:VAL:CG2	46:DP:107:LYS:HA	2.24	0.64
5:CE:144:THR:O	5:CE:147:ASP:OD2	2.15	0.64
46:BP:124:LYS:HA	46:BP:143:GLY:N	2.12	0.64
2:AB:105:PHE:O	2:AB:108:ILE:N	2.31	0.64
7:AG:135:VAL:O	7:AG:138:LYS:HB3	1.96	0.64
48:BR:60:LEU:HD23	48:BR:61:HIS:N	2.11	0.64
1:AA:834:C:H2'	1:AA:835:U:C6	2.33	0.64
46:DP:95:VAL:HG23	46:DP:125:VAL:HB	1.80	0.64
32:D6:32:ASN:ND2	32:D6:33:LYS:H	1.96	0.64
35:BA:759:G:H2'	35:BA:760:G:C8	2.31	0.64
35:BA:1298:C:H2'	35:BA:1299:G:C8	2.31	0.64
36:BB:91:C:H2'	36:BB:92:C:C6	2.32	0.64
1:CA:1090:U:H2'	1:CA:1091:U:H6	1.62	0.64
52:BV:1:MET:HE3	52:BV:45:THR:H	1.63	0.64
1:CA:1242:C:H2'	1:CA:1243:C:H6	1.61	0.64
35:DA:1220:A:O2'	35:DA:1221:C:H5''	1.98	0.64
35:DA:608:A:OP1	40:DF:100:THR:HG21	1.96	0.64
35:DA:1440:G:H2'	35:DA:1441:G:C8	2.32	0.64
50:BT:3:ARG:HB3	50:BT:6:LEU:HB3	1.79	0.64
1:AA:233:C:H2'	1:AA:234:C:H6	1.62	0.64
40:DF:205:ARG:HG2	40:DF:205:ARG:O	1.96	0.64
1:AA:1163:C:H2'	1:AA:1164:G:H8	1.61	0.64
1:CA:786:G:H1	1:CA:796:C:H42	1.45	0.64
10:CJ:5:ARG:O	10:CJ:98:ILE:HA	1.96	0.64
39:DE:64:LYS:C	39:DE:66:HIS:H	2.00	0.64
35:DA:1879:C:H2'	35:DA:1880:C:C5'	2.19	0.64
1:CA:403:C:H2'	1:CA:404:U:C6	2.32	0.64
4:CD:59:ARG:HA	4:CD:59:ARG:NH1	2.12	0.64
43:DI:91:SER:H	43:DI:121:LYS:CE	2.10	0.64
1:CA:1057:G:O2'	1:CA:1058:G:H5'	1.97	0.64
3:AC:9:GLY:HA3	14:AN:49:HIS:HA	1.79	0.64
35:BA:2028:U:H2'	35:BA:2029:G:C8	2.32	0.64
1:AA:333:G:H4'	20:AT:16:HIS:CE1	2.32	0.64
36:DB:115:G:O4'	49:DS:47:THR:HB	1.98	0.64
49:DS:54:LEU:HD13	49:DS:58:LEU:O	1.97	0.64
2:AB:178:ARG:HB2	2:AB:178:ARG:HH11	1.62	0.64
1:AA:426:G:H4'	4:AD:41:GLY:O	1.98	0.64
4:AD:17:VAL:HG12	4:AD:18:LYS:N	2.11	0.64
4:AD:18:LYS:NZ	4:AD:31:CYS:SG	2.66	0.64
35:BA:2469:A:H2	35:BA:2481:G:H21	1.46	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1507:A:C2	1:CA:1530:G:H1'	2.33	0.64
25:AY:29:ARG:NH2	25:AY:32:ARG:HH22	1.94	0.64
17:AQ:95:TYR:C	17:AQ:97:SER:H	2.01	0.64
13:AM:49:THR:HG22	13:AM:51:ALA:H	1.62	0.64
35:BA:1602:U:H3'	35:BA:1603:A:H5''	1.80	0.64
1:AA:186:C:H4'	20:AT:82:SER:HB3	1.79	0.64
1:AA:337:C:H2'	1:AA:338:A:C8	2.33	0.64
20:CT:57:ARG:HH11	20:CT:57:ARG:HB2	1.63	0.64
10:CJ:32:ALA:HB1	10:CJ:75:ILE:CG1	2.28	0.64
1:AA:1045:C:H2'	1:AA:1046:A:O4'	1.97	0.64
35:DA:816:C:H2'	35:DA:817:C:H6	1.62	0.64
35:DA:1841:U:H2'	35:DA:1842:G:C8	2.32	0.64
45:BO:17:ARG:O	45:BO:18:LYS:HG3	1.97	0.64
40:BF:205:ARG:O	40:BF:205:ARG:HG2	1.96	0.64
7:CG:11:GLN:NE2	7:CG:12:LEU:H	1.95	0.64
35:BA:1171:G:H3'	35:BA:1173:G:O4'	1.96	0.64
50:DT:52:ILE:HG22	50:DT:61:PHE:CB	2.27	0.64
38:BD:35:LYS:HE2	38:BD:104:TYR:CB	2.27	0.64
38:BD:36:PRO:CG	38:BD:61:LEU:HD21	2.28	0.64
16:AP:22:THR:HG22	16:AP:32:TYR:HA	1.78	0.64
51:BU:61:TRP:HB3	51:BU:93:LYS:O	1.97	0.64
42:DH:86:GLU:H	42:DH:86:GLU:CD	2.00	0.64
44:DN:1:MET:HG2	44:DN:2:LYS:N	2.12	0.64
27:D1:76:ARG:HD3	27:D1:78:LYS:HZ3	1.62	0.64
35:BA:510:C:H2'	35:BA:511:U:O4'	1.98	0.64
35:DA:1280:G:C3'	35:DA:1281:G:H5''	2.28	0.64
1:AA:105:G:H2'	1:AA:106:C:C6	2.33	0.64
20:AT:41:ILE:C	20:AT:43:LEU:H	2.00	0.64
48:BR:9:LYS:NZ	48:BR:42:LYS:HB3	2.12	0.64
36:DB:117:G:H5'	49:DS:55:ALA:HB1	1.80	0.64
2:AB:69:LEU:HD23	2:AB:159:PRO:HG2	1.78	0.64
2:AB:73:THR:HG22	2:AB:94:ASN:HA	1.79	0.64
4:AD:187:ARG:HH11	4:AD:187:ARG:HG2	1.63	0.64
12:AL:6:THR:HG22	12:AL:9:GLN:HE21	1.61	0.64
17:AQ:29:HIS:HB3	17:AQ:33:GLY:N	2.13	0.64
7:CG:101:LEU:O	7:CG:105:VAL:HG23	1.98	0.64
19:AS:63:THR:CG2	19:AS:66:MET:HG2	2.22	0.64
1:AA:1502:A:H2	1:AA:1505:G:H1	1.45	0.64
35:BA:2225:A:H4'	35:BA:2226:C:H5'	1.78	0.64
31:B5:44:THR:HG21	48:BR:101:ALA:CB	2.27	0.64
1:CA:1466:C:H2'	1:CA:1467:G:O4'	1.98	0.64
35:DA:1697:G:H3'	35:DA:1698:A:C5'	2.27	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:CM:45:VAL:O	13:CM:48:LEU:HD22	1.97	0.64
13:CM:9:ILE:N	13:CM:9:ILE:HD12	2.12	0.64
13:AM:45:VAL:O	13:AM:48:LEU:HD22	1.97	0.64
35:BA:878:A:H3'	35:BA:879:G:H8	1.63	0.64
35:DA:1387:C:H5'	35:DA:1469:A:H4'	1.79	0.64
56:BZ:139:VAL:C	56:BZ:141:VAL:H	1.99	0.64
1:CA:1126:U:H2'	1:CA:1127:G:H8	1.62	0.64
36:BB:60:C:H2'	36:BB:61:G:H8	1.62	0.64
3:AC:23:TYR:HA	10:AJ:11:PHE:CE1	2.33	0.64
1:AA:1381:U:H2'	1:AA:1382:C:H5'	1.80	0.64
3:CC:58:GLU:O	3:CC:64:VAL:HA	1.97	0.64
36:DB:15:A:H3'	36:DB:16:G:C5'	2.27	0.64
35:BA:2881:C:H2'	35:BA:2882:A:H8	1.63	0.64
10:AJ:38:ILE:O	10:AJ:38:ILE:HG13	1.97	0.64
35:BA:1894:C:O2'	35:BA:1895:C:H5'	1.98	0.64
41:DG:19:LEU:O	41:DG:23:PHE:N	2.30	0.64
35:BA:1788:C:O2'	35:BA:1789:A:H5'	1.98	0.64
38:DD:226:MET:HB3	38:DD:230:ASP:CB	2.27	0.64
38:DD:183:ARG:HG3	38:DD:269:PHE:O	1.97	0.64
34:B8:34:TRP:O	34:B8:35:GLN:HB2	1.97	0.64
46:BP:66:GLY:O	46:BP:68:GLN:N	2.30	0.64
35:BA:2726:U:H6	45:BO:67:LYS:HZ3	1.45	0.64
50:BT:28:VAL:CG2	50:BT:47:GLY:N	2.61	0.64
50:BT:35:LYS:HE2	50:BT:41:ARG:HG3	1.79	0.64
56:BZ:136:PHE:C	56:BZ:136:PHE:CD1	2.71	0.64
42:DH:87:LEU:N	42:DH:131:VAL:O	2.31	0.64
35:DA:2893:G:H5'	35:DA:2894:G:C5'	2.12	0.64
27:B1:69:LYS:O	27:B1:73:LEU:HD12	1.98	0.64
41:BG:114:ILE:HG22	41:BG:115:ARG:N	2.13	0.64
1:CA:1313:U:P	19:CS:6:LYS:HG3	2.37	0.64
35:BA:1879:C:H2'	35:BA:1880:C:C5'	2.17	0.64
49:BS:34:HIS:HE1	49:BS:55:ALA:HB2	1.63	0.64
1:CA:404:U:H2'	1:CA:405:U:C6	2.32	0.64
27:D1:87:PRO:HB2	27:D1:91:LYS:HE3	1.78	0.64
35:BA:814:C:C5'	52:BV:86:GLY:HA3	2.28	0.64
1:AA:1434:A:H2'	1:AA:1435:G:O4'	1.97	0.64
49:DS:17:ARG:HG3	49:DS:18:ILE:HD12	1.80	0.64
27:D1:40:ARG:HG2	27:D1:41:ARG:H	1.61	0.64
44:DN:17:ASP:O	44:DN:19:GLU:N	2.30	0.64
35:DA:807:U:O2'	35:DA:808:G:H5'	1.98	0.64
25:CY:126:ARG:O	25:CY:129:ILE:N	2.31	0.64
43:BI:2:LYS:HB2	43:BI:39:ALA:CB	2.26	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
12:AL:27:LEU:O	12:AL:29:GLY:N	2.30	0.64
9:AI:112:LYS:HA	9:AI:119:ALA:CB	2.27	0.64
1:CA:514:C:H42	1:CA:537:G:H1	1.46	0.64
33:D7:3:ARG:O	33:D7:6:GLN:NE2	2.31	0.64
46:DP:126:VAL:HA	46:DP:145:PRO:HG2	1.78	0.64
35:DA:2673:G:H2'	35:DA:2674:G:H8	1.61	0.64
2:CB:19:HIS:N	2:CB:39:ILE:HG21	2.12	0.64
35:DA:2487:G:H2'	35:DA:2488:A:C8	2.33	0.64
35:BA:1643:G:H2'	35:BA:1644:C:H6	1.63	0.64
1:CA:1242:C:H2'	1:CA:1243:C:C6	2.33	0.64
35:DA:1406:U:H3'	35:DA:1407:C:H6	1.63	0.64
35:DA:838:C:H42	35:DA:940:G:H1	1.44	0.64
1:CA:264:U:H2'	1:CA:265:G:O4'	1.98	0.64
35:DA:2106:G:H2'	35:DA:2107:C:O4'	1.97	0.64
35:DA:646:A:H2'	35:DA:647:G:O4'	1.98	0.64
35:BA:2065:C:H1'	35:BA:2449:U:H3	1.62	0.64
8:AH:17:THR:O	8:AH:19:VAL:N	2.31	0.64
10:CJ:38:ILE:O	10:CJ:38:ILE:HG13	1.96	0.64
5:CE:42:GLY:HA3	5:CE:66:MET:HG2	1.80	0.64
40:BF:7:TYR:HD2	40:BF:16:GLY:HA3	1.63	0.64
30:B4:29:PRO:C	30:B4:31:ILE:H	2.00	0.64
47:DQ:121:ALA:O	47:DQ:125:LEU:HD12	1.96	0.64
39:BE:36:ARG:HH22	39:BE:88:GLY:N	1.96	0.64
44:BN:9:VAL:CG1	44:BN:39:ARG:HH22	2.06	0.64
44:BN:46:VAL:HG11	44:BN:48:MET:HG3	1.78	0.64
54:BX:54:VAL:C	54:BX:55:ASN:ND2	2.51	0.64
35:BA:2206:G:C2	35:BA:2207:G:H5'	2.33	0.64
54:DX:33:LYS:C	54:DX:35:THR:N	2.44	0.64
56:DZ:116:VAL:HG12	56:DZ:117:LEU:H	1.63	0.64
10:AJ:35:SER:O	10:AJ:72:VAL:HG13	1.97	0.64
36:BB:49:C:OP1	49:BS:96:GLY:HA3	1.98	0.64
1:CA:1202:G:H2'	1:CA:1203:C:H5'	1.80	0.64
40:BF:3:GLU:HB2	40:BF:20:LEU:H	1.63	0.64
3:CC:9:GLY:HA3	14:CN:49:HIS:HA	1.80	0.64
40:DF:181:LEU:HG	40:DF:186:ILE:HD11	1.77	0.64
48:BR:53:HIS:HA	48:BR:56:LYS:HB2	1.80	0.64
43:BI:68:LEU:HD23	43:BI:68:LEU:O	1.97	0.64
2:CB:178:ARG:HB2	2:CB:178:ARG:HH11	1.63	0.64
35:DA:108:U:H2'	35:DA:109:G:C8	2.32	0.64
55:DY:37:VAL:HG13	55:DY:69:ALA:HB2	1.80	0.64
4:AD:15:GLU:HG2	4:AD:63:LYS:HG3	1.80	0.64
35:DA:2024:G:O2'	35:DA:2025:C:H5'	1.97	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
43:BI:14:ASP:O	43:BI:15:VAL:O	2.15	0.64
1:CA:954:G:H2'	1:CA:955:U:C6	2.32	0.64
33:B7:3:ARG:O	33:B7:6:GLN:NE2	2.31	0.64
2:CB:105:PHE:O	2:CB:108:ILE:N	2.31	0.64
11:AK:27:ASN:HA	11:AK:55:LYS:O	1.96	0.64
9:CI:112:LYS:HA	9:CI:119:ALA:CB	2.28	0.64
1:CA:824:C:H4'	8:CH:1:MET:N	2.13	0.64
8:CH:51:VAL:HG11	8:CH:60:ARG:HG2	1.80	0.64
9:AI:111:ARG:O	9:AI:119:ALA:HB1	1.98	0.64
35:DA:2012:G:O2'	53:DW:96:ILE:HD11	1.97	0.64
56:BZ:142:SER:N	56:BZ:144:LEU:HD23	2.12	0.64
46:BP:100:LEU:H	46:BP:100:LEU:HD22	1.63	0.64
15:AO:15:PHE:HB2	15:AO:27:VAL:HG22	1.79	0.64
35:BA:493:G:C3'	35:BA:494:G:H5''	2.27	0.64
1:CA:59:A:H5''	1:CA:60:A:H5''	1.77	0.64
35:BA:2795:G:N2	35:BA:2799:C:H5'	2.12	0.64
35:BA:2625:G:H2'	35:BA:2626:C:C6	2.33	0.64
26:B0:25:ARG:HA	26:B0:29:GLN:NE2	2.12	0.64
35:DA:286:C:H42	35:DA:355:G:H1	1.45	0.64
22:CV:38:U:H2'	22:CV:39:C:C6	2.33	0.64
1:AA:565:U:H3'	1:AA:566:G:H2'	1.80	0.64
36:DB:61:G:H2'	36:DB:62:C:C6	2.33	0.64
37:BC:47:LEU:HA	37:BC:207:THR:HA	1.79	0.64
1:AA:764:C:H2'	1:AA:765:G:H8	1.61	0.64
1:CA:1003:G:H2'	1:CA:1004:A:O4'	1.97	0.64
51:DU:13:LYS:O	51:DU:16:LYS:HB3	1.98	0.64
35:BA:313:C:H2'	35:BA:314:A:H8	1.63	0.64
52:DV:52:VAL:C	52:DV:54:GLY:H	2.01	0.64
5:CE:126:ARG:C	5:CE:131:ILE:HD11	2.17	0.64
35:DA:1567:A:H2'	38:DD:84:TYR:CE2	2.32	0.64
41:DG:105:LYS:HB2	41:DG:105:LYS:NZ	2.12	0.64
41:DG:94:LEU:O	41:DG:99:MET:HB2	1.98	0.64
50:BT:48:ILE:C	50:BT:63:VAL:HG12	2.18	0.64
50:BT:52:ILE:HG22	50:BT:61:PHE:HB2	1.79	0.64
44:BN:38:HIS:O	51:BU:67:ALA:HB1	1.97	0.64
52:BV:3:ALA:CB	52:BV:14:VAL:HB	2.27	0.64
28:B2:12:GLU:O	28:B2:14:ARG:NH2	2.31	0.64
41:BG:57:ALA:HB2	41:BG:90:LEU:HD23	1.80	0.64
28:D2:53:LEU:HD12	35:DA:77:C:OP1	1.98	0.64
32:D6:12:GLU:CB	32:D6:23:THR:HG22	2.28	0.64
4:CD:155:LEU:HB2	4:CD:158:ILE:HB	1.80	0.64
27:D1:83:GLU:CD	27:D1:86:SER:H	2.01	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:DR:49:ASP:O	48:DR:50:HIS:C	2.36	0.64
49:DS:54:LEU:HD21	49:DS:59:LYS:O	1.98	0.64
2:CB:75:LYS:CA	2:CB:78:GLN:HE21	2.01	0.64
44:BN:120:LEU:HD11	44:BN:122:VAL:CG2	2.26	0.64
2:CB:33:TYR:CD1	2:CB:43:ASP:HA	2.33	0.64
34:D8:50:LEU:N	34:D8:53:PRO:HG3	2.13	0.64
1:CA:571:U:H5''	1:CA:819:A:C2	2.32	0.64
35:BA:1590:U:C3'	35:BA:1591:G:H5''	2.27	0.64
33:B7:34:ARG:O	33:B7:35:ARG:C	2.36	0.64
33:B7:5:TRP:NE1	33:B7:7:PRO:HG3	2.13	0.64
2:CB:103:THR:HA	2:CB:180:LEU:HD11	1.79	0.64
23:AW:34:U:H1'	23:AW:36:A:N7	2.12	0.64
1:AA:601:C:H2'	1:AA:602:A:H8	1.62	0.64
1:AA:1499:A:C2'	1:AA:1500:A:H5'	2.28	0.64
9:AI:28:VAL:HG13	9:AI:63:ILE:O	1.98	0.64
31:D5:40:LYS:HE2	31:D5:46:CYS:HB3	1.79	0.64
9:CI:63:ILE:HD12	9:CI:63:ILE:N	2.13	0.64
45:DO:122:LEU:N	45:DO:122:LEU:HD12	2.13	0.64
40:BF:128:ALA:O	40:BF:142:TRP:NE1	2.31	0.64
1:AA:878:G:H5'	8:AH:89:PRO:CG	2.28	0.64
8:AH:89:PRO:HA	8:AH:92:ARG:NH1	2.13	0.64
2:AB:102:LEU:N	2:AB:102:LEU:HD12	2.12	0.64
1:CA:312:C:H2'	1:CA:313:A:C8	2.33	0.64
26:D0:25:ARG:HG2	26:D0:31:VAL:HG12	1.79	0.64
35:DA:2801(A):A:C3'	35:DA:2802:G:H5'	2.28	0.64
38:DD:176:ARG:HH11	38:DD:176:ARG:HG2	1.63	0.64
15:AO:37:ASN:ND2	15:AO:37:ASN:H	1.95	0.64
35:DA:2543:G:H2'	35:DA:2544:G:C8	2.32	0.64
35:BA:718:A:H3'	35:BA:719:C:C6	2.32	0.64
1:CA:770:C:O2'	1:CA:771:G:H5'	1.97	0.64
35:DA:1742:G:N7	35:DA:1743:C:N3	2.45	0.64
46:BP:86:LYS:HD3	46:BP:117:GLU:HB2	1.79	0.64
56:DZ:115:GLY:HA3	56:DZ:175:VAL:O	1.98	0.64
1:CA:1355:G:H2'	1:CA:1356:G:C8	2.32	0.64
1:CA:547:A:H4'	1:CA:548:G:O5'	1.98	0.64
50:DT:27:THR:C	50:DT:88:ILE:HD13	2.18	0.64
41:DG:37:VAL:HG11	41:DG:94:LEU:HD12	1.78	0.64
50:BT:91:ARG:O	50:BT:117:ASP:HB2	1.97	0.64
56:BZ:128:VAL:HG22	56:BZ:129:SER:H	1.63	0.64
35:DA:2491:U:H4'	35:DA:2570:G:OP1	1.98	0.64
1:AA:1190:G:H3'	3:AC:3:ASN:OD1	1.98	0.64
35:BA:528:A:C2	35:BA:2042:A:H2'	2.33	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:70:G:H2'	35:BA:113:G:O2'	1.98	0.64
39:DE:36:ARG:HH22	39:DE:88:GLY:N	1.96	0.64
36:BB:45:A:H1'	41:BG:95:ARG:NH2	2.12	0.64
42:BH:150:ALA:O	42:BH:152:ARG:N	2.31	0.64
49:BS:62:LYS:N	49:BS:62:LYS:HD3	2.12	0.64
1:CA:542:G:H2'	1:CA:543:C:H6	1.61	0.64
4:CD:121:VAL:O	4:CD:134:ASP:HA	1.98	0.64
4:CD:15:GLU:HG2	4:CD:63:LYS:HG3	1.80	0.64
47:BQ:35:VAL:HG12	47:BQ:130:LYS:HB3	1.79	0.64
35:BA:237:C:H2'	35:BA:238:C:H6	1.63	0.64
40:BF:182:ASN:ND2	40:BF:185:ASP:OD2	2.31	0.64
40:BF:41:LEU:O	40:BF:44:ARG:HG3	1.98	0.64
35:BA:1257:C:O2'	40:BF:84:VAL:HG23	1.98	0.64
35:DA:1587:A:H2'	35:DA:1588:C:O4'	1.97	0.64
35:DA:1280:G:H3'	35:DA:1281:G:H5''	1.79	0.64
3:AC:112:SER:HB3	3:AC:115:LEU:HD12	1.79	0.64
2:CB:12:GLU:OE2	2:CB:214:ILE:HD11	1.98	0.64
47:BQ:116:GLU:O	47:BQ:119:ARG:HB3	1.98	0.64
35:BA:8:A:C4	35:BA:9:U:C5	2.86	0.64
46:DP:41:ARG:HD2	46:DP:41:ARG:N	2.12	0.64
4:AD:120:LEU:H	4:AD:120:LEU:CD1	2.02	0.64
1:CA:1499:A:H2'	1:CA:1500:A:H8	1.62	0.64
2:AB:111:ARG:NH1	2:AB:111:ARG:HG2	2.09	0.64
19:CS:62:ILE:HD12	19:CS:66:MET:HG3	1.78	0.64
16:AP:6:LEU:HB3	16:AP:17:TYR:CD2	2.32	0.64
13:AM:90:LEU:C	13:AM:92:HIS:N	2.51	0.64
9:CI:79:LEU:HD13	9:CI:79:LEU:O	1.98	0.64
12:AL:89:ARG:HH11	12:AL:89:ARG:C	2.01	0.64
8:AH:10:LEU:N	8:AH:10:LEU:HD23	2.12	0.64
9:AI:116:LYS:O	9:AI:118:LYS:N	2.31	0.64
46:DP:81:GLN:NE2	46:DP:106:LEU:HA	2.12	0.64
46:BP:126:VAL:HA	46:BP:145:PRO:HB2	1.78	0.64
5:AE:103:GLY:O	5:AE:106:PRO:HD2	1.98	0.64
35:BA:2872:G:C2	35:BA:2873:A:N6	2.66	0.64
1:AA:1091:U:H2'	1:AA:1093:A:OP2	1.97	0.64
53:DW:12:ILE:CD1	53:DW:42:ARG:HH11	2.11	0.64
7:CG:146:GLU:HA	7:CG:149:ARG:HB2	1.80	0.64
53:DW:51:LEU:C	53:DW:51:LEU:HD13	2.17	0.64
7:AG:16:LEU:HD13	9:AI:41:VAL:HG12	1.80	0.64
1:AA:189(H):G:H2'	1:AA:189(I):G:H8	1.63	0.64
38:BD:125:ILE:HD12	38:BD:125:ILE:N	2.12	0.64
35:DA:519:U:H5''	53:DW:25:ARG:NH2	2.13	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:264:U:H2'	1:AA:265:G:O4'	1.98	0.64
10:CJ:39:PRO:HA	10:CJ:70:ARG:HA	1.79	0.64
38:DD:35:LYS:CE	38:DD:104:TYR:HB2	2.28	0.63
41:DG:36:LYS:H	41:DG:160:VAL:HB	1.62	0.63
41:DG:36:LYS:N	41:DG:160:VAL:HB	2.13	0.63
34:B8:32:LEU:HD22	35:BA:2419:U:O5'	1.97	0.63
34:B8:40:GLU:OE1	34:B8:44:LYS:HE3	1.98	0.63
56:BZ:7:ALA:H	56:BZ:62:PRO:HD3	1.63	0.63
39:DE:116:VAL:O	39:DE:117:MET:CB	2.45	0.63
52:BV:61:VAL:HG12	52:BV:62:LEU:H	1.62	0.63
34:D8:62:LEU:HD13	35:DA:242:G:C5'	2.16	0.63
28:B2:45:SER:HA	28:B2:48:HIS:HB2	1.80	0.63
54:BX:36:LYS:C	54:BX:38:GLU:N	2.51	0.63
28:D2:21:LEU:HD22	28:D2:50:ILE:HG22	1.80	0.63
56:DZ:148:ASP:OD1	56:DZ:149:SER:N	2.29	0.63
27:D1:58:ILE:CD1	27:D1:59:THR:N	2.61	0.63
46:DP:62:LEU:N	46:DP:62:LEU:HD13	2.12	0.63
44:DN:67:LEU:HA	44:DN:88:GLU:HG3	1.80	0.63
35:BA:587:C:C4	46:BP:33:ARG:HD2	2.33	0.63
20:AT:36:LEU:CD2	20:AT:36:LEU:H	2.11	0.63
35:DA:2069:G:O2'	35:DA:2070:G:H5'	1.98	0.63
35:DA:577:G:H2'	35:DA:578:A:C8	2.33	0.63
18:AR:36:ASN:ND2	18:AR:39:VAL:HB	2.14	0.63
35:DA:17:G:H4'	51:DU:25:TRP:CZ3	2.32	0.63
43:BI:5:LEU:N	43:BI:5:LEU:HD23	2.13	0.63
11:AK:58:PRO:HD3	11:AK:89:ALA:HB1	1.79	0.63
20:AT:64:ASP:C	20:AT:66:ALA:H	2.02	0.63
9:CI:111:ARG:HG2	9:CI:112:LYS:N	2.11	0.63
1:AA:560:U:O2'	1:AA:561:U:OP2	2.15	0.63
46:BP:80:TYR:CE1	46:BP:111:ARG:HB3	2.33	0.63
35:BA:2801(A):A:C4'	35:BA:2802:G:H2'	2.27	0.63
1:AA:1253:G:H5'	10:AJ:44:VAL:HG12	1.79	0.63
35:DA:2801(A):A:C4'	35:DA:2802:G:H2'	2.28	0.63
26:B0:25:ARG:HG2	26:B0:31:VAL:HG12	1.79	0.63
35:BA:1301:A:HO2'	35:BA:1302:A:P	2.20	0.63
1:AA:1405:G:O2'	1:AA:1406:U:H5'	1.99	0.63
15:AO:36:ILE:HD12	15:AO:63:ARG:HD3	1.78	0.63
45:BO:13:ASN:HD22	45:BO:97:ARG:CG	2.10	0.63
35:BA:556:G:H2'	35:BA:557:U:C6	2.33	0.63
1:CA:648:A:H2'	1:CA:649:G:H8	1.63	0.63
35:DA:2838:G:O2'	35:DA:2839:G:H5'	1.98	0.63
35:BA:2410:G:C2	35:BA:2411:A:H1'	2.33	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2887:U:O2'	35:BA:2888:C:H5'	1.98	0.63
3:CC:119:ARG:HH21	3:CC:140:ARG:CZ	2.11	0.63
35:DA:2404:C:H2'	35:DA:2405:G:O4'	1.98	0.63
8:CH:17:THR:O	8:CH:19:VAL:N	2.31	0.63
35:DA:2722:G:H2'	35:DA:2723:C:C6	2.34	0.63
16:CP:2:VAL:HG23	16:CP:22:THR:O	1.99	0.63
14:AN:23:ARG:HD3	14:AN:29:ARG:O	1.99	0.63
54:BX:59:VAL:C	54:BX:73:ARG:HA	2.18	0.63
54:BX:82:GLN:HG3	54:BX:83:VAL:N	2.13	0.63
54:BX:8:ILE:HD12	54:BX:8:ILE:N	2.13	0.63
28:D2:29:LYS:CA	28:D2:32:LEU:HB3	2.26	0.63
28:D2:41:ILE:C	28:D2:43:GLN:H	2.02	0.63
28:D2:49:LYS:CB	28:D2:53:LEU:HD22	2.18	0.63
42:BH:149:ARG:HA	42:BH:162:ILE:CD1	2.28	0.63
56:DZ:117:LEU:HA	56:DZ:173:ALA:O	1.98	0.63
56:DZ:58:VAL:HG13	56:DZ:67:LEU:C	2.19	0.63
56:DZ:73:GLN:CG	56:DZ:74:VAL:H	2.07	0.63
35:DA:2777:G:H5''	35:DA:2778:A:H5''	1.79	0.63
49:BS:90:GLY:HA2	49:BS:92:TYR:CD2	2.33	0.63
40:BF:34:TRP:CB	46:BP:11:GLY:HA3	2.29	0.63
35:BA:2051:A:H4'	39:BE:141:ILE:HD11	1.79	0.63
34:B8:50:LEU:N	34:B8:53:PRO:HG3	2.12	0.63
35:BA:582:G:H2'	35:BA:583:G:H8	1.62	0.63
35:DA:250:G:H2'	35:DA:251:A:C8	2.34	0.63
47:DQ:16:ARG:C	47:DQ:17:LEU:HD23	2.18	0.63
6:AF:61:LEU:O	6:AF:62:TRP:HB2	1.98	0.63
18:AR:44:LEU:O	18:AR:45:SER:HB3	1.98	0.63
35:DA:2030:A:H4'	35:DA:2031:A:H8	1.62	0.63
1:CA:1325:C:O2	1:CA:1325:C:C2'	2.46	0.63
1:CA:956:U:O2'	1:CA:957:U:H5'	1.97	0.63
1:CA:184:G:C4'	1:CA:224:C:H4'	2.28	0.63
11:AK:19:ALA:HA	11:AK:32:ILE:HA	1.80	0.63
35:BA:1309:G:O2'	35:BA:1310:G:H5'	1.98	0.63
2:CB:111:ARG:HG2	2:CB:111:ARG:NH1	2.13	0.63
5:AE:144:THR:O	5:AE:147:ASP:OD2	2.16	0.63
46:BP:100:LEU:HD22	46:BP:100:LEU:N	2.13	0.63
13:CM:65:LYS:C	13:CM:66:LEU:N	2.52	0.63
26:B0:39:ARG:HH21	35:BA:2355:C:H1'	1.62	0.63
1:AA:1298:C:C4	7:AG:114:ARG:HD2	2.34	0.63
52:DV:43:GLU:HB2	52:DV:48:GLY:HA3	1.80	0.63
46:DP:122:PRO:HG3	46:DP:141:ALA:HB3	1.79	0.63
35:DA:2364:C:H2'	35:DA:2365:G:O4'	1.98	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AF:49:ALA:HB1	18:AR:80:PRO:HG3	1.80	0.63
43:BI:83:ALA:HA	43:BI:89:TYR:HD1	1.64	0.63
35:BA:1795:C:H42	35:BA:1824:G:H1	1.44	0.63
38:BD:226:MET:HB3	38:BD:230:ASP:CB	2.28	0.63
38:DD:63:ARG:NH1	38:DD:86:PRO:HD2	2.14	0.63
41:DG:129:GLY:O	41:DG:131:TYR:N	2.30	0.63
41:DG:56:ALA:HB1	41:DG:153:ARG:CD	2.28	0.63
32:B6:11:LEU:CD1	32:B6:51:GLU:HB2	2.28	0.63
56:BZ:127:LYS:H	56:BZ:164:ALA:CB	2.11	0.63
56:BZ:22:GLY:O	56:BZ:41:LEU:HG	1.97	0.63
54:DX:39:ILE:HD12	54:DX:40:LYS:N	2.13	0.63
54:DX:81:VAL:CG1	54:DX:85:PRO:HB2	2.28	0.63
3:AC:134:ILE:O	3:AC:137:ALA:HB3	1.98	0.63
3:CC:43:LEU:CD2	3:CC:47:LEU:HD22	2.22	0.63
35:DA:2284:C:H2'	35:DA:2285:C:C5'	2.19	0.63
4:CD:187:ARG:HH11	4:CD:187:ARG:HG2	1.63	0.63
35:DA:2820:A:C4'	48:DR:5:LYS:HE2	2.28	0.63
36:DB:7:G:H21	49:DS:38:GLN:NE2	1.97	0.63
49:DS:90:GLY:HA2	49:DS:92:TYR:CD2	2.32	0.63
43:BI:130:TYR:HB2	43:BI:136:VAL:HG13	1.79	0.63
2:AB:72:GLY:HA3	2:AB:165:VAL:CG1	2.28	0.63
2:AB:33:TYR:HB2	2:AB:41:ILE:HG22	1.80	0.63
35:DA:809:G:O4'	35:DA:1254:A:H1'	1.99	0.63
4:AD:126:ILE:HG22	4:AD:127:THR:H	1.62	0.63
35:DA:2020:A:O2'	35:DA:2021:C:H5'	1.98	0.63
25:CY:21:LEU:HD21	25:CY:122:ALA:HA	1.81	0.63
13:CM:97:PRO:HB3	13:CM:110:ARG:HD3	1.80	0.63
8:CH:97:VAL:HG13	8:CH:98:LYS:HG3	1.81	0.63
5:AE:7:GLU:O	5:AE:8:GLU:HB3	1.96	0.63
2:CB:144:ARG:O	2:CB:147:LYS:HB3	1.99	0.63
8:CH:26:VAL:HG22	8:CH:32:LYS:HZ2	1.61	0.63
8:CH:26:VAL:HG22	8:CH:32:LYS:HZ3	1.62	0.63
35:DA:2197:U:H1'	35:DA:2198:A:C8	2.33	0.63
40:BF:148:LEU:HD21	40:BF:191:ARG:HD3	1.80	0.63
35:BA:1771:C:H2'	35:BA:1772:G:H8	1.63	0.63
1:AA:34:C:H2'	1:AA:35:G:C8	2.29	0.63
1:CA:1436:U:H2'	1:CA:1437:C:H6	1.62	0.63
35:BA:1335:U:H2'	35:BA:1336:A:C8	2.33	0.63
35:BA:1836:C:O2'	35:BA:1837:C:H5'	1.99	0.63
1:AA:1090:U:H2'	1:AA:1091:U:C6	2.33	0.63
35:BA:286:C:H42	35:BA:355:G:H1	1.44	0.63
1:CA:1163:C:H2'	1:CA:1164:G:H8	1.63	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
11:AK:86:GLY:H	11:AK:112:THR:HG23	1.63	0.63
6:AF:37:VAL:HA	6:AF:65:VAL:HG12	1.80	0.63
1:CA:1007:C:H2'	1:CA:1008:C:C6	2.34	0.63
35:DA:2861:G:O2'	35:DA:2862:G:H5'	1.98	0.63
1:AA:758:G:H8	1:AA:758:G:O5'	1.81	0.63
35:DA:1754:C:H5'	50:DT:101:PHE:CE1	2.33	0.63
38:DD:183:ARG:HG2	38:DD:183:ARG:HH11	1.63	0.63
41:DG:144:ILE:CG1	41:DG:145:THR:N	2.56	0.63
56:BZ:70:LEU:HB2	56:BZ:91:LEU:HD11	1.80	0.63
35:DA:2056:G:N2	35:DA:2057:A:H1'	2.14	0.63
42:DH:136:ILE:O	42:DH:137:ASP:HB2	1.97	0.63
27:B1:87:PRO:HG2	27:B1:88:LYS:H	1.63	0.63
28:D2:32:LEU:HG	28:D2:33:MET:N	2.13	0.63
52:DV:37:VAL:HG12	52:DV:38:LEU:N	2.13	0.63
4:CD:65:ARG:HH11	4:CD:72:GLU:N	1.97	0.63
4:CD:19:LEU:HD23	4:CD:67:ILE:HA	1.80	0.63
47:BQ:34:LEU:CD1	47:BQ:129:THR:HB	2.27	0.63
40:BF:199:TRP:O	40:BF:203:GLN:HG2	1.98	0.63
46:BP:16:ARG:NH1	46:BP:18:ARG:HG3	2.13	0.63
40:DF:7:TYR:HD2	40:DF:16:GLY:HA3	1.63	0.63
35:BA:910:A:H62	47:BQ:12:GLN:HA	1.64	0.63
1:AA:328:C:H2'	1:AA:328:C:O2	1.97	0.63
35:BA:2707:G:H5''	48:BR:68:ARG:HH21	1.63	0.63
48:BR:29:LEU:HD23	48:BR:70:LEU:HD11	1.79	0.63
49:DS:34:HIS:HE1	49:DS:55:ALA:HB2	1.63	0.63
44:DN:57:ALA:HB1	44:DN:60:ILE:HD11	1.81	0.63
35:DA:807:U:H2'	35:DA:808:G:C8	2.33	0.63
35:DA:814:C:C5'	52:DV:86:GLY:HA3	2.27	0.63
55:DY:31:LEU:HD23	55:DY:36:ALA:HB3	1.80	0.63
47:BQ:51:ARG:O	47:BQ:55:VAL:HG13	1.99	0.63
1:CA:1518:A:C2	1:CA:1519:A:C2	2.86	0.63
51:DU:18:LEU:CD2	51:DU:22:LYS:HE2	2.28	0.63
51:DU:6:THR:O	51:DU:8:VAL:N	2.28	0.63
12:CL:70:ILE:HG13	12:CL:100:ILE:HD12	1.80	0.63
13:CM:90:LEU:O	13:CM:92:HIS:N	2.28	0.63
20:CT:51:GLU:O	20:CT:55:ILE:HG12	1.99	0.63
7:AG:91:VAL:HG13	7:AG:95:ARG:HD3	1.80	0.63
11:AK:103:LEU:N	11:AK:103:LEU:HD22	2.04	0.63
35:DA:1590:U:C3'	35:DA:1591:G:H5''	2.28	0.63
35:DA:2745:C:H2'	35:DA:2746:U:C6	2.34	0.63
11:AK:88:GLY:O	11:AK:91:ARG:HB2	1.97	0.63
1:CA:1106:G:H2'	1:CA:1107:C:C6	2.33	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:CB:115:LEU:HG	2:CB:116:GLU:N	2.13	0.63
45:BO:119:PRO:HB2	50:BT:68:TYR:CD1	2.33	0.63
25:CY:83:ILE:O	25:CY:86:SER:N	2.29	0.63
1:CA:560:U:O2'	1:CA:561:U:OP2	2.13	0.63
9:AI:50:LEU:HB3	9:AI:55:ALA:HB3	1.80	0.63
29:B3:4:LEU:HD21	29:B3:56:VAL:CG1	2.28	0.63
12:CL:45:PRO:HB2	12:CL:49:ASN:O	1.98	0.63
15:AO:18:PHE:CZ	15:AO:21:ASP:HB2	2.33	0.63
35:DA:2199:A:H5'	35:DA:2200:C:OP2	1.99	0.63
51:BU:3:ARG:HH11	51:BU:3:ARG:CG	2.10	0.63
35:BA:2801(A):A:C3'	35:BA:2802:G:H5'	2.29	0.63
1:CA:9:G:H5'	5:CE:122:GLU:OE2	1.98	0.63
2:AB:22:LYS:HZ2	2:AB:22:LYS:HA	1.62	0.63
38:DD:175:LEU:HD23	38:DD:176:ARG:N	2.13	0.63
35:BA:1291:C:O2'	35:BA:1292:U:H5'	1.98	0.63
35:DA:2772:C:H2'	35:DA:2773:C:H6	1.62	0.63
35:DA:1031:G:N2	35:DA:1124:C:H1'	2.13	0.63
17:CQ:77:VAL:O	17:CQ:78:GLU:HB3	1.98	0.63
51:BU:30:LYS:HE3	51:BU:30:LYS:HA	1.81	0.63
46:DP:86:LYS:HD3	46:DP:117:GLU:HB2	1.78	0.63
39:DE:154:LYS:HA	39:DE:154:LYS:HE3	1.79	0.63
38:BD:45:ASN:CG	38:BD:46:GLN:N	2.51	0.63
45:BO:104:ARG:HH21	50:BT:33:LYS:HE3	1.63	0.63
50:BT:99:LEU:O	50:BT:99:LEU:HD13	1.97	0.63
35:BA:1150:C:O2'	35:BA:1151:G:H5'	1.98	0.63
39:DE:197:ILE:HD11	39:DE:199:ARG:HH22	1.62	0.63
35:BA:2312:U:C2'	35:BA:2313:C:H5''	2.27	0.63
45:DO:111:PHE:HB3	45:DO:114:ILE:CD1	2.29	0.63
1:CA:404:U:H2'	1:CA:405:U:H6	1.64	0.63
35:BA:575:A:H2'	35:BA:576:U:H5'	1.80	0.63
52:BV:71:LEU:HD13	52:BV:72:VAL:N	2.13	0.63
40:DF:3:GLU:HB2	40:DF:20:LEU:H	1.64	0.63
35:BA:1327:C:H2'	35:BA:1328:G:O4'	1.99	0.63
36:DB:52:A:HO2'	36:DB:53:A:H8	1.46	0.63
2:CB:165:VAL:CG2	2:CB:166:ASP:N	2.59	0.63
1:AA:375:U:H2'	1:AA:376:G:C8	2.33	0.63
35:BA:743:G:O2'	35:BA:744:G:H5'	1.97	0.63
3:CC:173:VAL:N	3:CC:174:PRO:HD3	2.14	0.63
43:DI:2:LYS:HB2	43:DI:39:ALA:CB	2.26	0.63
1:CA:1348:U:H4'	9:CI:120:ARG:HD2	1.79	0.63
9:CI:3:GLN:HG2	9:CI:20:ARG:HH21	1.64	0.63
46:DP:111:ARG:HA	46:DP:128:HIS:ND1	2.13	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:759:G:H2'	35:DA:760:G:C8	2.33	0.63
23:AW:49:C:O2'	23:AW:60:A:H4'	1.98	0.63
1:AA:32:A:H2'	1:AA:33:A:H8	1.59	0.63
1:CA:328:C:H2'	1:CA:328:C:O2	1.98	0.63
35:BA:2626:C:H2'	35:BA:2627:G:C8	2.34	0.63
24:CX:13:A:O2'	24:CX:14:U:H5'	1.98	0.63
10:AJ:32:ALA:HB1	10:AJ:75:ILE:CG1	2.28	0.63
1:CA:155:C:H2'	1:CA:156:G:C8	2.34	0.63
3:CC:73:PRO:HA	3:CC:76:VAL:CG1	2.28	0.63
35:DA:1518:U:H2'	35:DA:1519:G:O4'	1.98	0.63
35:DA:1523:U:H2'	35:DA:1524:G:H8	1.63	0.63
35:BA:116:C:O2'	35:BA:117:G:H5'	1.99	0.63
45:BO:47:ILE:HG23	45:BO:48:PRO:HD2	1.80	0.63
42:BH:31:GLY:O	42:BH:79:VAL:HG11	1.97	0.63
35:DA:1758:G:N7	35:DA:2695:C:H4'	2.13	0.63
32:B6:12:GLU:CB	32:B6:23:THR:HG22	2.29	0.63
35:BA:1991:U:H2'	35:BA:1992:G:H5'	1.79	0.63
1:AA:950:U:H2'	1:AA:951:G:C8	2.34	0.63
27:B1:53:VAL:HG12	27:B1:58:ILE:HG22	1.80	0.63
41:BG:67:LYS:H	41:BG:67:LYS:CD	2.09	0.63
54:DX:36:LYS:C	54:DX:38:GLU:N	2.51	0.63
54:DX:77:LYS:HE3	54:DX:78:LYS:N	2.12	0.63
42:BH:162:ILE:HD12	42:BH:162:ILE:C	2.18	0.63
47:DQ:140:ALA:HB1	56:DZ:99:TYR:H	1.64	0.63
4:CD:13:ARG:HD3	4:CD:38:TYR:O	1.98	0.63
40:DF:117:ARG:HH21	40:DF:187:VAL:HA	1.64	0.63
50:BT:96:ARG:HH11	50:BT:96:ARG:CG	2.12	0.63
6:CF:49:ALA:HB1	18:CR:80:PRO:HG3	1.79	0.63
4:AD:127:THR:HG22	4:AD:149:ALA:H	1.63	0.63
3:AC:16:ARG:CB	3:AC:16:ARG:HH11	2.12	0.63
1:CA:570:G:H2'	1:CA:571:U:C6	2.33	0.63
35:DA:1131:G:OP1	44:DN:80:GLY:HA2	1.99	0.63
27:B1:33:LYS:HB2	35:BA:2395:C:O2'	1.99	0.63
11:CK:29:ILE:HD12	11:CK:29:ILE:C	2.18	0.63
35:BA:1605:C:H5'	35:BA:1610:A:N6	2.14	0.63
2:AB:172:ILE:H	2:AB:172:ILE:CD1	2.07	0.63
1:AA:1341:U:O2'	1:AA:1342:C:H5'	1.98	0.63
46:BP:95:VAL:HG23	46:BP:125:VAL:HB	1.79	0.63
46:BP:130:PHE:CD2	46:BP:130:PHE:N	2.67	0.63
7:AG:121:ALA:HA	7:AG:124:LEU:HD12	1.81	0.63
35:DA:271(V):G:H2'	35:DA:271(W):G:O4'	1.97	0.63
5:CE:76:ILE:HD11	5:CE:142:LEU:HD11	1.80	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1153:C:H2'	35:DA:1154:G:O4'	1.98	0.63
1:CA:1470:G:O2'	1:CA:1471:G:H5'	1.99	0.63
35:BA:45:C:OP2	35:BA:215:G:H2'	1.97	0.63
1:AA:668:G:O4'	15:AO:49:ASP:HB2	1.97	0.63
25:CY:69:GLN:HA	25:CY:97:ASP:O	1.98	0.63
6:CF:98:LEU:H	6:CF:98:LEU:HD12	1.63	0.63
1:AA:648:A:H2'	1:AA:649:G:H8	1.63	0.63
35:DA:1887:C:H3'	35:DA:1888:G:H5''	1.80	0.63
38:DD:80:ALA:HB3	38:DD:94:LEU:CD1	2.28	0.63
10:CJ:8:LEU:HA	10:CJ:96:ILE:HG22	1.79	0.63
47:DQ:34:LEU:HD11	47:DQ:129:THR:CB	2.25	0.63
56:BZ:60:GLU:O	56:BZ:62:PRO:HD3	1.99	0.63
35:BA:534:U:O3'	51:BU:46:ALA:HB2	1.99	0.63
54:BX:57:LEU:HB2	54:BX:76:ARG:CD	2.29	0.63
41:BG:76:SER:CB	41:BG:84:LYS:H	2.12	0.63
44:DN:43:THR:O	44:DN:46:VAL:N	2.31	0.63
19:CS:36:ARG:HH12	19:CS:75:ALA:HB3	1.64	0.63
36:DB:74:U:H2'	36:DB:75:G:C5'	2.18	0.63
35:BA:1196:C:H2'	35:BA:1197:G:C8	2.33	0.63
35:BA:581:C:O2'	35:BA:582:G:H5'	1.99	0.63
40:DF:110:LEU:HD21	40:DF:181:LEU:HD23	1.80	0.63
35:BA:2467:C:H2'	35:BA:2468:G:H5'	1.79	0.63
44:BN:17:ASP:C	44:BN:19:GLU:N	2.52	0.63
6:CF:68:PRO:HG3	6:CF:71:ARG:NH2	2.11	0.63
18:CR:78:LEU:O	18:CR:79:LEU:HG	1.98	0.63
35:DA:2061:G:H5''	35:DA:2503:A:C2	2.33	0.63
2:AB:115:LEU:HG	2:AB:116:GLU:N	2.12	0.63
20:CT:37:SER:O	20:CT:40:ALA:HB3	1.98	0.63
25:AY:176:ALA:O	25:AY:180:GLU:HG3	1.99	0.63
35:BA:975(A):G:OP1	52:BV:79:VAL:HG13	1.97	0.63
47:BQ:82:ARG:NH1	47:BQ:82:ARG:HG2	2.13	0.63
55:BY:37:VAL:HG13	55:BY:69:ALA:HB2	1.81	0.63
22:AV:38:U:H2'	22:AV:39:C:H6	1.62	0.63
46:BP:85:LEU:HA	46:BP:88:LEU:CB	2.26	0.63
35:BA:1049:C:H2'	35:BA:1050:A:H8	1.63	0.63
33:D7:30:VAL:HG13	33:D7:33:ARG:HH22	1.64	0.63
46:DP:80:TYR:CD1	46:DP:111:ARG:HB3	2.33	0.63
35:BA:1938:A:H2	35:BA:2590:A:H1'	1.62	0.63
31:B5:20:ARG:HH12	53:BW:15:ARG:CZ	2.12	0.63
17:CQ:45:HIS:HB2	17:CQ:69:LYS:HE2	1.78	0.63
53:DW:75:TYR:N	53:DW:75:TYR:CD1	2.63	0.63
35:BA:2203:U:O4'	38:BD:151:LYS:HE3	1.99	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2103:C:H2'	35:DA:2104:G:H5''	1.81	0.63
1:CA:342:C:O2'	1:CA:343:U:H5'	1.98	0.63
35:DA:2521:C:N4	35:DA:2544:G:H1	1.97	0.63
7:CG:16:LEU:HD13	9:CI:41:VAL:HG12	1.81	0.63
45:BO:3:GLN:HB2	45:BO:4:PRO:HD2	1.79	0.63
35:DA:426:C:O2'	35:DA:427:U:H5'	1.99	0.63
41:BG:42:GLY:HA2	41:BG:89:GLY:HA2	1.79	0.63
1:CA:17:U:H2'	1:CA:18:C:H6	1.64	0.63
5:CE:43:LEU:HD12	5:CE:44:GLY:N	2.14	0.63
35:BA:1998:G:H2'	35:BA:1999:C:C6	2.33	0.63
50:BT:94:ALA:HB1	50:BT:99:LEU:HD23	1.81	0.63
56:BZ:150:LEU:HD23	56:BZ:171:ILE:HG13	1.80	0.63
56:BZ:4:ARG:HG2	56:BZ:58:VAL:O	1.98	0.63
56:BZ:3:TYR:C	56:BZ:57:ILE:HG23	2.19	0.63
39:BE:48:GLN:HG2	39:BE:78:LEU:HD12	1.81	0.63
54:BX:72:LYS:CE	54:BX:74:PRO:HB3	2.23	0.63
39:DE:36:ARG:HH22	39:DE:88:GLY:H	1.45	0.63
41:BG:19:LEU:HD21	41:BG:175:LEU:HD13	1.79	0.63
28:D2:20:GLU:O	28:D2:23:LYS:N	2.31	0.63
28:D2:26:ARG:HD3	54:DX:5:TYR:CD1	2.34	0.63
28:D2:52:ASP:O	28:D2:54:LYS:N	2.31	0.63
54:DX:54:VAL:C	54:DX:55:ASN:ND2	2.52	0.63
42:BH:86:GLU:H	42:BH:86:GLU:CD	2.02	0.63
52:DV:14:VAL:HG12	52:DV:15:GLU:H	1.64	0.63
35:DA:2469:A:H2	35:DA:2481:G:H21	1.46	0.63
27:D1:88:LYS:C	27:D1:90:ILE:N	2.46	0.63
34:D8:38:GLY:O	34:D8:39:LYS:HB3	1.97	0.63
27:B1:25:LYS:CB	27:B1:37:ILE:HD11	2.28	0.63
48:DR:9:LYS:HE3	48:DR:43:GLU:OE2	1.98	0.63
48:DR:74:LYS:O	48:DR:77:ARG:N	2.32	0.63
20:AT:37:SER:O	20:AT:40:ALA:HB3	1.99	0.63
35:BA:1453:U:H5'	48:BR:63:ARG:NE	2.14	0.63
2:AB:194:PRO:O	2:AB:196:LEU:N	2.29	0.63
44:BN:58:ASP:O	44:BN:60:ILE:N	2.30	0.63
15:CO:37:ASN:H	15:CO:37:ASN:ND2	1.95	0.63
6:AF:62:TRP:CB	18:AR:35:ARG:HH12	2.12	0.63
35:DA:565:C:O3'	52:DV:81:TYR:HE1	1.80	0.63
16:AP:6:LEU:HD12	16:AP:6:LEU:N	2.14	0.63
35:DA:2387:U:H5'	35:DA:2388:A:OP2	1.98	0.63
2:CB:115:LEU:HB2	2:CB:145:LEU:HD11	1.79	0.63
8:CH:88:LYS:HB3	8:CH:89:PRO:HD2	1.81	0.63
31:B5:49:CYS:HB2	31:B5:59:GLU:OE1	1.98	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:DP:130:PHE:N	46:DP:130:PHE:CD2	2.67	0.63
35:BA:543:C:N4	35:BA:551:G:N1	2.47	0.63
35:DA:492:A:H2'	35:DA:493:G:O4'	1.98	0.63
35:BA:2012:G:O2'	53:BW:96:ILE:HD11	1.99	0.63
38:DD:117:VAL:HG22	38:DD:118:VAL:H	1.61	0.63
17:CQ:60:ILE:HG12	17:CQ:61:GLU:O	1.98	0.63
35:DA:1300:U:H1'	35:DA:1626:G:C2	2.34	0.63
31:D5:25:LEU:CD1	53:DW:19:LEU:HB3	2.28	0.63
16:CP:82:GLN:NE2	16:CP:82:GLN:N	2.45	0.63
35:BA:1946:U:O2'	35:BA:1947:C:H5'	1.98	0.63
35:DA:863:A:O2'	35:DA:864:G:H5'	1.98	0.63
23:AW:11:A:H2'	23:AW:12:G:C8	2.33	0.63
35:BA:189:G:H2'	35:BA:205:G:H22	1.62	0.63
36:DB:65:C:C2'	36:DB:66:A:H5'	2.28	0.63
1:CA:245:C:O2'	1:CA:246:A:H5'	1.99	0.63
35:DA:2814:C:H2'	35:DA:2815:C:H6	1.61	0.63
10:CJ:32:ALA:H	10:CJ:78:ASN:CG	2.01	0.63
1:AA:1030(A):G:H1'	1:AA:1031:G:H1	1.63	0.63
1:CA:786:G:H1	1:CA:796:C:N4	1.97	0.63
3:CC:119:ARG:NH2	3:CC:140:ARG:CZ	2.62	0.63
39:BE:93:VAL:C	39:BE:95:ILE:H	2.02	0.63
35:BA:646:A:H2'	35:BA:647:G:O4'	1.98	0.63
1:AA:334:C:O2'	1:AA:335:C:H5'	1.98	0.63
9:CI:126:SER:O	9:CI:127:LYS:HB3	1.99	0.63
1:CA:865:A:H5'	1:CA:1078:U:H5	1.64	0.63
34:B8:32:LEU:O	34:B8:34:TRP:N	2.29	0.63
56:BZ:58:VAL:HG13	56:BZ:68:PRO:N	2.14	0.63
54:DX:55:ASN:HD22	54:DX:55:ASN:N	1.97	0.63
54:DX:81:VAL:HG12	54:DX:82:GLN:O	1.99	0.63
54:DX:81:VAL:HG13	54:DX:85:PRO:HB2	1.80	0.63
54:DX:83:VAL:O	54:DX:84:ALA:HB3	1.98	0.63
56:DZ:104:PHE:CE2	56:DZ:122:ARG:HA	2.34	0.63
56:DZ:28:MET:HE1	56:DZ:59:LEU:HD12	1.81	0.63
56:DZ:53:ILE:HG22	56:DZ:71:VAL:HB	1.81	0.63
35:DA:1150:C:O2'	35:DA:1151:G:H5'	1.99	0.63
51:DU:61:TRP:HB3	51:DU:93:LYS:O	1.98	0.63
10:AJ:5:ARG:HG3	10:AJ:73:ASP:OD1	1.99	0.63
4:CD:117:ALA:O	4:CD:121:VAL:HG23	1.99	0.63
4:CD:127:THR:CG2	4:CD:149:ALA:H	2.12	0.63
4:CD:56:VAL:O	4:CD:58:LEU:N	2.32	0.63
43:DI:140:LEU:HD12	43:DI:141:LYS:H	1.60	0.63
40:BF:114:VAL:CG2	40:BF:115:ALA:H	2.11	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BE:119:ARG:HD2	39:BE:120:TRP:NE1	2.14	0.63
55:BY:86:ARG:NH2	55:BY:95:LYS:HZ2	1.97	0.63
48:BR:20:LEU:HD12	48:BR:21:TYR:N	2.14	0.63
49:DS:88:ASP:OD2	49:DS:89:ARG:N	2.29	0.63
35:DA:811:U:H1'	35:DA:1251:C:C5'	2.29	0.63
35:DA:2065:C:H1'	35:DA:2449:U:H3	1.63	0.63
43:DI:96:ASP:HA	43:DI:99:GLU:HB3	1.81	0.63
27:B1:26:ARG:CB	27:B1:34:THR:OG1	2.46	0.63
1:CA:880:C:O2'	1:CA:881:G:H5'	1.99	0.63
2:CB:100:GLY:HA2	2:CB:103:THR:HB	1.80	0.63
13:AM:90:LEU:O	13:AM:92:HIS:N	2.29	0.63
1:AA:1149:C:H2'	1:AA:1150:U:H6	1.63	0.63
9:AI:71:SER:HA	9:AI:74:ILE:HD12	1.81	0.63
8:CH:1:MET:HE2	8:CH:2:LEU:N	2.13	0.63
46:DP:124:LYS:HA	46:DP:143:GLY:N	2.14	0.63
46:DP:99:LEU:HD12	46:DP:102:ARG:HD2	1.81	0.63
46:BP:126:VAL:HA	46:BP:145:PRO:CG	2.29	0.63
1:CA:123:C:OP1	1:CA:312:C:H5'	1.99	0.63
35:DA:1625:C:H2'	35:DA:1626:G:O4'	1.99	0.63
1:AA:237:C:H4'	17:AQ:25:ARG:NH1	2.13	0.63
1:CA:101:A:H2'	1:CA:102:G:H8	1.63	0.63
38:DD:155:LEU:O	38:DD:156:ALA:C	2.37	0.63
35:DA:1938:A:H2	35:DA:2590:A:H1'	1.64	0.63
5:CE:102:ALA:HB1	5:CE:106:PRO:CG	2.29	0.63
32:B6:32:ASN:ND2	32:B6:33:LYS:H	1.95	0.63
54:BX:68:ARG:HG3	54:BX:69:TYR:CD1	2.34	0.63
25:AY:73:GLN:HG3	25:AY:74:ASN:N	2.14	0.63
1:CA:903:G:H2'	1:CA:904:C:H6	1.62	0.63
7:CG:36:LYS:HA	7:CG:39:ALA:HB2	1.80	0.63
1:CA:1162:C:H2'	1:CA:1163:C:C6	2.33	0.63
3:AC:119:ARG:HH21	3:AC:140:ARG:CZ	2.12	0.63
35:DA:2609:U:H4'	35:DA:2609:U:OP1	1.97	0.63
35:BA:2197:U:H1'	35:BA:2198:A:C8	2.33	0.63
7:CG:42:ILE:HA	7:CG:45:ASP:HB2	1.79	0.63
45:DO:2:ILE:HD12	45:DO:6:THR:HG21	1.79	0.62
50:DT:48:ILE:HD12	50:DT:48:ILE:N	2.13	0.62
45:DO:77:ILE:HD12	50:DT:73:GLU:O	1.99	0.62
38:DD:227:ASN:HB3	38:DD:228:PRO:HD2	1.81	0.62
41:DG:109:VAL:HG12	41:DG:140:ILE:O	1.98	0.62
34:B8:46:ARG:O	34:B8:47:LYS:HB3	1.97	0.62
46:BP:66:GLY:O	46:BP:68:GLN:HG2	1.98	0.62
35:BA:1665:A:O2'	35:BA:1666:G:H5'	1.99	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
56:BZ:126:VAL:CA	56:BZ:164:ALA:HB3	2.29	0.62
56:BZ:58:VAL:HA	56:BZ:68:PRO:HA	1.81	0.62
39:BE:35:GLN:HE22	39:BE:37:ARG:NH2	1.97	0.62
35:BA:1159:U:H2'	35:BA:1160:G:H5'	1.79	0.62
44:BN:9:VAL:HG12	44:BN:10:GLU:N	2.14	0.62
52:BV:61:VAL:CG2	52:BV:100:ARG:HG2	2.29	0.62
54:BX:51:VAL:CG1	54:BX:80:ILE:H	2.12	0.62
35:BA:598:G:H5'	46:BP:15:ARG:HB2	1.80	0.62
46:BP:16:ARG:CZ	46:BP:18:ARG:HB2	2.29	0.62
27:D1:76:ARG:O	27:D1:77:ALA:HB3	1.99	0.62
35:BA:196:A:H5''	46:BP:46:LYS:NZ	2.13	0.62
40:DF:182:ASN:ND2	40:DF:185:ASP:OD2	2.32	0.62
35:DA:1275:A:C5	48:DR:16:HIS:ND1	2.68	0.62
48:DR:2:ARG:CZ	48:DR:5:LYS:HE3	2.28	0.62
48:DR:9:LYS:NZ	48:DR:42:LYS:HB3	2.13	0.62
1:AA:386:C:C2'	1:AA:387:U:H5'	2.29	0.62
20:AT:23:ARG:O	20:AT:27:LYS:HB2	1.98	0.62
49:DS:38:GLN:OE1	49:DS:47:THR:HG23	1.98	0.62
56:BZ:149:SER:HB3	56:BZ:173:ALA:CA	2.26	0.62
1:CA:661:G:H2'	1:CA:662:G:H8	1.64	0.62
2:CB:73:THR:HG22	2:CB:94:ASN:HA	1.79	0.62
40:DF:52:LYS:HD3	40:DF:57:VAL:HA	1.80	0.62
52:DV:71:LEU:HD13	52:DV:72:VAL:N	2.13	0.62
35:DA:692:C:O2'	35:DA:693:C:H5'	1.98	0.62
4:AD:79:PHE:HA	4:AD:93:PHE:CD2	2.34	0.62
12:AL:9:GLN:O	12:AL:11:VAL:N	2.32	0.62
47:DQ:71:ASP:O	47:DQ:73:PRO:HD3	1.99	0.62
18:AR:22:VAL:HA	18:AR:25:THR:OG1	1.99	0.62
50:BT:10:VAL:C	50:BT:12:SER:N	2.46	0.62
25:CY:169:ILE:O	25:CY:172:ALA:CB	2.47	0.62
1:AA:1227:A:OP2	13:AM:111:LYS:HE3	1.98	0.62
20:AT:100:ILE:HG22	20:AT:102:GLY:H	1.62	0.62
1:AA:16:A:N1	1:AA:919:A:H2	1.96	0.62
1:AA:924:C:H2'	1:AA:925:G:H8	1.64	0.62
9:AI:17:VAL:HG22	9:AI:63:ILE:HG23	1.81	0.62
38:BD:186:HIS:CD2	38:BD:188:GLU:H	2.14	0.62
23:AW:10:G:O5'	23:AW:10:G:H8	1.81	0.62
38:DD:120:GLY:O	38:DD:131:LEU:HB3	1.99	0.62
35:BA:18:C:H2'	35:BA:19:C:C6	2.32	0.62
1:CA:104:G:O2'	1:CA:105:G:H5'	1.99	0.62
35:BA:2777:G:H5''	35:BA:2778:A:H5''	1.81	0.62
26:D0:40:GLN:HE21	26:D0:43:THR:HA	1.64	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:580:U:H2'	1:AA:581:G:O4'	1.99	0.62
1:CA:943:U:H6	1:CA:943:U:O5'	1.82	0.62
35:DA:1428:C:N4	35:DA:1569:A:H3'	2.14	0.62
35:DA:230:U:H2'	35:DA:230:U:O2	1.97	0.62
12:CL:119:LYS:HB2	12:CL:120:TYR:HD1	1.63	0.62
35:DA:285:C:C2'	35:DA:286:C:H5''	2.27	0.62
3:AC:111:LEU:CD2	3:AC:146:ALA:HB2	2.29	0.62
38:DD:10:THR:HG23	38:DD:13:ARG:CB	2.28	0.62
1:AA:20:U:O2'	1:AA:21:G:H5'	1.99	0.62
35:DA:2111:C:H5'	35:DA:2112:G:OP1	1.98	0.62
1:CA:77:G:H1	1:CA:92:C:H42	1.47	0.62
36:BB:35:U:O2'	36:BB:36:C:H5'	1.99	0.62
43:BI:64:GLU:OE1	43:BI:67:ARG:HB2	1.99	0.62
47:DQ:60:ARG:C	47:DQ:60:ARG:HD3	2.19	0.62
35:BA:1434:A:H2'	35:BA:1435:G:C8	2.33	0.62
1:CA:519:C:H2'	1:CA:520:A:H8	1.64	0.62
45:DO:104:ARG:HH21	50:DT:33:LYS:HE3	1.63	0.62
41:DG:11:TYR:O	41:DG:13:GLU:N	2.33	0.62
41:DG:15:VAL:HG13	41:DG:175:LEU:CB	2.27	0.62
35:BA:1809:A:H2'	35:BA:1810:A:C8	2.33	0.62
41:DG:96:ARG:HA	41:DG:99:MET:CE	2.29	0.62
34:B8:38:GLY:O	34:B8:39:LYS:HB3	1.98	0.62
45:BO:77:ILE:HD12	50:BT:73:GLU:O	1.99	0.62
50:BT:91:ARG:O	50:BT:93:ARG:N	2.32	0.62
56:BZ:129:SER:HB3	56:BZ:132:ASN:ND2	2.14	0.62
51:BU:92:ARG:C	51:BU:94:ASN:H	2.01	0.62
39:DE:197:ILE:CD1	39:DE:199:ARG:HH22	2.12	0.62
34:D8:32:LEU:HD22	35:DA:2419:U:O5'	1.98	0.62
56:DZ:108:PRO:HB3	56:DZ:144:LEU:H	1.62	0.62
1:CA:1190:G:H8	3:CC:3:ASN:HD21	1.45	0.62
48:DR:12:ARG:O	48:DR:13:HIS:HB3	1.99	0.62
48:DR:60:LEU:HD23	48:DR:61:HIS:N	2.14	0.62
35:BA:2715:C:H2'	35:BA:2716:U:H6	1.64	0.62
34:D8:49:VAL:HB	34:D8:53:PRO:HD3	1.80	0.62
35:DA:834:C:H2'	35:DA:835:A:H8	1.64	0.62
55:DY:13:VAL:HG21	55:DY:28:LYS:HG2	1.80	0.62
43:DI:99:GLU:O	43:DI:103:ARG:HB2	1.99	0.62
19:CS:63:THR:HG22	19:CS:66:MET:CG	2.26	0.62
16:AP:68:ASP:O	16:AP:71:ARG:HB3	1.99	0.62
33:B7:15:THR:HG22	33:B7:16:HIS:CD2	2.34	0.62
1:AA:514:C:H42	1:AA:537:G:H1	1.45	0.62
12:AL:45:PRO:HB2	12:AL:49:ASN:O	1.99	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:586:C:O2'	1:CA:587:G:H5'	1.99	0.62
31:D5:46:CYS:HB3	31:D5:48:GLU:OE2	1.99	0.62
54:BX:65:ARG:NE	54:BX:66:LEU:H	1.97	0.62
42:BH:70:THR:CG2	42:BH:74:ASN:HD21	2.10	0.62
9:CI:17:VAL:HG22	9:CI:63:ILE:HG23	1.80	0.62
1:CA:312:C:H2'	1:CA:313:A:H8	1.63	0.62
1:AA:1457:G:H2'	1:AA:1458:G:C8	2.35	0.62
35:BA:1300:U:H1'	35:BA:1626:G:C2	2.34	0.62
17:CQ:95:TYR:O	17:CQ:97:SER:N	2.31	0.62
36:BB:82:G:H2'	36:BB:83:G:H8	1.64	0.62
35:BA:1324:G:H3'	35:BA:1325:G:C5'	2.30	0.62
39:BE:2:LYS:HE2	39:BE:95:ILE:HG22	1.80	0.62
1:AA:77:G:H1	1:AA:92:C:H42	1.46	0.62
1:AA:93:G:O2'	1:AA:96:U:H5'	1.99	0.62
1:CA:1205:U:O2'	3:CC:195:VAL:HG23	1.99	0.62
29:B3:1:MET:SD	29:B3:38:GLU:HG2	2.40	0.62
1:CA:1040:U:H2'	1:CA:1041:A:C8	2.35	0.62
6:AF:78:GLU:O	6:AF:81:ILE:HG13	1.99	0.62
35:DA:313:C:H2'	35:DA:314:A:H8	1.64	0.62
35:DA:1677:A:H2'	35:DA:1678:G:H8	1.61	0.62
38:BD:4:LYS:HZ1	38:BD:20:ASP:HA	1.62	0.62
38:DD:161:THR:O	38:DD:196:VAL:HG23	1.99	0.62
45:BO:46:ALA:H	45:BO:54:GLU:HG2	1.64	0.62
50:BT:28:VAL:HG21	50:BT:46:GLU:HA	1.81	0.62
56:BZ:28:MET:SD	56:BZ:37:VAL:HG11	2.39	0.62
51:BU:96:ALA:O	51:BU:98:LEU:N	2.32	0.62
35:BA:94(A):G:H2'	35:BA:95:G:C5'	2.26	0.62
54:BX:82:GLN:CD	54:BX:83:VAL:H	2.01	0.62
44:DN:46:VAL:HG22	44:DN:47:ALA:N	2.14	0.62
52:DV:3:ALA:CB	52:DV:14:VAL:HB	2.29	0.62
10:AJ:36:GLY:O	10:AJ:72:VAL:HG22	1.99	0.62
32:D6:11:LEU:CD1	32:D6:51:GLU:HB2	2.28	0.62
49:BS:38:GLN:OE1	49:BS:47:THR:HG23	1.99	0.62
44:BN:67:LEU:HA	44:BN:88:GLU:HG3	1.80	0.62
3:CC:134:ILE:HD11	3:CC:153:VAL:HG21	1.80	0.62
35:DA:631:A:O2'	46:DP:67:MET:HB3	1.99	0.62
35:BA:2030:A:H4'	35:BA:2031:A:H8	1.63	0.62
47:BQ:9:TYR:O	47:BQ:10:ARG:CG	2.43	0.62
44:DN:56:ASN:HA	44:DN:125:GLY:H	1.64	0.62
44:BN:57:ALA:O	44:BN:58:ASP:O	2.17	0.62
1:CA:834:C:H2'	1:CA:835:U:C6	2.34	0.62
1:CA:1511:G:C6	1:CA:1512:U:N3	2.68	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:510:C:H2'	35:DA:511:U:O4'	2.00	0.62
1:AA:1325:C:O2	1:AA:1325:C:C2'	2.47	0.62
16:AP:49:LEU:HD12	16:AP:50:LYS:H	1.64	0.62
1:CA:222:U:H2'	1:CA:223:U:C6	2.34	0.62
7:CG:91:VAL:HG13	7:CG:95:ARG:HD3	1.80	0.62
33:B7:29:LYS:O	33:B7:32:LYS:HB3	1.99	0.62
35:BA:1428:C:N4	35:BA:1569:A:H3'	2.13	0.62
55:BY:38:ILE:HG22	55:BY:39:VAL:N	2.14	0.62
46:DP:16:ARG:NH1	46:DP:18:ARG:HG3	2.15	0.62
9:CI:111:ARG:O	9:CI:119:ALA:HB1	2.00	0.62
8:AH:26:VAL:HG22	8:AH:32:LYS:HZ3	1.64	0.62
1:AA:1342:C:H1'	9:AI:124:GLN:NE2	2.14	0.62
35:DA:543:C:N4	35:DA:551:G:N1	2.47	0.62
46:DP:126:VAL:HA	46:DP:145:PRO:CB	2.28	0.62
46:BP:111:ARG:HG3	46:BP:128:HIS:ND1	2.14	0.62
20:CT:23:ARG:O	20:CT:27:LYS:HB2	1.99	0.62
29:B3:45:GLY:HA3	35:BA:851:U:O2'	1.98	0.62
57:DC:58:VAL:HG21	57:DC:166:ASP:N	2.14	0.62
1:AA:597:G:C2'	1:AA:598:U:H5'	2.29	0.62
1:AA:1329:A:OP1	13:AM:28:ALA:HB3	1.98	0.62
9:AI:10:ARG:NH2	9:AI:107:ARG:HD3	2.14	0.62
15:AO:53:HIS:CE1	15:AO:57:LEU:HD21	2.35	0.62
35:DA:863:A:C2'	35:DA:864:G:H5'	2.28	0.62
35:DA:2775:A:O2'	35:DA:2776:A:H5'	1.98	0.62
35:DA:1192:G:O2'	35:DA:1193:G:H5'	1.98	0.62
1:AA:1126:U:H2'	1:AA:1127:G:H8	1.63	0.62
1:AA:783:C:C5	1:AA:784:C:H5	2.16	0.62
35:DA:1760:A:O2'	35:DA:1761:C:H5'	1.99	0.62
7:CG:11:GLN:HE21	7:CG:12:LEU:H	1.47	0.62
1:CA:357:G:OP1	1:CA:367:U:H5''	1.99	0.62
53:DW:95:ILE:O	53:DW:95:ILE:HG13	1.99	0.62
35:DA:2866:U:C5	35:DA:2868:A:H1'	2.34	0.62
41:DG:16:ARG:HB3	41:DG:17:PRO:HD3	1.81	0.62
38:DD:206:LEU:HA	38:DD:211:ARG:NH1	2.14	0.62
39:DE:5:LEU:HD22	39:DE:197:ILE:HG22	1.81	0.62
41:BG:41:GLN:C	41:BG:43:LEU:H	2.02	0.62
1:CA:503:C:H2'	1:CA:504:C:H6	1.62	0.62
35:DA:2413:G:H21	46:DP:70:GLN:HE21	1.46	0.62
39:BE:134:ILE:N	39:BE:134:ILE:HD13	2.14	0.62
39:BE:120:TRP:CE2	39:BE:155:LYS:HB3	2.34	0.62
52:BV:89:GLN:HE21	52:BV:89:GLN:HA	1.65	0.62
35:DA:2710:C:OP1	48:DR:15:SER:HB2	2.00	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
50:BT:96:ARG:HG3	50:BT:98:LYS:O	1.99	0.62
44:BN:58:ASP:O	44:BN:60:ILE:HG13	1.99	0.62
1:AA:404:U:H2'	1:AA:405:U:C6	2.34	0.62
1:AA:880:C:OP2	12:AL:6:THR:HG21	1.99	0.62
25:AY:64:ARG:HH21	25:AY:103:ILE:HD11	1.64	0.62
7:CG:93:PRO:HA	7:CG:96:GLN:NE2	2.14	0.62
55:BY:28:LYS:CA	55:BY:39:VAL:H	2.12	0.62
55:BY:42:VAL:HB	55:BY:65:ALA:HB3	1.81	0.62
18:AR:53:ARG:NH2	18:AR:60:ALA:N	2.45	0.62
8:CH:11:THR:HA	8:CH:14:ARG:HH12	1.63	0.62
5:AE:147:ASP:HA	5:AE:150:ARG:HD2	1.79	0.62
16:AP:14:ASN:N	16:AP:15:PRO:CD	2.62	0.62
35:DA:64:A:H2'	35:DA:65:C:H6	1.64	0.62
46:DP:126:VAL:HA	46:DP:145:PRO:CG	2.28	0.62
1:CA:1438:G:H2'	1:CA:1439:C:H6	1.62	0.62
35:BA:863:A:O2'	35:BA:864:G:H5'	1.98	0.62
35:DA:1424:G:H2'	35:DA:1425:G:O4'	1.99	0.62
53:BW:12:ILE:CD1	53:BW:42:ARG:HH11	2.13	0.62
7:AG:11:GLN:NE2	7:AG:12:LEU:H	1.96	0.62
25:AY:108:GLU:HA	25:AY:111:ARG:HG3	1.81	0.62
35:BA:881:G:N2	35:BA:896:A:H62	1.96	0.62
6:AF:98:LEU:H	6:AF:98:LEU:HD12	1.63	0.62
1:AA:1355:G:H2'	1:AA:1356:G:C8	2.34	0.62
1:CA:702:A:H3'	1:CA:703:G:H5'	1.81	0.62
35:DA:2712:U:H1'	35:DA:2712(A):A:H8	1.64	0.62
38:BD:264:LYS:HG3	38:BD:265:PRO:HD2	1.81	0.62
38:DD:209:ALA:C	38:DD:210:GLY:O	2.35	0.62
38:DD:94:LEU:H	38:DD:94:LEU:CD1	2.06	0.62
41:DG:142:PRO:HG2	41:DG:143:GLU:H	1.64	0.62
35:BA:2562:U:C2'	35:BA:2563:U:H5'	2.28	0.62
50:BT:27:THR:OG1	50:BT:87:ASP:HA	2.00	0.62
47:BQ:29:PHE:HB2	47:BQ:65:PHE:CE2	2.34	0.62
9:AI:114:TYR:CE1	10:AJ:59:SER:HA	2.34	0.62
28:B2:41:ILE:O	28:B2:42:GLY:C	2.38	0.62
41:BG:41:GLN:NE2	41:BG:153:ARG:HB3	2.14	0.62
3:CC:53:ALA:HB2	3:CC:115:LEU:CD2	2.30	0.62
27:D1:76:ARG:HD3	27:D1:78:LYS:NZ	2.14	0.62
40:BF:88:VAL:HG22	40:BF:89:VAL:N	2.13	0.62
46:BP:45:LEU:HD23	46:BP:46:LYS:N	2.14	0.62
48:BR:45:ARG:HG3	48:BR:46:GLY:N	2.10	0.62
2:AB:168:THR:HG21	2:AB:191:ASP:OD1	1.99	0.62
44:BN:32:THR:HG22	44:BN:37:LYS:HB3	1.82	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:910:A:H62	47:DQ:12:GLN:HA	1.65	0.62
6:AF:21:LEU:HA	6:AF:24:GLU:HG2	1.82	0.62
18:AR:38:GLU:O	18:AR:41:LYS:HB3	2.00	0.62
2:AB:144:ARG:O	2:AB:147:LYS:HB3	1.98	0.62
12:CL:25:PRO:HD2	12:CL:98:TYR:OH	1.99	0.62
1:CA:1443:G:H8	1:CA:1443:G:OP2	1.83	0.62
12:AL:83:VAL:CG2	12:AL:84:LEU:H	2.09	0.62
8:CH:119:LEU:N	8:CH:119:LEU:CD2	2.63	0.62
1:AA:222:U:H2'	1:AA:223:U:C6	2.34	0.62
8:AH:36:LEU:O	8:AH:39:LEU:HB3	1.98	0.62
8:CH:39:LEU:O	8:CH:44:PHE:HB2	2.00	0.62
4:AD:145:GLU:HG2	4:AD:184:LYS:CG	2.26	0.62
42:BH:41:MET:CE	42:BH:55:PRO:HD2	2.29	0.62
9:CI:4:TYR:HB2	9:CI:19:LEU:HD12	1.81	0.62
1:AA:1168:A:H2'	1:AA:1169:A:C8	2.35	0.62
56:BZ:107:THR:HG21	56:BZ:111:VAL:HG11	1.82	0.62
15:AO:11:VAL:HG21	15:AO:34:LEU:HD23	1.80	0.62
35:DA:380:U:H2'	35:DA:381:G:H8	1.65	0.62
1:CA:1329:A:OP1	13:CM:28:ALA:HB3	1.98	0.62
2:CB:24:TRP:CG	2:CB:25:ASN:N	2.67	0.62
2:AB:19:HIS:N	2:AB:39:ILE:HG21	2.15	0.62
2:AB:28:PHE:CE1	2:AB:31:TYR:HB2	2.35	0.62
10:AJ:32:ALA:H	10:AJ:78:ASN:CG	2.02	0.62
1:AA:67:C:H2'	1:AA:68:G:H8	1.63	0.62
1:AA:473:G:H5''	16:AP:81:ARG:HE	1.65	0.62
39:BE:115:GLY:HA2	39:BE:157:ALA:HB1	1.82	0.62
35:DA:1350:C:O2'	35:DA:1351:C:H5'	2.00	0.62
35:BA:1760:A:O2'	35:BA:1761:C:H5'	1.99	0.62
2:AB:132:LYS:O	2:AB:135:GLN:HB2	2.00	0.62
1:AA:1246:C:H2'	1:AA:1247:U:C6	2.35	0.62
35:BA:1350:C:O2'	35:BA:1351:C:H5'	1.99	0.62
45:DO:26:LYS:HB2	45:DO:30:ALA:HB2	1.81	0.62
38:DD:57:GLY:HA2	38:DD:214:TRP:O	1.99	0.62
35:BA:2759:G:O2'	35:BA:2760:C:H5'	1.99	0.62
41:DG:107:LEU:HA	41:DG:111:LEU:HD12	1.81	0.62
45:BO:105:GLU:HA	45:BO:108:GLU:CG	2.29	0.62
44:BN:10:GLU:CG	44:BN:11:PRO:HD2	2.30	0.62
51:BU:64:ARG:NH2	51:BU:64:ARG:CB	2.61	0.62
42:DH:86:GLU:HA	42:DH:132:ARG:HB3	1.82	0.62
44:BN:62:VAL:HG22	44:BN:66:LYS:HG3	1.80	0.62
46:DP:66:GLY:O	46:DP:68:GLN:N	2.33	0.62
35:BA:26:G:HI'	35:BA:515:A:N6	2.12	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1190:G:O5'	46:BP:35:HIS:HA	2.00	0.62
40:DF:28:ILE:N	40:DF:28:ILE:HD13	2.15	0.62
35:DA:2707:G:H2'	35:DA:2708:G:C8	2.34	0.62
41:DG:29:TRP:C	41:DG:31:VAL:N	2.50	0.62
2:AB:51:LEU:HB3	2:AB:55:PHE:HE2	1.65	0.62
35:DA:585:G:H2'	35:DA:1251:C:N4	2.13	0.62
35:DA:1190:G:H4'	46:DP:35:HIS:CB	2.29	0.62
4:AD:104:VAL:HG21	4:AD:140:VAL:HG21	1.80	0.62
19:AS:6:LYS:CD	19:AS:7:LYS:HD2	2.30	0.62
43:DI:130:TYR:HB2	43:DI:136:VAL:HG13	1.82	0.62
25:CY:29:ARG:HB2	25:CY:32:ARG:NH2	2.15	0.62
25:CY:3:LEU:CD1	25:CY:3:LEU:N	2.62	0.62
25:CY:130:ARG:NH2	35:DA:1943:U:OP1	2.31	0.62
12:AL:24:VAL:HG13	12:AL:98:TYR:HE2	1.65	0.62
35:BA:2019:A:H4'	51:BU:34:LYS:HD2	1.82	0.62
55:BY:36:ALA:HB1	55:BY:67:LEU:O	1.99	0.62
11:AK:87:THR:HA	11:AK:91:ARG:HG3	1.81	0.62
18:AR:58:LEU:HD12	18:AR:58:LEU:N	2.08	0.62
1:CA:1195:C:H5''	1:CA:1196:U:OP2	1.99	0.62
9:CI:50:LEU:HB3	9:CI:55:ALA:HB3	1.81	0.62
46:BP:112:LEU:C	46:BP:112:LEU:HD13	2.20	0.62
7:CG:135:VAL:O	7:CG:138:LYS:HB3	1.99	0.62
35:DA:709:U:H2'	35:DA:710:G:C8	2.35	0.62
32:D6:39:TYR:CE1	35:DA:2347:C:H4'	2.31	0.62
1:AA:472:A:H1'	16:AP:82:GLN:OE1	2.00	0.62
35:BA:971:C:H2'	35:BA:972:G:O4'	2.00	0.62
9:AI:105:ASP:HB3	9:AI:107:ARG:HG3	1.82	0.62
35:BA:1289:C:H2'	35:BA:1290:C:C6	2.35	0.62
36:DB:82:G:H2'	36:DB:83:G:H8	1.64	0.62
1:CA:556:C:O2'	1:CA:557:G:H5'	1.99	0.62
7:CG:150:ALA:C	7:CG:152:ALA:H	2.02	0.62
7:AG:36:LYS:HA	7:AG:39:ALA:HB2	1.81	0.62
46:DP:86:LYS:HB3	46:DP:117:GLU:C	2.20	0.62
35:DA:1515:G:C2'	35:DA:1516:C:H5'	2.29	0.62
35:BA:1344:G:H4'	35:BA:1384:A:C5	2.34	0.62
35:DA:632:A:H2'	35:DA:633:A:C8	2.34	0.62
1:AA:1040:U:H2'	1:AA:1041:A:C8	2.35	0.62
1:AA:702:A:H3'	1:AA:703:G:H5'	1.81	0.62
1:CA:447:G:N2	1:CA:488:C:H42	1.98	0.62
35:DA:2866:U:C6	35:DA:2868:A:H1'	2.35	0.62
39:DE:24:THR:CG2	39:DE:184:VAL:HG23	2.27	0.62
38:BD:206:LEU:HA	38:BD:211:ARG:NH1	2.14	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:DG:111:LEU:HA	41:DG:114:ILE:CD1	2.29	0.62
10:CJ:4:ILE:CB	10:CJ:74:ILE:HD11	2.28	0.62
35:BA:2864:G:H5'	35:BA:2864:G:H8	1.63	0.62
1:AA:1064:G:H1'	1:AA:1065:U:H5''	1.82	0.62
44:BN:110:GLY:HA2	44:BN:114:ARG:NH2	2.15	0.62
51:DU:102:GLU:O	51:DU:105:VAL:HG23	2.00	0.62
51:DU:64:ARG:NH2	51:DU:64:ARG:CB	2.58	0.62
52:DV:19:LYS:HB3	52:DV:96:ILE:O	2.00	0.62
35:BA:2334:G:H5'	49:BS:13:ARG:CG	2.25	0.62
4:CD:126:ILE:HG22	4:CD:127:THR:N	2.14	0.62
35:BA:1018:C:O2'	35:BA:1019:U:H5'	2.00	0.62
46:DP:70:GLN:HG3	46:DP:71:VAL:H	1.65	0.62
27:D1:85:LEU:CB	27:D1:87:PRO:HD3	2.29	0.62
35:BA:993:G:H5'	52:BV:75:PHE:CZ	2.35	0.62
48:DR:37:THR:CG2	48:DR:40:LYS:HE2	2.30	0.62
3:AC:182:ILE:HG23	3:AC:203:PHE:HA	1.82	0.62
35:DA:8:A:C4	35:DA:9:U:C5	2.86	0.62
15:CO:28:GLN:O	15:CO:32:LEU:HG	1.99	0.62
55:DY:36:ALA:HB1	55:DY:67:LEU:O	2.00	0.62
25:CY:132:ILE:O	25:CY:133:ARG:C	2.38	0.62
43:BI:4:ILE:HA	43:BI:17:GLN:O	2.00	0.62
25:AY:122:ALA:O	25:AY:126:ARG:HG3	2.00	0.62
23:CW:3:C:C2'	23:CW:4:G:H5''	2.23	0.62
25:AY:147:LEU:HD23	25:AY:148:HIS:N	2.14	0.62
1:AA:710:G:H5''	6:AF:54:LYS:HE3	1.81	0.62
46:DP:16:ARG:CZ	46:DP:18:ARG:HB2	2.30	0.62
1:AA:1348:U:H4'	9:AI:120:ARG:HD2	1.82	0.62
45:DO:120:GLU:HG3	45:DO:122:LEU:HD11	1.81	0.62
53:DW:11:ARG:HH22	53:DW:98:LYS:HB3	1.64	0.62
7:CG:113:GLU:CB	7:CG:119:ARG:HG2	2.30	0.62
19:CS:53:ASN:ND2	19:CS:55:LYS:H	1.98	0.62
11:CK:99:GLN:HE22	11:CK:105:VAL:HG11	1.65	0.62
42:BH:137:ASP:O	42:BH:138:LYS:HB2	2.00	0.62
1:CA:386:C:C2'	1:CA:387:U:H5'	2.30	0.62
29:D3:45:GLY:HA3	35:DA:851:U:O2'	1.99	0.62
35:DA:523:C:O2'	35:DA:524:U:H5'	2.00	0.62
1:AA:174:C:O2'	1:AA:175:C:H5'	2.00	0.62
36:DB:91:C:H2'	36:DB:92:C:C6	2.34	0.62
35:DA:2544:G:H2'	35:DA:2545:G:H8	1.63	0.62
35:DA:2292:C:O2'	35:DA:2293:C:H5'	1.99	0.62
44:BN:129:PRO:O	44:BN:130:HIS:HB3	2.00	0.62
35:DA:755:C:H2'	35:DA:756:C:H6	1.65	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:796:C:H2'	35:DA:797:C:H6	1.64	0.62
1:AA:796:C:P	11:AK:123:LYS:HZ2	2.23	0.62
1:CA:1206:G:O4'	3:CC:194:GLY:HA2	2.00	0.62
1:CA:189(H):G:H2'	1:CA:189(I):G:H8	1.63	0.62
56:BZ:9:TYR:HE2	56:BZ:35:ARG:HD2	1.65	0.62
8:CH:18:ARG:H	8:CH:78:GLN:NE2	1.97	0.62
17:CQ:76:LEU:HD12	17:CQ:77:VAL:H	1.65	0.62
1:AA:1007:C:H2'	1:AA:1008:C:C6	2.35	0.62
35:BA:271(J):C:H2'	35:BA:271(K):U:H5''	1.82	0.62
17:AQ:77:VAL:O	17:AQ:78:GLU:HB3	1.98	0.62
35:DA:881:G:N2	35:DA:896:A:H62	1.96	0.62
35:BA:805:G:H22	35:BA:828:U:H5''	1.64	0.62
35:BA:1330:C:O2'	35:BA:1331:A:H5'	2.00	0.62
25:CY:59:THR:O	25:CY:66:LEU:HD12	1.99	0.62
41:DG:7:LEU:CA	41:DG:10:LYS:HB2	2.25	0.62
38:DD:229:VAL:HG23	38:DD:230:ASP:N	2.15	0.62
56:BZ:125:LEU:C	56:BZ:126:VAL:HG22	2.20	0.62
39:DE:142:GLY:C	39:DE:143:ASN:ND2	2.53	0.62
54:BX:83:VAL:O	54:BX:84:ALA:HB3	2.00	0.62
30:B4:14:ILE:CB	41:BG:5:VAL:HG13	2.30	0.62
34:B8:8:LYS:HB3	34:B8:12:LYS:HE3	1.81	0.62
35:DA:2040:C:H2'	35:DA:2041:U:C6	2.34	0.62
49:BS:24:LEU:HB2	49:BS:85:VAL:HB	1.80	0.62
1:CA:403:C:O2'	1:CA:404:U:H5'	1.99	0.62
4:CD:12:CYS:SG	4:CD:19:LEU:O	2.57	0.62
43:DI:88:ILE:HG22	43:DI:89:TYR:N	2.13	0.62
40:BF:181:LEU:HG	40:BF:186:ILE:HD11	1.81	0.62
55:BY:90:LEU:HG	55:BY:91:GLU:HG2	1.80	0.62
3:AC:43:LEU:CD2	3:AC:47:LEU:HD22	2.21	0.62
41:DG:25:TYR:CD1	41:DG:30:GLU:HG3	2.35	0.62
2:AB:72:GLY:HA3	2:AB:165:VAL:HG22	1.82	0.62
2:CB:168:THR:HG23	2:CB:192:SER:OG	1.99	0.62
40:DF:81:PRO:HG2	40:DF:82:ILE:H	1.65	0.62
35:DA:685:A:C4	35:DA:689:A:N6	2.67	0.62
4:AD:127:THR:CG2	4:AD:149:ALA:H	2.12	0.62
55:DY:31:LEU:CB	55:DY:36:ALA:H	2.13	0.62
1:AA:542:G:H2'	1:AA:543:C:H6	1.62	0.62
25:CY:123:GLU:O	25:CY:124:GLU:C	2.38	0.62
1:AA:376:G:OP2	16:AP:67:THR:HG21	1.99	0.62
11:CK:44:SER:O	11:CK:47:VAL:HB	1.99	0.62
5:CE:147:ASP:HA	5:CE:150:ARG:HD2	1.81	0.62
40:BF:161:GLU:O	40:BF:164:ARG:HB2	1.99	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:492:A:H2'	35:BA:493:G:O4'	2.00	0.62
13:AM:19:LEU:CA	13:AM:22:ILE:HD13	2.28	0.62
44:DN:107:LEU:HD12	44:DN:108:PRO:O	1.99	0.62
1:AA:460:G:H21	1:AA:472:A:H62	1.48	0.62
35:DA:1703:G:H2'	35:DA:1704:G:C8	2.34	0.62
1:AA:1495:U:O2'	1:AA:1496:C:H5'	2.00	0.62
54:DX:89:ILE:HG22	54:DX:89:ILE:O	1.99	0.62
27:B1:20:ARG:HH22	27:B1:41:ARG:HE	1.46	0.62
35:BA:2103:C:H3'	35:BA:2104:G:H5''	1.82	0.62
23:CW:43:G:H2'	23:CW:44:A:H5''	1.82	0.62
35:BA:1344:G:H4'	35:BA:1384:A:N7	2.14	0.62
35:DA:2368:C:H2'	35:DA:2369:A:H8	1.65	0.62
35:DA:736:C:H2'	35:DA:737:C:H6	1.65	0.62
36:DB:35:U:O2'	36:DB:36:C:H5'	1.99	0.62
25:CY:55:ILE:HD12	25:CY:55:ILE:N	2.15	0.62
35:BA:437:G:O2'	35:BA:438:G:H5'	1.98	0.62
50:DT:23:ARG:HG2	50:DT:120:ARG:HH12	1.64	0.62
1:CA:950:U:H2'	1:CA:951:G:C8	2.34	0.62
1:CA:963:G:N2	10:CJ:55:LYS:HZ3	1.96	0.62
35:BA:1567:A:H2'	38:BD:84:TYR:CE2	2.29	0.62
35:DA:1790:C:H2'	35:DA:1791:A:C8	2.35	0.62
38:DD:36:PRO:CG	38:DD:61:LEU:HD21	2.27	0.62
41:DG:76:SER:HB3	41:DG:83:ARG:HB3	1.81	0.62
35:DA:2570:G:H2'	35:DA:2571:C:H6	1.63	0.62
35:BA:74:A:H4'	35:BA:75:G:O5'	2.00	0.62
56:DZ:108:PRO:HB3	56:DZ:142:SER:O	2.00	0.62
51:DU:58:ARG:HA	51:DU:61:TRP:CE3	2.35	0.62
1:CA:1064:G:H1'	1:CA:1065:U:H5''	1.81	0.62
4:CD:9:CYS:SG	4:CD:31:CYS:O	2.58	0.62
47:BQ:103:MET:CE	47:BQ:125:LEU:HD21	2.29	0.62
35:BA:1246:A:OP2	46:BP:16:ARG:NH2	2.33	0.62
40:BF:96:ASP:OD1	40:BF:98:SER:HB3	1.99	0.62
34:B8:59:LYS:C	34:B8:61:LEU:N	2.53	0.62
35:BA:2078:C:H2'	35:BA:2079:U:C6	2.35	0.62
51:BU:13:LYS:O	51:BU:16:LYS:HB3	1.99	0.62
51:BU:44:ASN:O	51:BU:47:TYR:HB3	2.00	0.62
35:BA:1278:A:H5''	48:BR:36:THR:HG22	1.81	0.62
35:DA:2241:A:H2'	35:DA:2242:G:C8	2.34	0.62
2:CB:69:LEU:HB2	2:CB:159:PRO:HG2	1.82	0.62
2:CB:72:GLY:CA	2:CB:165:VAL:HG22	2.30	0.62
4:AD:155:LEU:HB2	4:AD:158:ILE:HB	1.81	0.62
4:AD:176:LEU:HG	4:AD:177:ASP:N	2.12	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1411:C:H2'	1:AA:1412:C:C6	2.35	0.62
1:AA:1106:G:H2'	1:AA:1107:C:H6	1.65	0.62
1:CA:1226:C:H2'	13:CM:103:THR:OG1	2.00	0.62
35:BA:755:C:H2'	35:BA:756:C:H6	1.65	0.62
25:AY:179:LYS:O	25:AY:183:ILE:HG13	2.00	0.62
25:AY:84:ARG:C	25:AY:86:SER:H	2.03	0.62
43:BI:129:THR:OG1	43:BI:135:GLU:HB3	2.00	0.62
35:DA:1049:C:H2'	35:DA:1050:A:H8	1.64	0.62
42:DH:67:LEU:O	42:DH:71:LEU:HD22	2.00	0.62
8:CH:122:ARG:HA	8:CH:125:ARG:CB	2.28	0.62
7:AG:146:GLU:HA	7:AG:149:ARG:HB2	1.80	0.62
13:AM:91:ARG:HH11	19:AS:81:ARG:NH2	1.87	0.62
35:DA:598:G:H5'	46:DP:15:ARG:HB2	1.80	0.62
56:DZ:76:LEU:HA	56:DZ:84:GLU:H	1.65	0.62
35:DA:2175:C:H2'	35:DA:2176:A:C5'	2.29	0.62
35:BA:541:C:H2'	35:BA:542:C:C5	2.34	0.62
35:BA:2830:G:C5'	39:BE:58:ARG:HH22	2.12	0.62
35:DA:1114:G:H2'	35:DA:1115:G:C5'	2.30	0.62
2:AB:102:LEU:O	2:AB:105:PHE:HB2	2.00	0.62
7:CG:50:ILE:HG22	7:CG:56:GLN:O	1.98	0.62
38:BD:143:HIS:CE1	38:BD:192:THR:HG23	2.35	0.62
1:CA:1281:U:H4'	1:CA:1282:C:OP2	2.00	0.62
35:BA:268:C:N4	35:BA:424:G:H1	1.97	0.62
1:AA:1090:U:H2'	1:AA:1091:U:H6	1.65	0.62
35:DA:2103:C:H3'	35:DA:2104:G:H5''	1.81	0.62
1:CA:280:C:C2	17:CQ:38:ARG:HG3	2.35	0.62
1:AA:148:G:H1	1:AA:174:C:H42	1.46	0.62
10:CJ:94:VAL:HG12	10:CJ:95:GLU:N	2.15	0.62
35:DA:648:G:H2'	35:DA:649:G:C8	2.34	0.62
39:DE:38:THR:C	39:DE:40:GLU:H	2.03	0.62
1:CA:783:C:C5	1:CA:784:C:H5	2.17	0.62
35:BA:64:A:H2'	35:BA:65:C:C6	2.35	0.62
4:AD:19:LEU:HD23	4:AD:67:ILE:HA	1.82	0.62
35:BA:1518:U:H2'	35:BA:1519:G:O4'	2.00	0.62
1:AA:294:U:H2'	1:AA:295:C:C6	2.34	0.62
35:DA:841:A:H2'	35:DA:842:G:C8	2.35	0.62
9:CI:48:GLU:N	9:CI:49:PRO:HD2	2.15	0.62
1:CA:652:U:H1'	1:CA:653:A:H2	1.64	0.62
1:CA:1267:C:O2	1:CA:1267:C:H2'	2.00	0.62
6:AF:28:ARG:HH11	6:AF:28:ARG:HG3	1.65	0.62
3:AC:92:ALA:N	3:AC:99:VAL:HG21	2.14	0.62
35:DA:2723:C:H2'	35:DA:2724:C:H5'	1.82	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
45:DO:68:GLU:HB3	45:DO:78:ARG:HB2	1.82	0.62
50:DT:28:VAL:HG21	50:DT:46:GLU:HA	1.81	0.62
38:BD:260:ARG:HH11	38:BD:260:ARG:HG2	1.64	0.62
1:CA:16:A:N1	1:CA:919:A:H2	1.98	0.62
5:CE:12:LEU:HD13	5:CE:12:LEU:H	1.65	0.62
47:DQ:35:VAL:HG12	47:DQ:130:LYS:HB3	1.80	0.62
39:BE:11:MET:H	50:BT:8:LYS:HZ1	1.46	0.62
31:D5:4:HIS:O	35:DA:2056:G:N2	2.33	0.62
52:BV:14:VAL:HG12	52:BV:15:GLU:N	2.14	0.62
54:BX:32:PRO:HD3	54:BX:72:LYS:NZ	2.15	0.62
35:DA:2893:G:C5'	35:DA:2894:G:H5'	2.13	0.62
41:BG:168:GLU:O	41:BG:171:ALA:HB3	1.99	0.62
35:DA:76:C:H2'	35:DA:77:C:H6	1.64	0.62
34:D8:32:LEU:O	34:D8:34:TRP:N	2.32	0.62
34:D8:34:TRP:O	34:D8:35:GLN:HB2	1.98	0.62
42:BH:146:ALA:O	42:BH:147:ASN:C	2.38	0.62
10:AJ:6:ILE:O	10:AJ:71:LEU:HD12	2.00	0.62
35:BA:1754:C:H5'	50:BT:101:PHE:CE1	2.34	0.62
2:AB:54:THR:O	2:AB:58:ILE:HG13	1.99	0.62
44:BN:16:ILE:HG23	44:BN:54:VAL:CG2	2.30	0.62
45:BO:111:PHE:HB3	45:BO:114:ILE:CD1	2.27	0.62
19:AS:11:VAL:CG2	19:AS:16:LEU:HD11	2.30	0.62
2:AB:115:LEU:HB2	2:AB:145:LEU:HD11	1.82	0.62
3:AC:173:VAL:N	3:AC:174:PRO:HD3	2.15	0.62
2:CB:97:TRP:HH2	2:CB:176:GLU:HB2	1.64	0.62
11:CK:62:GLN:O	11:CK:64:ALA:N	2.32	0.62
8:AH:119:LEU:H	8:AH:119:LEU:HD23	1.65	0.62
9:CI:116:LYS:O	9:CI:118:LYS:N	2.33	0.62
35:DA:744:G:OP1	39:DE:132:HIS:HB3	2.00	0.62
35:DA:2887:U:O2'	35:DA:2888:C:H5'	1.99	0.62
35:DA:2538:C:C2'	35:DA:2539:C:H5'	2.29	0.62
9:CI:4:TYR:CD1	9:CI:4:TYR:N	2.68	0.62
38:BD:186:HIS:HB3	38:BD:189:CYS:SG	2.39	0.62
1:CA:375:U:H2'	1:CA:376:G:C8	2.34	0.62
3:AC:70:VAL:HG12	3:AC:72:LYS:H	1.63	0.62
17:AQ:94:ASN:O	17:AQ:97:SER:OG	2.16	0.62
35:BA:1925:C:C2'	35:BA:1926:U:H5'	2.30	0.62
35:BA:2795:G:C2	35:BA:2799:C:H5'	2.35	0.62
36:BB:20:C:C2'	36:BB:21:G:H5''	2.27	0.62
5:CE:91:LEU:HG	5:CE:120:THR:HG22	1.82	0.62
35:BA:851:U:H2'	35:BA:852:G:C8	2.31	0.62
35:BA:853:G:H2'	35:BA:854:G:H8	1.64	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1366:A:H2'	35:BA:1367:A:C8	2.34	0.62
1:CA:892:A:H2'	1:CA:893:C:H6	1.65	0.62
22:CV:28:G:O2'	22:CV:29:G:H5'	2.00	0.62
35:BA:2056:G:N2	35:BA:2057:A:H1'	2.15	0.62
8:AH:18:ARG:H	8:AH:78:GLN:NE2	1.97	0.62
45:BO:26:LYS:HB2	45:BO:30:ALA:HB2	1.81	0.62
1:AA:110:C:H2'	1:AA:111:G:O4'	2.00	0.62
50:DT:91:ARG:O	50:DT:93:ARG:N	2.32	0.61
43:BI:88:ILE:CG2	43:BI:89:TYR:H	2.12	0.61
38:BD:224:ALA:HB2	38:BD:233:HIS:HB3	1.80	0.61
45:BO:80:ASP:O	45:BO:81:ASP:HB3	1.99	0.61
52:BV:96:ILE:CG2	52:BV:97:LYS:N	2.62	0.61
54:BX:60:ARG:HG2	54:BX:74:PRO:CD	2.24	0.61
41:BG:69:ALA:CB	41:BG:91:ARG:HE	2.13	0.61
35:DA:332:A:H4'	35:DA:333:G:OP1	1.99	0.61
35:DA:93:G:H2'	35:DA:94:C:H6	1.64	0.61
35:DA:94(A):G:H2'	35:DA:95:G:C5'	2.26	0.61
51:DU:106:PHE:O	51:DU:110:VAL:HG23	2.00	0.61
4:CD:61:LYS:HE3	4:CD:207:TYR:OH	2.00	0.61
27:D1:47:GLN:HB3	27:D1:64:ALA:CB	2.30	0.61
27:D1:47:GLN:N	35:DA:397:G:OP1	2.23	0.61
35:BA:990:A:N6	35:BA:1186:G:H1'	2.15	0.61
1:AA:59:A:H3'	1:AA:331:G:H22	1.64	0.61
20:AT:14:LYS:HA	20:AT:17:ARG:HH21	1.64	0.61
48:BR:28:LEU:HA	48:BR:34:ILE:CG1	2.30	0.61
44:DN:58:ASP:O	44:DN:60:ILE:N	2.30	0.61
2:CB:54:THR:O	2:CB:58:ILE:HG13	2.00	0.61
4:AD:23:GLY:HA3	4:AD:112:VAL:HG22	1.82	0.61
18:AR:81:PHE:O	18:AR:82:THR:HB	1.98	0.61
25:AY:103:ILE:O	25:AY:103:ILE:HG13	2.00	0.61
12:CL:6:THR:HG22	12:CL:9:GLN:HE21	1.65	0.61
12:AL:32:PHE:HB3	12:AL:84:LEU:CD2	2.29	0.61
55:BY:27:VAL:HG12	55:BY:29:GLU:OE1	1.99	0.61
7:AG:150:ALA:C	7:AG:152:ALA:H	2.02	0.61
1:AA:715:A:H2'	1:AA:716:A:H8	1.64	0.61
35:BA:2673:G:O2'	35:BA:2674:G:H5'	1.99	0.61
3:AC:107:GLN:O	3:AC:108:ASN:HB2	2.00	0.61
40:DF:178:PRO:HG2	40:DF:179:GLU:N	2.14	0.61
35:BA:491:G:O2'	35:BA:492:A:H5'	2.00	0.61
35:DA:2830:G:H5'	39:DE:58:ARG:NH2	2.14	0.61
35:DA:1484:G:H3'	35:DA:1485:G:H5''	1.81	0.61
38:BD:145:VAL:HG12	38:BD:146:GLU:N	2.15	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:893:C:H2'	1:AA:894:G:C8	2.35	0.61
35:DA:970:C:H2'	35:DA:971:C:H6	1.65	0.61
35:BA:962:G:O2'	35:BA:963:U:H5'	2.00	0.61
35:DA:285:C:H3'	35:DA:286:C:H5''	1.82	0.61
27:B1:41:ARG:HG3	27:B1:41:ARG:HH11	1.63	0.61
48:DR:103:ARG:HG2	48:DR:103:ARG:NH1	2.15	0.61
1:AA:946:A:H2'	1:AA:947:G:H8	1.64	0.61
23:AW:7:G:H5'	23:AW:8:U:C5	2.35	0.61
35:BA:1192:G:O2'	35:BA:1193:G:H5'	1.99	0.61
35:BA:2875:C:H4'	50:BT:5:ALA:HB2	1.81	0.61
1:CA:1355:G:H2'	1:CA:1356:G:H8	1.63	0.61
5:CE:87:SER:OG	5:CE:125:SER:HB3	2.00	0.61
35:DA:1344:G:H4'	35:DA:1384:A:N7	2.15	0.61
37:BC:184:LYS:C	37:BC:186:ALA:H	2.03	0.61
32:D6:42:TRP:HA	32:D6:42:TRP:CE3	2.34	0.61
53:DW:37:ARG:HG3	53:DW:37:ARG:HH11	1.65	0.61
35:DA:2684:U:P	50:DT:53:ARG:HH21	2.23	0.61
35:DA:2725:A:O2'	35:DA:2726:U:H2'	2.00	0.61
45:DO:105:GLU:HA	45:DO:108:GLU:CG	2.30	0.61
50:DT:48:ILE:O	50:DT:63:VAL:HG12	2.00	0.61
43:BI:87:LYS:NZ	43:BI:121:LYS:HG2	2.14	0.61
41:DG:22:ARG:O	41:DG:22:ARG:HD3	1.99	0.61
35:DA:1794:U:O4'	35:DA:1900:A:C2	2.53	0.61
35:DA:2308:G:H8	35:DA:2309:A:H3'	1.65	0.61
41:DG:46:ALA:O	41:DG:51:ARG:HG3	1.99	0.61
41:DG:86:MET:N	41:DG:87:PRO:HD3	2.15	0.61
34:B8:25:MET:HG3	46:BP:62:LEU:HD21	1.81	0.61
35:BA:2682:U:O4	35:BA:2728:U:H1'	2.01	0.61
55:DY:95:LYS:HG2	55:DY:100:ALA:CA	2.20	0.61
35:DA:61:G:H1	35:DA:94:C:H42	1.48	0.61
28:D2:26:ARG:NH2	54:DX:6:ASP:HA	2.13	0.61
44:DN:10:GLU:CG	44:DN:11:PRO:HD2	2.30	0.61
3:CC:141:VAL:O	3:CC:141:VAL:HG12	2.00	0.61
19:CS:11:VAL:CG2	19:CS:16:LEU:HD11	2.30	0.61
1:CA:1313:U:OP1	19:CS:6:LYS:HG3	2.00	0.61
49:BS:17:ARG:HG3	49:BS:18:ILE:HD12	1.80	0.61
40:BF:202:PHE:C	40:BF:202:PHE:HD1	2.03	0.61
40:BF:28:ILE:HD13	40:BF:28:ILE:N	2.14	0.61
39:BE:116:VAL:HG21	39:BE:122:PHE:CG	2.35	0.61
44:DN:62:VAL:HG22	44:DN:66:LYS:CG	2.30	0.61
55:BY:76:CYS:SG	55:BY:77:PRO:CD	2.88	0.61
48:DR:13:HIS:CE1	48:DR:16:HIS:HB2	2.35	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2820:A:O3'	48:DR:2:ARG:NH2	2.33	0.61
48:DR:84:ALA:HB3	48:DR:85:PRO:HD3	1.80	0.61
35:BA:2707:G:H2'	35:BA:2708:G:C8	2.35	0.61
35:DA:2078:C:H2'	35:DA:2079:U:C6	2.34	0.61
44:DN:17:ASP:C	44:DN:19:GLU:N	2.53	0.61
44:DN:58:ASP:O	44:DN:60:ILE:HG13	2.00	0.61
1:AA:402:G:H1'	1:AA:620:C:H42	1.65	0.61
1:CA:1510:U:H2'	1:CA:1511:G:C8	2.36	0.61
51:DU:33:ARG:O	51:DU:34:LYS:C	2.38	0.61
42:DH:44:VAL:HG12	42:DH:45:VAL:N	2.14	0.61
12:CL:22:SER:O	12:CL:24:VAL:N	2.33	0.61
44:BN:15:LEU:HB3	44:BN:136:GLU:HA	1.82	0.61
25:AY:63:PRO:HB2	25:AY:64:ARG:CZ	2.29	0.61
25:AY:9:GLU:O	25:AY:13:HIS:HB2	1.98	0.61
33:B7:17:GLY:O	33:B7:18:PHE:C	2.38	0.61
35:DA:2389:G:H5''	35:DA:2390:U:O4'	2.00	0.61
1:CA:1075:C:OP1	2:CB:179:LYS:HE2	2.00	0.61
35:DA:2225:A:H4'	35:DA:2226:C:H5'	1.83	0.61
40:BF:160:ASN:HB3	40:BF:163:VAL:HG23	1.82	0.61
1:CA:1410:G:H2'	1:CA:1411:C:C6	2.36	0.61
13:CM:19:LEU:CA	13:CM:22:ILE:HD13	2.30	0.61
17:CQ:69:LYS:C	17:CQ:70:ARG:HD2	2.20	0.61
26:D0:25:ARG:HG3	26:D0:29:GLN:NE2	2.14	0.61
3:CC:70:VAL:HG12	3:CC:72:LYS:H	1.64	0.61
1:AA:393:A:OP2	16:AP:12:LYS:HD3	1.99	0.61
1:CA:579:G:H5'	1:CA:728:A:H1'	1.82	0.61
35:DA:2795:G:N2	35:DA:2799:C:H5'	2.14	0.61
35:BA:1388:G:H1	35:BA:1399:C:H42	1.48	0.61
1:AA:1523:G:C6	1:AA:1524:C:C4	2.88	0.61
10:AJ:32:ALA:HB1	10:AJ:75:ILE:CD1	2.29	0.61
1:AA:1242:C:H2'	1:AA:1243:C:C6	2.34	0.61
1:AA:628:G:O2'	1:AA:629:G:H5'	2.00	0.61
35:DA:1440:G:H2'	35:DA:1441:G:H8	1.64	0.61
1:AA:1162:C:H2'	1:AA:1163:C:C6	2.35	0.61
35:BA:1387:C:H5'	35:BA:1469:A:H4'	1.82	0.61
38:BD:109:ASP:HB3	38:BD:195:ALA:HB3	1.81	0.61
35:BA:1830:C:H42	35:BA:1975:G:H1	1.48	0.61
1:AA:524:G:H2'	1:AA:525:C:C6	2.36	0.61
56:DZ:31:ARG:CZ	56:DZ:94:GLU:OE2	2.48	0.61
10:AJ:39:PRO:HA	10:AJ:70:ARG:HA	1.81	0.61
39:DE:11:MET:H	50:DT:8:LYS:HZ1	1.47	0.61
45:DO:71:ARG:HH11	45:DO:71:ARG:HG3	1.65	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
45:DO:93:PRO:C	45:DO:95:GLY:H	2.03	0.61
50:DT:50:ILE:CG2	50:DT:99:LEU:HD12	2.23	0.61
38:DD:177:LEU:HD12	38:DD:181:GLU:CG	2.30	0.61
41:DG:38:VAL:HB	41:DG:158:ALA:HB3	1.83	0.61
35:BA:2723:C:O2'	35:BA:2724:C:H5'	2.00	0.61
35:DA:2052:G:N3	39:DE:149:ARG:HA	2.16	0.61
39:BE:5:LEU:HD22	39:BE:197:ILE:HG22	1.81	0.61
52:BV:39:LEU:HD21	52:BV:53:GLU:HA	1.82	0.61
41:BG:51:ARG:HA	41:BG:51:ARG:HE	1.64	0.61
42:BH:87:LEU:N	42:BH:131:VAL:O	2.34	0.61
52:DV:61:VAL:CG2	52:DV:100:ARG:HG2	2.31	0.61
4:CD:60:GLU:HG2	4:CD:202:LEU:HB2	1.82	0.61
35:BA:622:G:O2'	35:BA:623:G:H5'	2.01	0.61
39:BE:116:VAL:O	39:BE:117:MET:CB	2.47	0.61
34:D8:26:LYS:NZ	34:D8:47:LYS:HD3	2.15	0.61
27:B1:37:ILE:HG21	35:BA:2079:U:O3'	1.99	0.61
40:BF:67:GLN:CG	40:BF:67:GLN:O	2.41	0.61
35:BA:1190:G:H4'	46:BP:35:HIS:CB	2.29	0.61
49:DS:72:ALA:O	49:DS:76:LYS:HG2	2.00	0.61
6:AF:76:ALA:HB1	6:AF:80:ARG:HH21	1.64	0.61
1:CA:1405:G:O2'	1:CA:1406:U:H5'	1.99	0.61
1:CA:1517:G:C8	35:DA:1920:C:OP1	2.53	0.61
7:AG:105:VAL:HG12	7:AG:109:ASN:ND2	2.15	0.61
16:AP:48:TRP:HE3	16:AP:49:LEU:H	1.48	0.61
43:BI:95:LYS:O	43:BI:99:GLU:HB2	2.00	0.61
26:B0:14:ARG:HD2	35:BA:2279:G:O6	2.00	0.61
1:AA:184:G:C4'	1:AA:224:C:H4'	2.31	0.61
43:DI:14:ASP:HB2	43:DI:17:GLN:OE1	2.01	0.61
43:DI:4:ILE:HA	43:DI:17:GLN:O	2.00	0.61
8:AH:12:ARG:HH11	8:AH:26:VAL:HA	1.65	0.61
54:BX:65:ARG:CZ	54:BX:66:LEU:N	2.61	0.61
12:CL:60:LEU:HD23	12:CL:64:TYR:O	2.00	0.61
56:BZ:142:SER:H	56:BZ:144:LEU:HD23	1.64	0.61
16:CP:49:LEU:HD12	16:CP:50:LYS:H	1.62	0.61
56:BZ:17:ALA:HA	56:BZ:20:ARG:CD	2.29	0.61
35:BA:1614:A:N6	53:BW:93:ALA:CB	2.63	0.61
2:AB:97:TRP:HH2	2:AB:176:GLU:HB2	1.65	0.61
35:DA:2165:G:H2'	35:DA:2165:G:N3	2.15	0.61
35:DA:1771:C:H2'	35:DA:1772:G:H8	1.65	0.61
36:DB:83:G:O2'	36:DB:84:C:H5'	2.01	0.61
1:AA:155:C:H2'	1:AA:156:G:C8	2.36	0.61
5:CE:57:LYS:HE2	5:CE:61:TYR:HE2	1.66	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
53:DW:69:LEU:H	53:DW:69:LEU:HD12	1.64	0.61
8:AH:18:ARG:N	8:AH:78:GLN:HE22	1.98	0.61
1:CA:1160:G:OP1	2:CB:132:LYS:HE3	2.01	0.61
38:DD:68:LYS:HB2	38:DD:70:TRP:CH2	2.34	0.61
39:DE:93:VAL:C	39:DE:95:ILE:H	2.03	0.61
1:CA:519:C:H2'	1:CA:520:A:C8	2.36	0.61
35:BA:1547:C:O2'	35:BA:1548:C:H5'	2.00	0.61
1:CA:1010:G:H22	1:CA:1020:U:H1'	1.64	0.61
46:DP:100:LEU:H	46:DP:100:LEU:HD22	1.66	0.61
37:BC:211:SER:HA	37:BC:220:PRO:HA	1.82	0.61
5:CE:15:ARG:HG3	5:CE:28:PHE:CE2	2.35	0.61
35:BA:2364:C:H2'	35:BA:2365:G:O4'	1.99	0.61
35:DA:1210:A:H4'	35:DA:1211:U:O5'	2.00	0.61
45:DO:102:VAL:HB	45:DO:106:LEU:HD12	1.81	0.61
38:BD:181:GLU:HA	38:BD:272:ALA:O	2.00	0.61
35:DA:1803:A:O2'	38:DD:259:THR:HG21	1.99	0.61
38:DD:27:THR:CG2	38:DD:28:GLU:H	1.91	0.61
41:DG:114:ILE:CB	41:DG:117:PHE:HB2	2.30	0.61
41:DG:135:LEU:CD2	41:DG:140:ILE:HD11	2.28	0.61
41:DG:96:ARG:HG3	41:DG:97:ASP:H	1.64	0.61
35:BA:2787:C:C2	39:BE:61:ARG:HD3	2.36	0.61
51:BU:55:ARG:HA	51:BU:58:ARG:HD2	1.82	0.61
51:BU:66:ASN:OD1	51:BU:76:TYR:N	2.33	0.61
54:BX:36:LYS:HZ1	54:BX:39:ILE:HA	1.65	0.61
39:DE:48:GLN:HG2	39:DE:78:LEU:HD12	1.82	0.61
35:DA:74:A:H4'	35:DA:75:G:O5'	1.99	0.61
54:DX:77:LYS:CE	54:DX:78:LYS:HG3	2.30	0.61
3:AC:164:ARG:CB	3:AC:164:ARG:HH11	2.06	0.61
19:CS:6:LYS:CD	19:CS:7:LYS:HD2	2.30	0.61
36:BB:31:C:H2'	36:BB:53:A:H61	1.66	0.61
46:BP:38:GLN:HG3	46:BP:39:LYS:N	2.06	0.61
1:AA:1478:C:C2	1:AA:1479:C:C5	2.88	0.61
2:CB:212:GLN:CG	2:CB:235:SER:HB2	2.30	0.61
44:DN:120:LEU:HD13	44:DN:120:LEU:C	2.21	0.61
6:CF:61:LEU:O	6:CF:62:TRP:HB2	1.99	0.61
2:CB:72:GLY:HA3	2:CB:165:VAL:HG22	1.82	0.61
35:DA:869:G:H2'	35:DA:870:A:H8	1.65	0.61
47:BQ:53:ALA:HA	47:BQ:56:ARG:HB3	1.83	0.61
1:CA:1408:A:O2'	35:DA:1916:A:N6	2.33	0.61
35:DA:2033:A:H4'	35:DA:2034:U:OP1	1.99	0.61
35:DA:2498:C:HO2'	35:DA:2499:C:H5'	1.66	0.61
51:BU:40:PHE:N	51:BU:40:PHE:CD2	2.68	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:CH:103:VAL:HG12	8:CH:108:GLY:HA3	1.83	0.61
55:BY:37:VAL:HG22	55:BY:67:LEU:O	2.00	0.61
11:AK:23:ALA:HB1	11:AK:91:ARG:HG2	1.81	0.61
20:AT:57:ARG:HH11	20:AT:57:ARG:HB2	1.65	0.61
9:AI:4:TYR:CD1	9:AI:4:TYR:N	2.68	0.61
12:CL:89:ARG:HH11	12:CL:90:VAL:N	1.98	0.61
12:CL:90:VAL:HG11	12:CL:93:LEU:HG	1.81	0.61
9:CI:26:VAL:HG13	9:CI:63:ILE:CD1	2.30	0.61
46:BP:99:LEU:HD12	46:BP:102:ARG:HD2	1.82	0.61
42:BH:136:ILE:O	42:BH:137:ASP:HB2	1.99	0.61
5:AE:78:HIS:CD2	8:AH:104:ARG:HE	2.19	0.61
1:CA:471:G:H2'	1:CA:472:A:C8	2.34	0.61
39:DE:134:ILE:HD13	39:DE:134:ILE:N	2.15	0.61
13:AM:78:ILE:HA	13:AM:81:LEU:CD1	2.30	0.61
54:DX:89:ILE:HA	54:DX:92:LEU:HD12	1.82	0.61
17:CQ:94:ASN:O	17:CQ:97:SER:OG	2.19	0.61
35:DA:1509(A):A:H2'	35:DA:1509(B):A:C8	2.35	0.61
1:CA:1088:G:H2'	1:CA:1089:G:C8	2.33	0.61
43:DI:51:ILE:HG22	43:DI:52:ARG:N	2.14	0.61
35:BA:648:G:C4'	35:BA:2351:G:H5''	2.31	0.61
35:DA:1388:G:H1	35:DA:1399:C:H42	1.47	0.61
7:AG:40:ALA:HA	7:AG:43:PHE:HB3	1.81	0.61
35:BA:1192:G:C2'	35:BA:1193:G:H5'	2.30	0.61
1:AA:1355:G:H2'	1:AA:1356:G:H8	1.65	0.61
1:AA:1003:G:H2'	1:AA:1004:A:O4'	1.99	0.61
35:BA:2037:G:H2'	35:BA:2038:G:C8	2.35	0.61
5:CE:152:ARG:HB3	8:CH:43:GLY:HA3	1.82	0.61
1:CA:473:G:H2'	1:CA:474:G:H8	1.66	0.61
24:CX:19:U:H2'	24:CX:19:U:O2	1.99	0.61
35:BA:2609:U:H4'	35:BA:2609:U:OP1	2.01	0.61
37:BC:213:TYR:CB	37:BC:218:MET:HA	2.30	0.61
35:DA:1665:A:H2'	35:DA:1666:G:O4'	2.00	0.61
50:DT:91:ARG:O	50:DT:117:ASP:HB2	2.01	0.61
43:BI:91:SER:H	43:BI:121:LYS:CE	2.13	0.61
1:CA:17:U:O2'	1:CA:18:C:H5'	2.00	0.61
35:DA:1814:G:H2'	35:DA:1815:A:N7	2.15	0.61
41:DG:120:LEU:O	41:DG:180:PHE:HA	2.01	0.61
45:BO:71:ARG:HH11	45:BO:71:ARG:HG3	1.64	0.61
45:BO:76:ALA:HB3	50:BT:75:ILE:CB	2.30	0.61
35:DA:2575:C:H5'	39:DE:144:ARG:HG2	1.82	0.61
39:BE:197:ILE:CD1	39:BE:199:ARG:HH22	2.14	0.61
1:AA:1385:G:O2'	1:AA:1386:G:H5'	2.00	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1153:C:H2'	35:BA:1154:G:O4'	2.00	0.61
51:BU:55:ARG:HA	51:BU:58:ARG:CD	2.30	0.61
28:B2:22:GLU:HA	28:B2:25:VAL:CG1	2.31	0.61
35:BA:143:G:H2'	35:BA:143(A):C:C6	2.35	0.61
54:BX:82:GLN:CG	54:BX:83:VAL:N	2.61	0.61
41:BG:77:ILE:HD13	41:BG:80:PHE:O	2.01	0.61
42:BH:86:GLU:HA	42:BH:132:ARG:HB3	1.81	0.61
47:DQ:29:PHE:HB3	56:DZ:118:GLN:OE1	2.00	0.61
56:DZ:86:VAL:HG12	56:DZ:87:ASP:N	2.14	0.61
49:BS:38:GLN:C	49:BS:39:ILE:HD12	2.20	0.61
35:BA:595:C:H2'	35:BA:596:G:C8	2.36	0.61
35:BA:260:G:H1'	35:BA:621:A:H1'	1.83	0.61
40:BF:202:PHE:C	40:BF:202:PHE:CD1	2.73	0.61
35:BA:598:G:H5'	46:BP:15:ARG:CD	2.31	0.61
25:AY:52:LEU:C	25:AY:54:GLN:H	2.03	0.61
27:D1:10:LYS:C	27:D1:11:ARG:O	2.36	0.61
35:BA:2078:C:H1'	35:BA:2434:A:N3	2.16	0.61
35:BA:796:C:H2'	35:BA:797:C:C6	2.36	0.61
35:BA:1660:C:H5'	35:BA:2712(A):A:H61	1.63	0.61
2:AB:33:TYR:CD1	2:AB:43:ASP:HA	2.34	0.61
1:CA:673:G:H5'	6:CF:87:ARG:HH11	1.63	0.61
2:CB:36:ARG:NH1	2:CB:37:ASN:HB2	2.16	0.61
35:DA:675:A:H4'	40:DF:67:GLN:OE1	2.00	0.61
55:DY:38:ILE:HG22	55:DY:39:VAL:N	2.14	0.61
6:AF:91:VAL:HG11	18:AR:72:ARG:NH1	2.15	0.61
18:AR:37:VAL:CG2	18:AR:38:GLU:H	2.06	0.61
35:DA:581:C:O2'	35:DA:582:G:H5'	2.00	0.61
1:CA:585:G:H4'	12:CL:8:ASN:ND2	2.10	0.61
12:AL:22:SER:O	12:AL:24:VAL:N	2.33	0.61
44:BN:78:TYR:H	44:BN:79:PRO:HD2	1.65	0.61
19:AS:40:ILE:HD13	19:AS:62:ILE:HD13	1.83	0.61
1:CA:640:A:H4'	8:CH:116:LYS:NZ	2.15	0.61
8:CH:119:LEU:HD23	8:CH:119:LEU:H	1.63	0.61
12:AL:47:LYS:CB	12:AL:48:PRO:CD	2.79	0.61
8:CH:64:LYS:O	8:CH:79:VAL:HG21	2.01	0.61
1:AA:383:A:H2'	1:AA:384:G:C5'	2.29	0.61
1:AA:490:G:H2'	1:AA:491:G:C8	2.34	0.61
40:BF:139:PHE:CB	40:BF:166:ALA:HB1	2.31	0.61
40:DF:178:PRO:CG	40:DF:179:GLU:H	2.11	0.61
39:BE:103:ASP:OD2	39:BE:201:THR:HA	2.00	0.61
23:AW:60:A:C2'	23:AW:61:U:H5'	2.30	0.61
40:DF:167:ALA:HB1	40:DF:173:VAL:HG11	1.82	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:253:U:H2'	1:AA:254:G:C8	2.31	0.61
38:DD:145:VAL:HB	38:DD:155:LEU:HB2	1.83	0.61
38:BD:231:HIS:CD2	38:BD:249:PRO:HG3	2.36	0.61
38:BD:10:THR:HG23	38:BD:13:ARG:HB3	1.82	0.61
35:BA:285:C:H3'	35:BA:286:C:H5''	1.82	0.61
22:CV:40:C:O2'	22:CV:41:C:H5'	2.01	0.61
35:BA:506:G:H4'	35:BA:509:C:O2	2.01	0.61
25:AY:80:GLU:O	25:AY:82:ALA:N	2.33	0.61
35:DA:2203:U:C4'	38:DD:151:LYS:HE3	2.30	0.61
1:AA:571:U:H5''	1:AA:819:A:C2	2.35	0.61
1:AA:786:G:H1	1:AA:796:C:N4	1.98	0.61
35:BA:2111:C:H5'	35:BA:2112:G:OP1	2.00	0.61
38:BD:166:GLN:N	38:BD:166:GLN:HE21	1.98	0.61
39:DE:92:THR:HB	39:DE:94:GLU:OE1	2.00	0.61
29:B3:36:VAL:O	29:B3:37:LEU:HD23	2.00	0.61
38:BD:222:ARG:O	38:BD:223:GLY:C	2.37	0.61
35:BA:2683:C:H5''	50:BT:53:ARG:NH2	2.14	0.61
45:BO:102:VAL:HB	45:BO:106:LEU:HD12	1.83	0.61
56:BZ:57:ILE:HG22	56:BZ:59:LEU:HG	1.81	0.61
44:BN:1:MET:C	44:BN:2:LYS:HD2	2.21	0.61
52:BV:2:PHE:HB3	52:BV:42:GLY:CA	2.26	0.61
42:DH:88:LEU:O	42:DH:89:ILE:HG23	2.00	0.61
2:AB:80:ILE:HG21	2:AB:208:ILE:HG23	1.83	0.61
28:D2:15:LYS:O	28:D2:18:PRO:HD2	2.00	0.61
56:DZ:97:GLU:HA	56:DZ:126:VAL:O	2.00	0.61
56:DZ:146:ILE:HA	56:DZ:174:VAL:CB	2.29	0.61
56:DZ:24:LEU:C	56:DZ:24:LEU:HD12	2.21	0.61
49:BS:88:ASP:OD2	49:BS:89:ARG:N	2.29	0.61
34:D8:25:MET:HB2	46:DP:62:LEU:HD11	1.82	0.61
46:BP:46:LYS:HB3	46:BP:52:GLU:HG2	1.81	0.61
1:AA:1463:C:H2'	1:AA:1464:G:O4'	2.01	0.61
44:DN:32:THR:CG2	44:DN:37:LYS:HB3	2.31	0.61
3:CC:164:ARG:CB	3:CC:164:ARG:HH11	2.07	0.61
47:DQ:43:THR:OG1	47:DQ:45:GLN:HB2	2.01	0.61
47:DQ:76:LYS:H	47:DQ:88:GLY:HA2	1.64	0.61
51:DU:31:SER:C	51:DU:33:ARG:H	2.03	0.61
13:AM:115:LYS:O	13:AM:117:VAL:HG23	2.00	0.61
1:AA:17:U:O4'	1:AA:1080:A:H1'	2.00	0.61
1:AA:17:U:O2'	1:AA:18:C:H5'	2.00	0.61
8:CH:26:VAL:O	8:CH:59:LEU:N	2.33	0.61
33:D7:29:LYS:O	33:D7:32:LYS:HB3	2.01	0.61
46:DP:130:PHE:N	46:DP:130:PHE:HD2	1.98	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
23:AW:45:A:H2'	23:AW:46:G:C8	2.36	0.61
35:DA:491:G:O2'	35:DA:492:A:H5'	1.99	0.61
2:AB:103:THR:HA	2:AB:180:LEU:HD11	1.82	0.61
35:DA:1925:C:C2'	35:DA:1926:U:H5'	2.30	0.61
1:CA:711:G:O2'	1:CA:712:A:H5'	2.01	0.61
17:AQ:67:LYS:HA	17:AQ:70:ARG:HH12	1.64	0.61
1:CA:1465:C:H2'	1:CA:1466:C:C6	2.36	0.61
27:D1:42:GLN:HG2	27:D1:43:TYR:N	2.15	0.61
35:DA:1366:A:H2'	35:DA:1367:A:H8	1.65	0.61
15:AO:53:HIS:HE1	15:AO:57:LEU:HD21	1.66	0.61
1:AA:135:C:H2'	1:AA:136:C:H5'	1.82	0.61
1:AA:818:G:C3'	1:AA:819:A:H5''	2.31	0.61
35:DA:1854:A:H5'	35:DA:1855:G:OP1	1.99	0.61
35:BA:1523:U:H2'	35:BA:1524:G:C8	2.36	0.61
1:CA:1152:A:H5''	10:CJ:13:HIS:HD2	1.66	0.61
35:BA:696:G:O2'	35:BA:697:C:H5'	1.99	0.61
3:AC:119:ARG:NH2	3:AC:140:ARG:CZ	2.63	0.61
35:BA:2179:C:H1'	37:BC:171:ILE:CB	2.30	0.61
43:DI:64:GLU:OE1	43:DI:67:ARG:HB2	2.01	0.61
47:BQ:60:ARG:C	47:BQ:60:ARG:HD3	2.20	0.61
35:DA:595:C:H2'	35:DA:596:G:C8	2.36	0.61
35:DA:499:U:O2'	35:DA:500:G:H5'	2.00	0.61
35:BA:1821:A:H2'	35:BA:1822:G:C8	2.35	0.61
41:DG:111:LEU:CA	41:DG:114:ILE:HD11	2.29	0.61
47:DQ:34:LEU:CD1	47:DQ:129:THR:HB	2.29	0.61
45:BO:1:MET:HG3	45:BO:32:TYR:HD2	1.59	0.61
45:BO:11:ALA:HB1	45:BO:99:PHE:O	2.01	0.61
50:BT:48:ILE:O	50:BT:63:VAL:HG12	2.01	0.61
51:BU:105:VAL:O	51:BU:109:LEU:HG	2.01	0.61
51:BU:90:VAL:HG22	52:BV:39:LEU:CD1	2.30	0.61
54:DX:30:VAL:HG23	54:DX:76:ARG:HA	1.81	0.61
54:DX:39:ILE:O	54:DX:42:ALA:HB3	2.00	0.61
54:DX:82:GLN:CD	54:DX:83:VAL:H	2.04	0.61
56:DZ:98:MET:O	56:DZ:98:MET:HG3	2.00	0.61
1:CA:431:A:H2'	1:CA:432:A:C8	2.36	0.61
43:DI:77:LEU:CB	43:DI:140:LEU:HD13	2.22	0.61
39:BE:141:ILE:HD13	39:BE:141:ILE:N	2.16	0.61
35:DA:2707:G:H5''	48:DR:68:ARG:HH21	1.66	0.61
35:BA:1286:A:OP1	48:BR:105:ARG:HD2	2.01	0.61
48:BR:9:LYS:HE3	48:BR:43:GLU:OE2	2.01	0.61
36:DB:31:C:H2'	36:DB:53:A:H61	1.66	0.61
49:DS:67:ARG:HE	49:DS:100:ALA:HB3	1.66	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
49:DS:31:SER:OG	49:DS:32:LEU:N	2.32	0.61
2:AB:178:ARG:HH22	2:AB:196:LEU:HA	1.65	0.61
2:AB:185:ILE:HG22	2:AB:199:TYR:CD1	2.35	0.61
18:CR:38:GLU:O	18:CR:41:LYS:HB3	1.99	0.61
2:CB:33:TYR:HB2	2:CB:41:ILE:HG22	1.81	0.61
35:DA:1215:G:H2'	35:DA:1216:G:H8	1.66	0.61
1:AA:620:C:H2'	1:AA:621:A:O4'	2.01	0.61
55:DY:19:LYS:HD2	55:DY:20:TYR:CE1	2.36	0.61
18:AR:43:PHE:C	18:AR:44:LEU:HD12	2.21	0.61
6:AF:89:MET:SD	18:AR:76:LEU:HD21	2.41	0.61
13:CM:117:VAL:HG12	13:CM:118:ALA:N	2.16	0.61
20:CT:64:ASP:C	20:CT:66:ALA:H	2.02	0.61
35:BA:2619:C:H5''	39:BE:152:LYS:HA	1.83	0.61
1:AA:685:G:N2	1:AA:686:U:H3	1.99	0.61
35:DA:2260:C:O2'	35:DA:2261:C:H5'	1.99	0.61
8:AH:103:VAL:HG21	8:AH:109:ILE:C	2.21	0.61
1:AA:1080:A:H5'	5:AE:14:ARG:NH2	2.14	0.61
12:AL:119:LYS:HB2	12:AL:120:TYR:HD1	1.64	0.61
9:AI:3:GLN:HG2	9:AI:20:ARG:HH21	1.65	0.61
46:BP:85:LEU:H	46:BP:85:LEU:CD2	2.09	0.61
9:CI:7:THR:HB	9:CI:83:ARG:NH1	2.14	0.61
35:BA:2830:G:H5'	39:BE:58:ARG:NH2	2.16	0.61
5:CE:139:LEU:HA	5:CE:142:LEU:CD1	2.30	0.61
29:B3:41:PRO:HD3	29:B3:44:ARG:NH1	2.16	0.61
26:B0:25:ARG:HG3	26:B0:29:GLN:NE2	2.15	0.61
7:AG:58:PRO:HA	7:AG:61:VAL:CG2	2.31	0.61
6:AF:82:ARG:HB3	6:AF:82:ARG:NH1	2.15	0.61
53:BW:5:ALA:HB2	53:BW:54:ALA:HB2	1.83	0.61
53:DW:26:GLY:O	53:DW:27:LYS:HG3	2.00	0.61
6:AF:37:VAL:HG13	6:AF:65:VAL:CG1	2.31	0.61
35:BA:2505:G:H2'	35:BA:2576:G:O6	2.01	0.61
45:DO:42:SER:HA	45:DO:56:ASP:O	1.99	0.61
54:BX:89:ILE:O	54:BX:89:ILE:HG22	1.99	0.61
20:CT:31:SER:O	20:CT:34:LYS:HB2	2.00	0.61
49:DS:41:ASP:O	49:DS:45:GLY:HA2	2.00	0.61
35:BA:426:C:O2'	35:BA:427:U:H5'	2.01	0.61
35:BA:1902:C:C5'	38:BD:246:PRO:HD3	2.31	0.61
5:CE:131:ILE:HD13	5:CE:131:ILE:H	1.64	0.61
38:DD:64:ILE:HG23	38:DD:64:ILE:O	2.00	0.61
39:BE:64:LYS:C	39:BE:66:HIS:H	2.01	0.61
39:BE:52:LEU:N	39:BE:74:PRO:HB2	2.15	0.61
1:AA:1190:G:H8	3:AC:3:ASN:HD21	1.47	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:559:G:H22	51:BU:49:HIS:CD2	2.19	0.61
27:B1:73:LEU:CA	27:B1:76:ARG:HH12	2.14	0.61
28:D2:49:LYS:O	28:D2:51:ARG:N	2.34	0.61
56:DZ:58:VAL:HA	56:DZ:67:LEU:O	2.00	0.61
3:CC:182:ILE:HG12	3:CC:203:PHE:HA	1.82	0.61
3:CC:153:VAL:HA	3:CC:197:GLY:O	2.01	0.61
35:BA:2514:U:H2'	35:BA:2515:C:H6	1.65	0.61
35:BA:2241:A:H2'	35:BA:2242:G:C8	2.35	0.61
35:BA:792:G:C5'	35:BA:793:A:H5'	2.30	0.61
50:BT:109:GLU:CA	50:BT:112:ARG:HG3	2.30	0.61
49:DS:85:VAL:HG23	49:DS:106:ARG:HB2	1.82	0.61
6:AF:23:LYS:O	6:AF:27:GLN:HG2	2.01	0.61
16:AP:72:ARG:C	16:AP:74:LEU:H	2.04	0.61
25:AY:30:THR:C	25:AY:32:ARG:N	2.53	0.61
1:CA:694:A:H5''	11:CK:53:SER:CB	2.30	0.61
1:AA:707:C:H4'	11:AK:20:TYR:HD1	1.64	0.61
33:B7:13:ALA:O	33:B7:17:GLY:HA3	2.00	0.61
43:BI:96:ASP:HA	43:BI:99:GLU:HB3	1.82	0.61
40:DF:160:ASN:HB3	40:DF:163:VAL:HG23	1.81	0.61
42:DH:40:GLU:HB2	42:DH:41:MET:SD	2.41	0.61
55:BY:13:VAL:HG21	55:BY:28:LYS:HG2	1.82	0.61
13:AM:97:PRO:HB3	13:AM:110:ARG:HD3	1.81	0.61
35:DA:225:A:O2'	35:DA:226:G:H5'	2.01	0.61
43:DI:10:GLU:O	43:DI:12:LEU:HD23	2.00	0.61
12:AL:89:ARG:HE	12:AL:91:LYS:HE2	1.66	0.61
31:D5:52:TYR:HA	31:D5:56:LYS:NZ	2.15	0.61
35:DA:778:G:C5'	38:DD:48:ARG:HD2	2.31	0.61
35:BA:542:C:H2'	35:BA:543:C:OP1	2.01	0.61
38:DD:121:PRO:HB3	38:DD:135:PHE:CE2	2.36	0.61
35:BA:2308:G:H8	35:BA:2309:A:H3'	1.65	0.61
17:CQ:5:VAL:HA	17:CQ:59:ILE:O	2.01	0.61
1:AA:1056:U:H5'	3:AC:163:ALA:HB2	1.82	0.61
39:BE:38:THR:C	39:BE:40:GLU:H	2.04	0.61
13:CM:58:GLU:HA	13:CM:58:GLU:OE1	2.01	0.61
15:AO:24:SER:O	15:AO:28:GLN:HG3	2.01	0.61
54:DX:92:LEU:O	54:DX:93:GLU:HB3	2.01	0.61
38:BD:9:TYR:C	38:BD:10:THR:HG22	2.21	0.61
35:DA:45:C:H2'	35:DA:47:C:H6	1.66	0.61
48:BR:103:ARG:HG2	48:BR:103:ARG:NH1	2.13	0.61
46:BP:56:SER:O	46:BP:57:THR:HB	2.01	0.61
35:BA:1909:C:H2'	35:BA:1909:C:O2	2.00	0.61
39:DE:39:PRO:HA	39:DE:43:GLY:CA	2.30	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:648:G:H2'	35:BA:649:G:C8	2.35	0.61
7:CG:149:ARG:HD3	11:CK:59:TYR:CE1	2.36	0.61
35:BA:1220:A:O2'	35:BA:1221:C:H5''	2.00	0.61
35:BA:1889:A:O2'	35:BA:2087:G:H5'	1.99	0.61
53:BW:69:LEU:HD12	53:BW:69:LEU:H	1.65	0.61
1:AA:291:C:O2'	1:AA:292:G:H5'	2.01	0.61
35:DA:1014:U:H2'	35:DA:1015:G:H8	1.65	0.61
4:CD:23:GLY:HA3	4:CD:112:VAL:HG22	1.82	0.61
32:B6:42:TRP:CE3	32:B6:42:TRP:HA	2.35	0.61
46:BP:108:LYS:C	46:BP:110:TYR:H	2.04	0.61
35:DA:1789:A:O2'	35:DA:1790:C:H5'	2.01	0.61
35:DA:782:A:H2	38:DD:226:MET:HE2	1.65	0.61
16:CP:20:VAL:HG23	16:CP:34:GLU:O	2.01	0.61
41:DG:134:GLY:HA2	41:DG:157:ILE:HG12	1.82	0.61
35:BA:2677:G:H2'	35:BA:2678:C:C6	2.34	0.61
50:BT:28:VAL:O	50:BT:88:ILE:HD11	2.01	0.61
35:DA:2056:G:H2'	35:DA:2056:G:N3	2.15	0.61
35:DA:1496:A:H2'	35:DA:1498:C:C5	2.36	0.61
44:BN:43:THR:O	44:BN:46:VAL:N	2.33	0.61
44:BN:42:TRP:HD1	51:BU:63:VAL:HG11	1.66	0.61
28:B2:41:ILE:O	28:B2:44:LEU:N	2.32	0.61
35:BA:143:G:H2'	35:BA:143(A):C:H6	1.66	0.61
39:DE:199:ARG:HH11	39:DE:199:ARG:HG3	1.66	0.61
28:D2:12:GLU:O	28:D2:14:ARG:HD3	2.01	0.61
35:DA:142:A:H5'	35:DA:142(A):C:OP2	2.01	0.61
4:CD:108:LEU:CB	4:CD:110:PHE:CE1	2.84	0.61
35:BA:2512:C:H4'	39:BE:122:PHE:CZ	2.36	0.61
49:DS:23:ARG:HG2	49:DS:24:LEU:H	1.66	0.61
2:AB:72:GLY:CA	2:AB:165:VAL:HG22	2.31	0.61
35:DA:202:U:H2'	35:DA:203:C:C6	2.35	0.61
2:CB:172:ILE:HD12	2:CB:172:ILE:N	2.12	0.61
40:DF:89:VAL:HG12	40:DF:90:PHE:N	2.16	0.61
43:DI:72:LEU:CD1	43:DI:138:ILE:HD11	2.24	0.61
6:AF:18:GLN:O	6:AF:21:LEU:HB2	2.01	0.61
35:BA:2348:U:H2'	35:BA:2349:G:C5'	2.23	0.61
25:CY:150:SER:HB3	25:CY:153:GLU:HG3	1.81	0.61
25:AY:16:LYS:HA	25:AY:19:GLU:HG3	1.83	0.61
11:CK:23:ALA:HB1	11:CK:91:ARG:HG2	1.83	0.61
35:BA:84:A:N3	35:BA:85:G:H1'	2.15	0.61
8:AH:85:ARG:HH12	8:AH:134:ILE:HG23	1.66	0.61
8:CH:10:LEU:HD23	8:CH:10:LEU:N	2.16	0.61
35:DA:2128:C:O2'	35:DA:2163:C:OP1	2.17	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1346:A:H61	1:AA:1374:A:H3'	1.66	0.61
35:BA:2165:G:N3	35:BA:2165:G:H2'	2.16	0.61
7:CG:58:PRO:HA	7:CG:61:VAL:CG2	2.31	0.61
1:CA:472:A:H1'	16:CP:82:GLN:OE1	2.01	0.61
5:CE:7:GLU:O	5:CE:8:GLU:HB3	1.99	0.61
35:DA:1613:G:H2'	35:DA:1617:C:H42	1.66	0.61
1:AA:731:G:OP1	1:AA:766:A:H1'	2.00	0.61
35:BA:361:G:C2'	35:BA:362:U:H5''	2.31	0.61
35:DA:695:G:N2	35:DA:696:G:H1'	2.15	0.61
52:BV:43:GLU:HB2	52:BV:48:GLY:HA3	1.83	0.61
36:BB:15:A:H3'	36:BB:16:G:H5'	1.83	0.61
57:DC:213:TYR:CB	57:DC:218:MET:HA	2.31	0.61
53:DW:110:LYS:HG3	53:DW:111:HIS:ND1	2.16	0.61
1:CA:861:G:H2'	1:CA:862:C:H6	1.66	0.61
46:BP:92:GLU:HG3	46:BP:93:GLY:H	1.66	0.61
35:DA:820:A:H2'	35:DA:821:A:O4'	2.01	0.61
1:AA:414:A:H2'	1:AA:415:A:O4'	2.01	0.61
3:CC:60:ALA:HB3	3:CC:63:ASN:HD21	1.66	0.61
37:BC:82:LYS:HB3	37:BC:86:ALA:HB2	1.82	0.61
35:BA:2460:U:O2'	35:BA:2461:C:H5'	2.00	0.61
35:DA:1998:G:H2'	35:DA:1999:C:C6	2.36	0.61
35:BA:1823:G:O2'	35:BA:1824:G:H5'	2.00	0.61
38:DD:94:LEU:HA	38:DD:104:TYR:HA	1.83	0.61
41:DG:39:ILE:CA	41:DG:157:ILE:HA	2.25	0.61
41:DG:171:ALA:O	41:DG:173:LEU:N	2.34	0.61
46:BP:64:LYS:O	46:BP:65:ARG:C	2.39	0.61
56:BZ:151:HIS:CD2	56:BZ:170:THR:HG22	2.35	0.61
39:DE:120:TRP:CE2	39:DE:155:LYS:HB3	2.36	0.61
42:DH:122:THR:O	42:DH:133:VAL:HG13	2.01	0.61
35:BA:92:A:H2'	35:BA:93:G:C8	2.35	0.61
54:BX:77:LYS:CE	54:BX:78:LYS:HG3	2.30	0.61
27:B1:83:GLU:CG	27:B1:86:SER:N	2.63	0.61
35:BA:2775:A:O2'	35:BA:2776:A:H5'	1.99	0.61
35:DA:996:A:H2'	35:DA:997:G:H8	1.66	0.61
51:DU:96:ALA:O	51:DU:98:LEU:N	2.34	0.61
47:DQ:53:ALA:HA	47:DQ:56:ARG:HB3	1.81	0.61
55:BY:75:ILE:HD11	55:BY:78:ALA:O	2.00	0.61
43:BI:71:ILE:HG13	43:BI:72:LEU:H	1.65	0.61
44:BN:120:LEU:C	44:BN:120:LEU:HD13	2.21	0.61
44:BN:56:ASN:CA	44:BN:124:ALA:HA	2.31	0.61
1:CA:741:G:H2'	1:CA:742:G:O4'	2.01	0.61
4:AD:121:VAL:O	4:AD:134:ASP:HA	2.01	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AD:96:LEU:C	4:AD:98:GLU:H	2.02	0.61
35:DA:2348:U:H2'	35:DA:2349:G:C5'	2.26	0.61
6:AF:30:LEU:HB3	6:AF:35:ALA:CB	2.30	0.61
1:CA:715:A:H2'	1:CA:716:A:H8	1.64	0.61
1:CA:552:U:O2'	1:CA:553:A:H5'	2.00	0.61
43:BI:3:VAL:HG12	43:BI:37:VAL:O	2.01	0.61
16:AP:49:LEU:CD1	16:AP:51:VAL:HG23	2.30	0.61
7:CG:105:VAL:HG12	7:CG:109:ASN:ND2	2.16	0.61
35:BA:1411:C:HO2'	35:BA:1412:A:H8	1.47	0.61
1:AA:710:G:H5''	6:AF:54:LYS:CE	2.31	0.61
11:AK:110:ASP:O	18:AR:84:LYS:HD2	2.00	0.61
26:D0:14:ARG:HD2	35:DA:2279:G:O6	2.00	0.61
42:DH:41:MET:CE	42:DH:55:PRO:HD2	2.29	0.61
1:AA:1078:U:H2'	1:AA:1079:G:C8	2.36	0.61
12:CL:89:ARG:HE	12:CL:91:LYS:HE2	1.65	0.61
42:BH:67:LEU:HG	42:BH:71:LEU:CD2	2.31	0.61
1:CA:685:G:N2	1:CA:686:U:H3	1.99	0.61
35:BA:2830:G:H5'	39:BE:58:ARG:NH1	2.15	0.61
1:AA:1514:C:H2'	1:AA:1515:C:C6	2.36	0.61
5:CE:122:GLU:O	5:CE:123:LEU:HD23	2.01	0.61
35:BA:1625:C:H2'	35:BA:1626:G:O4'	2.01	0.61
53:BW:35:ILE:HG22	53:BW:36:LEU:N	2.15	0.61
35:BA:1854:A:H5'	35:BA:1855:G:OP2	2.00	0.61
54:BX:89:ILE:HA	54:BX:92:LEU:HD12	1.82	0.61
10:AJ:29:ARG:HH11	10:AJ:29:ARG:HG2	1.66	0.61
44:DN:4:TYR:N	44:DN:4:TYR:CD1	2.68	0.61
45:BO:42:SER:HA	45:BO:56:ASP:O	1.99	0.61
30:D4:29:PRO:C	30:D4:31:ILE:H	2.03	0.61
25:AY:78:ALA:HA	25:AY:81:LYS:CD	2.31	0.61
35:DA:1997:G:O2'	35:DA:1998:G:H5'	2.01	0.60
45:DO:68:GLU:OE2	45:DO:78:ARG:HD3	2.01	0.60
50:DT:74:ARG:HG2	50:DT:74:ARG:HH11	1.66	0.60
50:DT:86:ILE:HG12	50:DT:87:ASP:O	2.01	0.60
1:CA:865:A:H5'	1:CA:1078:U:C5	2.35	0.60
41:DG:47:LYS:O	41:DG:48:GLU:O	2.19	0.60
47:DQ:127:ILE:HD12	47:DQ:127:ILE:N	2.16	0.60
56:BZ:134:PRO:HG3	56:BZ:161:VAL:HG21	1.83	0.60
52:BV:24:LYS:HA	52:BV:94:LEU:HG	1.82	0.60
9:AI:126:SER:O	9:AI:127:LYS:HB3	2.01	0.60
28:B2:32:LEU:C	28:B2:32:LEU:HD12	2.21	0.60
54:BX:39:ILE:HD12	54:BX:40:LYS:N	2.15	0.60
27:B1:15:ALA:O	27:B1:46:LEU:HD23	2.01	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
28:D2:26:ARG:O	28:D2:29:LYS:HB2	2.01	0.60
1:CA:1385:G:O2'	1:CA:1386:G:H5'	2.00	0.60
3:CC:182:ILE:HG23	3:CC:203:PHE:CA	2.32	0.60
1:CA:1203:C:H2'	1:CA:1204:A:C8	2.36	0.60
35:BA:2491:U:H4'	35:BA:2570:G:OP1	1.99	0.60
27:D1:89:GLU:CD	27:D1:89:GLU:H	2.03	0.60
27:D1:88:LYS:HA	27:D1:91:LYS:HB2	1.83	0.60
46:BP:50:ARG:CZ	46:BP:51:PHE:CZ	2.85	0.60
3:AC:182:ILE:HG12	3:AC:203:PHE:HA	1.83	0.60
3:AC:11:ARG:HG2	3:AC:11:ARG:HH11	1.65	0.60
55:DY:2:ARG:C	55:DY:4:LYS:H	2.04	0.60
7:AG:103:TRP:O	7:AG:107:ALA:N	2.17	0.60
35:DA:513:A:H1'	51:DU:11:ARG:NH1	2.16	0.60
25:CY:132:ILE:O	25:CY:136:ALA:N	2.32	0.60
25:CY:64:ARG:HA	25:CY:103:ILE:HD11	1.83	0.60
1:CA:1323:G:H4'	1:CA:1363:C:C2	2.36	0.60
1:CA:1218:C:H2'	1:CA:1219:U:C6	2.36	0.60
7:CG:103:TRP:O	7:CG:107:ALA:N	2.17	0.60
12:AL:26:ALA:O	12:AL:27:LEU:HB2	2.01	0.60
33:B7:5:TRP:CZ3	35:BA:464:U:H4'	2.36	0.60
43:BI:94:ALA:C	43:BI:96:ASP:H	2.03	0.60
43:BI:99:GLU:O	43:BI:103:ARG:HB2	2.01	0.60
35:DA:1246:A:OP2	46:DP:16:ARG:NH2	2.34	0.60
1:AA:640:A:H4'	8:AH:116:LYS:NZ	2.16	0.60
12:AL:55:VAL:HG12	12:AL:56:ALA:N	2.12	0.60
29:B3:6:VAL:HB	29:B3:54:VAL:HG11	1.83	0.60
38:DD:48:ARG:NH1	38:DD:48:ARG:HG3	2.16	0.60
31:D5:16:ARG:CG	31:D5:16:ARG:HH11	2.14	0.60
1:AA:383:A:H8	1:AA:383:A:O5'	1.84	0.60
38:DD:142:VAL:HG23	38:DD:193:VAL:N	2.15	0.60
31:B5:13:LYS:O	31:B5:16:ARG:HB3	2.01	0.60
40:DF:177:ALA:HB1	40:DF:178:PRO:CD	2.31	0.60
29:D3:56:VAL:O	29:D3:57:GLU:HB2	2.01	0.60
27:D1:19:GLN:CD	27:D1:44:PRO:HG3	2.20	0.60
26:B0:26:TYR:CE2	35:BA:857:C:H1'	2.36	0.60
9:AI:79:LEU:O	9:AI:79:LEU:HD13	2.01	0.60
41:DG:2:PRO:O	41:DG:3:LEU:HB2	2.01	0.60
36:BB:65:C:C2'	36:BB:66:A:H5'	2.30	0.60
1:CA:1241:G:H2'	1:CA:1242:C:C5	2.36	0.60
35:BA:1031:G:N2	35:BA:1124:C:H1'	2.15	0.60
35:DA:979:G:H3'	35:DA:980:A:C5'	2.31	0.60
43:DI:31:LEU:HB3	43:DI:32:PRO:HD3	1.83	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
23:CW:41:C:O2'	23:CW:42:C:H5'	2.01	0.60
4:AD:50:ARG:HD2	4:AD:51:PRO:O	2.01	0.60
1:CA:110:C:H2'	1:CA:111:G:O4'	2.00	0.60
6:CF:28:ARG:HG3	6:CF:28:ARG:HH11	1.65	0.60
1:AA:519:C:H2'	1:AA:520:A:C8	2.37	0.60
1:AA:547:A:H4'	1:AA:548:G:O5'	1.99	0.60
9:CI:114:TYR:CE1	10:CJ:59:SER:HA	2.35	0.60
38:DD:80:ALA:HB3	38:DD:94:LEU:HD13	1.83	0.60
41:DG:103:LEU:HB3	41:DG:107:LEU:HD12	1.82	0.60
41:DG:125:PHE:HB3	41:DG:128:ARG:O	2.01	0.60
52:BV:19:LYS:HB3	52:BV:96:ILE:O	2.01	0.60
52:BV:64:HIS:CB	52:BV:96:ILE:HA	2.25	0.60
54:BX:70:LEU:HG	54:BX:71:GLY:N	2.15	0.60
27:B1:46:LEU:HD13	27:B1:46:LEU:O	2.00	0.60
27:B1:86:SER:CA	27:B1:89:GLU:CG	2.77	0.60
42:BH:89:ILE:CD1	42:BH:129:THR:HB	2.30	0.60
56:DZ:39:VAL:HG23	56:DZ:40:ASP:N	2.17	0.60
35:DA:528:A:C2	35:DA:2043:C:C5'	2.83	0.60
35:DA:2624:G:O2'	35:DA:2625:G:H5'	2.01	0.60
52:DV:64:HIS:CB	52:DV:96:ILE:HA	2.24	0.60
40:BF:117:ARG:HH21	40:BF:187:VAL:HA	1.65	0.60
39:BE:142:GLY:C	39:BE:143:ASN:ND2	2.54	0.60
47:BQ:76:LYS:H	47:BQ:88:GLY:HA2	1.65	0.60
35:DA:2708:G:H2'	35:DA:2709:G:H8	1.65	0.60
35:BA:2714:G:O2'	35:BA:2715:C:H5'	2.01	0.60
2:CB:185:ILE:HG22	2:CB:199:TYR:CD1	2.36	0.60
1:CA:1363(A):A:H4'	1:CA:1364:U:C5'	2.26	0.60
55:DY:37:VAL:HG22	55:DY:67:LEU:O	2.00	0.60
6:AF:87:ARG:HH11	6:AF:87:ARG:HG3	1.65	0.60
25:CY:7:TYR:CZ	25:CY:160:GLU:HG2	2.36	0.60
1:CA:262:A:H2'	1:CA:263:A:C8	2.36	0.60
25:AY:65:THR:HG22	25:AY:66:LEU:N	2.16	0.60
25:AY:150:SER:C	25:AY:152:ASP:N	2.54	0.60
35:DA:2248:C:C2'	35:DA:2249:U:H5'	2.31	0.60
2:CB:102:LEU:HD12	2:CB:102:LEU:H	1.65	0.60
35:DA:260:G:H1'	35:DA:621:A:H1'	1.83	0.60
1:CA:1106:G:H2'	1:CA:1107:C:H6	1.65	0.60
5:AE:11:ILE:HD12	5:AE:31:LEU:HD22	1.82	0.60
54:BX:64:LYS:CG	54:BX:65:ARG:N	2.64	0.60
5:AE:150:ARG:CB	5:AE:150:ARG:HH11	2.14	0.60
1:CA:449:C:H2'	1:CA:450:G:O4'	2.01	0.60
1:CA:710:G:H5"	6:CF:54:LYS:HE3	1.81	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:BG:53:LEU:N	41:BG:53:LEU:HD22	2.14	0.60
35:BA:708:C:N4	35:BA:723:G:H1	1.95	0.60
47:DQ:82:ARG:HG2	47:DQ:82:ARG:NH1	2.16	0.60
1:AA:1056:U:H5'	3:AC:163:ALA:CB	2.31	0.60
42:BH:158:HIS:NE2	42:BH:170:ARG:HA	2.16	0.60
1:CA:186:C:H4'	20:CT:82:SER:HB3	1.82	0.60
1:AA:1277:C:C2'	1:AA:1278:U:H5'	2.31	0.60
38:DD:32:SER:OG	38:DD:33:LEU:N	2.34	0.60
53:BW:5:ALA:HB3	53:BW:105:VAL:H	1.66	0.60
1:CA:628:G:O2'	1:CA:629:G:H5'	2.01	0.60
1:CA:473:G:H5''	16:CP:81:ARG:HE	1.66	0.60
44:DN:73:THR:O	44:DN:75:TYR:N	2.30	0.60
1:AA:304:U:H2'	1:AA:305:G:C8	2.36	0.60
1:CA:831:U:H2'	1:CA:832:C:C6	2.36	0.60
35:DA:271(E):U:H2'	35:DA:271(F):C:C6	2.36	0.60
1:CA:291:C:O2'	1:CA:292:G:H5'	2.02	0.60
1:AA:1267:C:O2	1:AA:1267:C:H2'	2.01	0.60
3:CC:206:GLU:O	3:CC:208:ILE:N	2.34	0.60
1:CA:414:A:H2'	1:CA:415:A:O4'	2.02	0.60
55:DY:47:LYS:HG3	55:DY:60:PHE:CZ	2.36	0.60
38:BD:35:LYS:NZ	38:BD:104:TYR:HB2	2.16	0.60
38:BD:242:ARG:HG3	38:BD:242:ARG:NH1	2.14	0.60
36:DB:42:C:H4'	41:DG:67:LYS:HB3	1.84	0.60
45:BO:46:ALA:N	45:BO:54:GLU:HG2	2.17	0.60
36:BB:75:G:N2	56:BZ:87:ASP:OD2	2.35	0.60
56:BZ:120:ILE:HB	56:BZ:171:ILE:C	2.21	0.60
27:B1:48:LYS:CG	27:B1:49:VAL:H	2.08	0.60
27:B1:68:PRO:CG	27:B1:69:LYS:H	2.07	0.60
27:B1:68:PRO:O	27:B1:71:TYR:N	2.35	0.60
2:AB:75:LYS:CA	2:AB:78:GLN:HE21	2.02	0.60
55:DY:75:ILE:HD11	55:DY:78:ALA:O	2.01	0.60
28:D2:23:LYS:CA	54:DX:5:TYR:CE1	2.85	0.60
54:DX:29:TRP:CZ3	54:DX:76:ARG:HG2	2.34	0.60
54:DX:8:ILE:N	54:DX:8:ILE:HD12	2.15	0.60
4:CD:62:GLN:HB3	4:CD:66:ARG:NH2	2.16	0.60
40:BF:29:ASN:HB3	40:BF:112:MET:HE3	1.83	0.60
35:BA:250:G:H2'	35:BA:251:A:C8	2.36	0.60
35:DA:2821:A:H3'	35:DA:2821:A:OP2	2.01	0.60
48:DR:52:ILE:O	48:DR:55:ALA:N	2.35	0.60
3:AC:141:VAL:HG12	3:AC:141:VAL:O	2.01	0.60
1:AA:1437:C:N4	1:AA:1464:G:H1	1.97	0.60
35:BA:2708:G:H2'	35:BA:2709:G:H8	1.66	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:BR:9:LYS:HZ1	48:BR:42:LYS:HB3	1.65	0.60
19:AS:16:LEU:H	19:AS:16:LEU:CD1	2.14	0.60
1:AA:501:C:H2'	1:AA:502:G:H8	1.66	0.60
25:AY:30:THR:HG21	25:AY:179:LYS:HD2	1.81	0.60
51:BU:33:ARG:HA	51:BU:36:ARG:HB2	1.82	0.60
11:CK:43:SER:CA	11:CK:47:VAL:HG21	2.31	0.60
35:BA:1424:G:H2'	35:BA:1425:G:O4'	2.01	0.60
35:DA:2744:G:N7	35:DA:2755:C:O2	2.35	0.60
55:BY:28:LYS:CE	55:BY:30:VAL:HA	2.31	0.60
2:CB:102:LEU:O	2:CB:105:PHE:HB2	2.01	0.60
1:AA:693:G:H2'	1:AA:694:A:C8	2.36	0.60
52:DV:79:VAL:HG12	52:DV:80:GLN:N	2.16	0.60
31:D5:40:LYS:HE2	31:D5:46:CYS:CB	2.30	0.60
5:AE:147:ASP:HA	5:AE:150:ARG:NH1	2.11	0.60
9:CI:71:SER:HA	9:CI:74:ILE:HD12	1.82	0.60
54:DX:64:LYS:CG	54:DX:65:ARG:N	2.64	0.60
35:DA:778:G:H5''	38:DD:48:ARG:HD2	1.83	0.60
8:CH:82:HIS:CD2	8:CH:138:TRP:NE1	2.68	0.60
8:AH:88:LYS:HB3	8:AH:89:PRO:HD2	1.83	0.60
35:DA:2208:A:H1'	35:DA:2219:G:C2	2.36	0.60
32:D6:13:CYS:HA	32:D6:50:ARG:O	2.01	0.60
1:AA:831:U:H2'	1:AA:832:C:C6	2.36	0.60
35:BA:736:C:H2'	35:BA:737:C:H6	1.67	0.60
35:BA:347:A:H2'	35:BA:348:G:C8	2.36	0.60
1:CA:597:G:C2'	1:CA:598:U:H5'	2.30	0.60
52:BV:1:MET:HE1	52:BV:46:VAL:HG23	1.83	0.60
1:CA:1030(D):A:H2'	1:CA:1031:G:H5'	1.84	0.60
17:AQ:76:LEU:HD12	17:AQ:77:VAL:H	1.66	0.60
1:CA:1035:A:H2'	1:CA:1036:G:H8	1.66	0.60
35:BA:2264:C:H2'	35:BA:2265:U:C6	2.36	0.60
50:BT:58:ASN:N	50:BT:58:ASN:HD22	1.98	0.60
50:DT:118:ARG:O	50:DT:121:ILE:HG22	2.00	0.60
44:BN:73:THR:O	44:BN:75:TYR:N	2.28	0.60
1:CA:1442(A):G:H22	50:DT:119:LYS:HB2	1.65	0.60
38:BD:211:ARG:HH11	38:BD:211:ARG:CG	2.13	0.60
38:BD:57:GLY:HA2	38:BD:214:TRP:O	2.01	0.60
38:BD:227:ASN:HB3	38:BD:228:PRO:HD2	1.82	0.60
41:DG:82:LEU:HB3	41:DG:87:PRO:HG3	1.83	0.60
50:BT:28:VAL:CG2	50:BT:47:GLY:H	2.07	0.60
42:DH:146:ALA:O	42:DH:147:ASN:C	2.38	0.60
2:AB:12:GLU:OE2	2:AB:214:ILE:HD11	2.00	0.60
2:AB:213:LEU:C	2:AB:213:LEU:HD23	2.22	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
56:DZ:8:TYR:HA	56:DZ:62:PRO:HG2	1.83	0.60
3:AC:124:ILE:HG13	3:AC:130:VAL:HG22	1.83	0.60
4:CD:79:PHE:HA	4:CD:93:PHE:CD2	2.37	0.60
35:BA:257:A:H2'	35:BA:258:G:O4'	2.00	0.60
35:BA:565:C:O3'	52:BV:81:TYR:HE1	1.84	0.60
46:BP:39:LYS:C	46:BP:41:ARG:H	2.04	0.60
55:BY:81:LYS:HG2	55:BY:97:ARG:H	1.66	0.60
46:DP:7:ARG:HB3	46:DP:8:PRO:CD	2.30	0.60
1:AA:501:C:O2'	1:AA:502:G:H5'	2.02	0.60
4:AD:56:VAL:O	4:AD:58:LEU:N	2.34	0.60
4:AD:59:ARG:NH1	4:AD:59:ARG:HA	2.16	0.60
50:DT:11:GLU:CD	50:DT:11:GLU:N	2.39	0.60
12:AL:22:SER:C	12:AL:24:VAL:H	2.04	0.60
43:BI:94:ALA:HA	43:BI:97:ILE:CG1	2.31	0.60
11:AK:44:SER:O	11:AK:47:VAL:HB	2.01	0.60
35:DA:618:C:H2'	35:DA:619:G:O4'	2.01	0.60
8:AH:122:ARG:HA	8:AH:125:ARG:CB	2.31	0.60
8:AH:26:VAL:HG22	8:AH:32:LYS:HZ2	1.65	0.60
9:AI:118:LYS:HB3	9:AI:118:LYS:NZ	2.15	0.60
15:CO:11:VAL:HG21	15:CO:34:LEU:HD23	1.82	0.60
1:AA:445:G:H2'	1:AA:446:G:H8	1.66	0.60
50:BT:14:TYR:CD1	50:BT:14:TYR:N	2.68	0.60
35:BA:2175:C:H2'	35:BA:2176:A:C5'	2.29	0.60
39:BE:104:VAL:O	39:BE:167:VAL:HG12	2.01	0.60
23:CW:59:A:C2	23:CW:61:U:H2'	2.37	0.60
32:B6:13:CYS:HA	32:B6:50:ARG:O	2.01	0.60
1:AA:390:C:O3'	16:AP:28:ARG:NH2	2.34	0.60
1:CA:460:G:O6	1:CA:470:C:H5''	2.02	0.60
35:DA:347:A:H2'	35:DA:348:G:C8	2.36	0.60
35:DA:853:G:H2'	35:DA:854:G:C8	2.36	0.60
17:CQ:95:TYR:C	17:CQ:97:SER:H	2.03	0.60
35:BA:1448:G:H2'	35:BA:1449:A:C8	2.37	0.60
27:D1:16:ASN:ND2	27:D1:16:ASN:O	2.34	0.60
1:AA:627:G:H2'	1:AA:628:G:C8	2.35	0.60
36:DB:15:A:H3'	36:DB:16:G:H5'	1.83	0.60
47:DQ:61:GLY:H	56:DZ:177:PRO:HB2	1.66	0.60
35:BA:1127:A:C2'	35:BA:1128:A:H5''	2.32	0.60
38:BD:204:ILE:O	38:BD:204:ILE:HG13	2.00	0.60
10:CJ:49:VAL:HG13	14:CN:41:ARG:HB2	1.82	0.60
38:BD:222:ARG:O	38:BD:224:ALA:N	2.35	0.60
16:AP:20:VAL:HG23	16:AP:34:GLU:O	2.01	0.60
56:BZ:41:LEU:O	56:BZ:44:PHE:HB3	2.01	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2632:A:O2'	39:BE:61:ARG:NH2	2.35	0.60
42:DH:144:VAL:HG12	42:DH:148:ILE:HD11	1.83	0.60
35:BA:393:C:H2'	35:BA:394:A:H8	1.66	0.60
42:BH:89:ILE:CD1	42:BH:89:ILE:N	2.64	0.60
44:DN:42:TRP:CE2	44:DN:44:PRO:HD3	2.36	0.60
35:DA:998:C:P	51:DU:93:LYS:HE2	2.41	0.60
49:BS:28:VAL:H	49:BS:89:ARG:HB2	1.66	0.60
4:CD:106:TYR:CE1	4:CD:113:SER:HA	2.37	0.60
4:CD:176:LEU:HG	4:CD:177:ASP:N	2.16	0.60
47:BQ:127:ILE:HD12	47:BQ:127:ILE:N	2.15	0.60
27:B1:40:ARG:HD2	35:BA:2081:C:H4'	1.84	0.60
35:BA:869:G:H2'	35:BA:870:A:H8	1.66	0.60
48:BR:12:ARG:HG3	48:BR:12:ARG:HH11	1.66	0.60
49:DS:85:VAL:CG2	49:DS:106:ARG:HB2	2.31	0.60
25:CY:30:THR:C	25:CY:32:ARG:H	2.04	0.60
42:DH:67:LEU:HG	42:DH:71:LEU:CD2	2.30	0.60
12:AL:36:VAL:O	12:AL:58:VAL:HG13	2.02	0.60
2:CB:107:THR:HG23	2:CB:110:GLN:OE1	2.02	0.60
9:CI:10:ARG:NH2	9:CI:107:ARG:HD3	2.16	0.60
1:CA:1343:G:H1'	9:CI:121:ARG:HH12	1.66	0.60
8:AH:26:VAL:O	8:AH:59:LEU:N	2.34	0.60
10:AJ:40:LEU:HD12	10:AJ:41:PRO:O	2.01	0.60
2:AB:169:LYS:HD3	2:AB:169:LYS:O	2.01	0.60
1:AA:625:G:C4	1:AA:626:U:C5	2.90	0.60
9:CI:26:VAL:HG22	9:CI:61:ALA:HB3	1.84	0.60
35:DA:64:A:H2'	35:DA:65:C:C6	2.36	0.60
35:DA:542:C:H2'	35:DA:543:C:OP1	2.02	0.60
15:CO:8:LYS:O	15:CO:12:ILE:HG13	2.01	0.60
1:AA:834:C:H2'	1:AA:835:U:H6	1.66	0.60
35:DA:1688:U:H5'	35:DA:1689:A:OP1	2.02	0.60
1:CA:460:G:H21	1:CA:472:A:H62	1.49	0.60
35:BA:2626:C:H2'	35:BA:2627:G:H8	1.65	0.60
35:BA:1847:A:H2'	35:BA:1847:A:N3	2.16	0.60
5:CE:78:HIS:HB2	5:CE:79:GLU:OE1	2.01	0.60
35:DA:1811:G:O2'	35:DA:1812:A:H5'	2.02	0.60
1:CA:148:G:H1	1:CA:174:C:H42	1.49	0.60
2:AB:31:TYR:HD2	2:AB:31:TYR:N	2.00	0.60
56:BZ:105:VAL:N	56:BZ:141:VAL:HG11	2.17	0.60
35:DA:1192:G:C2'	35:DA:1193:G:H5'	2.32	0.60
35:BA:632:A:H2'	35:BA:633:A:C8	2.37	0.60
35:DA:2555:U:H2'	35:DA:2556:C:H5'	1.82	0.60
35:DA:271(J):C:H2'	35:DA:271(K):U:H5''	1.83	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
57:DC:82:LYS:HB3	57:DC:86:ALA:HB2	1.83	0.60
35:DA:2759:G:O2'	35:DA:2760:C:H5'	2.02	0.60
43:BI:91:SER:CB	43:BI:121:LYS:HE3	2.30	0.60
38:BD:206:LEU:HD23	38:BD:211:ARG:HH11	1.66	0.60
41:DG:158:ALA:O	41:DG:159:VAL:HG13	2.01	0.60
41:DG:96:ARG:HG3	41:DG:97:ASP:N	2.16	0.60
45:BO:68:GLU:OE2	45:BO:78:ARG:HD3	2.01	0.60
56:BZ:6:LYS:HA	56:BZ:60:GLU:O	2.01	0.60
51:BU:90:VAL:CG2	52:BV:39:LEU:HD12	2.32	0.60
54:BX:82:GLN:HB3	54:BX:85:PRO:HG2	1.83	0.60
39:DE:59:VAL:HG21	39:DE:63:LEU:HA	1.84	0.60
27:B1:88:LYS:HA	27:B1:91:LYS:HD2	1.84	0.60
35:DA:143(A):C:H2'	35:DA:143(A):C:O2	2.01	0.60
35:DA:143:G:H2'	35:DA:143(A):C:C6	2.36	0.60
34:D8:36:LYS:O	34:D8:37:SER:O	2.19	0.60
42:BH:102:ALA:HB1	42:BH:115:VAL:O	2.02	0.60
56:DZ:86:VAL:HG12	56:DZ:87:ASP:H	1.65	0.60
44:DN:44:PRO:C	44:DN:46:VAL:H	2.04	0.60
52:DV:22:VAL:HG21	52:DV:96:ILE:HD12	1.84	0.60
44:BN:66:LYS:O	44:BN:87:LEU:HB3	2.02	0.60
35:DA:244:A:H2'	35:DA:245:G:O4'	2.01	0.60
34:D8:43:GLN:O	34:D8:44:LYS:HD2	2.02	0.60
35:DA:1021:A:H3'	35:DA:1021:A:H8	1.67	0.60
40:BF:89:VAL:HG12	40:BF:90:PHE:N	2.16	0.60
46:BP:39:LYS:HD3	46:BP:40:SER:N	2.16	0.60
47:BQ:43:THR:HG1	47:BQ:46:GLN:HG3	1.65	0.60
48:DR:29:LEU:HD23	48:DR:70:LEU:HD11	1.84	0.60
2:AB:79:ASP:O	2:AB:82:ARG:N	2.34	0.60
27:D1:23:LYS:HB3	27:D1:37:ILE:CD1	2.24	0.60
44:BN:58:ASP:OD1	44:BN:124:ALA:HB1	2.01	0.60
18:CR:70:ILE:O	18:CR:74:ARG:HB2	2.01	0.60
35:DA:792:G:C4'	35:DA:793:A:H5'	2.31	0.60
4:AD:170:VAL:HG13	4:AD:171:GLY:N	2.16	0.60
4:AD:176:LEU:CD1	4:AD:177:ASP:H	2.14	0.60
1:AA:1488:G:H2'	1:AA:1489:G:H8	1.67	0.60
1:AA:734:G:O2'	1:AA:735:C:H5'	2.01	0.60
35:DA:1252:G:N3	51:DU:33:ARG:HD2	2.17	0.60
12:CL:24:VAL:HG13	12:CL:98:TYR:HE2	1.63	0.60
1:AA:1010:G:H22	1:AA:1020:U:H1'	1.65	0.60
37:BC:44:HIS:HA	37:BC:174:PRO:CB	2.31	0.60
42:BH:46:GLU:O	42:BH:47:GLU:HB2	2.02	0.60
35:DA:2262:U:H4'	35:DA:2328:A:C2	2.36	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2328:A:H2'	35:DA:2329:G:C8	2.36	0.60
35:DA:2745:C:H2'	35:DA:2746:U:H6	1.65	0.60
13:AM:108:ARG:N	13:AM:108:ARG:HD2	2.03	0.60
25:CY:88:LEU:H	25:CY:88:LEU:HD12	1.65	0.60
43:DI:14:ASP:O	43:DI:15:VAL:O	2.19	0.60
9:CI:118:LYS:HB3	9:CI:118:LYS:NZ	2.16	0.60
8:AH:51:VAL:HG11	8:AH:60:ARG:HG2	1.81	0.60
31:D5:30:LEU:HD11	53:DW:38:TYR:HB2	1.83	0.60
29:B3:56:VAL:CG1	29:B3:57:GLU:H	2.00	0.60
35:BA:2748:A:H2	42:BH:63:SER:HB3	1.67	0.60
5:CE:150:ARG:CB	5:CE:150:ARG:HH11	2.14	0.60
31:D5:12:SER:O	31:D5:13:LYS:C	2.38	0.60
16:CP:6:LEU:N	16:CP:6:LEU:CD1	2.65	0.60
40:DF:128:ALA:O	40:DF:142:TRP:NE1	2.33	0.60
1:AA:9:G:H5'	5:AE:122:GLU:OE2	2.01	0.60
1:CA:105:G:H2'	1:CA:106:C:C6	2.36	0.60
57:DC:59:ARG:HH21	57:DC:199:HIS:CB	2.15	0.60
13:AM:13:LYS:HZ2	13:AM:21:TYR:HE1	1.49	0.60
35:DA:878:A:H3'	35:DA:879:G:H8	1.65	0.60
1:AA:811:C:H4'	1:AA:900:A:N6	2.17	0.60
48:DR:6:SER:HA	48:DR:8:ARG:NH2	2.17	0.60
35:DA:2103:C:C2'	35:DA:2104:G:H5''	2.31	0.60
35:BA:2339:G:H2'	35:BA:2340:G:H8	1.67	0.60
35:BA:1642:G:H2'	35:BA:1643:G:H8	1.65	0.60
35:DA:648:G:C4'	35:DA:2351:G:H5''	2.32	0.60
44:DN:3:THR:O	44:DN:5:VAL:N	2.27	0.60
35:DA:2876:G:H4'	50:DT:2:ASN:O	2.02	0.60
46:BP:108:LYS:O	46:BP:110:TYR:N	2.31	0.60
1:AA:519:C:H2'	1:AA:520:A:H8	1.65	0.60
57:DC:76:ALA:HB3	57:DC:94:VAL:HG11	1.84	0.60
35:BA:37:C:H2'	35:BA:38:A:C8	2.35	0.60
35:DA:2742:C:O2'	35:DA:2743:C:H5'	2.02	0.60
54:DX:28:PHE:CD1	54:DX:28:PHE:N	2.69	0.60
4:CD:50:ARG:HD2	4:CD:51:PRO:O	2.00	0.60
35:BA:1703:G:H2'	35:BA:1704:G:C8	2.37	0.60
41:DG:104:GLU:O	41:DG:106:LEU:N	2.34	0.60
10:CJ:35:SER:O	10:CJ:72:VAL:HG13	2.01	0.60
45:BO:31:LYS:C	45:BO:32:TYR:CD1	2.73	0.60
42:DH:87:LEU:C	42:DH:88:LEU:HD22	2.22	0.60
54:DX:36:LYS:C	54:DX:38:GLU:H	2.04	0.60
36:DB:104:U:O2'	56:DZ:72:ARG:HD2	2.00	0.60
56:DZ:118:GLN:NE2	56:DZ:118:GLN:HA	2.17	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
51:DU:52:ARG:O	51:DU:54:LYS:N	2.35	0.60
52:DV:96:ILE:CG2	52:DV:97:LYS:N	2.64	0.60
49:BS:104:GLY:O	49:BS:106:ARG:N	2.28	0.60
4:CD:18:LYS:NZ	4:CD:31:CYS:HB3	2.16	0.60
34:B8:49:VAL:HB	34:B8:53:PRO:HD3	1.82	0.60
35:BA:673:C:H5'	40:BF:54:ARG:NH1	2.17	0.60
1:AA:1422:G:H4'	45:BO:49:ARG:NH1	2.17	0.60
2:AB:200:ILE:O	2:AB:201:ILE:HD13	2.02	0.60
44:BN:34:LEU:HD23	44:BN:120:LEU:HD23	1.84	0.60
1:AA:1313:U:P	19:AS:6:LYS:HG3	2.42	0.60
6:AF:26:ILE:O	6:AF:30:LEU:HG	2.01	0.60
1:CA:1513:A:C6	1:CA:1514:C:N4	2.69	0.60
25:CY:128:ALA:O	25:CY:132:ILE:HG13	2.01	0.60
1:CA:1227:A:OP2	13:CM:111:LYS:HE3	2.00	0.60
1:AA:1323:G:H4'	1:AA:1363:C:C2	2.36	0.60
37:BC:45:ALA:H	37:BC:174:PRO:CB	2.14	0.60
51:BU:18:LEU:CD2	51:BU:22:LYS:HE2	2.31	0.60
43:BI:133:HIS:CB	43:BI:134:PRO:CD	2.78	0.60
42:DH:68:THR:HA	42:DH:71:LEU:HD22	1.83	0.60
35:DA:622:G:O2'	35:DA:623:G:H5'	2.02	0.60
31:B5:52:TYR:HA	31:B5:56:LYS:HZ2	1.67	0.60
31:B5:32:PRO:O	31:B5:33:CYS:HB2	2.00	0.60
10:CJ:40:LEU:HD12	10:CJ:41:PRO:O	2.01	0.60
46:DP:112:LEU:C	46:DP:112:LEU:HD13	2.21	0.60
38:DD:130:ALA:HB2	38:DD:192:THR:CB	2.32	0.60
40:BF:158:THR:HG21	40:BF:163:VAL:CB	2.26	0.60
35:BA:1615:C:H5	35:BA:1617:C:C4	2.19	0.60
50:DT:14:TYR:HD1	50:DT:14:TYR:N	1.99	0.60
40:BF:177:ALA:HB1	40:BF:178:PRO:CD	2.30	0.60
29:D3:56:VAL:O	29:D3:57:GLU:CB	2.50	0.60
1:CA:490:G:H2'	1:CA:491:G:C8	2.36	0.60
5:AE:91:LEU:HG	5:AE:120:THR:HG22	1.83	0.60
35:BA:1232:G:H2'	35:BA:1233:C:C6	2.36	0.60
1:AA:1281:U:H4'	1:AA:1282:C:OP2	2.01	0.60
35:DA:291:C:H2'	35:DA:292:C:H6	1.64	0.60
15:AO:23:GLY:O	15:AO:24:SER:HB3	2.01	0.60
1:AA:688:G:H5'	11:AK:46:GLY:O	2.02	0.60
45:DO:3:GLN:HB2	45:DO:4:PRO:HD2	1.84	0.60
35:DA:2875:C:H4'	50:DT:5:ALA:HB2	1.82	0.60
1:CA:884:U:H4'	1:CA:885:G:C5'	2.32	0.60
54:BX:88:LYS:HD2	54:BX:88:LYS:N	2.17	0.60
35:BA:271(E):U:H2'	35:BA:271(F):C:C6	2.37	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:151:C:H42	35:DA:175:G:H1	1.50	0.60
49:BS:41:ASP:O	49:BS:45:GLY:HA2	2.00	0.60
1:CA:119:A:O2'	1:CA:120:A:OP2	2.19	0.60
35:BA:838:C:H42	35:BA:940:G:H1	1.49	0.60
1:CA:775:G:O2'	1:CA:776:G:H5'	2.02	0.60
40:DF:141:ALA:O	40:DF:144:LYS:HB3	2.01	0.60
10:CJ:29:ARG:HH11	10:CJ:29:ARG:HG2	1.66	0.60
35:DA:1765:C:H2'	35:DA:1766:U:C6	2.36	0.60
53:BW:9:TYR:HD2	53:BW:102:HIS:HE2	1.49	0.60
35:BA:2825:C:H2'	35:BA:2826:A:O4'	2.02	0.60
35:DA:2864:G:O2'	35:DA:2865:U:H5'	2.02	0.60
1:CA:974:A:C1'	14:CN:31:ARG:HH21	2.15	0.60
14:CN:40:CYS:SG	14:CN:41:ARG:N	2.74	0.60
1:CA:923:A:H2'	1:CA:924:C:C6	2.36	0.60
38:DD:222:ARG:O	38:DD:223:GLY:C	2.40	0.60
16:CP:21:VAL:O	16:CP:33:ILE:HB	2.02	0.60
35:DA:2314:C:H2'	35:DA:2315:G:H8	1.67	0.60
41:DG:96:ARG:O	41:DG:99:MET:HB3	2.01	0.60
42:DH:89:ILE:HD13	42:DH:90:LYS:H	1.66	0.60
10:AJ:50:ILE:HA	10:AJ:60:ARG:HG2	1.82	0.60
35:BA:2223:G:H2'	35:BA:2224:G:H5'	1.84	0.60
54:DX:35:THR:HB	54:DX:75:ASP:OD2	2.02	0.60
47:BQ:68:ILE:N	47:BQ:68:ILE:HD13	2.14	0.60
40:BF:3:GLU:CB	40:BF:24:LEU:HG	2.31	0.60
25:AY:68:VAL:O	25:AY:70:SER:N	2.33	0.60
35:BA:244:A:H2'	35:BA:245:G:O4'	2.02	0.60
35:BA:2820:A:O3'	48:BR:2:ARG:NH2	2.34	0.60
35:BA:1280:G:C3'	35:BA:1281:G:H5''	2.32	0.60
2:AB:168:THR:HG23	2:AB:192:SER:OG	2.01	0.60
2:AB:185:ILE:HG22	2:AB:199:TYR:HD1	1.67	0.60
18:CR:36:ASN:HD22	18:CR:39:VAL:CB	2.14	0.60
4:AD:108:LEU:CB	4:AD:110:PHE:CE1	2.84	0.60
4:AD:9:CYS:SG	4:AD:31:CYS:O	2.59	0.60
1:CA:818:G:C3'	1:CA:819:A:H5''	2.31	0.60
35:DA:2766:G:N3	35:DA:2766:G:H2'	2.16	0.60
1:AA:1104:G:OP1	2:AB:111:ARG:HD2	2.01	0.60
25:CY:18:LEU:O	25:CY:20:VAL:N	2.34	0.60
35:DA:2282:G:H1	35:DA:2427:C:N4	1.94	0.60
7:AG:86:GLN:HG2	23:AW:33:C:C5'	2.32	0.60
22:AV:30:A:H2'	22:AV:31:U:C5	2.37	0.60
5:AE:69:VAL:O	5:AE:71:LEU:N	2.35	0.60
12:AL:115:LYS:O	12:AL:117:ARG:HG3	2.01	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
31:D5:40:LYS:HZ2	31:D5:45:VAL:HA	1.67	0.60
31:B5:52:TYR:HA	31:B5:56:LYS:NZ	2.17	0.60
9:AI:113:LYS:N	9:AI:113:LYS:HD2	2.16	0.60
12:CL:46:LYS:CG	12:CL:47:LYS:H	2.09	0.60
35:DA:1177:A:H5''	35:DA:1178:C:O5'	2.01	0.60
33:D7:5:TRP:CZ3	35:DA:464:U:H4'	2.37	0.60
38:BD:97:TYR:HB2	38:BD:101:GLU:O	2.01	0.60
35:BA:2121:G:H1	35:BA:2177:C:H42	1.49	0.60
11:CK:99:GLN:C	11:CK:101:SER:H	2.05	0.60
40:BF:178:PRO:CG	40:BF:179:GLU:H	2.12	0.60
1:CA:393:A:OP2	16:CP:12:LYS:HD3	2.01	0.60
35:DA:122:G:H1	35:DA:129:C:H42	1.50	0.60
17:AQ:5:VAL:HA	17:AQ:59:ILE:O	2.02	0.60
35:DA:1689:A:N6	35:DA:1698:A:H2	1.99	0.60
35:DA:1847:A:N3	35:DA:1847:A:H2'	2.16	0.60
1:CA:1277:C:C2'	1:CA:1278:U:H5'	2.32	0.60
35:BA:861:A:H62	35:BA:916:G:H21	1.48	0.60
38:BD:231:HIS:ND1	38:BD:232:PRO:CD	2.64	0.60
15:AO:33:THR:OG1	15:AO:63:ARG:HD2	2.02	0.60
15:AO:82:ILE:HD11	15:AO:87:ILE:O	2.02	0.60
54:DX:89:ILE:HD12	54:DX:89:ILE:N	2.16	0.60
2:CB:28:PHE:CE1	2:CB:31:TYR:HB2	2.36	0.60
35:DA:1467:C:OP2	35:DA:1547:C:H5	1.85	0.60
38:DD:10:THR:O	38:DD:11:PRO:C	2.35	0.60
10:CJ:32:ALA:HB1	10:CJ:75:ILE:CD1	2.31	0.60
1:AA:1294:G:H2'	1:AA:1295:G:H8	1.67	0.60
8:CH:18:ARG:N	8:CH:78:GLN:HE22	1.99	0.60
35:DA:2179:C:H1'	57:DC:171:ILE:CB	2.32	0.60
2:AB:224:GLN:HG2	2:AB:224:GLN:O	2.02	0.60
1:CA:1251:A:H5''	9:CI:12:GLU:OE1	2.01	0.60
35:BA:1440:G:H2'	35:BA:1441:G:C8	2.36	0.60
45:DO:36:GLY:H	45:DO:62:VAL:HB	1.67	0.60
50:DT:109:GLU:CA	50:DT:112:ARG:HG3	2.31	0.60
50:DT:28:VAL:O	50:DT:88:ILE:HD11	2.00	0.60
38:DD:271:ILE:N	38:DD:271:ILE:HD12	2.17	0.60
42:DH:137:ASP:O	42:DH:138:LYS:HB2	2.02	0.60
28:B2:12:GLU:C	28:B2:14:ARG:HE	2.04	0.60
35:BA:141:A:C8	35:BA:1408:C:O2'	2.54	0.60
54:BX:36:LYS:C	54:BX:38:GLU:H	2.04	0.60
55:DY:81:LYS:HG2	55:DY:97:ARG:H	1.65	0.60
35:DA:143:G:H2'	35:DA:143(A):C:H6	1.67	0.60
54:DX:61:GLY:H	54:DX:70:LEU:HD21	1.66	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
51:DU:66:ASN:OD1	51:DU:76:TYR:N	2.34	0.60
1:AA:532:A:H2	1:AA:1207:G:O4'	1.84	0.60
46:BP:13:ASN:HD22	46:BP:13:ASN:H	1.50	0.60
27:D1:48:LYS:O	27:D1:49:VAL:HG23	2.01	0.60
35:BA:674:G:P	40:BF:54:ARG:HH22	2.25	0.60
47:BQ:69:PHE:CD1	47:BQ:70:PRO:HD2	2.36	0.60
49:DS:28:VAL:H	49:DS:89:ARG:HB2	1.66	0.60
44:BN:55:VAL:HG12	44:BN:126:PRO:HA	1.84	0.60
6:CF:62:TRP:CB	18:CR:35:ARG:HH12	2.15	0.60
2:CB:168:THR:HG21	2:CB:191:ASP:OD1	2.01	0.60
55:DY:28:LYS:CA	55:DY:39:VAL:H	2.15	0.60
55:DY:68:HIS:HB3	55:DY:71:LYS:CE	2.32	0.60
6:AF:69:GLU:HG2	6:AF:70:ASP:H	1.66	0.60
25:CY:169:ILE:O	25:CY:172:ALA:N	2.35	0.60
25:CY:36:ALA:HA	25:CY:39:LEU:CG	2.31	0.60
35:BA:1238:G:H2'	35:BA:1239:G:H8	1.67	0.60
35:DA:2600:A:C2'	35:DA:2601:C:H5'	2.32	0.60
35:BA:692:C:O2'	35:BA:693:C:H5'	2.02	0.60
1:AA:1392:G:N2	1:AA:1502:A:H8	2.00	0.60
1:AA:865:A:H2'	1:AA:866:C:O4'	2.02	0.60
2:AB:172:ILE:HD12	2:AB:172:ILE:N	2.10	0.60
33:D7:16:HIS:CE1	35:DA:465:G:H4'	2.37	0.60
33:D7:30:VAL:HG23	33:D7:31:LEU:N	2.15	0.60
46:DP:99:LEU:O	46:DP:102:ARG:HB3	2.01	0.60
1:AA:711:G:O2'	1:AA:712:A:H5'	2.02	0.60
1:CA:710:G:H5''	6:CF:54:LYS:CE	2.32	0.60
35:DA:1041:C:H5'	35:DA:1042:G:OP1	2.02	0.60
29:D3:6:VAL:HB	29:D3:54:VAL:HG11	1.83	0.60
7:AG:121:ALA:O	7:AG:124:LEU:HB2	2.02	0.60
1:CA:255:G:O3'	17:CQ:17:LYS:HD2	2.02	0.60
5:CE:76:ILE:HG23	5:CE:77:PRO:N	2.17	0.60
35:BA:523:C:O2'	35:BA:524:U:H5'	2.02	0.60
35:BA:2627:G:N3	35:BA:2781:A:H2	1.99	0.60
35:BA:291:C:H2'	35:BA:292:C:H6	1.66	0.60
35:DA:1602:U:H3'	35:DA:1603:A:H5''	1.83	0.60
35:BA:1720:U:C2'	35:BA:1721:G:H5'	2.32	0.60
56:DZ:77:ASP:OD1	56:DZ:79:ARG:HD2	2.00	0.60
7:AG:21:VAL:HG23	7:AG:22:LEU:H	1.66	0.60
3:AC:138:VAL:CG2	3:AC:151:VAL:HG23	2.32	0.60
35:DA:1909:C:O2	35:DA:1909:C:H2'	2.00	0.60
35:BA:1555:G:H2'	35:BA:1556:C:C6	2.37	0.60
46:DP:108:LYS:C	46:DP:110:TYR:H	2.05	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:967:C:H2'	1:CA:968:A:N7	2.17	0.60
16:AP:53:VAL:HG23	16:AP:54:GLU:H	1.67	0.60
29:D3:1:MET:SD	29:D3:38:GLU:HG2	2.42	0.60
35:BA:2742:C:O2'	35:BA:2743:C:H5'	2.01	0.60
50:DT:100:TYR:O	50:DT:102:ILE:N	2.35	0.60
14:CN:33:VAL:HA	14:CN:39:LEU:O	2.02	0.60
38:BD:209:ALA:C	38:BD:210:GLY:O	2.37	0.60
1:CA:1391:U:H2'	1:CA:1392:G:H8	1.66	0.60
38:DD:223:GLY:O	38:DD:225:ALA:N	2.29	0.60
34:B8:43:GLN:O	34:B8:44:LYS:HD2	2.01	0.60
45:BO:79:PHE:CE2	45:BO:101:PRO:HB2	2.32	0.60
45:BO:31:LYS:HD2	45:BO:32:TYR:HE1	1.66	0.60
45:BO:77:ILE:HD11	50:BT:72:VAL:CG1	2.32	0.60
39:BE:52:LEU:O	39:BE:74:PRO:HA	2.01	0.60
39:BE:77:ILE:HG21	39:BE:79:ARG:HE	1.66	0.60
39:DE:176:ILE:HG22	39:DE:179:GLU:H	1.65	0.60
28:D2:29:LYS:O	28:D2:33:MET:N	2.31	0.60
35:DA:141:A:C8	35:DA:1408:C:O2'	2.54	0.60
42:BH:122:THR:O	42:BH:133:VAL:HG13	2.00	0.60
19:CS:6:LYS:HD2	19:CS:7:LYS:HD2	1.84	0.60
4:CD:126:ILE:HG22	4:CD:127:THR:H	1.65	0.60
4:CD:79:PHE:O	4:CD:82:ALA:HB3	2.01	0.60
35:BA:580:C:H2'	35:BA:581:C:C6	2.37	0.60
46:BP:33:ARG:O	46:BP:34:GLY:C	2.39	0.60
55:BY:89:PHE:C	55:BY:90:LEU:HD23	2.23	0.60
3:AC:53:ALA:HB2	3:AC:115:LEU:CD2	2.29	0.60
48:BR:84:ALA:HB3	48:BR:85:PRO:HD3	1.84	0.60
2:CB:80:ILE:HG21	2:CB:208:ILE:HG23	1.82	0.60
44:DN:16:ILE:O	44:DN:54:VAL:HA	2.01	0.60
46:DP:46:LYS:HB3	46:DP:52:GLU:HG2	1.83	0.60
35:DA:84:A:N3	35:DA:85:G:H1'	2.16	0.60
47:BQ:52:VAL:CG1	47:BQ:53:ALA:H	2.05	0.60
25:CY:133:ARG:NH1	35:DA:1942:C:O4'	2.34	0.60
44:BN:15:LEU:HD12	44:BN:136:GLU:HB2	1.83	0.60
7:AG:95:ARG:O	7:AG:96:GLN:C	2.40	0.60
7:AG:93:PRO:HA	7:AG:96:GLN:NE2	2.16	0.60
1:AA:824:C:H4'	8:AH:1:MET:N	2.16	0.60
42:BH:12:PRO:O	42:BH:13:LYS:HB2	2.01	0.60
29:B3:56:VAL:O	29:B3:57:GLU:HB2	2.02	0.60
1:CA:1168:A:H2'	1:CA:1169:A:C8	2.37	0.60
35:BA:540:C:H2'	35:BA:541:C:C5	2.36	0.60
15:CO:18:PHE:CZ	15:CO:21:ASP:HB2	2.37	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:BP:107:LYS:C	46:BP:109:GLY:H	2.04	0.60
35:DA:2092:U:C5	35:DA:2226:C:OP2	2.53	0.60
1:CA:707:C:H4'	11:CK:20:TYR:HD1	1.66	0.60
53:BW:87:PRO:HA	53:BW:93:ALA:CB	2.32	0.60
1:CA:445:G:H2'	1:CA:446:G:H8	1.67	0.60
23:CW:19:G:H3'	23:CW:20:G:C5'	2.31	0.60
5:AE:122:GLU:O	5:AE:123:LEU:HD23	2.02	0.60
1:CA:321:A:H4'	1:CA:1436:U:O4'	2.02	0.60
42:DH:158:HIS:NE2	42:DH:170:ARG:HA	2.17	0.60
5:CE:6:PHE:HB3	5:CE:35:GLY:O	2.02	0.60
1:CA:731:G:OP1	1:CA:766:A:H1'	2.02	0.60
35:DA:2579:C:O3'	39:DE:131:ALA:HB2	2.02	0.60
8:CH:34:GLU:O	8:CH:38:ILE:HG13	2.02	0.60
1:CA:1281:U:H5'	1:CA:1282:C:H5	1.66	0.60
37:BC:58:VAL:HG21	37:BC:166:ASP:N	2.15	0.60
31:B5:25:LEU:CD1	53:BW:19:LEU:HB3	2.32	0.60
29:B3:52:HIS:CD2	36:BB:83:G:H4'	2.37	0.60
35:BA:2103:C:C2'	35:BA:2104:G:H5''	2.32	0.60
23:AW:50:G:H2'	23:AW:51:U:O4'	2.01	0.60
2:CB:158:LEU:HD12	2:CB:158:LEU:N	2.17	0.60
54:BX:92:LEU:O	54:BX:93:GLU:HB3	2.02	0.60
44:DN:82:LEU:HD12	44:DN:83:LYS:N	2.17	0.60
1:CA:634:C:O2'	1:CA:635:G:H5'	2.02	0.60
40:BF:22:ALA:O	40:BF:26:ALA:HB2	2.01	0.60
41:DG:162:THR:O	41:DG:164:GLU:N	2.35	0.60
35:DA:1327:C:H2'	35:DA:1328:G:O4'	2.02	0.60
56:DZ:11:GLU:OE2	56:DZ:12:GLY:N	2.35	0.60
39:DE:9:VAL:HG22	39:DE:25:VAL:HB	1.84	0.59
35:DA:2586:C:O2'	35:DA:2587:A:H5'	2.02	0.59
41:DG:132:ASN:CB	41:DG:159:VAL:HG22	2.26	0.59
35:BA:1678:G:N2	35:BA:1989:G:H22	1.99	0.59
35:DA:2514:U:H2'	35:DA:2515:C:H6	1.67	0.59
39:BE:29:GLY:HA3	39:BE:180:ASN:ND2	2.16	0.59
52:BV:37:VAL:HG12	52:BV:38:LEU:N	2.16	0.59
28:B2:32:LEU:HG	28:B2:33:MET:N	2.17	0.59
54:BX:36:LYS:HD3	54:BX:38:GLU:HB2	1.83	0.59
35:DA:2810:A:H2'	39:DE:61:ARG:HH21	1.66	0.59
39:DE:52:LEU:O	39:DE:74:PRO:HA	2.02	0.59
27:B1:71:TYR:HA	27:B1:74:VAL:HG23	1.82	0.59
55:DY:89:PHE:C	55:DY:90:LEU:HD23	2.23	0.59
47:DQ:27:VAL:HG23	56:DZ:81:ARG:HH22	1.64	0.59
56:DZ:118:GLN:HA	56:DZ:118:GLN:HE21	1.67	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:BN:62:VAL:HG22	44:BN:66:LYS:CG	2.31	0.59
46:BP:21:ARG:HH11	46:BP:21:ARG:HG3	1.67	0.59
35:BA:2575:C:H5'	39:BE:144:ARG:HG2	1.84	0.59
40:DF:202:PHE:HD1	40:DF:202:PHE:C	2.05	0.59
1:AA:101:A:H2'	1:AA:102:G:H8	1.67	0.59
2:AB:16:HIS:HA	2:AB:210:SER:HB2	1.84	0.59
46:DP:30:THR:CG2	46:DP:31:ALA:H	2.08	0.59
35:DA:1190:G:O5'	46:DP:35:HIS:HA	2.02	0.59
4:AD:106:TYR:CE1	4:AD:113:SER:HA	2.37	0.59
4:AD:163:GLU:C	4:AD:165:MET:H	2.04	0.59
4:AD:173:TRP:C	4:AD:186:LEU:HD12	2.21	0.59
44:DN:78:TYR:H	44:DN:79:PRO:HD2	1.67	0.59
13:CM:90:LEU:C	13:CM:92:HIS:N	2.50	0.59
1:AA:989:C:N4	1:AA:1216:G:H1	1.99	0.59
7:CG:74:GLU:H	7:CG:91:VAL:HG23	1.66	0.59
55:BY:19:LYS:HD2	55:BY:20:TYR:CE1	2.37	0.59
20:CT:73:HIS:HB3	20:CT:74:LYS:CD	2.28	0.59
1:AA:190:U:H2'	1:AA:191:G:H8	1.66	0.59
24:AX:14:U:H2'	24:AX:15:G:C8	2.37	0.59
5:CE:69:VAL:O	5:CE:71:LEU:N	2.35	0.59
1:CA:1118:C:OP1	9:CI:9:ARG:HD3	2.01	0.59
8:AH:22:GLU:O	8:AH:63:LEU:HD23	2.02	0.59
31:D5:32:PRO:O	31:D5:33:CYS:HB2	2.03	0.59
46:BP:130:PHE:N	46:BP:130:PHE:HD2	1.99	0.59
31:B5:20:ARG:HA	31:B5:23:HIS:HD2	1.67	0.59
40:DF:161:GLU:O	40:DF:164:ARG:HB2	2.02	0.59
35:DA:1486:A:H61	35:DA:1504:C:H42	1.50	0.59
38:BD:231:HIS:CE1	38:BD:232:PRO:HD2	2.36	0.59
38:BD:175:LEU:HD23	38:BD:176:ARG:N	2.16	0.59
35:DA:1385:G:H4'	35:DA:1386:C:OP1	2.01	0.59
40:DF:200:GLU:O	40:DF:204:ASN:HB2	2.02	0.59
1:CA:620:C:H2'	1:CA:621:A:O4'	2.00	0.59
47:BQ:22:LYS:NZ	47:BQ:22:LYS:HA	2.17	0.59
35:DA:116:C:O2'	35:DA:117:G:H5'	2.02	0.59
1:CA:93:G:O2'	1:CA:96:U:H5'	2.02	0.59
1:CA:1246:C:H2'	1:CA:1247:U:C6	2.36	0.59
10:CJ:50:ILE:N	10:CJ:50:ILE:HD13	2.00	0.59
41:DG:13:GLU:O	41:DG:14:GLU:HB3	2.02	0.59
35:BA:1789:A:OP1	38:BD:222:ARG:HG3	2.02	0.59
1:CA:922:G:H2'	1:CA:923:A:C8	2.36	0.59
41:DG:135:LEU:HD23	41:DG:155:MET:CE	2.31	0.59
39:BE:23:VAL:HA	39:BE:184:VAL:O	2.02	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
56:BZ:68:PRO:HG2	56:BZ:91:LEU:O	2.01	0.59
47:BQ:140:ALA:CB	56:BZ:99:TYR:HB2	2.33	0.59
35:BA:1158:C:HO2'	35:BA:1159:U:H6	1.50	0.59
51:BU:58:ARG:HA	51:BU:61:TRP:CE3	2.37	0.59
54:BX:49:VAL:CG1	54:BX:50:LYS:H	2.12	0.59
39:DE:35:GLN:HE22	39:DE:37:ARG:NH2	2.00	0.59
39:DE:3:GLY:O	39:DE:4:ILE:HG22	2.02	0.59
41:BG:173:LEU:N	41:BG:173:LEU:HD22	2.17	0.59
54:DX:72:LYS:CE	54:DX:74:PRO:HB3	2.24	0.59
3:CC:109:PRO:HA	3:CC:115:LEU:HD13	1.83	0.59
1:CA:431:A:H2'	1:CA:432:A:H8	1.67	0.59
35:BA:1190:G:C5'	46:BP:35:HIS:HA	2.33	0.59
52:BV:72:VAL:HG12	52:BV:73:SER:N	2.13	0.59
36:DB:114:C:H4'	49:DS:46:VAL:HG13	1.84	0.59
6:CF:91:VAL:HG11	18:CR:72:ARG:NH1	2.16	0.59
1:AA:503:C:H2'	1:AA:504:C:H6	1.67	0.59
7:AG:100:ALA:C	7:AG:104:LEU:HD23	2.23	0.59
35:BA:1215:G:H2'	35:BA:1216:G:H8	1.67	0.59
25:AY:65:THR:HA	25:AY:103:ILE:HG23	1.84	0.59
25:AY:15:GLN:O	25:AY:18:LEU:HB3	2.02	0.59
25:AY:150:SER:HB2	25:AY:153:GLU:H	1.67	0.59
25:AY:3:LEU:H	25:AY:3:LEU:CD1	2.13	0.59
33:B7:16:HIS:HD1	33:B7:21:ARG:HH22	1.50	0.59
42:DH:70:THR:CG2	42:DH:74:ASN:HD21	2.13	0.59
1:AA:694:A:H5''	11:AK:53:SER:CB	2.32	0.59
1:AA:262:A:H2'	1:AA:263:A:C8	2.38	0.59
8:AH:2:LEU:O	8:AH:3:THR:HG23	2.01	0.59
35:BA:2092:U:C5	35:BA:2226:C:OP2	2.54	0.59
29:B3:56:VAL:O	29:B3:57:GLU:CB	2.50	0.59
35:BA:2752:C:H5'	35:BA:2753:A:OP2	2.02	0.59
46:DP:106:LEU:HD11	46:DP:112:LEU:HB2	1.84	0.59
46:BP:126:VAL:HA	46:BP:145:PRO:CB	2.31	0.59
35:BA:1484:G:H3'	35:BA:1485:G:H5''	1.82	0.59
3:CC:111:LEU:CD2	3:CC:146:ALA:HB2	2.32	0.59
53:DW:20:VAL:CG2	53:DW:47:VAL:HG21	2.31	0.59
46:DP:56:SER:O	46:DP:57:THR:HB	2.02	0.59
1:AA:1088:G:H2'	1:AA:1089:G:C8	2.35	0.59
35:DA:214:G:O2'	35:DA:215:G:O4'	2.19	0.59
7:CG:143:ARG:HH11	7:CG:143:ARG:CB	2.15	0.59
1:CA:688:G:O2'	1:CA:689:C:H5'	2.02	0.59
38:BD:68:LYS:HB2	38:BD:70:TRP:CH2	2.37	0.59
35:BA:1438:U:H2'	35:BA:1439:A:H8	1.66	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2843:G:H1	35:BA:2874:C:H42	1.50	0.59
56:DZ:114:GLY:O	56:DZ:115:GLY:O	2.21	0.59
47:BQ:22:LYS:HZ3	47:BQ:22:LYS:HA	1.66	0.59
46:DP:92:GLU:HG3	46:DP:93:GLY:H	1.66	0.59
47:DQ:22:LYS:HZ3	47:DQ:22:LYS:HA	1.67	0.59
1:AA:176:C:H2'	1:AA:177:C:H6	1.67	0.59
35:BA:1803:A:H4'	38:BD:259:THR:HG23	1.84	0.59
10:CJ:5:ARG:HG3	10:CJ:73:ASP:OD1	2.01	0.59
39:BE:81:ILE:O	39:BE:81:ILE:HG22	2.02	0.59
44:BN:44:PRO:C	44:BN:46:VAL:H	2.04	0.59
51:BU:45:TYR:O	51:BU:46:ALA:C	2.41	0.59
51:BU:83:LEU:CG	51:BU:88:ILE:HG12	2.32	0.59
52:BV:40:LEU:O	52:BV:41:GLY:C	2.41	0.59
39:DE:55:ASN:HD21	39:DE:75:VAL:HG22	1.66	0.59
55:DY:86:ARG:HG2	55:DY:87:LYS:N	2.18	0.59
35:DA:141:A:H8	35:DA:1408:C:HO2'	1.49	0.59
3:AC:153:VAL:HA	3:AC:197:GLY:O	2.02	0.59
46:BP:16:ARG:NE	46:BP:18:ARG:HB2	2.17	0.59
27:D1:46:LEU:HD22	27:D1:48:LYS:HE2	1.84	0.59
34:D8:30:ARG:HE	46:DP:62:LEU:HB2	1.66	0.59
40:DF:199:TRP:O	40:DF:203:GLN:HG2	2.02	0.59
48:DR:13:HIS:O	48:DR:14:SER:O	2.20	0.59
48:DR:28:LEU:HA	48:DR:34:ILE:CG1	2.32	0.59
20:AT:51:GLU:O	20:AT:55:ILE:HG12	2.01	0.59
48:BR:37:THR:CG2	48:BR:40:LYS:HE2	2.32	0.59
50:BT:100:TYR:O	50:BT:102:ILE:N	2.35	0.59
44:DN:34:LEU:HD23	44:DN:120:LEU:HD23	1.84	0.59
40:DF:88:VAL:CG2	40:DF:89:VAL:N	2.65	0.59
4:AD:118:ARG:O	4:AD:121:VAL:HB	2.02	0.59
35:DA:869:G:H1'	47:DQ:8:LYS:HZ2	1.66	0.59
1:CA:1498:U:H1'	1:CA:1499:A:OP2	2.01	0.59
35:DA:30:G:O2'	35:DA:31:C:H5'	2.02	0.59
12:CL:85:ILE:HD11	12:CL:98:TYR:HB2	1.83	0.59
1:AA:1014:A:H2'	1:AA:1015:A:C8	2.36	0.59
42:DH:46:GLU:O	42:DH:47:GLU:HB2	2.01	0.59
11:CK:87:THR:HA	11:CK:91:ARG:HG3	1.85	0.59
1:AA:922:G:H2'	1:AA:923:A:C8	2.37	0.59
46:BP:127:ALA:HB3	46:BP:130:PHE:HE2	1.61	0.59
1:CA:375:U:H4'	16:CP:17:TYR:CE2	2.37	0.59
35:DA:1232:G:H2'	35:DA:1233:C:C6	2.36	0.59
35:BA:2732:G:H3'	35:BA:2733:A:C5'	2.33	0.59
1:CA:445:G:H2'	1:CA:446:G:C8	2.37	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1056:U:H5'	3:CC:163:ALA:HB2	1.84	0.59
5:AE:80:ILE:CG1	5:AE:91:LEU:HB2	2.32	0.59
1:AA:123:C:OP1	1:AA:312:C:H5'	2.02	0.59
35:DA:2590:A:O2'	35:DA:2591:C:H5'	2.02	0.59
35:DA:1366:A:H2'	35:DA:1367:A:C8	2.37	0.59
35:BA:1509(A):A:H2'	35:BA:1509(B):A:C8	2.36	0.59
25:CY:108:GLU:O	25:CY:112:LYS:N	2.28	0.59
1:AA:1281:U:H5'	1:AA:1282:C:H5	1.67	0.59
1:CA:943:U:H2'	1:CA:944:G:C8	2.35	0.59
21:AU:2:GLY:N	21:AU:5:ASP:HB2	2.18	0.59
35:BA:173:G:H2'	35:BA:174:C:C6	2.38	0.59
35:BA:1446:C:N4	35:BA:1465:G:H1	1.98	0.59
35:BA:2103:C:H2'	35:BA:2104:G:H5''	1.83	0.59
44:BN:132:ALA:O	44:BN:133:GLN:CB	2.50	0.59
56:BZ:105:VAL:H	56:BZ:141:VAL:HG11	1.67	0.59
45:DO:13:ASN:HD22	45:DO:97:ARG:CG	2.15	0.59
17:AQ:9:VAL:HG12	17:AQ:10:VAL:N	2.18	0.59
35:DA:796:C:O2'	35:DA:797:C:H5'	2.01	0.59
1:CA:1045:C:H2'	1:CA:1046:A:O4'	2.02	0.59
35:BA:979:G:H3'	35:BA:980:A:C5'	2.31	0.59
1:AA:473:G:H2'	1:AA:474:G:H8	1.67	0.59
54:BX:89:ILE:HD12	54:BX:89:ILE:N	2.17	0.59
35:BA:816:C:H2'	35:BA:817:C:H6	1.65	0.59
35:DA:42:G:H2'	35:DA:43:A:C8	2.36	0.59
43:DI:76:THR:HB	43:DI:139:GLN:O	2.02	0.59
51:DU:30:LYS:HA	51:DU:30:LYS:HE3	1.85	0.59
56:BZ:163:LEU:HD23	56:BZ:163:LEU:N	2.16	0.59
40:BF:50:SER:HB2	40:BF:94:PRO:HD3	1.84	0.59
31:B5:8:LYS:O	31:B5:9:LYS:HD2	2.03	0.59
3:CC:92:ALA:N	3:CC:99:VAL:HG21	2.16	0.59
50:DT:94:ALA:HB1	50:DT:99:LEU:HD23	1.84	0.59
35:BA:1794:U:O4'	35:BA:1900:A:C2	2.56	0.59
35:BA:1792:G:P	38:BD:206:LEU:HB2	2.42	0.59
38:BD:94:LEU:H	38:BD:94:LEU:CD1	2.14	0.59
34:B8:36:LYS:O	34:B8:37:SER:O	2.19	0.59
39:BE:36:ARG:NH2	39:BE:88:GLY:CA	2.66	0.59
54:BX:40:LYS:C	54:BX:42:ALA:H	2.04	0.59
54:BX:39:ILE:O	54:BX:42:ALA:HB3	2.02	0.59
54:BX:81:VAL:HG12	54:BX:82:GLN:O	2.02	0.59
42:BH:87:LEU:C	42:BH:88:LEU:HD22	2.22	0.59
56:DZ:25:PRO:HB2	56:DZ:85:HIS:ND1	2.17	0.59
56:DZ:99:TYR:HE2	56:DZ:125:LEU:HD12	1.67	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
51:DU:83:LEU:CG	51:DU:88:ILE:HG12	2.32	0.59
49:BS:84:GLN:HA	49:BS:105:ALA:O	2.02	0.59
49:BS:72:ALA:O	49:BS:76:LYS:HG2	2.01	0.59
47:BQ:121:ALA:O	47:BQ:125:LEU:HD12	2.02	0.59
35:BA:2061:G:H5''	35:BA:2503:A:C2	2.37	0.59
35:DA:1453:U:H5'	48:DR:63:ARG:NE	2.18	0.59
1:AA:1478:C:H2'	1:AA:1479:C:C5	2.37	0.59
1:CA:909:A:C2	1:CA:910:C:H1'	2.38	0.59
35:BA:2468:G:HO2'	35:BA:2476:A:H8	1.51	0.59
56:BZ:148:ASP:O	56:BZ:149:SER:HB3	2.01	0.59
6:CF:21:LEU:HA	6:CF:24:GLU:HG2	1.85	0.59
15:CO:23:GLY:O	15:CO:24:SER:HB3	2.02	0.59
15:CO:24:SER:O	15:CO:28:GLN:HG3	2.02	0.59
4:AD:18:LYS:HE3	4:AD:31:CYS:SG	2.43	0.59
6:AF:30:LEU:HD23	6:AF:75:LEU:HD21	1.84	0.59
1:AA:375:U:H4'	16:AP:17:TYR:CE2	2.38	0.59
16:AP:71:ARG:HA	16:AP:74:LEU:HD12	1.83	0.59
13:AM:82:MET:HB3	13:AM:93:ARG:HH11	1.67	0.59
11:CK:61:ALA:CB	11:CK:90:GLY:HA3	2.31	0.59
20:AT:63:ILE:O	20:AT:65:LYS:N	2.35	0.59
18:CR:56:THR:OG1	18:CR:57:GLY:N	2.35	0.59
35:BA:1177:A:H5''	35:BA:1178:C:O5'	2.03	0.59
1:CA:451:A:H1'	1:CA:452:A:C8	2.37	0.59
39:BE:14:ILE:HB	50:BT:14:TYR:CE2	2.37	0.59
1:CA:59:A:H3'	1:CA:331:G:H22	1.68	0.59
1:AA:943:U:H2'	1:AA:944:G:C8	2.32	0.59
35:DA:2795:G:C2	35:DA:2799:C:H5'	2.37	0.59
35:DA:268:C:H42	35:DA:424:G:H1	1.48	0.59
38:DD:31:LYS:HZ1	38:DD:31:LYS:HA	1.68	0.59
1:AA:280:C:C2	17:AQ:38:ARG:HG3	2.37	0.59
53:BW:20:VAL:CG2	53:BW:47:VAL:HG21	2.31	0.59
54:DX:88:LYS:HD2	54:DX:88:LYS:N	2.16	0.59
27:B1:41:ARG:NH2	35:BA:205:G:H1	2.00	0.59
1:CA:67:C:H2'	1:CA:68:G:H8	1.65	0.59
35:BA:422:A:H2'	35:BA:423:A:C8	2.36	0.59
1:AA:861:G:H2'	1:AA:862:C:H6	1.67	0.59
1:AA:1035:A:H2'	1:AA:1036:G:H8	1.67	0.59
35:BA:2266:A:H4'	35:BA:2267:A:N3	2.17	0.59
57:DC:45:ALA:H	57:DC:174:PRO:CB	2.14	0.59
35:DA:1754:C:OP1	50:DT:96:ARG:NH1	2.34	0.59
35:DA:1992:G:C6	35:DA:1997:G:N1	2.71	0.59
45:DO:77:ILE:HD11	50:DT:72:VAL:CG1	2.33	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:865:A:H2'	1:CA:866:C:O4'	2.01	0.59
38:DD:206:LEU:HD23	38:DD:211:ARG:HH11	1.68	0.59
38:DD:81:ALA:N	38:DD:94:LEU:HD11	2.16	0.59
36:DB:42:C:O4'	41:DG:69:ALA:HB2	2.03	0.59
41:DG:139:LEU:O	41:DG:144:ILE:HG21	2.03	0.59
41:DG:56:ALA:HB1	41:DG:153:ARG:HD2	1.83	0.59
50:BT:99:LEU:O	50:BT:99:LEU:CD1	2.50	0.59
39:BE:176:ILE:HG22	39:BE:179:GLU:H	1.67	0.59
42:DH:144:VAL:O	42:DH:144:VAL:HG12	2.01	0.59
35:BA:142:A:H5'	35:BA:142(A):C:OP2	2.03	0.59
28:B2:33:MET:HG2	54:BX:10:ALA:CB	2.32	0.59
54:BX:51:VAL:HG13	54:BX:80:ILE:N	2.18	0.59
35:DA:2787:C:C2	39:DE:61:ARG:HD3	2.37	0.59
54:DX:82:GLN:CG	54:DX:83:VAL:N	2.65	0.59
47:DQ:29:PHE:HB2	47:DQ:65:PHE:CE2	2.37	0.59
44:DN:9:VAL:HG12	44:DN:10:GLU:N	2.15	0.59
3:AC:130:VAL:O	3:AC:134:ILE:HG13	2.01	0.59
4:CD:11:LEU:O	4:CD:13:ARG:N	2.36	0.59
35:BA:1198:U:H2'	35:BA:1199:U:C6	2.37	0.59
40:DF:114:VAL:HG11	40:DF:202:PHE:HE2	1.67	0.59
35:DA:1278:A:H5''	48:DR:36:THR:HG22	1.84	0.59
2:AB:163:PHE:HA	2:AB:185:ILE:O	2.02	0.59
44:DN:23:LEU:HB3	44:DN:60:ILE:CG2	2.32	0.59
1:CA:834:C:H2'	1:CA:835:U:H6	1.67	0.59
2:CB:51:LEU:HB3	2:CB:55:PHE:HE2	1.67	0.59
4:AD:180:GLY:C	4:AD:181:MET:HG2	2.22	0.59
1:CA:975:A:H4'	1:CA:976:G:C5'	2.26	0.59
19:AS:10:PHE:HE2	19:AS:70:LYS:HZ1	1.51	0.59
1:CA:190:U:H2'	1:CA:191:G:H8	1.68	0.59
25:AY:61:PRO:CG	25:AY:67:VAL:HG13	2.31	0.59
7:AG:74:GLU:H	7:AG:91:VAL:HG23	1.67	0.59
1:AA:552:U:O3'	12:AL:87:GLY:HA3	2.03	0.59
35:DA:2744:G:O2'	35:DA:2745:C:H5'	2.03	0.59
35:BA:2279:G:N2	35:BA:2280:G:H1'	2.17	0.59
55:BY:16:ALA:C	55:BY:21:LYS:HD2	2.23	0.59
1:AA:923:A:H2'	1:AA:924:C:C6	2.38	0.59
1:CA:383:A:H8	1:CA:383:A:O5'	1.84	0.59
1:AA:528:C:H2'	1:AA:529:G:H8	1.67	0.59
31:B5:30:LEU:HD11	53:BW:38:TYR:HB2	1.84	0.59
35:BA:2744:G:N7	35:BA:2755:C:O2	2.35	0.59
35:BA:2320:A:H8	35:BA:2321:G:O6	1.86	0.59
46:DP:144:GLU:N	46:DP:145:PRO:HD3	2.17	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:CE:146:ALA:C	5:CE:148:VAL:H	2.06	0.59
1:AA:445:G:H2'	1:AA:446:G:C8	2.37	0.59
1:AA:447:G:N2	1:AA:488:C:H42	1.99	0.59
56:BZ:19:ARG:HB3	56:BZ:19:ARG:NH1	2.16	0.59
23:AW:60:A:H2'	23:AW:61:U:O4'	2.02	0.59
35:BA:1418:G:N1	35:BA:1579:A:H5'	2.16	0.59
17:CQ:68:ARG:N	17:CQ:70:ARG:HH12	1.99	0.59
32:B6:14:THR:O	32:B6:49:HIS:HA	2.03	0.59
20:CT:14:LYS:HA	20:CT:17:ARG:HH21	1.66	0.59
35:DA:1505:C:H2'	35:DA:1506:C:O4'	2.03	0.59
35:BA:2624:G:O2'	35:BA:2625:G:H5'	2.03	0.59
31:B5:2:ALA:N	35:BA:747:U:N3	2.49	0.59
13:CM:9:ILE:CG2	13:CM:11:ARG:HG3	2.32	0.59
2:AB:24:TRP:CG	2:AB:25:ASN:N	2.69	0.59
53:BW:17:VAL:O	53:BW:19:LEU:N	2.34	0.59
35:BA:1362:C:O2'	35:BA:1363:C:H5'	2.02	0.59
6:CF:82:ARG:HB2	6:CF:85:VAL:CG2	2.32	0.59
35:DA:1844:C:C2'	35:DA:1845:G:H5'	2.31	0.59
46:DP:13:ASN:H	46:DP:13:ASN:HD22	1.51	0.59
35:DA:1330:C:O2'	35:DA:1331:A:H5'	2.03	0.59
1:AA:927:G:OP2	1:AA:1503:A:C4	2.56	0.59
43:BI:31:LEU:HB3	43:BI:32:PRO:HD3	1.83	0.59
35:DA:1344:G:H4'	35:DA:1384:A:C5	2.38	0.59
35:BA:700:G:H2'	35:BA:701:G:H8	1.68	0.59
35:BA:700:G:H2'	35:BA:701:G:C8	2.38	0.59
1:AA:1416:G:H2'	1:AA:1417:G:H8	1.67	0.59
35:BA:1217:C:H2'	35:BA:1218:C:O4'	2.03	0.59
23:AW:68:C:H2'	23:AW:69:C:O4'	2.02	0.59
35:DA:407:G:H2'	35:DA:408:G:H8	1.67	0.59
28:D2:57:ILE:HG13	28:D2:57:ILE:O	2.02	0.59
50:DT:28:VAL:O	50:DT:28:VAL:HG12	2.03	0.59
50:DT:78:LEU:O	50:DT:79:HIS:ND1	2.36	0.59
1:CA:949:A:H61	1:CA:1232:U:H3	1.51	0.59
35:BA:1778:U:C5	35:BA:1784:A:C4	2.91	0.59
38:BD:215:LEU:O	38:BD:217:ARG:N	2.35	0.59
38:DD:160:GLY:H	38:DD:196:VAL:HB	1.67	0.59
41:DG:83:ARG:O	41:DG:85:GLY:N	2.36	0.59
1:AA:1442(A):G:N2	50:BT:119:LYS:N	2.50	0.59
47:BQ:29:PHE:CD1	47:BQ:29:PHE:N	2.71	0.59
52:BV:2:PHE:CB	52:BV:42:GLY:HA2	2.29	0.59
39:DE:179:GLU:HB3	39:DE:181:LEU:CD2	2.26	0.59
27:B1:73:LEU:CA	27:B1:76:ARG:NH1	2.63	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:BG:57:ALA:HA	41:BG:60:LEU:HB3	1.84	0.59
54:DX:82:GLN:HG3	54:DX:83:VAL:N	2.17	0.59
51:DU:106:PHE:CA	51:DU:109:LEU:HD12	2.29	0.59
35:BA:2569:G:O2'	35:BA:2570:G:H5'	2.02	0.59
27:D1:76:ARG:CB	27:D1:78:LYS:HZ3	2.15	0.59
27:D1:85:LEU:N	27:D1:85:LEU:HD23	2.17	0.59
44:DN:26:LEU:HG	44:DN:30:ILE:HD11	1.84	0.59
44:BN:56:ASN:HA	44:BN:125:GLY:H	1.68	0.59
35:DA:669:G:H2'	35:DA:669:G:N3	2.17	0.59
1:AA:403:C:O2'	1:AA:404:U:H5'	2.03	0.59
4:AD:127:THR:HG23	4:AD:147:ALA:HB3	1.85	0.59
4:AD:65:ARG:HB2	4:AD:75:PHE:CE2	2.37	0.59
35:BA:2766:G:N3	35:BA:2766:G:H2'	2.15	0.59
51:BU:31:SER:HB3	51:BU:34:LYS:HB2	1.84	0.59
51:BU:33:ARG:O	51:BU:34:LYS:C	2.41	0.59
52:BV:79:VAL:HG12	52:BV:80:GLN:N	2.17	0.59
35:BA:2248:C:C2'	35:BA:2249:U:H5'	2.32	0.59
35:DA:598:G:H5'	46:DP:15:ARG:CD	2.30	0.59
1:AA:192:U:H2'	1:AA:193:C:H6	1.68	0.59
5:AE:131:ILE:HD13	5:AE:131:ILE:N	2.17	0.59
12:AL:90:VAL:HG11	12:AL:93:LEU:HG	1.84	0.59
35:DA:2121:G:H1	35:DA:2177:C:H42	1.49	0.59
29:B3:4:LEU:HD23	29:B3:5:LYS:N	2.17	0.59
42:BH:68:THR:HA	42:BH:71:LEU:HD22	1.84	0.59
38:DD:134:ARG:HB2	38:DD:135:PHE:HD1	1.66	0.59
38:DD:142:VAL:HG22	38:DD:143:HIS:N	2.18	0.59
35:BA:1264:G:H3'	35:BA:1265:A:H5''	1.84	0.59
1:CA:390:C:H4'	16:CP:28:ARG:HH21	1.68	0.59
47:DQ:83:MET:O	47:DQ:83:MET:CG	2.51	0.59
31:D5:2:ALA:N	35:DA:2014:A:N3	2.50	0.59
35:BA:270:A:O2'	35:BA:271:A:H5'	2.03	0.59
1:CA:1438:G:N2	1:CA:1464:G:H1'	2.18	0.59
1:CA:591:U:H2'	1:CA:592:G:H8	1.65	0.59
53:DW:74:ALA:O	53:DW:75:TYR:HB3	2.03	0.59
4:AD:3:ARG:O	4:AD:5:ILE:N	2.36	0.59
38:BD:176:ARG:HG2	38:BD:176:ARG:HH11	1.66	0.59
23:AW:23:G:C2'	23:AW:24:C:H5''	2.32	0.59
35:DA:1289:C:H2'	35:DA:1290:C:C6	2.37	0.59
35:BA:2762:G:C2'	35:BA:2763:G:H5''	2.32	0.59
38:DD:10:THR:HG23	38:DD:13:ARG:HB3	1.84	0.59
35:BA:481:G:H1'	35:BA:506:G:H21	1.68	0.59
10:AJ:32:ALA:N	10:AJ:78:ASN:ND2	2.51	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
53:DW:35:ILE:HG22	53:DW:36:LEU:HD23	1.85	0.59
10:AJ:30:SER:OG	10:AJ:81:THR:HG22	2.03	0.59
35:BA:601:C:O2	35:BA:605:C:H4'	2.01	0.59
1:AA:1030(D):A:H2'	1:AA:1031:G:H5'	1.85	0.59
35:DA:644:A:C2	35:DA:2369:A:H1'	2.38	0.59
46:DP:100:LEU:HD22	46:DP:100:LEU:N	2.17	0.59
1:CA:473:G:OP1	16:CP:81:ARG:HB2	2.02	0.59
57:DC:44:HIS:HA	57:DC:174:PRO:CB	2.32	0.59
39:BE:92:THR:HB	39:BE:94:GLU:OE1	2.03	0.59
35:BA:2669:G:H2'	35:BA:2670:A:H8	1.68	0.59
1:CA:642:A:N3	8:CH:113:SER:OG	2.26	0.59
35:DA:1180:C:H2'	35:DA:1181:C:H5'	1.83	0.59
50:BT:128:GLU:O	50:BT:130:ALA:N	2.35	0.59
35:DA:319:C:O2'	35:DA:320:A:H5'	2.03	0.59
1:AA:370:C:O2'	1:AA:371:G:H5'	2.03	0.59
45:DO:37:ASP:H	45:DO:62:VAL:H	1.50	0.59
45:DO:43:VAL:O	45:DO:45:GLU:N	2.36	0.59
50:DT:92:GLY:C	50:DT:94:ALA:N	2.56	0.59
35:BA:1804:C:O2'	35:BA:1805:U:H5'	2.02	0.59
35:DA:1827:C:O2'	35:DA:1828:G:H5'	2.02	0.59
41:DG:150:ASP:O	41:DG:151:ALA:HB2	2.02	0.59
50:BT:23:ARG:HG2	50:BT:120:ARG:HH12	1.66	0.59
56:BZ:58:VAL:CG2	56:BZ:68:PRO:HA	2.30	0.59
39:BE:36:ARG:HH22	39:BE:88:GLY:H	1.47	0.59
39:BE:52:LEU:CB	39:BE:76:ARG:HB2	2.28	0.59
35:BA:2039:C:H2'	35:BA:2040:C:H6	1.68	0.59
51:BU:59:ARG:O	51:BU:61:TRP:N	2.35	0.59
52:BV:22:VAL:O	52:BV:23:GLU:HB2	2.03	0.59
34:D8:32:LEU:HD11	34:D8:41:ILE:CG2	2.32	0.59
35:BA:2772:C:H2'	35:BA:2773:C:H6	1.67	0.59
44:DN:1:MET:C	44:DN:2:LYS:HD2	2.23	0.59
51:DU:110:VAL:O	51:DU:114:LYS:N	2.32	0.59
52:DV:14:VAL:HG12	52:DV:15:GLU:N	2.18	0.59
1:AA:1205:U:O2'	3:AC:195:VAL:HG23	2.01	0.59
4:CD:62:GLN:HB3	4:CD:66:ARG:NH1	2.18	0.59
48:DR:20:LEU:HD12	48:DR:21:TYR:N	2.17	0.59
39:BE:110:GLY:O	48:BR:2:ARG:CZ	2.50	0.59
2:AB:36:ARG:NH1	2:AB:37:ASN:HB2	2.17	0.59
2:AB:69:LEU:HB2	2:AB:159:PRO:HG2	1.83	0.59
44:DN:99:LEU:O	44:DN:103:VAL:HG23	2.02	0.59
15:CO:82:ILE:HD11	15:CO:87:ILE:O	2.03	0.59
2:CB:69:LEU:HB3	2:CB:162:ILE:HG22	1.83	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:B1:27:GLU:H	27:B1:34:THR:HB	1.67	0.59
35:DA:27:G:N2	35:DA:512:G:C2'	2.64	0.59
11:AK:109:VAL:HG22	18:AR:86:VAL:HA	1.85	0.59
35:DA:2327:A:H2'	35:DA:2328:A:C8	2.38	0.59
8:CH:127:LEU:HD13	8:CH:127:LEU:O	2.01	0.59
35:BA:2261:C:H1'	35:BA:2388:A:N3	2.17	0.59
55:BY:2:ARG:C	55:BY:4:LYS:H	2.05	0.59
5:AE:37:ARG:O	5:AE:38:GLN:HG2	2.02	0.59
45:BO:122:LEU:N	45:BO:122:LEU:HD12	2.17	0.59
1:CA:1349:A:OP1	9:CI:120:ARG:HB3	2.02	0.59
1:AA:512:U:H2'	1:AA:513:C:C6	2.38	0.59
35:DA:2529:G:OP2	35:DA:2530:A:H5''	2.03	0.59
9:AI:37:PHE:CE1	9:AI:74:ILE:HG12	2.37	0.59
8:CH:27:PRO:HA	8:CH:58:TYR:HA	1.83	0.59
8:CH:45:ILE:HA	8:CH:64:LYS:CB	2.32	0.59
33:D7:7:PRO:CB	35:DA:1309:G:H4'	2.33	0.59
35:DA:1264:G:H3'	35:DA:1265:A:H5''	1.84	0.59
50:BT:14:TYR:N	50:BT:14:TYR:HD1	2.00	0.59
38:DD:186:HIS:CD2	38:DD:188:GLU:H	2.12	0.59
35:BA:1613:G:H2'	35:BA:1617:C:H42	1.66	0.59
35:DA:2704:C:C2'	35:DA:2705:A:H8	2.15	0.59
35:BA:1503:U:H2'	35:BA:1504:C:C5	2.37	0.59
35:BA:686:G:N2	35:BA:788:A:N6	2.49	0.59
54:BX:12:VAL:CG1	54:BX:27:THR:HG23	2.33	0.59
12:CL:115:LYS:O	12:CL:117:ARG:HG3	2.03	0.59
31:B5:29:THR:HG21	35:BA:2814:C:O2'	2.03	0.59
1:AA:1264:C:H2'	1:AA:1265:G:C8	2.37	0.59
6:CF:82:ARG:HB3	6:CF:82:ARG:NH1	2.18	0.59
35:DA:2774:C:H2'	35:DA:2775:A:C8	2.38	0.59
44:DN:132:ALA:O	44:DN:133:GLN:CB	2.51	0.59
10:CJ:79:ARG:HA	10:CJ:82:ILE:HG12	1.84	0.59
1:AA:786:G:H1	1:AA:796:C:H42	1.49	0.59
1:AA:1292:U:O2'	1:AA:1293:G:H5'	2.01	0.59
1:AA:1152:A:H2'	1:AA:1153:C:H6	1.67	0.59
1:AA:764:C:H2'	1:AA:765:G:C8	2.37	0.59
32:D6:42:TRP:HA	32:D6:42:TRP:HE3	1.68	0.59
56:BZ:55:HIS:CE1	56:BZ:133:ILE:HG21	2.38	0.59
41:BG:121:ASN:HB2	41:BG:181:ARG:HH21	1.66	0.59
35:DA:805:G:H22	35:DA:828:U:H5''	1.68	0.59
40:DF:50:SER:HB2	40:DF:94:PRO:HD3	1.84	0.59
31:D5:22:HIS:ND1	31:D5:22:HIS:N	2.51	0.59
35:DA:2525:G:H2'	35:DA:2526:G:H8	1.67	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:363:A:C2	12:AL:31:PRO:HG2	2.38	0.59
35:BA:1799:G:H4'	35:BA:1800:C:O5'	2.02	0.59
35:BA:1792:G:OP2	38:BD:206:LEU:HD12	2.03	0.59
5:CE:11:ILE:HD12	5:CE:31:LEU:HD22	1.85	0.59
41:DG:76:SER:HB3	41:DG:83:ARG:HA	1.85	0.59
41:DG:40:ASN:HD22	41:DG:91:ARG:CG	2.16	0.59
16:AP:2:VAL:HG23	16:AP:22:THR:O	2.03	0.59
56:BZ:103:ARG:HE	56:BZ:103:ARG:HA	1.67	0.59
35:BA:58:G:H1	35:BA:69:C:H42	1.50	0.59
39:DE:200:GLU:N	39:DE:200:GLU:OE2	2.35	0.59
27:B1:58:ILE:HD11	27:B1:87:PRO:HB3	1.84	0.59
35:BA:2208:A:H1'	35:BA:2219:G:C2	2.38	0.59
41:BG:61:ALA:HA	41:BG:64:THR:HG22	1.85	0.59
56:DZ:148:ASP:O	56:DZ:149:SER:HB3	2.03	0.59
56:DZ:149:SER:HB2	56:DZ:172:ALA:O	2.03	0.59
44:DN:40:PRO:HG3	51:DU:68:ALA:HB2	1.84	0.59
51:DU:91:ASP:O	51:DU:95:LEU:HB2	2.03	0.59
51:DU:98:LEU:O	51:DU:101:ARG:N	2.36	0.59
52:DV:24:LYS:HA	52:DV:94:LEU:HG	1.84	0.59
1:CA:1320:C:H5'	19:CS:70:LYS:HE3	1.84	0.59
49:BS:87:PHE:O	49:BS:88:ASP:HB2	2.03	0.59
35:BA:807:U:H2'	35:BA:808:G:C8	2.37	0.59
48:BR:37:THR:OG1	48:BR:40:LYS:HG3	2.03	0.59
49:DS:65:VAL:O	49:DS:69:VAL:HG12	2.03	0.59
2:AB:167:PRO:HG2	2:AB:192:SER:OG	2.03	0.59
1:CA:659:U:H2'	1:CA:660:G:H8	1.67	0.59
51:DU:47:TYR:HA	51:DU:50:ARG:NH1	2.17	0.59
4:AD:108:LEU:HD11	4:AD:174:LEU:HD22	1.84	0.59
4:AD:61:LYS:HE3	4:AD:207:TYR:OH	2.02	0.59
43:DI:102:SER:HA	43:DI:107:VAL:O	2.03	0.59
43:DI:68:LEU:CD2	43:DI:136:VAL:HG11	2.32	0.59
6:AF:71:ARG:O	6:AF:73:ASN:N	2.36	0.59
35:DA:565:C:O3'	52:DV:81:TYR:CE1	2.56	0.59
12:CL:22:SER:C	12:CL:24:VAL:H	2.06	0.59
12:AL:32:PHE:HB3	12:AL:84:LEU:HD21	1.84	0.59
25:AY:140:LEU:HD11	25:AY:157:ALA:CB	2.33	0.59
35:DA:257:A:H2'	35:DA:258:G:O4'	2.03	0.59
5:AE:12:LEU:H	5:AE:12:LEU:HD13	1.67	0.59
9:CI:118:LYS:HB3	9:CI:118:LYS:HZ3	1.66	0.59
8:CH:45:ILE:HB	8:CH:62:TYR:O	2.03	0.59
42:DH:13:LYS:O	42:DH:15:VAL:N	2.35	0.59
50:DT:14:TYR:CD1	50:DT:14:TYR:N	2.67	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
47:DQ:81:VAL:HG23	47:DQ:82:ARG:HH11	1.67	0.59
17:CQ:44:ALA:HB1	17:CQ:73:VAL:HG22	1.85	0.59
1:AA:967:C:H2'	1:AA:968:A:N7	2.18	0.59
17:AQ:44:ALA:HB1	17:AQ:73:VAL:HG22	1.84	0.59
35:BA:1505:C:H2'	35:BA:1506:C:O4'	2.02	0.59
11:AK:99:GLN:C	11:AK:101:SER:H	2.06	0.59
35:BA:1688:U:H1'	35:BA:1701:A:C6	2.38	0.59
1:AA:1483:A:C2'	1:AA:1484:C:H5'	2.33	0.59
35:DA:1703:G:H2'	35:DA:1704:G:H8	1.67	0.59
35:DA:1812:A:H1'	38:DD:46:GLN:HE22	1.67	0.59
1:AA:555:C:H2'	1:AA:556:C:C6	2.38	0.59
35:BA:1935:G:H1'	35:BA:1964:G:N2	2.17	0.59
50:BT:129:ARG:CZ	50:BT:131:ALA:HB3	2.32	0.59
57:DC:211:SER:HA	57:DC:220:PRO:HA	1.85	0.59
50:DT:128:GLU:O	50:DT:130:ALA:N	2.35	0.59
55:BY:83:THR:HG22	55:BY:84:ARG:N	2.18	0.59
3:AC:60:ALA:HB3	3:AC:63:ASN:HD21	1.67	0.59
35:BA:2525:G:H2'	35:BA:2526:G:H8	1.68	0.59
55:DY:43:ASN:O	55:DY:44:ILE:O	2.21	0.59
45:DO:46:ALA:H	45:DO:54:GLU:HG2	1.66	0.59
50:DT:80:SER:O	50:DT:82:LEU:N	2.36	0.59
50:DT:28:VAL:N	50:DT:88:ILE:HD13	2.17	0.59
1:CA:974:A:OP1	14:CN:31:ARG:HD3	2.03	0.59
35:BA:1824:G:O2'	35:BA:1825:A:H5'	2.02	0.59
35:DA:1789:A:OP1	38:DD:222:ARG:HG3	2.03	0.59
34:B8:32:LEU:HD11	34:B8:41:ILE:CG2	2.33	0.59
45:BO:24:VAL:HG21	45:BO:32:TYR:O	2.03	0.59
45:BO:63:VAL:HG22	45:BO:83:ALA:O	2.03	0.59
45:BO:93:PRO:C	45:BO:95:GLY:H	2.04	0.59
50:BT:27:THR:OG1	50:BT:28:VAL:N	2.36	0.59
56:BZ:166:SER:HB2	56:BZ:168:GLU:N	2.18	0.59
39:BE:55:ASN:HD21	39:BE:75:VAL:HG22	1.66	0.59
44:BN:46:VAL:HG22	44:BN:47:ALA:N	2.17	0.59
10:AJ:50:ILE:CD1	10:AJ:50:ILE:H	1.91	0.59
1:AA:974:A:OP1	14:AN:31:ARG:HD3	2.03	0.59
34:D8:60:LEU:HA	34:D8:63:PRO:CG	2.33	0.59
28:B2:29:LYS:HA	28:B2:32:LEU:CD2	2.30	0.59
54:BX:52:VAL:O	54:BX:53:LYS:CB	2.51	0.59
27:B1:44:PRO:HA	35:BA:2231:C:OP1	2.02	0.59
41:BG:83:ARG:O	41:BG:85:GLY:N	2.36	0.59
35:BA:2774:C:H2'	35:BA:2775:A:H8	1.66	0.59
44:DN:46:VAL:O	44:DN:47:ALA:HB2	2.03	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
19:CS:16:LEU:H	19:CS:16:LEU:CD1	2.15	0.59
4:CD:154:ASN:CB	4:CD:159:ARG:HH21	2.15	0.59
35:BA:514:A:H1'	35:BA:581:C:O2'	2.03	0.59
55:BY:86:ARG:HG2	55:BY:87:LYS:N	2.18	0.59
2:CB:73:THR:HG22	2:CB:93:VAL:O	2.03	0.59
35:DA:674:G:H1'	40:DF:74:ARG:HG3	1.85	0.59
44:DN:15:LEU:HD12	44:DN:136:GLU:HB2	1.84	0.59
6:AF:10:LEU:HD13	6:AF:61:LEU:HD11	1.83	0.59
25:CY:171:LYS:O	25:CY:172:ALA:C	2.40	0.59
43:BI:37:VAL:CG1	43:BI:38:LEU:N	2.65	0.59
25:AY:63:PRO:CB	25:AY:64:ARG:HH22	2.15	0.59
1:AA:600:C:H5'	8:AH:129:VAL:O	2.03	0.59
35:DA:493:G:H2'	35:DA:494:G:H5''	1.85	0.59
38:DD:132:PRO:HD3	38:DD:190:TYR:CZ	2.37	0.59
18:CR:86:VAL:O	18:CR:87:ARG:HB3	2.01	0.59
2:AB:107:THR:HG23	2:AB:110:GLN:OE1	2.03	0.59
32:B6:15:GLU:O	32:B6:16:CYS:SG	2.59	0.59
38:BD:142:VAL:HG23	38:BD:193:VAL:CA	2.31	0.59
3:CC:88:ARG:HG2	3:CC:101:LEU:HB2	1.84	0.59
29:B3:14:GLY:O	35:BA:969:U:H4'	2.02	0.59
2:AB:25:ASN:OD1	2:AB:27:LYS:HB2	2.03	0.59
1:AA:1109:C:H2'	1:AA:1110:A:O4'	2.03	0.59
1:AA:811:C:O2'	1:AA:901:A:N1	2.36	0.59
1:CA:135:C:H2'	1:CA:136:C:H5'	1.83	0.59
1:CA:1292:U:H2'	1:CA:1293:G:H8	1.68	0.59
7:AG:22:LEU:O	7:AG:25:ALA:HB3	2.03	0.59
1:AA:1294:G:H2'	1:AA:1295:G:C8	2.38	0.59
35:BA:64:A:H2'	35:BA:65:C:H6	1.66	0.59
7:CG:36:LYS:HB2	7:CG:36:LYS:NZ	2.17	0.59
47:DQ:22:LYS:HA	47:DQ:22:LYS:NZ	2.18	0.59
35:DA:1127:A:C2'	35:DA:1128:A:H5''	2.33	0.59
35:BA:2024:G:H2'	35:BA:2025:C:H6	1.66	0.59
35:DA:700:G:H2'	35:DA:701:G:C8	2.37	0.59
1:CA:370:C:O2'	1:CA:371:G:H5'	2.03	0.59
4:CD:196:LEU:N	4:CD:196:LEU:HD12	2.18	0.59
35:DA:1555:G:H2'	35:DA:1556:C:C6	2.38	0.59
2:CB:121:LEU:HD23	2:CB:121:LEU:O	2.03	0.59
57:DC:184:LYS:C	57:DC:186:ALA:H	2.04	0.59
35:DA:2682:U:C2	39:DE:22:PRO:HB3	2.38	0.59
1:CA:972:C:H2'	10:CJ:55:LYS:HD3	1.84	0.59
38:BD:270:ILE:HD12	38:BD:270:ILE:O	2.03	0.59
38:DD:80:ALA:HB2	38:DD:96:HIS:ND1	2.17	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
16:AP:19:ILE:HB	16:AP:37:GLY:CA	2.32	0.59
35:BA:2892:A:C5	35:BA:2893:G:H1'	2.38	0.59
39:BE:75:VAL:C	39:BE:77:ILE:H	2.06	0.59
34:D8:60:LEU:HA	34:D8:63:PRO:HG2	1.84	0.59
28:B2:12:GLU:C	28:B2:14:ARG:NE	2.57	0.59
39:DE:77:ILE:HG21	39:DE:79:ARG:HE	1.67	0.59
51:DU:91:ASP:OD2	51:DU:96:ALA:CA	2.51	0.59
35:DA:2469:A:H3'	35:DA:2470:G:O4'	2.02	0.59
35:BA:2579:C:O3'	39:BE:131:ALA:HB2	2.03	0.59
46:BP:71:VAL:HG22	46:BP:72:PRO:CD	2.33	0.59
51:BU:47:TYR:HA	51:BU:50:ARG:CZ	2.32	0.59
48:BR:49:ASP:O	48:BR:50:HIS:C	2.41	0.59
44:DN:26:LEU:HD11	44:DN:30:ILE:HD11	1.85	0.59
44:DN:55:VAL:HG12	44:DN:56:ASN:N	2.18	0.59
44:BN:53:VAL:HG13	44:BN:121:LYS:O	2.02	0.59
4:AD:155:LEU:O	4:AD:158:ILE:HG22	2.03	0.59
4:AD:60:GLU:HG2	4:AD:202:LEU:HB2	1.84	0.59
43:DI:109:ILE:CD1	43:DI:111:PRO:HD3	2.33	0.59
43:DI:95:LYS:O	43:DI:99:GLU:HB2	2.03	0.59
18:AR:36:ASN:HD22	18:AR:39:VAL:CB	2.16	0.59
18:AR:44:LEU:HA	18:AR:49:LYS:O	2.03	0.59
12:CL:32:PHE:HB3	12:CL:84:LEU:CD2	2.33	0.59
43:BI:14:ASP:HB2	43:BI:17:GLN:OE1	2.03	0.59
1:CA:1228:C:H4'	13:CM:116:THR:O	2.02	0.59
35:BA:742:G:O2'	35:BA:743:G:H5'	2.01	0.59
18:AR:87:ARG:CZ	18:AR:87:ARG:HB3	2.33	0.59
38:BD:32:SER:OG	38:BD:33:LEU:N	2.34	0.59
8:CH:9:MET:O	8:CH:13:ILE:HG12	2.02	0.59
42:BH:13:LYS:O	42:BH:15:VAL:N	2.35	0.59
12:CL:89:ARG:C	12:CL:89:ARG:HH11	2.07	0.59
38:BD:95:LEU:HD12	38:BD:103:ARG:O	2.03	0.59
35:BA:1937:A:N7	35:BA:1939:U:H2'	2.18	0.59
35:DA:2673:G:O2'	35:DA:2674:G:H5'	2.03	0.59
39:DE:103:ASP:OD2	39:DE:202:LYS:HE2	2.03	0.59
1:AA:1074:G:H4'	2:AB:103:THR:HG22	1.85	0.59
35:DA:377:C:H2'	35:DA:378:C:H6	1.64	0.59
3:CC:87:LEU:HB3	3:CC:101:LEU:HD11	1.85	0.59
35:DA:1720:U:C2'	35:DA:1721:G:H5'	2.32	0.59
35:DA:2762:G:C2'	35:DA:2763:G:H5''	2.30	0.59
35:DA:2872:G:C2	35:DA:2873:A:N6	2.70	0.59
10:CJ:30:SER:OG	10:CJ:81:THR:HG22	2.02	0.59
7:CG:149:ARG:HB3	11:CK:59:TYR:CE2	2.37	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1438:U:H2'	35:DA:1439:A:H8	1.66	0.59
1:CA:1152:A:H2'	1:CA:1153:C:H6	1.67	0.59
46:DP:108:LYS:O	46:DP:110:TYR:N	2.32	0.59
35:DA:437:G:O2'	35:DA:438:G:H5'	2.03	0.59
35:DA:700:G:H2'	35:DA:701:G:H8	1.67	0.59
35:BA:1374:G:H2'	35:BA:1375:C:C6	2.38	0.59
35:DA:1630:G:H2'	35:DA:1631:C:H6	1.68	0.59
35:DA:2669:G:H2'	35:DA:2670:A:H8	1.68	0.59
35:DA:37:C:H2'	35:DA:38:A:C8	2.38	0.59
23:AW:57:C:H2'	23:AW:58:A:H8	1.67	0.59
8:CH:91:ARG:HH11	8:CH:91:ARG:HG2	1.68	0.59
29:D3:51:ALA:O	29:D3:53:LEU:N	2.36	0.59
50:DT:28:VAL:CG1	50:DT:46:GLU:HA	2.32	0.58
1:CA:972:C:H5'	10:CJ:57:LYS:NZ	2.17	0.58
41:DG:109:VAL:O	41:DG:113:ARG:N	2.36	0.58
45:BO:68:GLU:HB3	45:BO:78:ARG:HB2	1.85	0.58
50:BT:28:VAL:O	50:BT:28:VAL:HG12	2.02	0.58
50:BT:89:VAL:HG11	50:BT:91:ARG:HE	1.67	0.58
35:DA:2051:A:H5'	35:DA:2578:G:O4'	2.02	0.58
1:AA:949:A:H2'	1:AA:950:U:O4'	2.03	0.58
14:AN:33:VAL:HA	14:AN:39:LEU:O	2.03	0.58
54:BX:30:VAL:HG23	54:BX:76:ARG:HA	1.85	0.58
39:DE:29:GLY:HA3	39:DE:180:ASN:ND2	2.16	0.58
41:BG:64:THR:HG23	41:BG:65:GLY:N	2.17	0.58
28:D2:17:SER:O	28:D2:18:PRO:C	2.39	0.58
56:DZ:27:VAL:HG13	56:DZ:27:VAL:O	2.02	0.58
44:DN:42:TRP:HD1	51:DU:63:VAL:HG11	1.67	0.58
4:CD:163:GLU:C	4:CD:165:MET:H	2.06	0.58
35:BA:1245:G:C3'	46:BP:16:ARG:HH22	2.15	0.58
39:BE:131:ALA:HB1	39:BE:134:ILE:HD11	1.85	0.58
27:D1:13:ILE:CG2	27:D1:14:VAL:H	2.12	0.58
27:D1:89:GLU:OE2	27:D1:89:GLU:N	2.35	0.58
51:BU:6:THR:HG21	51:BU:10:ARG:NH2	2.18	0.58
40:DF:3:GLU:HA	40:DF:24:LEU:HB3	1.85	0.58
35:DA:575:A:O2'	35:DA:576:U:H5'	2.03	0.58
35:DA:692:C:H2'	35:DA:693:C:C6	2.38	0.58
51:BU:34:LYS:HA	51:BU:34:LYS:CE	2.32	0.58
11:CK:22:HIS:C	11:CK:28:THR:HG23	2.22	0.58
25:AY:3:LEU:HD23	25:AY:7:TYR:OH	2.03	0.58
1:CA:599:C:H2'	1:CA:600:C:H6	1.68	0.58
5:CE:37:ARG:O	5:CE:38:GLN:HG2	2.02	0.58
25:CY:76:LEU:HD23	25:CY:76:LEU:C	2.24	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:CY:41:LEU:HD22	25:CY:83:ILE:HD13	1.84	0.58
8:AH:11:THR:HA	8:AH:14:ARG:CZ	2.33	0.58
9:AI:95:LYS:NZ	9:AI:96:LEU:HD13	2.18	0.58
56:DZ:109:ALA:O	56:DZ:111:VAL:HG12	2.03	0.58
9:CI:37:PHE:CE1	9:CI:74:ILE:HG12	2.38	0.58
35:DA:1309:G:O2'	35:DA:1310:G:H5'	2.02	0.58
54:DX:65:ARG:NH2	54:DX:66:LEU:H	2.00	0.58
38:DD:132:PRO:HG3	38:DD:190:TYR:CE1	2.38	0.58
39:BE:169:ASN:OD1	39:BE:201:THR:HG21	2.03	0.58
35:DA:176:G:C2'	35:DA:177:G:H5'	2.33	0.58
35:BA:680:G:H2'	35:BA:681:G:C8	2.37	0.58
1:AA:9:G:H2'	1:AA:10:A:H8	1.68	0.58
38:BD:142:VAL:HA	38:BD:194:GLY:H	1.68	0.58
31:B5:2:ALA:N	35:BA:2014:A:N3	2.51	0.58
19:AS:41:VAL:CB	19:AS:44:MET:HB2	2.33	0.58
38:DD:231:HIS:CD2	38:DD:249:PRO:HG3	2.38	0.58
2:CB:31:TYR:HD2	2:CB:31:TYR:N	2.02	0.58
56:BZ:63:ASP:C	56:BZ:65:GLN:H	2.07	0.58
10:AJ:79:ARG:HA	10:AJ:82:ILE:HG12	1.84	0.58
1:AA:1241:G:H2'	1:AA:1242:C:C5	2.38	0.58
53:DW:58:ALA:HB1	53:DW:64:MET:SD	2.43	0.58
29:D3:35:ARG:HG2	29:D3:37:LEU:HD21	1.85	0.58
56:BZ:33:LEU:HD12	56:BZ:34:ASN:H	1.68	0.58
35:DA:1227:G:OP2	51:DU:16:LYS:HE3	2.03	0.58
35:BA:1180:C:H2'	35:BA:1181:C:H5'	1.85	0.58
5:AE:15:ARG:O	5:AE:15:ARG:HG2	2.03	0.58
1:CA:745:C:H2'	1:CA:746:A:H8	1.68	0.58
35:BA:407:G:H2'	35:BA:408:G:H8	1.68	0.58
35:BA:13:A:C2	35:BA:526:A:C5	2.90	0.58
45:DO:76:ALA:HB3	50:DT:75:ILE:CB	2.32	0.58
10:CJ:48:THR:HG22	10:CJ:49:VAL:N	2.18	0.58
53:DW:29:LEU:O	53:DW:33:ARG:HG3	2.02	0.58
10:CJ:4:ILE:HB	10:CJ:74:ILE:CG1	2.32	0.58
34:B8:30:ARG:HE	46:BP:62:LEU:HB2	1.68	0.58
47:DQ:35:VAL:CG1	47:DQ:130:LYS:HB3	2.33	0.58
35:BA:2723:C:H2'	35:BA:2724:C:H5'	1.84	0.58
16:AP:19:ILE:HG22	16:AP:36:ILE:CG1	2.33	0.58
47:BQ:25:ASP:HA	56:BZ:78:LYS:HZ2	1.65	0.58
56:BZ:120:ILE:HG21	56:BZ:170:THR:O	2.02	0.58
39:BE:30:PRO:C	39:BE:32:PRO:HD3	2.23	0.58
54:BX:34:ALA:O	54:BX:36:LYS:HG3	2.03	0.58
54:BX:61:GLY:H	54:BX:70:LEU:HD21	1.68	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2808:U:O2'	35:DA:2809:A:H5'	2.03	0.58
35:DA:2632:A:O2'	39:DE:61:ARG:NH2	2.36	0.58
35:DA:1862:G:O2'	35:DA:1863:G:H5'	2.02	0.58
41:BG:137:GLU:HB3	41:BG:140:ILE:CG2	2.32	0.58
35:DA:94(A):G:C3'	35:DA:95:G:H5''	2.33	0.58
54:DX:36:LYS:HZ1	54:DX:39:ILE:HA	1.67	0.58
54:DX:40:LYS:C	54:DX:42:ALA:H	2.07	0.58
42:BH:140:LYS:O	42:BH:144:VAL:HG23	2.03	0.58
56:DZ:121:HIS:C	56:DZ:123:ASP:H	2.05	0.58
29:D3:31:LEU:CD2	29:D3:32:GLN:H	2.15	0.58
35:DA:2626:C:H2'	35:DA:2627:G:C8	2.37	0.58
51:DU:92:ARG:HB3	52:DV:11:GLN:CD	2.21	0.58
32:D6:27:LYS:HD2	35:DA:2285:C:OP2	2.03	0.58
44:BN:65:LYS:CE	44:BN:65:LYS:HA	2.27	0.58
35:BA:607:U:OP1	40:BF:102:PRO:HA	2.02	0.58
25:AY:39:LEU:HB2	25:AY:53:ASN:CB	2.20	0.58
27:D1:87:PRO:O	27:D1:90:ILE:HG12	2.03	0.58
35:BA:2078:C:H2'	35:BA:2079:U:H6	1.68	0.58
35:BA:590:A:H2'	35:BA:591:C:C6	2.38	0.58
40:BF:71:GLY:O	40:BF:72:ARG:C	2.41	0.58
48:BR:74:LYS:O	48:BR:77:ARG:N	2.36	0.58
2:AB:71:VAL:O	2:AB:164:VAL:HA	2.02	0.58
2:AB:63:MET:HB3	2:AB:225:ALA:HB1	1.85	0.58
35:BA:8:A:H2'	35:BA:9:U:C6	2.36	0.58
44:BN:23:LEU:HB3	44:BN:60:ILE:CG2	2.33	0.58
18:CR:74:ARG:HA	18:CR:79:LEU:HB2	1.84	0.58
35:DA:575:A:H2'	35:DA:576:U:H5'	1.83	0.58
4:AD:119:GLN:HG3	4:AD:123:HIS:CD2	2.38	0.58
1:AA:909:A:C2	1:AA:910:C:H1'	2.37	0.58
4:AD:18:LYS:NZ	4:AD:31:CYS:HB3	2.18	0.58
43:DI:133:HIS:CB	43:DI:134:PRO:CD	2.81	0.58
25:CY:13:HIS:H	25:CY:13:HIS:HD1	1.50	0.58
1:CA:959:A:H2'	1:CA:960:U:H4'	1.85	0.58
19:CS:40:ILE:HD13	19:CS:62:ILE:HD13	1.85	0.58
25:AY:29:ARG:NE	25:AY:32:ARG:NH2	2.44	0.58
23:CW:71:G:O2'	23:CW:72:C:H5'	2.02	0.58
44:BN:77:GLY:O	44:BN:78:TYR:HB3	2.03	0.58
1:CA:690:G:H2'	1:CA:691:G:O4'	2.03	0.58
7:AG:153:HIS:CE1	11:AK:57:THR:HG23	2.39	0.58
18:AR:86:VAL:O	18:AR:87:ARG:HB3	2.02	0.58
19:AS:63:THR:HG22	19:AS:66:MET:CG	2.25	0.58
55:BY:28:LYS:O	55:BY:28:LYS:HE3	2.02	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
11:AK:29:ILE:HD12	11:AK:29:ILE:C	2.23	0.58
11:CK:19:ALA:HA	11:CK:32:ILE:HA	1.85	0.58
8:AH:110:ALA:CB	8:AH:121:ASP:HB3	2.26	0.58
9:AI:28:VAL:HG13	9:AI:64:THR:CA	2.29	0.58
35:BA:271(Q):G:H2'	35:BA:271(R):G:C8	2.38	0.58
1:AA:1368:G:O2'	1:AA:1369:C:H5'	2.03	0.58
16:CP:5:ARG:C	16:CP:6:LEU:HD12	2.24	0.58
16:CP:71:ARG:HH11	16:CP:71:ARG:HG3	1.68	0.58
15:AO:8:LYS:O	15:AO:12:ILE:HG13	2.03	0.58
1:AA:1075:C:OP1	2:AB:179:LYS:HE2	2.03	0.58
54:DX:68:ARG:HG3	54:DX:69:TYR:CD1	2.37	0.58
1:AA:390:C:H4'	16:AP:28:ARG:HH21	1.68	0.58
35:BA:2636:U:H4'	39:BE:80:GLU:OE1	2.01	0.58
26:D0:43:THR:HB	26:D0:57:PHE:CE1	2.38	0.58
17:AQ:86:GLU:C	17:AQ:88:TYR:N	2.56	0.58
4:CD:3:ARG:O	4:CD:5:ILE:N	2.37	0.58
35:DA:1809:A:H2'	35:DA:1810:A:C8	2.38	0.58
5:AE:57:LYS:HE2	5:AE:61:TYR:HE2	1.67	0.58
35:DA:360:G:H2'	35:DA:361:G:H8	1.67	0.58
35:DA:361:G:C2'	35:DA:362:U:H5''	2.33	0.58
35:BA:2408:U:H2'	35:BA:2409:G:H8	1.68	0.58
46:BP:122:PRO:CG	46:BP:141:ALA:HB3	2.33	0.58
40:BF:200:GLU:O	40:BF:204:ASN:HB2	2.02	0.58
1:AA:1152:A:H5''	10:AJ:13:HIS:HD2	1.66	0.58
19:AS:22:LEU:HD22	19:AS:27:GLU:H	1.69	0.58
35:DA:2780:G:OP1	44:DN:118:LYS:HE2	2.04	0.58
37:BC:196:LEU:C	37:BC:198:ALA:H	2.07	0.58
34:B8:48:PHE:H	34:B8:48:PHE:HD1	1.50	0.58
35:BA:2455:G:H2'	35:BA:2456:C:C6	2.38	0.58
45:DO:46:ALA:N	45:DO:54:GLU:HG2	2.18	0.58
41:DG:46:ALA:C	41:DG:51:ARG:HG3	2.23	0.58
41:DG:95:ARG:O	41:DG:99:MET:N	2.30	0.58
35:BA:2729:G:C1'	39:BE:187:ALA:HB2	2.21	0.58
44:BN:1:MET:HG2	44:BN:2:LYS:N	2.17	0.58
35:DA:2808:U:H2'	35:DA:2809:A:C5'	2.34	0.58
41:BG:173:LEU:O	41:BG:176:LEU:HB2	2.03	0.58
28:D2:12:GLU:O	28:D2:14:ARG:CZ	2.51	0.58
42:BH:144:VAL:O	42:BH:144:VAL:HG12	2.02	0.58
35:DA:2627:G:N3	35:DA:2781:A:H2	2.02	0.58
47:DQ:124:LYS:HA	47:DQ:124:LYS:HE2	1.85	0.58
49:BS:23:ARG:HG2	49:BS:24:LEU:H	1.67	0.58
4:CD:173:TRP:C	4:CD:186:LEU:HD12	2.23	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:D1:73:LEU:O	27:D1:76:ARG:HG2	2.02	0.58
34:D8:25:MET:HG3	46:DP:62:LEU:HD21	1.85	0.58
34:D8:42:ARG:O	34:D8:44:LYS:N	2.36	0.58
46:DP:62:LEU:C	46:DP:62:LEU:HD22	2.23	0.58
46:DP:64:LYS:O	46:DP:65:ARG:C	2.42	0.58
35:BA:812:C:C2	35:BA:1250:G:N1	2.71	0.58
40:DF:202:PHE:CD1	40:DF:202:PHE:C	2.76	0.58
3:AC:109:PRO:HA	3:AC:115:LEU:HD13	1.85	0.58
49:DS:61:ASN:ND2	49:DS:62:LYS:HE3	2.14	0.58
2:AB:69:LEU:CB	2:AB:162:ILE:HG22	2.34	0.58
35:DA:2078:C:H2'	35:DA:2079:U:H6	1.69	0.58
40:DF:65:TRP:CH2	40:DF:75:HIS:CD2	2.87	0.58
46:DP:39:LYS:C	46:DP:41:ARG:H	2.05	0.58
1:AA:1363(A):A:H4'	1:AA:1364:U:C5'	2.24	0.58
43:DI:115:ALA:O	43:DI:128:LEU:HD23	2.03	0.58
51:DU:6:THR:HG21	51:DU:10:ARG:NH2	2.18	0.58
25:CY:15:GLN:HA	25:CY:168:PHE:HZ	1.66	0.58
35:BA:1658:C:OP1	39:BE:132:HIS:ND1	2.35	0.58
1:CA:259:G:H2'	1:CA:260:G:C8	2.38	0.58
25:AY:29:ARG:NH2	25:AY:110:ARG:HH21	2.00	0.58
8:CH:103:VAL:HG21	8:CH:109:ILE:C	2.22	0.58
8:CH:110:ALA:CB	8:CH:121:ASP:HB3	2.27	0.58
2:CB:98:LEU:HB2	2:CB:101:MET:CG	2.32	0.58
1:AA:1228:C:H4'	13:AM:116:THR:O	2.03	0.58
1:CA:1368:G:O2'	1:CA:1369:C:H5'	2.03	0.58
9:CI:14:VAL:O	9:CI:65:VAL:HG23	2.02	0.58
35:DA:742:G:O2'	35:DA:743:G:H5'	2.03	0.58
31:D5:57:VAL:HG23	31:D5:58:LEU:N	2.19	0.58
35:BA:1050:A:O2'	35:BA:2752:C:H1'	2.02	0.58
9:CI:47:LEU:HB3	9:CI:50:LEU:HD12	1.84	0.58
46:BP:81:GLN:NE2	46:BP:106:LEU:HA	2.18	0.58
1:CA:452:A:O2'	1:CA:453:A:H8	1.75	0.58
16:CP:72:ARG:C	16:CP:74:LEU:H	2.06	0.58
35:DA:2320:A:H8	35:DA:2321:G:O6	1.86	0.58
23:AW:59:A:O3'	23:AW:61:U:H5	1.85	0.58
2:AB:98:LEU:HB2	2:AB:101:MET:CG	2.34	0.58
1:CA:393:A:O2'	1:CA:394:G:H5'	2.03	0.58
1:CA:1439:C:H2'	1:CA:1439:C:O2	2.03	0.58
57:DC:68:LEU:HB3	57:DC:70:LYS:HG2	1.85	0.58
38:BD:130:ALA:HB2	38:BD:192:THR:CB	2.33	0.58
38:BD:79:VAL:HG11	38:BD:112:GLN:O	2.04	0.58
13:AM:68:GLY:O	13:AM:69:GLU:HB2	2.02	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:B3:15:TYR:HB3	29:B3:19:GLN:NE2	2.17	0.58
1:AA:338:A:H2'	1:AA:339:C:H6	1.68	0.58
35:DA:851:U:H2'	35:DA:852:G:C8	2.35	0.58
1:CA:1298:C:C4	7:CG:114:ARG:HD2	2.38	0.58
27:B1:41:ARG:HH12	35:BA:189:G:H3'	1.68	0.58
11:AK:80:VAL:HG23	11:AK:80:VAL:O	2.03	0.58
7:CG:152:ALA:O	7:CG:154:TYR:N	2.36	0.58
35:BA:1887:C:C3'	35:BA:1888:G:H5''	2.33	0.58
1:AA:533:A:H1'	1:AA:534:U:OP1	2.03	0.58
1:CA:627:G:H2'	1:CA:628:G:C8	2.38	0.58
53:BW:1:MET:HE3	53:BW:1:MET:HA	1.85	0.58
38:BD:201:HIS:O	38:BD:203:ASN:N	2.36	0.58
29:D3:3:ARG:HA	29:D3:38:GLU:HA	1.85	0.58
35:BA:2024:G:O2'	35:BA:2025:C:H5'	2.02	0.58
35:BA:271(L):U:H4'	35:BA:271(M):G:C5	2.38	0.58
1:AA:745:C:H2'	1:AA:746:A:H8	1.68	0.58
53:DW:9:TYR:HD2	53:DW:102:HIS:HE2	1.49	0.58
35:DA:827:U:H2'	35:DA:2068:U:N3	2.17	0.58
35:BA:122:G:H1	35:BA:129:C:H42	1.51	0.58
35:DA:1217:C:H2'	35:DA:1218:C:O4'	2.03	0.58
35:BA:1623:G:H2'	35:BA:1624:G:H8	1.69	0.58
45:DO:14:THR:HG22	45:DO:52:VAL:HG21	1.85	0.58
45:DO:31:LYS:HB3	45:DO:32:TYR:CD1	2.37	0.58
35:BA:1789:A:H2'	35:BA:1790:C:H6	1.67	0.58
35:BA:782:A:C2	38:BD:226:MET:HE2	2.39	0.58
38:BD:35:LYS:HD3	38:BD:63:ARG:CB	2.21	0.58
41:DG:125:PHE:HE2	41:DG:173:LEU:HD12	1.69	0.58
41:DG:38:VAL:HG13	41:DG:91:ARG:HD3	1.86	0.58
35:BA:1997:G:O2'	35:BA:1998:G:H5'	2.03	0.58
35:BA:1998:G:H2'	35:BA:1999:C:H6	1.69	0.58
45:BO:62:VAL:HG12	45:BO:63:VAL:N	2.18	0.58
35:DA:2571:C:H5'	35:DA:2572:A:H5'	1.86	0.58
39:BE:1:MET:N	39:BE:84:PHE:HB2	2.18	0.58
42:DH:85:LYS:HE3	42:DH:144:VAL:HB	1.83	0.58
10:AJ:49:VAL:HG13	14:AN:41:ARG:HB2	1.84	0.58
35:BA:76:C:H2'	35:BA:77:C:H6	1.68	0.58
39:DE:34:VAL:CG2	39:DE:48:GLN:HE21	2.16	0.58
39:DE:6:GLY:HA2	39:DE:51:PHE:HE2	1.68	0.58
27:B1:13:ILE:HG23	27:B1:14:VAL:N	2.18	0.58
41:BG:115:ARG:HH22	41:BG:136:ARG:CD	2.15	0.58
41:BG:138:GLN:CD	41:BG:153:ARG:H	2.07	0.58
56:DZ:48:PHE:CA	56:DZ:51:ALA:HB3	2.33	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:DV:34:GLU:HG2	52:DV:35:LEU:N	2.18	0.58
4:CD:64:LEU:HB2	4:CD:198:VAL:HG11	1.86	0.58
43:DI:88:ILE:CG2	43:DI:89:TYR:H	2.16	0.58
27:D1:73:LEU:HD23	27:D1:90:ILE:HG22	1.86	0.58
34:B8:56:GLU:HA	34:B8:59:LYS:NZ	2.18	0.58
35:BA:2081:C:O2'	35:BA:2082:A:H5'	2.04	0.58
35:BA:668:G:C2	35:BA:670:A:C6	2.92	0.58
35:DA:2707:G:H2'	35:DA:2708:G:H8	1.68	0.58
50:BT:110:ILE:HA	50:BT:113:LYS:HD2	1.85	0.58
44:DN:23:LEU:HB3	44:DN:60:ILE:HG21	1.84	0.58
18:CR:22:VAL:HA	18:CR:25:THR:OG1	2.03	0.58
2:CB:163:PHE:HA	2:CB:185:ILE:O	2.03	0.58
2:CB:50:GLU:OE1	2:CB:200:ILE:HB	2.03	0.58
35:DA:1255:U:H5''	35:DA:1256:G:H5''	1.84	0.58
4:AD:79:PHE:O	4:AD:82:ALA:HB3	2.03	0.58
1:AA:1313:U:OP1	19:AS:6:LYS:HG3	2.03	0.58
55:DY:10:GLY:HA2	55:DY:27:VAL:CG1	2.24	0.58
55:DY:28:LYS:HE3	55:DY:28:LYS:O	2.03	0.58
12:AL:5:PRO:HG2	12:AL:10:LEU:HD21	1.83	0.58
12:AL:6:THR:HG22	12:AL:9:GLN:CG	2.31	0.58
47:DQ:9:TYR:O	47:DQ:10:ARG:CG	2.44	0.58
6:AF:41:GLU:H	6:AF:62:TRP:HE3	1.52	0.58
1:CA:781:A:H2'	1:CA:782:A:H5'	1.84	0.58
21:CU:2:GLY:N	21:CU:5:ASP:HB2	2.18	0.58
12:CL:5:PRO:HG2	12:CL:10:LEU:HD21	1.86	0.58
12:AL:25:PRO:O	12:AL:27:LEU:HD22	2.03	0.58
33:B7:7:PRO:CB	35:BA:1309:G:H4'	2.34	0.58
35:DA:1049:C:H2'	35:DA:1050:A:C8	2.38	0.58
7:AG:79:ARG:NH2	23:AW:34:U:H4'	2.18	0.58
13:AM:117:VAL:HG12	13:AM:118:ALA:N	2.17	0.58
35:DA:662:G:H2'	35:DA:663:G:H8	1.68	0.58
40:DF:34:TRP:CB	46:DP:11:GLY:HA3	2.33	0.58
35:DA:926:A:H8	35:DA:926:A:H5'	1.67	0.58
1:AA:1391:U:H2'	1:AA:1392:G:H8	1.65	0.58
1:CA:1341:U:O2'	1:CA:1342:C:H5'	2.03	0.58
35:BA:2538:C:C2'	35:BA:2539:C:H5'	2.32	0.58
8:CH:29:SER:O	8:CH:32:LYS:HB2	2.03	0.58
31:B5:44:THR:CG2	31:B5:45:VAL:H	2.08	0.58
1:AA:1343:G:H1'	9:AI:121:ARG:HH12	1.69	0.58
35:BA:272:G:H1'	35:BA:272(B):G:O4'	2.03	0.58
35:BA:1049:C:H2'	35:BA:1050:A:C8	2.38	0.58
33:D7:31:LEU:CD2	33:D7:42:LEU:HB3	2.32	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:BD:172:TYR:HD1	38:BD:186:HIS:CA	2.16	0.58
16:CP:68:ASP:O	16:CP:71:ARG:HB3	2.02	0.58
50:BT:13:ARG:HH12	50:BT:15:VAL:HG13	1.64	0.58
38:DD:134:ARG:O	38:DD:136:ILE:N	2.36	0.58
38:DD:172:TYR:HD1	38:DD:186:HIS:CA	2.16	0.58
50:DT:13:ARG:HH12	50:DT:15:VAL:HG13	1.68	0.58
35:BA:493:G:H2'	35:BA:494:G:H5''	1.85	0.58
2:CB:67:THR:CG2	2:CB:155:LEU:HG	2.33	0.58
51:DU:3:ARG:HG3	51:DU:3:ARG:O	2.02	0.58
35:BA:15:G:H2'	35:BA:16:G:C8	2.34	0.58
35:BA:1710:C:H2'	35:BA:1711:C:C6	2.39	0.58
23:CW:17:C:H4'	23:CW:62:C:C5'	2.33	0.58
12:CL:119:LYS:O	12:CL:120:TYR:HB2	2.03	0.58
12:CL:119:LYS:C	12:CL:120:TYR:HD1	2.05	0.58
35:DA:861:A:H62	35:DA:916:G:H21	1.49	0.58
36:DB:78:A:C2	36:DB:100:A:C4	2.91	0.58
1:AA:1397:C:N4	24:AX:22:U:C5	2.71	0.58
36:BB:83:G:O2'	36:BB:84:C:H5'	2.04	0.58
45:DO:13:ASN:HD21	45:DO:96:THR:H	1.50	0.58
1:CA:1365:G:O2'	1:CA:1366:C:H5'	2.03	0.58
1:CA:1294:G:H2'	1:CA:1295:G:H8	1.69	0.58
35:DA:1108:U:C2'	35:DA:1109:C:H5'	2.33	0.58
6:CF:37:VAL:HG13	6:CF:65:VAL:CG1	2.33	0.58
3:AC:91:LEU:O	3:AC:94:LEU:HG	2.03	0.58
35:BA:1469:A:O2'	35:BA:1470:G:H5'	2.03	0.58
32:B6:42:TRP:HA	32:B6:42:TRP:HE3	1.69	0.58
3:CC:91:LEU:O	3:CC:94:LEU:HG	2.03	0.58
56:DZ:22:GLY:O	56:DZ:41:LEU:HD21	2.03	0.58
1:CA:304:U:H2'	1:CA:305:G:C8	2.39	0.58
35:DA:401:A:H2'	35:DA:402:A:C8	2.38	0.58
39:DE:24:THR:OG1	39:DE:188:VAL:HG11	2.04	0.58
43:BI:88:ILE:HG23	43:BI:89:TYR:H	1.68	0.58
38:DD:35:LYS:HE2	38:DD:104:TYR:CB	2.33	0.58
32:B6:51:GLU:CG	32:B6:52:VAL:H	2.00	0.58
46:BP:62:LEU:O	46:BP:62:LEU:HD22	2.03	0.58
35:BA:2863:C:C2'	35:BA:2864:G:H5''	2.34	0.58
56:BZ:97:GLU:HA	56:BZ:126:VAL:O	2.03	0.58
39:BE:34:VAL:CG2	39:BE:48:GLN:HE21	2.15	0.58
51:BU:49:HIS:HA	51:BU:52:ARG:HB2	1.86	0.58
14:AN:40:CYS:SG	14:AN:41:ARG:N	2.77	0.58
28:B2:53:LEU:CA	28:B2:56:GLN:HG2	2.30	0.58
54:BX:59:VAL:HG23	54:BX:74:PRO:CD	2.33	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:DN:110:GLY:HA2	44:DN:114:ARG:NH2	2.18	0.58
35:BA:611:C:O2'	35:BA:612:C:H5'	2.03	0.58
40:BF:110:LEU:HD21	40:BF:181:LEU:HD23	1.85	0.58
25:AY:34:ASN:CG	25:AY:35:PRO:HD2	2.24	0.58
55:BY:95:LYS:HG2	55:BY:100:ALA:CA	2.18	0.58
20:AT:50:GLU:HG3	20:AT:51:GLU:H	1.69	0.58
35:DA:2078:C:O2'	35:DA:2079:U:H5'	2.04	0.58
44:DN:55:VAL:HG12	44:DN:126:PRO:HA	1.84	0.58
56:BZ:116:VAL:HG12	56:BZ:117:LEU:N	2.15	0.58
44:BN:57:ALA:HB1	44:BN:60:ILE:HD11	1.84	0.58
6:CF:69:GLU:HG2	6:CF:70:ASP:H	1.68	0.58
15:CO:50:HIS:O	15:CO:53:HIS:HB3	2.02	0.58
2:CB:167:PRO:HD2	2:CB:188:ALA:HB2	1.85	0.58
2:CB:178:ARG:HH22	2:CB:196:LEU:HA	1.68	0.58
2:CB:185:ILE:HG22	2:CB:199:TYR:HD1	1.68	0.58
2:CB:71:VAL:CG2	2:CB:93:VAL:HG23	2.33	0.58
35:DA:195:A:H5''	35:DA:196:A:OP2	2.03	0.58
35:DA:1224:C:O3'	52:DV:88:ARG:HB3	2.03	0.58
55:DY:37:VAL:O	55:DY:38:ILE:HB	2.03	0.58
55:DY:42:VAL:HB	55:DY:65:ALA:HB3	1.83	0.58
4:AD:64:LEU:HB2	4:AD:198:VAL:HG11	1.85	0.58
1:AA:735:C:H2'	1:AA:736:C:C6	2.37	0.58
1:CA:1515:C:O2'	1:CA:1516:G:H5'	2.03	0.58
35:DA:580:C:H2'	35:DA:581:C:C6	2.38	0.58
12:CL:32:PHE:HB3	12:CL:84:LEU:HD21	1.86	0.58
12:CL:86:ARG:CG	12:CL:87:GLY:H	2.16	0.58
11:AK:69:ALA:O	11:AK:73:MET:N	2.29	0.58
35:DA:2600:A:HO2'	35:DA:2601:C:H5'	1.67	0.58
55:BY:68:HIS:ND1	55:BY:69:ALA:N	2.51	0.58
7:AG:146:GLU:O	7:AG:149:ARG:HB2	2.03	0.58
54:BX:65:ARG:CA	54:BX:65:ARG:NE	2.66	0.58
33:D7:8:ASN:C	33:D7:8:ASN:HD22	2.06	0.58
38:BD:69:ARG:HD3	38:BD:105:ILE:HD12	1.86	0.58
46:BP:95:VAL:O	46:BP:125:VAL:HG23	2.03	0.58
35:DA:493:G:H3'	35:DA:494:G:H5''	1.85	0.58
35:DA:680:G:H2'	35:DA:681:G:H8	1.68	0.58
6:AF:45:LEU:O	6:AF:46:ARG:HD2	2.03	0.58
5:AE:78:HIS:HD2	8:AH:104:ARG:NE	2.01	0.58
35:DA:1503:U:H2'	35:DA:1504:C:C5	2.37	0.58
1:AA:661:G:H2'	1:AA:662:G:H8	1.67	0.58
35:BA:1707:G:H2'	35:BA:1708:C:C6	2.38	0.58
46:BP:91:PHE:N	46:BP:91:PHE:CD1	2.71	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1522:U:C2'	1:AA:1523:G:H5'	2.34	0.58
35:BA:1034:G:H22	35:BA:1122:G:H1'	1.66	0.58
35:DA:1034:G:H22	35:DA:1122:G:H1'	1.66	0.58
1:CA:178:C:H2'	1:CA:179:A:H8	1.68	0.58
35:BA:214:G:O2'	35:BA:215:G:O4'	2.20	0.58
35:DA:1324:G:H3'	35:DA:1325:G:C5'	2.33	0.58
35:BA:2876:G:H4'	50:BT:2:ASN:O	2.03	0.58
35:DA:1198:U:H2'	35:DA:1199:U:C6	2.38	0.58
35:DA:2840:C:H2'	35:DA:2841:C:H6	1.69	0.58
37:BC:76:ALA:HB3	37:BC:94:VAL:HG11	1.85	0.58
35:BA:841:A:H2'	35:BA:842:G:C8	2.39	0.58
35:BA:820:A:H2'	35:BA:821:A:O4'	2.03	0.58
23:AW:29:C:H2'	23:AW:30:G:H8	1.68	0.58
1:AA:506:G:H2'	1:AA:507:C:C6	2.39	0.58
35:DA:2563:U:O2'	45:DO:28:SER:HB3	2.02	0.58
14:CN:51:GLY:C	14:CN:53:LEU:H	2.07	0.58
35:BA:1813:G:H1'	38:BD:50:THR:OG1	2.04	0.58
35:DA:1792:G:O2'	35:DA:1793:C:H5'	2.03	0.58
50:BT:74:ARG:HG2	50:BT:74:ARG:HH11	1.69	0.58
35:BA:2808:U:O2'	35:BA:2809:A:H5'	2.03	0.58
39:BE:197:ILE:HD11	39:BE:199:ARG:HH22	1.67	0.58
39:BE:51:PHE:H	39:BE:74:PRO:CB	2.16	0.58
39:BE:59:VAL:HG21	39:BE:63:LEU:HA	1.85	0.58
10:AJ:50:ILE:N	10:AJ:50:ILE:HD13	2.01	0.58
54:BX:35:THR:HB	54:BX:75:ASP:OD2	2.03	0.58
39:DE:81:ILE:O	39:DE:81:ILE:HG22	2.04	0.58
27:B1:87:PRO:HB2	27:B1:91:LYS:HZ1	1.68	0.58
41:BG:91:ARG:HG2	41:BG:92:VAL:N	2.18	0.58
54:DX:49:VAL:CG1	54:DX:50:LYS:H	2.13	0.58
42:BH:109:PHE:CE1	42:BH:152:ARG:NE	2.71	0.58
49:BS:85:VAL:CG2	49:BS:106:ARG:HB2	2.34	0.58
4:CD:127:THR:HG23	4:CD:147:ALA:HB3	1.86	0.58
40:BF:20:LEU:HB3	40:BF:23:ASP:OD2	2.04	0.58
25:AY:58:VAL:HG22	25:AY:68:VAL:HG22	1.84	0.58
34:B8:49:VAL:CG1	34:B8:53:PRO:HD3	2.33	0.58
35:BA:1259:G:O2'	35:BA:1260:G:H5'	2.03	0.58
1:AA:320:C:O2'	1:AA:1435:G:H1'	2.03	0.58
20:AT:17:ARG:HA	20:AT:20:LEU:HD12	1.84	0.58
20:AT:73:HIS:HB3	20:AT:74:LYS:CD	2.31	0.58
48:BR:36:THR:HB	48:BR:40:LYS:HD2	1.86	0.58
35:DA:2334:G:H5'	49:DS:13:ARG:CG	2.29	0.58
2:AB:73:THR:HG22	2:AB:93:VAL:O	2.03	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:D1:39:LYS:HE3	35:DA:201:C:P	2.44	0.58
44:DN:26:LEU:HD21	44:DN:99:LEU:HD11	1.84	0.58
6:CF:75:LEU:HD22	6:CF:79:LEU:HD11	1.85	0.58
35:DA:1190:G:C5'	46:DP:35:HIS:HA	2.34	0.58
19:AS:12:ASP:O	19:AS:16:LEU:HD13	2.03	0.58
55:DY:28:LYS:CE	55:DY:30:VAL:HA	2.32	0.58
4:AD:11:LEU:O	4:AD:13:ARG:N	2.36	0.58
1:CA:779:C:O2'	1:CA:780:A:H5'	2.02	0.58
51:DU:40:PHE:CD2	51:DU:40:PHE:N	2.69	0.58
20:CT:42:GLN:O	20:CT:43:LEU:HD23	2.03	0.58
25:AY:13:HIS:O	25:AY:132:ILE:HD13	2.03	0.58
35:BA:2033:A:H4'	35:BA:2034:U:OP1	2.03	0.58
2:CB:102:LEU:CD1	2:CB:102:LEU:N	2.65	0.58
9:AI:26:VAL:HG22	9:AI:61:ALA:HB3	1.86	0.58
35:BA:271(Q):G:H2'	35:BA:271(R):G:H8	1.68	0.58
1:AA:779:C:O2'	1:AA:780:A:H5'	2.02	0.58
35:DA:1771:C:H1'	35:DA:1786:A:C8	2.38	0.58
1:AA:726:C:H2'	1:AA:727:G:C8	2.39	0.58
2:CB:19:HIS:CD2	2:CB:20:GLU:HG2	2.38	0.58
1:AA:769:G:H2'	1:AA:770:C:H6	1.67	0.58
35:BA:1447:G:H2'	35:BA:1448:G:H8	1.68	0.58
1:CA:1097:C:O2'	1:CA:1098:C:H5'	2.02	0.58
23:AW:23:G:H2'	23:AW:24:C:H5''	1.86	0.58
6:AF:82:ARG:HB2	6:AF:85:VAL:CG2	2.34	0.58
46:BP:90:ARG:CD	46:BP:91:PHE:HD1	2.17	0.58
44:DN:129:PRO:O	44:DN:130:HIS:HB3	2.03	0.58
1:CA:1292:U:O2'	1:CA:1293:G:H5'	2.02	0.58
10:CJ:32:ALA:N	10:CJ:78:ASN:ND2	2.51	0.58
35:BA:1854:A:H3'	35:BA:1855:G:H8	1.68	0.58
43:DI:66:GLU:O	43:DI:70:GLU:HG2	2.04	0.58
35:DA:2825:C:H2'	35:DA:2826:A:O4'	2.03	0.58
35:DA:845:G:O2'	35:DA:846:C:H5	1.86	0.58
35:BA:2870:C:C2'	35:BA:2871:C:H5'	2.34	0.58
35:BA:127:A:H5''	35:BA:128:C:O4'	2.04	0.58
1:AA:794:A:H2'	1:AA:795:C:C6	2.38	0.58
35:BA:2555:U:H2'	35:BA:2556:C:H5'	1.84	0.58
25:CY:180:GLU:O	25:CY:183:ILE:HG13	2.03	0.58
14:CN:23:ARG:HD3	14:CN:29:ARG:O	2.04	0.58
10:CJ:6:ILE:HD12	10:CJ:6:ILE:O	2.03	0.58
35:BA:1677:A:H2'	35:BA:1678:G:H8	1.67	0.58
45:BO:104:ARG:HH12	50:BT:35:LYS:HD3	1.68	0.58
35:DA:2052:G:C2	39:DE:149:ARG:HA	2.38	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1150:C:C2'	35:BA:1151:G:H5'	2.34	0.58
35:BA:2314:C:H2'	35:BA:2315:G:H8	1.69	0.58
34:B8:60:LEU:HA	34:B8:63:PRO:CG	2.34	0.58
35:DA:92:A:H2'	35:DA:93:G:C8	2.39	0.58
54:DX:60:ARG:HG3	54:DX:71:GLY:HA3	1.86	0.58
49:BS:23:ARG:O	49:BS:86:ALA:HB3	2.04	0.58
47:BQ:35:VAL:CG1	47:BQ:130:LYS:HB3	2.34	0.58
35:BA:256:A:H2'	35:BA:257:A:C8	2.39	0.58
40:BF:31:HIS:O	40:BF:32:LEU:C	2.42	0.58
47:BQ:43:THR:OG1	47:BQ:45:GLN:HB2	2.03	0.58
48:DR:37:THR:HA	48:DR:111:LEU:HA	1.85	0.58
35:BA:2821:A:H3'	35:BA:2821:A:OP2	2.03	0.58
20:AT:16:HIS:O	20:AT:19:SER:HB2	2.04	0.58
48:BR:12:ARG:O	48:BR:13:HIS:HB3	2.04	0.58
35:BA:1275:A:C5	48:BR:16:HIS:ND1	2.72	0.58
49:DS:84:GLN:HA	49:DS:105:ALA:O	2.03	0.58
49:DS:23:ARG:O	49:DS:86:ALA:HB3	2.03	0.58
2:AB:71:VAL:O	2:AB:164:VAL:HG22	2.04	0.58
56:BZ:116:VAL:HG12	56:BZ:117:LEU:HD23	1.86	0.58
40:DF:67:GLN:O	40:DF:67:GLN:CG	2.35	0.58
52:DV:72:VAL:HG12	52:DV:73:SER:N	2.11	0.58
18:AR:74:ARG:HG3	18:AR:74:ARG:HH11	1.69	0.58
25:CY:160:GLU:O	25:CY:161:ILE:C	2.41	0.58
25:CY:32:ARG:NE	25:CY:32:ARG:CA	2.66	0.58
25:AY:171:LYS:HA	25:AY:174:GLN:NE2	2.18	0.58
7:CG:100:ALA:C	7:CG:104:LEU:HD23	2.24	0.58
47:BQ:81:VAL:HG23	47:BQ:82:ARG:HH11	1.69	0.58
1:AA:708:C:O2'	1:AA:709:G:H5'	2.02	0.58
35:DA:2264:C:H2'	35:DA:2265:U:C6	2.39	0.58
8:AH:103:VAL:HG12	8:AH:108:GLY:HA3	1.83	0.58
5:AE:6:PHE:HB3	5:AE:35:GLY:O	2.03	0.58
1:AA:1248:A:H2'	1:AA:1249:C:H5'	1.84	0.58
8:CH:11:THR:HA	8:CH:14:ARG:CZ	2.33	0.58
46:DP:107:LYS:C	46:DP:109:GLY:H	2.07	0.58
35:DA:2012:G:OP1	53:DW:98:LYS:HA	2.03	0.58
16:CP:73:LEU:O	16:CP:77:ALA:HB2	2.03	0.58
1:AA:802:A:H2'	1:AA:803:G:C5'	2.34	0.58
1:CA:936:C:O2'	1:CA:937:A:H5'	2.02	0.58
1:AA:877:C:H5''	8:AH:88:LYS:HD2	1.85	0.58
2:AB:101:MET:O	2:AB:108:ILE:HG21	2.03	0.58
5:AE:78:HIS:HB2	5:AE:79:GLU:OE1	2.03	0.58
20:CT:76:ALA:O	20:CT:80:ARG:HG2	2.04	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:CC:107:GLN:O	3:CC:108:ASN:HB2	2.01	0.58
35:BA:2098:U:H2'	35:BA:2099:U:C6	2.39	0.58
13:CM:23:TYR:OH	13:CM:71:ARG:HD3	2.04	0.58
35:DA:1615:C:H5	35:DA:1617:C:C4	2.21	0.58
35:BA:470:A:OP1	40:BF:59:TYR:HE2	1.87	0.58
35:DA:972:G:H2'	35:DA:973:A:C8	2.39	0.58
17:CQ:86:GLU:C	17:CQ:88:TYR:N	2.57	0.58
35:BA:1006:C:H2'	35:BA:1007:C:C6	2.38	0.58
44:DN:137:LYS:HG2	44:DN:138:LEU:N	2.17	0.58
23:CW:36:A:O2'	23:CW:37:U:H5'	2.03	0.58
35:DA:7:G:H4'	44:DN:13:TRP:HH2	1.68	0.58
6:CF:43:LEU:H	6:CF:43:LEU:CD1	2.17	0.58
26:D0:1:MET:O	26:D0:2:ALA:HB3	2.04	0.58
54:BX:88:LYS:C	54:BX:90:GLU:H	2.07	0.58
35:BA:221:A:H4'	35:BA:222:A:O5'	2.04	0.58
35:BA:2368:C:H2'	35:BA:2369:A:H8	1.67	0.58
4:AD:133:VAL:HG12	4:AD:135:LEU:H	1.69	0.58
35:DA:1596:A:H5'	35:DA:1597:A:OP2	2.04	0.58
53:BW:110:LYS:HG3	53:BW:111:HIS:ND1	2.19	0.58
35:DA:2863:C:C2'	35:DA:2864:G:H5''	2.34	0.58
38:BD:48:ARG:NH1	38:BD:48:ARG:HG3	2.18	0.58
38:DD:211:ARG:CG	38:DD:211:ARG:HH11	2.17	0.58
38:DD:83:GLU:HB2	38:DD:92:ILE:HD11	1.86	0.58
41:DG:38:VAL:CA	41:DG:158:ALA:HB3	2.34	0.58
50:BT:35:LYS:HZ1	50:BT:41:ARG:HE	1.52	0.58
52:BV:18:LEU:CD2	52:BV:19:LYS:H	2.08	0.58
52:BV:34:GLU:CB	52:BV:62:LEU:HD12	2.33	0.58
42:DH:136:ILE:HD12	42:DH:136:ILE:N	2.17	0.58
42:DH:89:ILE:CD1	42:DH:129:THR:HB	2.33	0.58
28:B2:31:GLU:O	28:B2:37:PHE:HB2	2.03	0.58
39:DE:49:LEU:O	39:DE:78:LEU:HA	2.03	0.58
41:BG:142:PRO:HG2	41:BG:143:GLU:H	1.69	0.58
32:D6:10:LEU:HD22	32:D6:10:LEU:N	2.18	0.58
47:DQ:141:GLN:C	56:DZ:53:ILE:HB	2.24	0.58
3:CC:130:VAL:HA	3:CC:133:ALA:HB3	1.86	0.58
3:CC:130:VAL:O	3:CC:134:ILE:HG13	2.04	0.58
40:BF:3:GLU:HA	40:BF:24:LEU:HB3	1.85	0.58
27:D1:15:ALA:O	27:D1:46:LEU:HD23	2.02	0.58
46:DP:62:LEU:O	46:DP:62:LEU:HD22	2.03	0.58
55:BY:98:VAL:O	55:BY:99:CYS:SG	2.62	0.58
35:BA:2707:G:H2'	35:BA:2708:G:H8	1.68	0.58
50:BT:101:PHE:CD2	50:BT:102:ILE:N	2.70	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
49:DS:87:PHE:O	49:DS:88:ASP:HB2	2.02	0.58
35:DA:2241:A:H2'	35:DA:2242:G:H8	1.69	0.58
44:DN:24:GLY:HA2	44:DN:27:ALA:HB3	1.84	0.58
6:CF:10:LEU:HD13	6:CF:61:LEU:HD11	1.86	0.58
15:CO:70:LEU:HD23	15:CO:78:TYR:HA	1.85	0.58
2:CB:79:ASP:O	2:CB:82:ARG:N	2.36	0.58
4:AD:100:ARG:CZ	4:AD:137:SER:HA	2.33	0.58
4:AD:18:LYS:CE	4:AD:31:CYS:HB3	2.33	0.58
35:DA:2619:C:OP1	39:DE:152:LYS:HD3	2.04	0.58
1:CA:192:U:H2'	1:CA:193:C:H6	1.68	0.58
25:AY:164:ILE:HG22	25:AY:165:THR:N	2.19	0.58
1:CA:569:C:H42	1:CA:881:G:H1	1.51	0.58
44:BN:78:TYR:N	44:BN:79:PRO:HD2	2.18	0.58
33:B7:19:ARG:HD3	35:BA:125:G:H5''	1.84	0.58
43:DI:8:PRO:HD3	43:DI:15:VAL:CG1	2.34	0.58
46:DP:85:LEU:HA	46:DP:88:LEU:CB	2.30	0.58
12:AL:70:ILE:HG13	12:AL:100:ILE:HD12	1.85	0.58
46:BP:144:GLU:N	46:BP:145:PRO:HD3	2.18	0.58
16:CP:71:ARG:HA	16:CP:74:LEU:HD12	1.86	0.58
1:CA:680:C:O2'	1:CA:681:C:H5'	2.04	0.58
35:DA:2114:A:C2'	35:DA:2115:G:H5'	2.34	0.58
1:AA:112:G:O2'	1:AA:113:G:H5'	2.04	0.58
1:CA:10:A:H2'	1:CA:11:G:H8	1.68	0.58
3:AC:88:ARG:HG2	3:AC:101:LEU:HB2	1.86	0.58
35:DA:470:A:C2	35:DA:471:A:C4	2.91	0.58
26:B0:38:VAL:HG23	26:B0:59:LEU:HB2	1.85	0.58
35:BA:268:C:H42	35:BA:424:G:H1	1.52	0.58
35:DA:1448:G:H2'	35:DA:1449:A:C8	2.38	0.58
1:CA:337:C:H2'	1:CA:338:A:C8	2.35	0.58
10:AJ:23:ILE:HG22	10:AJ:23:ILE:O	2.04	0.58
10:AJ:75:ILE:HG13	10:AJ:76:ASN:N	2.18	0.58
7:CG:146:GLU:O	7:CG:149:ARG:HB2	2.03	0.58
35:BA:42:G:H2'	35:BA:43:A:C8	2.39	0.58
50:DT:129:ARG:CZ	50:DT:131:ALA:HB3	2.33	0.58
16:CP:53:VAL:HG23	16:CP:54:GLU:H	1.68	0.58
1:AA:936:C:O2'	1:AA:937:A:H5'	2.03	0.58
35:BA:66:C:H2'	35:BA:67:U:H5'	1.86	0.58
1:AA:788:U:C4	1:AA:789:U:C5	2.92	0.58
1:CA:758:G:O5'	1:CA:758:G:H8	1.86	0.58
57:DC:196:LEU:C	57:DC:198:ALA:H	2.07	0.58
2:CB:224:GLN:HG2	2:CB:224:GLN:O	2.02	0.58
1:AA:127:G:HO2'	17:AQ:2:PRO:N	2.01	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:361:G:O2'	1:AA:362:G:H5'	2.03	0.58
45:DO:11:ALA:HB1	45:DO:99:PHE:O	2.04	0.58
50:DT:50:ILE:N	50:DT:50:ILE:HD12	2.19	0.58
35:DA:1822:G:H2'	35:DA:1823:G:H8	1.68	0.58
38:DD:181:GLU:HA	38:DD:272:ALA:O	2.03	0.58
41:DG:45:GLU:O	41:DG:47:LYS:N	2.36	0.58
47:BQ:134:ARG:HH12	56:BZ:119:GLU:CD	2.06	0.58
39:BE:49:LEU:O	39:BE:78:LEU:HA	2.03	0.58
52:BV:38:LEU:CD2	52:BV:39:LEU:N	2.65	0.58
52:BV:22:VAL:HG21	52:BV:96:ILE:HD12	1.86	0.58
1:AA:1223:C:P	1:AA:1224:G:H2'	2.43	0.58
35:BA:61:G:H1	35:BA:94:C:H42	1.52	0.58
35:BA:94(A):G:C3'	35:BA:95:G:H5''	2.33	0.58
28:B2:29:LYS:HZ1	54:BX:9:LEU:HA	1.67	0.58
27:B1:87:PRO:O	27:B1:89:GLU:N	2.37	0.58
55:DY:76:CYS:SG	55:DY:77:PRO:CD	2.92	0.58
54:DX:59:VAL:HG23	54:DX:74:PRO:CD	2.32	0.58
35:DA:2468:G:HO2'	35:DA:2476:A:H8	1.52	0.58
47:DQ:114:ALA:C	47:DQ:116:GLU:H	2.05	0.58
4:CD:14:ARG:O	4:CD:16:GLY:N	2.36	0.58
4:CD:176:LEU:CD1	4:CD:177:ASP:H	2.16	0.58
1:CA:995:C:O2'	1:CA:996:A:H5'	2.04	0.58
27:D1:13:ILE:CD1	27:D1:14:VAL:HG12	2.34	0.58
52:BV:75:PHE:HD1	52:BV:87:HIS:O	1.87	0.58
40:DF:3:GLU:CB	40:DF:24:LEU:HG	2.33	0.58
1:AA:1435:G:H2'	1:AA:1436:U:C6	2.39	0.58
1:AA:1479:C:H2'	1:AA:1480:G:C8	2.39	0.58
48:BR:13:HIS:CE1	48:BR:16:HIS:HB2	2.39	0.58
2:CB:222:ILE:HG23	2:CB:223:ILE:N	2.18	0.58
35:DA:8:A:H2'	35:DA:9:U:C6	2.37	0.58
2:CB:69:LEU:CB	2:CB:162:ILE:HG22	2.33	0.58
19:AS:14:HIS:CD2	19:AS:15:LEU:HD22	2.39	0.58
1:AA:881:G:P	12:AL:12:ARG:HH22	2.27	0.58
4:AD:14:ARG:O	4:AD:16:GLY:N	2.36	0.58
7:AG:29:LYS:HB2	7:AG:105:VAL:HG21	1.84	0.58
25:CY:162:GLN:HG3	25:CY:166:ASP:OD2	2.04	0.58
25:AY:170:ALA:C	25:AY:172:ALA:N	2.58	0.58
7:CG:29:LYS:HB2	7:CG:105:VAL:HG21	1.86	0.58
12:CL:9:GLN:O	12:CL:11:VAL:N	2.36	0.58
43:BI:94:ALA:C	43:BI:96:ASP:N	2.57	0.58
7:AG:143:ARG:O	7:AG:147:ALA:HB2	2.03	0.58
46:DP:21:ARG:HH11	46:DP:21:ARG:HG3	1.68	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
11:CK:62:GLN:C	11:CK:64:ALA:H	2.07	0.58
8:AH:11:THR:HA	8:AH:14:ARG:HH12	1.68	0.58
9:AI:4:TYR:HB2	9:AI:19:LEU:HD12	1.86	0.58
1:CA:826:C:H2'	1:CA:827:U:C6	2.39	0.58
42:BH:40:GLU:HB2	42:BH:41:MET:SD	2.43	0.58
38:BD:134:ARG:HB2	38:BD:135:PHE:HD1	1.69	0.58
1:CA:453:A:C5	1:CA:454:C:C4	2.92	0.58
7:AG:121:ALA:CA	7:AG:124:LEU:HD12	2.34	0.58
1:AA:255:G:O3'	17:AQ:17:LYS:HD2	2.02	0.58
31:D5:2:ALA:N	35:DA:747:U:N3	2.51	0.58
42:BH:136:ILE:HD12	42:BH:136:ILE:N	2.15	0.58
1:AA:460:G:O6	1:AA:470:C:H5''	2.04	0.58
13:CM:78:ILE:HA	13:CM:81:LEU:CD1	2.33	0.58
35:BA:1337:G:H2'	35:BA:1338:G:O4'	2.04	0.58
9:AI:79:LEU:CD2	9:AI:102:LEU:HA	2.32	0.58
48:BR:6:SER:HA	48:BR:8:ARG:NH2	2.19	0.58
38:BD:10:THR:O	38:BD:11:PRO:C	2.38	0.58
44:BN:107:LEU:HD12	44:BN:108:PRO:O	2.03	0.58
1:AA:441:A:H3'	1:AA:442:C:C6	2.38	0.58
35:BA:45:C:H2'	35:BA:47:C:H6	1.68	0.58
53:BW:1:MET:HG3	53:BW:2:GLU:N	2.19	0.58
35:DA:2410:G:N2	35:DA:2411:A:H1'	2.19	0.58
35:BA:2302:G:H1'	41:BG:128:ARG:HG3	1.86	0.58
1:CA:127:G:HO2'	17:CQ:2:PRO:N	2.02	0.58
1:CA:129(A):G:N2	1:CA:189(E):U:H1'	2.19	0.58
31:D5:8:LYS:O	31:D5:9:LYS:HD2	2.03	0.58
43:BI:66:GLU:O	43:BI:70:GLU:HG2	2.04	0.58
42:BH:20:ALA:HB1	42:BH:21:PRO:CD	2.34	0.58
35:BA:332:A:H4'	35:BA:333:G:OP1	2.03	0.58
35:BA:1357:U:O2'	35:BA:1358:G:H5'	2.03	0.58
45:DO:86:ILE:N	45:DO:86:ILE:CD1	2.66	0.58
41:DG:12:TYR:H	41:DG:12:TYR:HD1	1.50	0.58
35:BA:1824:G:OP1	38:BD:52:ARG:HD3	2.04	0.58
38:BD:35:LYS:HE2	38:BD:104:TYR:CG	2.39	0.58
1:CA:1396:A:O4'	1:CA:1398:A:H1'	2.03	0.58
32:B6:27:LYS:HD2	35:BA:2285:C:OP2	2.04	0.58
47:DQ:103:MET:CE	47:DQ:125:LEU:HD21	2.34	0.58
45:BO:63:VAL:HG11	45:BO:85:VAL:HG23	1.86	0.58
56:BZ:10:ARG:HB3	56:BZ:36:LYS:CB	2.29	0.58
39:BE:78:LEU:CD2	39:BE:78:LEU:N	2.67	0.58
51:BU:110:VAL:O	51:BU:114:LYS:N	2.31	0.58
35:DA:2892:A:C5	35:DA:2893:G:H1'	2.38	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:AB:80:ILE:HG13	2:AB:81:VAL:N	2.18	0.58
34:B8:60:LEU:CD2	34:B8:60:LEU:N	2.67	0.58
35:DA:535:C:O2'	35:DA:536:A:H5'	2.04	0.58
51:DU:49:HIS:O	51:DU:52:ARG:HB2	2.03	0.58
1:AA:1202:G:C2'	1:AA:1203:C:H5'	2.34	0.58
1:CA:539:A:OP1	12:CL:114:LYS:HE2	2.04	0.58
35:BA:1024:G:C8	35:BA:1025:G:H2'	2.39	0.58
51:BU:47:TYR:HA	51:BU:50:ARG:NH1	2.18	0.58
48:DR:9:LYS:NZ	48:DR:39:PRO:HA	2.19	0.58
2:AB:158:LEU:H	2:AB:158:LEU:HD12	1.68	0.58
2:AB:55:PHE:CD1	2:AB:58:ILE:HD12	2.39	0.58
27:D1:41:ARG:HH22	35:DA:205:G:H1	1.50	0.58
55:DY:11:ASP:N	55:DY:27:VAL:HG22	2.19	0.58
43:DI:94:ALA:C	43:DI:96:ASP:H	2.05	0.58
25:CY:125:GLY:O	25:CY:128:ALA:HB3	2.04	0.58
12:CL:83:VAL:CG2	12:CL:84:LEU:H	2.08	0.58
7:AG:75:VAL:HA	7:AG:88:PRO:HA	1.86	0.58
11:AK:65:ALA:O	11:AK:68:ALA:HB3	2.04	0.58
35:BA:1427:A:H4'	35:BA:1428:C:O5'	2.04	0.58
1:CA:601:C:O2'	1:CA:602:A:H5'	2.04	0.58
7:AG:152:ALA:O	7:AG:154:TYR:N	2.36	0.58
1:AA:528:C:N4	12:AL:49:ASN:HD22	2.01	0.58
8:AH:27:PRO:HA	8:AH:58:TYR:HA	1.86	0.58
9:AI:17:VAL:CG2	9:AI:81:ILE:HD13	2.34	0.58
9:AI:5:TYR:HA	9:AI:17:VAL:O	2.03	0.58
1:CA:823:G:H21	8:CH:1:MET:HE1	1.69	0.58
18:CR:56:THR:HG21	18:CR:63:GLN:HE22	1.69	0.58
42:DH:12:PRO:O	42:DH:13:LYS:HB2	2.03	0.58
46:BP:106:LEU:HD11	46:BP:112:LEU:HB2	1.86	0.58
7:CG:121:ALA:HA	7:CG:124:LEU:HD12	1.84	0.58
38:DD:134:ARG:HB2	38:DD:135:PHE:CD1	2.37	0.58
1:AA:680:C:O2'	1:AA:681:C:H5'	2.04	0.58
39:DE:104:VAL:O	39:DE:167:VAL:HG12	2.02	0.58
17:CQ:40:LYS:HG2	17:CQ:41:LYS:N	2.19	0.58
1:AA:9:G:H2'	1:AA:10:A:C8	2.39	0.58
19:AS:49:ILE:O	19:AS:60:VAL:HG12	2.04	0.58
25:CY:108:GLU:O	25:CY:111:ARG:N	2.36	0.58
13:AM:9:ILE:CG2	13:AM:11:ARG:HG3	2.33	0.58
19:CS:41:VAL:CB	19:CS:44:MET:HB2	2.34	0.58
35:BA:635:C:O2'	35:BA:636:G:H5'	2.04	0.58
35:DA:1423:G:H2'	35:DA:1424:G:H8	1.69	0.58
1:AA:656:C:H4'	15:AO:62:GLN:HE22	1.68	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
15:AO:82:ILE:O	15:AO:82:ILE:HD13	2.04	0.58
54:DX:12:VAL:HG13	54:DX:17:ALA:CB	2.34	0.58
35:DA:1337:G:H2'	35:DA:1338:G:O4'	2.04	0.58
35:BA:360:G:H2'	35:BA:361:G:H8	1.69	0.58
22:CV:27:G:O2'	22:CV:28:G:H5'	2.04	0.58
35:BA:977:G:O2'	35:BA:978:G:H5'	2.04	0.58
53:DW:1:MET:HG3	53:DW:2:GLU:N	2.19	0.58
1:CA:796:C:P	11:CK:123:LYS:HZ2	2.27	0.58
17:AQ:65:ILE:N	17:AQ:65:ILE:HD12	2.19	0.58
35:BA:40:C:H2'	35:BA:41:C:H6	1.68	0.58
35:BA:1744:C:O2'	35:BA:1745:C:H5'	2.03	0.58
1:CA:524:G:H2'	1:CA:525:C:C6	2.38	0.58
53:BW:29:LEU:O	53:BW:33:ARG:HG3	2.04	0.57
45:DO:80:ASP:O	45:DO:81:ASP:HB3	2.04	0.57
39:DE:12:THR:CG2	50:DT:8:LYS:HE2	2.34	0.57
35:BA:1822:G:H2'	35:BA:1823:G:H8	1.67	0.57
35:BA:782:A:H2	38:BD:226:MET:HG2	1.64	0.57
41:DG:103:LEU:O	41:DG:107:LEU:N	2.37	0.57
41:DG:178:PHE:HB3	41:DG:180:PHE:CE1	2.32	0.57
39:BE:9:VAL:HG22	39:BE:25:VAL:HB	1.85	0.57
50:BT:28:VAL:N	50:BT:88:ILE:HD13	2.18	0.57
39:DE:36:ARG:NH2	39:DE:88:GLY:CA	2.66	0.57
39:DE:59:VAL:HG22	39:DE:63:LEU:HA	1.86	0.57
2:AB:212:GLN:CG	2:AB:235:SER:HB2	2.33	0.57
36:BB:42:C:O4'	41:BG:68:PRO:O	2.21	0.57
55:BY:47:LYS:HG3	55:BY:60:PHE:CZ	2.39	0.57
56:DZ:146:ILE:HA	56:DZ:174:VAL:CG1	2.33	0.57
35:BA:2052:G:N3	39:BE:149:ARG:HA	2.19	0.57
39:BE:120:TRP:NE1	39:BE:155:LYS:HB3	2.18	0.57
39:BE:120:TRP:CE3	39:BE:155:LYS:HD3	2.39	0.57
35:BA:909:A:H1'	47:BQ:10:ARG:HH22	1.69	0.57
20:AT:26:ASN:HD22	20:AT:26:ASN:N	2.02	0.57
35:BA:2846:G:H2'	35:BA:2847:U:C6	2.39	0.57
2:CB:237:ALA:O	2:CB:238:LEU:HB3	2.03	0.57
2:AB:68:ILE:HG22	2:AB:70:PHE:HD1	1.67	0.57
27:D1:23:LYS:HB3	27:D1:23:LYS:HZ2	1.68	0.57
2:CB:169:LYS:HD3	2:CB:169:LYS:O	2.03	0.57
35:DA:590:A:H2'	35:DA:591:C:C6	2.39	0.57
1:CA:714:G:H2'	1:CA:715:A:C8	2.39	0.57
44:DN:78:TYR:N	44:DN:79:PRO:HD2	2.19	0.57
51:DU:34:LYS:HA	51:DU:34:LYS:CE	2.33	0.57
12:CL:26:ALA:O	12:CL:27:LEU:HB2	2.03	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:CM:115:LYS:O	13:CM:117:VAL:HG23	2.04	0.57
25:AY:150:SER:C	25:AY:152:ASP:H	2.04	0.57
11:AK:20:TYR:O	11:AK:30:VAL:HA	2.04	0.57
8:AH:96:GLY:O	8:AH:98:LYS:N	2.36	0.57
8:CH:63:LEU:HG	8:CH:65:TYR:OH	2.04	0.57
8:CH:20:TYR:HE2	8:CH:75:ARG:HD2	1.69	0.57
35:DA:464:U:H2'	35:DA:465:G:C8	2.39	0.57
35:BA:2307:G:H21	35:BA:2308:G:H5'	1.68	0.57
39:DE:169:ASN:OD1	39:DE:201:THR:HG21	2.03	0.57
2:AB:97:TRP:NE1	2:AB:101:MET:SD	2.77	0.57
35:BA:1417:C:O2'	35:BA:1418:G:H5'	2.04	0.57
35:BA:1486:A:H61	35:BA:1504:C:H42	1.52	0.57
20:CT:17:ARG:HA	20:CT:20:LEU:HD12	1.86	0.57
20:CT:26:ASN:HD22	20:CT:26:ASN:N	2.00	0.57
1:CA:766:A:H2'	1:CA:767:A:O4'	2.04	0.57
35:BA:916:G:C2'	35:BA:917:A:H5''	2.34	0.57
26:D0:27:GLU:HG3	26:D0:68:GLU:HA	1.86	0.57
38:BD:9:TYR:O	38:BD:10:THR:HG22	2.04	0.57
35:DA:1642:G:H2'	35:DA:1643:G:C8	2.39	0.57
35:DA:2661:G:H2'	35:DA:2662:A:H8	1.68	0.57
35:DA:1292:U:H2'	35:DA:1293:C:C6	2.39	0.57
35:DA:40:C:H2'	35:DA:41:C:H6	1.68	0.57
1:CA:363:A:C5	12:CL:31:PRO:HD2	2.39	0.57
35:BA:319:C:O2'	35:BA:320:A:H5'	2.04	0.57
1:CA:857:C:H2'	1:CA:858:G:O4'	2.04	0.57
3:CC:120:VAL:HA	3:CC:123:GLN:HE21	1.69	0.57
50:DT:83:ILE:HD11	50:DT:84:GLN:HE21	1.67	0.57
35:BA:1568:G:H4'	38:BD:59:LYS:HG3	1.86	0.57
38:BD:160:GLY:H	38:BD:196:VAL:HB	1.69	0.57
38:BD:218:ARG:HB3	38:BD:219:PRO:HD2	1.84	0.57
56:BZ:11:GLU:HB2	56:BZ:13:GLU:HG3	1.85	0.57
44:BN:46:VAL:CG1	44:BN:47:ALA:H	2.00	0.57
51:BU:98:LEU:O	51:BU:101:ARG:N	2.37	0.57
51:BU:92:ARG:HB3	52:BV:11:GLN:CD	2.25	0.57
28:B2:22:GLU:HA	28:B2:25:VAL:HG12	1.85	0.57
35:BA:380:U:H2'	35:BA:381:G:C8	2.37	0.57
35:BA:2315:G:H2'	35:BA:2316:C:H6	1.67	0.57
41:BG:138:GLN:HG2	41:BG:153:ARG:H	1.68	0.57
41:BG:37:VAL:HB	41:BG:94:LEU:HB2	1.85	0.57
41:BG:51:ARG:NE	41:BG:51:ARG:HA	2.19	0.57
42:BH:89:ILE:N	42:BH:89:ILE:HD13	2.19	0.57
35:DA:902:C:H2'	35:DA:903:C:C6	2.39	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
56:DZ:45:ASP:O	56:DZ:49:ARG:HG2	2.03	0.57
35:DA:558:G:H2'	35:DA:559:G:C8	2.36	0.57
51:DU:55:ARG:HA	51:DU:58:ARG:CD	2.34	0.57
3:AC:153:VAL:HG12	3:AC:154:SER:N	2.19	0.57
49:BS:61:ASN:ND2	49:BS:62:LYS:HE3	2.18	0.57
4:CD:155:LEU:O	4:CD:158:ILE:HG22	2.03	0.57
43:DI:83:ALA:O	43:DI:144:VAL:HG13	2.04	0.57
34:D8:39:LYS:NZ	34:D8:43:GLN:HG3	2.19	0.57
47:BQ:87:LYS:O	47:BQ:88:GLY:O	2.22	0.57
35:DA:1581:G:H2'	35:DA:1582:C:O4'	2.04	0.57
20:AT:42:GLN:O	20:AT:43:LEU:HD23	2.04	0.57
49:DS:49:VAL:HG21	49:DS:77:ALA:HB2	1.86	0.57
2:AB:166:ASP:HB2	2:AB:205:ASP:OD2	2.05	0.57
47:BQ:114:ALA:C	47:BQ:116:GLU:H	2.05	0.57
4:AD:196:LEU:N	4:AD:196:LEU:HD12	2.19	0.57
34:D8:59:LYS:HG3	46:DP:49:ARG:HD2	1.86	0.57
35:DA:823:G:H2'	35:DA:824:A:C8	2.39	0.57
35:DA:674:G:O2'	40:DF:74:ARG:HB2	2.04	0.57
1:AA:431:A:H2'	1:AA:432:A:C8	2.40	0.57
43:DI:71:ILE:HG13	43:DI:72:LEU:H	1.67	0.57
43:DI:94:ALA:HA	43:DI:97:ILE:CG1	2.34	0.57
44:DN:15:LEU:HB3	44:DN:136:GLU:HA	1.84	0.57
12:CL:100:ILE:O	12:CL:102:ARG:N	2.36	0.57
43:BI:6:LEU:O	43:BI:7:GLU:C	2.43	0.57
13:CM:82:MET:HB3	13:CM:93:ARG:HH11	1.69	0.57
16:AP:6:LEU:HB3	16:AP:17:TYR:HB3	1.87	0.57
35:BA:1658:C:H2'	35:BA:1659:U:C6	2.39	0.57
47:BQ:83:MET:O	47:BQ:83:MET:CG	2.51	0.57
11:AK:61:ALA:CB	11:AK:90:GLY:HA3	2.32	0.57
33:B7:30:VAL:HG12	33:B7:33:ARG:HH12	1.69	0.57
55:BY:31:LEU:HB2	55:BY:36:ALA:O	2.04	0.57
1:AA:1226:C:H2'	13:AM:103:THR:OG1	2.04	0.57
46:DP:90:ARG:CD	46:DP:91:PHE:HD1	2.17	0.57
29:B3:4:LEU:HD12	29:B3:39:ASP:OD1	2.04	0.57
54:DX:21:PHE:HE1	54:DX:26:TYR:HB3	1.69	0.57
46:DP:111:ARG:HG3	46:DP:128:HIS:ND1	2.18	0.57
38:DD:173:VAL:HG12	38:DD:185:VAL:O	2.04	0.57
35:BA:1937:A:O2'	35:BA:1938:A:OP1	2.20	0.57
35:DA:1114:G:C2'	35:DA:1115:G:H5''	2.32	0.57
40:DF:148:LEU:HD21	40:DF:191:ARG:HD3	1.85	0.57
35:BA:913:U:H4'	35:BA:914:C:OP1	2.04	0.57
35:DA:2836:U:H2'	35:DA:2837:G:C8	2.38	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:45:C:H2'	35:DA:47:C:C6	2.39	0.57
35:BA:200:U:H2'	35:BA:201:C:H5'	1.86	0.57
1:AA:148:G:H2'	1:AA:149:A:C8	2.36	0.57
46:BP:140:ALA:O	46:BP:141:ALA:HB3	2.04	0.57
35:DA:2340:G:O2'	35:DA:2341:G:H5'	2.04	0.57
4:AD:193:ASP:HB2	4:AD:194:LEU:HD22	1.86	0.57
35:BA:2843:G:H1	35:BA:2874:C:N4	2.03	0.57
1:CA:359:U:H2'	1:CA:360:A:C8	2.39	0.57
46:BP:92:GLU:HG3	46:BP:93:GLY:N	2.19	0.57
35:BA:1014:U:H2'	35:BA:1015:G:H8	1.68	0.57
37:BC:56:GLN:HE22	37:BC:169:GLY:H	1.51	0.57
43:DI:75:LEU:HD11	43:DI:105:HIS:HE1	1.68	0.57
35:BA:2090:G:C6	35:BA:2091:U:C4	2.92	0.57
5:AE:87:SER:OG	5:AE:125:SER:HB3	2.03	0.57
35:BA:1695:G:H2'	35:BA:1696:G:O4'	2.03	0.57
35:DA:1488:G:O6	35:DA:1501:C:N4	2.37	0.57
35:DA:1999:C:H4'	35:DA:2723:C:O2	2.05	0.57
50:DT:89:VAL:HG11	50:DT:91:ARG:HE	1.68	0.57
14:CN:51:GLY:O	14:CN:53:LEU:N	2.36	0.57
1:CA:18:C:P	5:CE:127:ASN:HD21	2.27	0.57
35:DA:763:G:C4	35:DA:765:G:C8	2.93	0.57
41:DG:49:ASP:O	41:DG:50:ALA:HB2	2.04	0.57
41:DG:47:LYS:O	41:DG:51:ARG:HG2	2.04	0.57
47:DQ:68:ILE:HD13	47:DQ:68:ILE:N	2.15	0.57
16:AP:21:VAL:O	16:AP:33:ILE:HB	2.04	0.57
35:BA:2808:U:H2'	35:BA:2809:A:C5'	2.33	0.57
35:BA:2040:C:H2'	35:BA:2041:U:C6	2.40	0.57
51:BU:107:ALA:O	51:BU:111:GLU:HG2	2.04	0.57
51:BU:91:ASP:OD2	51:BU:96:ALA:CA	2.53	0.57
42:DH:102:ALA:CB	42:DH:117:PRO:HD3	2.21	0.57
42:DH:89:ILE:CD1	42:DH:90:LYS:H	2.17	0.57
35:BA:1600:C:C2'	35:BA:1601:G:H5'	2.34	0.57
27:B1:87:PRO:CG	27:B1:88:LYS:H	2.16	0.57
34:B8:60:LEU:HA	34:B8:63:PRO:HG2	1.85	0.57
28:D2:12:GLU:CD	28:D2:14:ARG:NH1	2.58	0.57
35:DA:139:G:H1	35:DA:142(A):C:H42	1.51	0.57
47:DQ:141:GLN:NE2	56:DZ:89:PHE:HB3	2.19	0.57
52:DV:40:LEU:O	52:DV:40:LEU:HD13	2.05	0.57
4:CD:176:LEU:CG	4:CD:177:ASP:N	2.66	0.57
4:CD:180:GLY:C	4:CD:181:MET:HG2	2.24	0.57
44:DN:66:LYS:O	44:DN:87:LEU:HB3	2.05	0.57
40:BF:67:GLN:O	40:BF:68:LYS:HG2	2.05	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
55:BY:74:PRO:O	55:BY:75:ILE:CB	2.52	0.57
48:BR:42:LYS:HG3	48:BR:45:ARG:NH2	2.18	0.57
48:BR:52:ILE:O	48:BR:55:ALA:N	2.37	0.57
6:CF:27:GLN:HE21	6:CF:27:GLN:HA	1.69	0.57
35:DA:812:C:C2	35:DA:1250:G:N1	2.72	0.57
46:DP:39:LYS:HD3	46:DP:40:SER:N	2.19	0.57
35:DA:692:C:H2'	35:DA:693:C:H6	1.69	0.57
1:CA:1406:U:O2'	1:CA:1407:C:H5'	2.04	0.57
51:DU:31:SER:O	51:DU:33:ARG:N	2.37	0.57
42:DH:20:ALA:HB1	42:DH:21:PRO:CD	2.34	0.57
42:DH:19:VAL:CG2	42:DH:44:VAL:HA	2.32	0.57
16:AP:64:ALA:O	16:AP:65:GLN:C	2.42	0.57
7:CG:95:ARG:O	7:CG:96:GLN:C	2.43	0.57
35:BA:2645:G:C3'	35:BA:2646:C:H5'	2.28	0.57
1:CA:600:C:H5'	8:CH:129:VAL:O	2.05	0.57
1:AA:599:C:H2'	1:AA:600:C:H6	1.67	0.57
1:CA:877:C:H5''	8:CH:88:LYS:HD2	1.86	0.57
12:CL:90:VAL:O	12:CL:92:ASP:N	2.34	0.57
1:CA:1248:A:H2'	1:CA:1249:C:H5'	1.85	0.57
33:D7:34:ARG:O	33:D7:35:ARG:C	2.41	0.57
16:CP:71:ARG:NH1	16:CP:71:ARG:HG3	2.20	0.57
18:CR:86:VAL:HG12	18:CR:87:ARG:NH1	2.19	0.57
2:AB:102:LEU:H	2:AB:102:LEU:HD12	1.67	0.57
7:AG:69:VAL:HG22	7:AG:135:VAL:HG22	1.86	0.57
35:DA:1298:C:H2'	35:DA:1299:G:C8	2.39	0.57
32:D6:14:THR:O	32:D6:49:HIS:HA	2.04	0.57
1:CA:103:C:H2'	1:CA:104:G:H8	1.70	0.57
16:AP:45:THR:HG22	16:AP:47:ASP:N	2.19	0.57
16:CP:14:ASN:N	16:CP:15:PRO:CD	2.67	0.57
45:BO:13:ASN:HD22	45:BO:97:ARG:CB	2.18	0.57
40:DF:31:HIS:O	40:DF:32:LEU:C	2.43	0.57
10:AJ:94:VAL:HG12	10:AJ:95:GLU:N	2.19	0.57
13:AM:76:ALA:HA	13:AM:79:LYS:HD2	1.85	0.57
17:CQ:12:SER:HB3	17:CQ:20:THR:OG1	2.04	0.57
6:AF:43:LEU:H	6:AF:43:LEU:CD1	2.17	0.57
11:CK:86:GLY:H	11:CK:112:THR:CG2	2.17	0.57
46:BP:86:LYS:HB3	46:BP:117:GLU:C	2.24	0.57
35:DA:2364:C:O2'	35:DA:2365:G:H5'	2.03	0.57
1:AA:1160:G:OP1	2:AB:132:LYS:HE3	2.04	0.57
17:AQ:56:VAL:HG23	17:AQ:78:GLU:O	2.05	0.57
46:DP:92:GLU:HG3	46:DP:93:GLY:N	2.20	0.57
1:AA:159:G:N1	1:AA:163:C:N4	2.53	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1494:G:H5''	35:BA:1913:A:C6	2.40	0.57
13:CM:87:TYR:N	19:CS:73:GLU:O	2.33	0.57
3:AC:120:VAL:HA	3:AC:123:GLN:HE21	1.69	0.57
8:AH:91:ARG:HG2	8:AH:91:ARG:HH11	1.69	0.57
50:DT:102:ILE:CA	50:DT:110:ILE:HD11	2.34	0.57
50:DT:23:ARG:NH2	50:DT:120:ARG:HD3	2.20	0.57
35:BA:1821:A:H2'	35:BA:1822:G:H8	1.68	0.57
38:BD:183:ARG:HG2	38:BD:183:ARG:NH1	2.18	0.57
38:BD:34:VAL:HG22	38:BD:35:LYS:HZ2	1.69	0.57
50:BT:86:ILE:HG12	50:BT:87:ASP:O	2.04	0.57
35:DA:1418:G:N1	35:DA:1579:A:H5'	2.19	0.57
35:BA:528:A:C2	35:BA:2043:C:C5'	2.83	0.57
51:BU:102:GLU:O	51:BU:105:VAL:HG23	2.04	0.57
52:BV:19:LYS:HZ2	52:BV:20:LEU:N	1.91	0.57
52:BV:4:ILE:HD12	52:BV:40:LEU:HD11	1.86	0.57
42:DH:109:PHE:CE1	42:DH:152:ARG:NE	2.72	0.57
10:AJ:48:THR:HG23	10:AJ:61:GLU:C	2.25	0.57
28:B2:56:GLN:OE1	35:BA:76:C:H1'	2.04	0.57
39:DE:79:ARG:HH11	39:DE:79:ARG:HG2	1.68	0.57
27:B1:73:LEU:O	27:B1:76:ARG:HG2	2.03	0.57
41:BG:85:GLY:O	41:BG:87:PRO:HD3	2.05	0.57
54:DX:36:LYS:HD3	54:DX:38:GLU:HB2	1.86	0.57
51:DU:92:ARG:CG	51:DU:94:ASN:HB3	2.35	0.57
52:DV:38:LEU:CD2	52:DV:39:LEU:N	2.63	0.57
1:CA:409:G:H2'	1:CA:410:G:O4'	2.04	0.57
4:CD:118:ARG:O	4:CD:121:VAL:HB	2.04	0.57
1:CA:1057:G:H5''	3:CC:154:SER:OG	2.04	0.57
27:D1:66:HIS:C	27:D1:68:PRO:HD2	2.24	0.57
34:D8:38:GLY:C	34:D8:40:GLU:H	2.07	0.57
35:BA:1224:C:O3'	52:BV:88:ARG:HB3	2.05	0.57
35:BA:588:U:O4	35:BA:670:A:O2'	2.21	0.57
20:AT:19:SER:O	20:AT:23:ARG:N	2.35	0.57
20:AT:32:ALA:O	20:AT:36:LEU:HD23	2.04	0.57
49:DS:83:LYS:HE3	49:DS:84:GLN:HG3	1.87	0.57
2:AB:71:VAL:CG2	2:AB:93:VAL:HG23	2.32	0.57
2:CB:187:LEU:CA	2:CB:201:ILE:HB	2.34	0.57
35:DA:836:G:H2'	35:DA:837:C:H6	1.67	0.57
46:DP:50:ARG:CZ	46:DP:51:PHE:CZ	2.88	0.57
1:AA:404:U:H2'	1:AA:405:U:H6	1.68	0.57
4:AD:154:ASN:CB	4:AD:159:ARG:HH21	2.17	0.57
55:DY:16:ALA:HA	55:DY:21:LYS:HD2	1.86	0.57
1:AA:569:C:H42	1:AA:881:G:H1	1.53	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2469:A:H3'	35:BA:2470:G:O4'	2.04	0.57
1:CA:1511:G:H8	1:CA:1511:G:O5'	1.86	0.57
44:DN:78:TYR:CD1	44:DN:79:PRO:HD3	2.39	0.57
25:CY:126:ARG:O	25:CY:127:VAL:C	2.43	0.57
25:CY:6:LEU:O	25:CY:6:LEU:HD22	2.05	0.57
25:AY:60:ALA:HB2	25:AY:66:LEU:HG	1.86	0.57
8:AH:119:LEU:HD12	8:AH:124:ALA:N	2.18	0.57
1:AA:1508:G:H2'	1:AA:1509:C:H6	1.70	0.57
35:DA:540:C:H2'	35:DA:541:C:C5	2.39	0.57
46:BP:112:LEU:O	46:BP:128:HIS:HB2	2.04	0.57
1:CA:625:G:C4	1:CA:626:U:C5	2.92	0.57
11:CK:21:ILE:CB	11:CK:84:VAL:HG12	2.33	0.57
18:CR:87:ARG:CZ	18:CR:87:ARG:HB3	2.34	0.57
1:CA:815:A:N7	1:CA:1509:C:O2'	2.37	0.57
5:CE:103:GLY:O	5:CE:106:PRO:HD2	2.04	0.57
13:CM:77:ASN:O	13:CM:81:LEU:HG	2.05	0.57
19:AS:41:VAL:HB	19:AS:44:MET:CB	2.35	0.57
26:D0:27:GLU:HB2	26:D0:69:PHE:HD1	1.66	0.57
1:AA:341:C:O2'	1:AA:342:C:H5'	2.04	0.57
1:CA:1298:C:H1'	1:CA:1299:A:C2	2.39	0.57
2:CB:39:ILE:CG2	2:CB:40:HIS:N	2.66	0.57
35:DA:45:C:OP2	35:DA:215:G:H2'	2.05	0.57
45:DO:88:ASN:OD1	45:DO:92:GLU:N	2.31	0.57
1:CA:688:G:H5'	11:CK:46:GLY:O	2.03	0.57
1:CA:899:C:H2'	1:CA:900:A:O4'	2.04	0.57
5:AE:15:ARG:HG3	5:AE:28:PHE:CE2	2.39	0.57
35:DA:2455:G:H2'	35:DA:2456:C:C6	2.39	0.57
35:BA:1910:G:C6	35:BA:1921:G:C6	2.93	0.57
35:BA:827:U:H2'	35:BA:2068:U:N3	2.20	0.57
1:CA:83:U:H2'	1:CA:84:U:C6	2.40	0.57
35:BA:2683:C:H5''	50:BT:53:ARG:HH22	1.67	0.57
39:BE:200:GLU:OE2	39:BE:200:GLU:N	2.37	0.57
39:BE:36:ARG:HA	39:BE:46:ALA:O	2.04	0.57
1:AA:1190:G:C8	3:AC:3:ASN:ND2	2.71	0.57
29:B3:31:LEU:CD2	29:B3:32:GLN:H	2.16	0.57
1:AA:972:C:H5'	10:AJ:57:LYS:NZ	2.19	0.57
28:B2:32:LEU:HD11	28:B2:33:MET:SD	2.45	0.57
54:BX:55:ASN:O	54:BX:77:LYS:CB	2.53	0.57
27:B1:76:ARG:HA	27:B1:76:ARG:NE	2.18	0.57
34:B8:11:LYS:HG2	34:B8:11:LYS:O	2.04	0.57
28:D2:14:ARG:O	28:D2:16:LEU:N	2.38	0.57
54:DX:32:PRO:HD3	54:DX:72:LYS:NZ	2.19	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
56:DZ:144:LEU:HD11	56:DZ:150:LEU:HD13	1.87	0.57
49:BS:25:ARG:HH21	49:BS:89:ARG:NH1	1.96	0.57
49:BS:26:LEU:HD22	49:BS:87:PHE:CE1	2.39	0.57
44:BN:74:ARG:NH2	44:BN:101:HIS:O	2.35	0.57
35:BA:618:C:H2'	35:BA:619:G:O4'	2.04	0.57
40:BF:24:LEU:HB3	40:BF:25:PRO:CD	2.35	0.57
46:BP:16:ARG:CD	46:BP:16:ARG:C	2.73	0.57
35:BA:2579:C:C2'	35:BA:2580:U:H5'	2.34	0.57
44:DN:72:TYR:HB3	44:DN:74:ARG:HG2	1.86	0.57
35:DA:1451:C:H4'	35:DA:1452:A:C8	2.39	0.57
48:DR:60:LEU:O	48:DR:61:HIS:C	2.43	0.57
6:CF:30:LEU:HB3	6:CF:35:ALA:CB	2.34	0.57
6:CF:76:ALA:HB1	6:CF:80:ARG:HH21	1.68	0.57
2:CB:55:PHE:CD1	2:CB:58:ILE:HD12	2.40	0.57
35:DA:587:C:C4	46:DP:33:ARG:HD2	2.39	0.57
40:DF:65:TRP:HH2	40:DF:75:HIS:HD2	1.49	0.57
1:AA:409:G:H2'	1:AA:410:G:O4'	2.03	0.57
4:AD:153:ARG:HB3	4:AD:153:ARG:HH11	1.69	0.57
4:AD:176:LEU:HD21	4:AD:178:VAL:HG22	1.84	0.57
16:AP:60:LEU:C	16:AP:62:VAL:H	2.08	0.57
35:DA:514:A:H1'	35:DA:581:C:O2'	2.04	0.57
25:AY:17:SER:HB3	25:AY:132:ILE:HD11	1.87	0.57
35:BA:2019:A:O3'	51:BU:27:LEU:HD12	2.05	0.57
35:BA:692:C:H2'	35:BA:693:C:C6	2.40	0.57
7:AG:143:ARG:HH11	7:AG:143:ARG:CB	2.18	0.57
12:CL:37:CYS:SG	12:CL:81:SER:HB2	2.45	0.57
35:DA:455:C:H3'	35:DA:456:C:H5''	1.86	0.57
40:BF:167:ALA:HB1	40:BF:173:VAL:HG11	1.87	0.57
11:CK:20:TYR:O	11:CK:30:VAL:HA	2.05	0.57
17:CQ:58:GLU:HB2	17:CQ:74:LEU:HB3	1.86	0.57
1:CA:1056:U:H5'	3:CC:163:ALA:CB	2.34	0.57
26:D0:53:MET:HG3	26:D0:59:LEU:HD23	1.86	0.57
35:BA:2802:G:O2'	35:BA:2803:C:C5'	2.52	0.57
11:AK:99:GLN:HE22	11:AK:105:VAL:HG11	1.69	0.57
35:BA:30:G:O2'	35:BA:31:C:H5'	2.05	0.57
35:DA:292:C:N4	35:DA:348:G:H1	2.01	0.57
2:AB:39:ILE:CG2	2:AB:40:HIS:N	2.67	0.57
31:D5:43:HIS:CD2	31:D5:43:HIS:N	2.71	0.57
43:DI:58:LEU:C	43:DI:60:GLU:H	2.08	0.57
35:BA:1108:U:C2'	35:BA:1109:C:H5'	2.34	0.57
35:DA:2881:C:C2	35:DA:2882:A:C8	2.92	0.57
53:DW:1:MET:HA	53:DW:1:MET:HE3	1.84	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:DV:52:VAL:O	52:DV:54:GLY:N	2.37	0.57
1:AA:634:C:O2'	1:AA:635:G:H5'	2.03	0.57
43:BI:75:LEU:HD11	43:BI:105:HIS:HE1	1.70	0.57
34:B8:51:ALA:HA	34:B8:54:GLU:OE1	2.03	0.57
53:BW:37:ARG:HG3	53:BW:37:ARG:HH11	1.69	0.57
38:DD:169:GLU:O	38:DD:171:ASP:N	2.36	0.57
1:AA:1175:G:H2'	1:AA:1176:A:C8	2.40	0.57
35:DA:1695:G:H2'	35:DA:1696:G:O4'	2.05	0.57
1:CA:1222:G:H5''	19:CS:78:ARG:HH11	1.69	0.57
1:CA:1223:C:P	1:CA:1224:G:H2'	2.44	0.57
35:DA:1779:U:C2	35:DA:1783:A:N7	2.72	0.57
50:BT:78:LEU:O	50:BT:79:HIS:ND1	2.37	0.57
50:BT:89:VAL:CG1	50:BT:91:ARG:HE	2.17	0.57
56:BZ:7:ALA:O	56:BZ:38:TYR:O	2.22	0.57
51:BU:106:PHE:O	51:BU:110:VAL:HG23	2.04	0.57
42:DH:149:ARG:HA	42:DH:162:ILE:CD1	2.34	0.57
28:B2:43:GLN:O	28:B2:46:GLN:HB3	2.04	0.57
39:DE:52:LEU:N	39:DE:74:PRO:HB2	2.19	0.57
27:B1:48:LYS:HG3	27:B1:49:VAL:N	2.13	0.57
41:BG:173:LEU:HD12	41:BG:178:PHE:CZ	2.40	0.57
35:BA:2666:C:H2'	35:BA:2667:C:O4'	2.05	0.57
56:DZ:119:GLU:OE1	56:DZ:122:ARG:HB3	2.04	0.57
35:DA:2625:G:H2'	35:DA:2626:C:C6	2.38	0.57
52:DV:4:ILE:HD12	52:DV:40:LEU:HD11	1.86	0.57
47:BQ:20:ALA:CA	47:BQ:98:LYS:HB3	2.34	0.57
25:AY:75:ALA:O	25:AY:79:ILE:HG13	2.03	0.57
27:D1:89:GLU:CD	27:D1:89:GLU:N	2.57	0.57
35:BA:1197:G:H2'	35:BA:1198:U:H6	1.69	0.57
35:BA:2081:C:H2'	35:BA:2082:A:H8	1.68	0.57
46:BP:50:ARG:HD2	46:BP:51:PHE:CG	2.39	0.57
2:AB:187:LEU:CA	2:AB:201:ILE:HB	2.34	0.57
44:DN:26:LEU:HD21	44:DN:30:ILE:HD11	1.84	0.57
4:AD:22:LYS:HB2	4:AD:26:CYS:CB	2.24	0.57
47:DQ:87:LYS:O	47:DQ:88:GLY:O	2.22	0.57
1:CA:1524:C:H5''	11:CK:120:ARG:HH12	1.69	0.57
25:CY:19:GLU:O	25:CY:22:GLU:HB2	2.05	0.57
21:AU:17:THR:O	21:AU:22:ARG:HD3	2.05	0.57
20:CT:48:LYS:O	20:CT:49:ALA:HB2	2.04	0.57
25:AY:28:LEU:O	25:AY:30:THR:HG23	2.03	0.57
25:AY:29:ARG:HB3	25:AY:32:ARG:NH2	2.18	0.57
35:BA:2619:C:OP1	39:BE:152:LYS:HD3	2.04	0.57
35:DA:2748:A:H2	42:DH:63:SER:HB3	1.67	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2753:A:H2	35:DA:2754:U:C2	2.22	0.57
2:CB:171:ALA:O	2:CB:174:VAL:HB	2.05	0.57
7:AG:84:ASN:ND2	7:AG:84:ASN:N	2.53	0.57
23:AW:39:A:C2'	23:AW:40:C:H5'	2.35	0.57
46:DP:16:ARG:CD	46:DP:16:ARG:C	2.73	0.57
35:BA:2600:A:C2'	35:BA:2601:C:H5'	2.33	0.57
46:DP:91:PHE:N	46:DP:91:PHE:CD1	2.72	0.57
9:CI:5:TYR:HA	9:CI:17:VAL:O	2.05	0.57
35:DA:464:U:H2'	35:DA:465:G:O4'	2.03	0.57
35:DA:549:G:H2'	35:DA:551:G:O4'	2.05	0.57
38:BD:134:ARG:HB2	38:BD:135:PHE:CD1	2.40	0.57
38:DD:108:PRO:HG2	38:DD:111:LEU:HB2	1.86	0.57
1:CA:708:C:O2'	1:CA:709:G:H5'	2.05	0.57
42:BH:138:LYS:H	42:BH:141:VAL:HG23	1.69	0.57
20:CT:16:HIS:O	20:CT:19:SER:HB2	2.04	0.57
19:CS:49:ILE:O	19:CS:60:VAL:HG12	2.04	0.57
37:BC:68:LEU:HB3	37:BC:70:LYS:HG2	1.86	0.57
35:BA:1292:U:H2'	35:BA:1293:C:C6	2.40	0.57
2:AB:137:ARG:HG2	2:AB:137:ARG:NH1	2.20	0.57
1:CA:644:G:O2'	1:CA:645:C:H5'	2.04	0.57
1:AA:178:C:H2'	1:AA:179:A:H8	1.69	0.57
53:DW:5:ALA:HB3	53:DW:105:VAL:H	1.68	0.57
4:CD:193:ASP:HB2	4:CD:194:LEU:HD22	1.85	0.57
35:BA:2839:G:H21	48:BR:92:GLY:HA3	1.70	0.57
23:AW:51:U:H3	23:AW:65:G:H1	1.51	0.57
4:CD:133:VAL:HG12	4:CD:135:LEU:H	1.69	0.57
1:CA:176:C:H2'	1:CA:177:C:H6	1.68	0.57
35:DA:2828:C:H2'	35:DA:2829:C:C6	2.39	0.57
1:CA:272:C:O2'	1:CA:273:A:H5'	2.04	0.57
6:CF:78:GLU:O	6:CF:81:ILE:HG13	2.05	0.57
35:BA:1009:A:H2'	35:BA:1010:A:C8	2.39	0.57
15:AO:6:GLU:CD	15:AO:6:GLU:H	2.08	0.57
35:DA:1623:G:H2'	35:DA:1624:G:H8	1.70	0.57
35:BA:2380:C:H2'	35:BA:2381:C:C6	2.40	0.57
35:DA:325:G:H2'	35:DA:326:G:H8	1.68	0.57
50:DT:85:LYS:HG2	50:DT:85:LYS:O	2.05	0.57
35:BA:773:U:H4'	38:BD:47:GLY:HA2	1.87	0.57
35:BA:1820:U:C2	38:BD:202:LYS:HB3	2.40	0.57
38:BD:81:ALA:N	38:BD:94:LEU:HD11	2.20	0.57
35:DA:1819:A:H1'	35:DA:1821:A:C6	2.40	0.57
38:DD:259:THR:O	38:DD:260:ARG:C	2.42	0.57
35:BA:1999:C:H2'	35:BA:2000:G:C8	2.38	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
47:BQ:32:TYR:HD1	47:BQ:32:TYR:H	1.51	0.57
56:BZ:48:PHE:CE2	56:BZ:52:SER:HA	2.39	0.57
56:BZ:81:ARG:O	56:BZ:82:ARG:C	2.42	0.57
35:DA:2512:C:H4'	39:DE:122:PHE:CZ	2.40	0.57
1:AA:974:A:C1'	14:AN:31:ARG:HH21	2.17	0.57
35:BA:141:A:H8	35:BA:1408:C:HO2'	1.50	0.57
54:BX:35:THR:O	54:BX:39:ILE:HG23	2.05	0.57
27:B1:47:GLN:HE21	27:B1:64:ALA:CB	2.18	0.57
41:BG:138:GLN:CG	41:BG:153:ARG:H	2.17	0.57
41:BG:174:GLU:HG3	41:BG:182:LYS:NZ	2.19	0.57
28:D2:12:GLU:O	28:D2:12:GLU:OE1	2.23	0.57
54:DX:83:VAL:O	54:DX:85:PRO:HD3	2.05	0.57
42:BH:159:GLU:OE1	42:BH:159:GLU:HA	2.05	0.57
10:AJ:4:ILE:HB	10:AJ:74:ILE:CG1	2.34	0.57
36:BB:55:U:O2'	36:BB:56:G:H5'	2.05	0.57
4:CD:33:MET:HA	4:CD:33:MET:CE	2.34	0.57
3:CC:138:VAL:CG2	3:CC:151:VAL:HG23	2.35	0.57
46:BP:70:GLN:CG	46:BP:71:VAL:H	2.16	0.57
40:BF:88:VAL:CG2	40:BF:89:VAL:N	2.67	0.57
46:BP:39:LYS:CD	46:BP:40:SER:N	2.61	0.57
40:DF:41:LEU:HD23	40:DF:44:ARG:HD3	1.87	0.57
48:DR:28:LEU:C	48:DR:30:THR:H	2.08	0.57
6:CF:87:ARG:HG3	6:CF:87:ARG:HH11	1.69	0.57
46:DP:148:LEU:HD13	46:DP:148:LEU:H	1.70	0.57
43:BI:10:GLU:O	43:BI:11:ASN:HB3	2.04	0.57
25:AY:21:LEU:O	25:AY:25:LEU:HG	2.05	0.57
33:B7:30:VAL:HG23	33:B7:31:LEU:N	2.20	0.57
43:BI:102:SER:HA	43:BI:107:VAL:O	2.04	0.57
55:BY:68:HIS:HB3	55:BY:71:LYS:CE	2.34	0.57
1:AA:959:A:H2'	1:AA:960:U:H4'	1.87	0.57
35:DA:619:G:P	35:DA:620:G:H22	2.26	0.57
1:AA:924:C:H2'	1:AA:925:G:C8	2.38	0.57
12:AL:119:LYS:O	12:AL:120:TYR:HB2	2.05	0.57
35:BA:2744:G:O2'	35:BA:2745:C:H5'	2.05	0.57
9:CI:26:VAL:HG13	9:CI:63:ILE:HD11	1.86	0.57
46:DP:83:VAL:HG23	46:DP:105:LEU:HD22	1.87	0.57
46:DP:112:LEU:O	46:DP:128:HIS:HB2	2.05	0.57
46:BP:99:LEU:O	46:BP:102:ARG:HB3	2.04	0.57
35:BA:709:U:H2'	35:BA:710:G:C8	2.37	0.57
35:DA:1006:C:H2'	35:DA:1007:C:C6	2.40	0.57
35:DA:2589:A:H2'	35:DA:2590:A:H8	1.69	0.57
45:DO:22:ILE:H	45:DO:41:ALA:HA	1.70	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:962:G:O2'	35:DA:963:U:H5'	2.04	0.57
35:BA:1234:U:H2'	35:BA:1234:U:O2	2.04	0.57
32:B6:39:TYR:CE1	35:BA:2347:C:H4'	2.35	0.57
35:BA:1399:C:H2'	35:BA:1400:G:H8	1.68	0.57
35:BA:1528(A):A:H2'	35:BA:1529:G:H5''	1.85	0.57
1:CA:280:C:O2	17:CQ:38:ARG:HG3	2.04	0.57
26:B0:27:GLU:HB2	26:B0:69:PHE:HD1	1.70	0.57
3:AC:127:ARG:HG2	3:AC:127:ARG:NH1	2.20	0.57
7:AG:36:LYS:HB2	7:AG:36:LYS:HZ2	1.69	0.57
38:BD:125:ILE:O	38:BD:125:ILE:HG22	2.04	0.57
35:DA:1523:U:H2'	35:DA:1524:G:C8	2.39	0.57
40:BF:22:ALA:CA	40:BF:26:ALA:HB2	2.35	0.57
37:BC:55:ASP:CG	37:BC:56:GLN:H	2.08	0.57
38:DD:204:ILE:O	38:DD:204:ILE:HG13	2.05	0.57
35:DA:1993:U:O2'	35:DA:1994:C:H5'	2.05	0.57
35:DA:1998:G:H2'	35:DA:1999:C:H6	1.70	0.57
35:DA:2685:G:C2	35:DA:2686:G:N7	2.73	0.57
45:DO:79:PHE:CE2	45:DO:101:PRO:HB2	2.31	0.57
38:BD:19:ALA:O	38:BD:21:PHE:CE1	2.58	0.57
35:DA:1902:C:C5'	38:DD:246:PRO:HD3	2.34	0.57
41:DG:38:VAL:HB	41:DG:158:ALA:CB	2.35	0.57
32:B6:30:THR:HG21	35:BA:2286:A:OP1	2.04	0.57
45:BO:89:ASN:C	45:BO:91:LEU:H	2.07	0.57
56:BZ:10:ARG:NE	56:BZ:36:LYS:HB3	2.19	0.57
35:BA:996:A:H2'	35:BA:997:G:H8	1.69	0.57
51:BU:106:PHE:CA	51:BU:109:LEU:HD12	2.30	0.57
51:BU:92:ARG:HH22	52:BV:10:LYS:HA	1.70	0.57
10:AJ:62:HIS:O	14:AN:59:ALA:HB3	2.04	0.57
28:B2:23:LYS:CA	54:BX:5:TYR:HE1	2.17	0.57
27:B1:13:ILE:HG23	27:B1:14:VAL:H	1.70	0.57
42:BH:96:ALA:HB2	42:BH:105:LEU:HB3	1.86	0.57
56:DZ:10:ARG:HG3	56:DZ:38:TYR:N	2.20	0.57
56:DZ:104:PHE:CD1	56:DZ:139:VAL:HG11	2.40	0.57
56:DZ:23:LYS:HD2	56:DZ:38:TYR:HD1	1.70	0.57
35:DA:559:G:H22	51:DU:49:HIS:CD2	2.23	0.57
51:DU:55:ARG:HA	51:DU:58:ARG:HD2	1.87	0.57
52:DV:38:LEU:O	52:DV:39:LEU:HD22	2.05	0.57
1:CA:1190:G:C8	3:CC:3:ASN:ND2	2.70	0.57
4:CD:170:VAL:HG13	4:CD:171:GLY:N	2.18	0.57
40:DF:20:LEU:HB3	40:DF:23:ASP:OD2	2.04	0.57
35:DA:1275:A:C4	48:DR:16:HIS:CE1	2.92	0.57
50:BT:102:ILE:CA	50:BT:110:ILE:HD11	2.35	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:CB:71:VAL:O	2:CB:164:VAL:HA	2.05	0.57
35:DA:793:A:OP2	35:DA:2071:A:O2'	2.20	0.57
1:AA:1491:G:H5''	1:AA:1492:A:OP1	2.04	0.57
55:DY:68:HIS:ND1	55:DY:69:ALA:N	2.52	0.57
4:AD:8:VAL:O	4:AD:10:ARG:HB3	2.05	0.57
6:AF:68:PRO:CG	6:AF:71:ARG:HE	2.18	0.57
25:CY:17:SER:O	25:CY:20:VAL:HB	2.05	0.57
1:CA:1268:A:H4'	21:CU:20:LYS:N	2.19	0.57
1:CA:1444:C:N4	1:CA:1458:G:H1	2.03	0.57
1:CA:582:U:H2'	1:CA:583:A:C8	2.40	0.57
2:CB:97:TRP:NE1	2:CB:101:MET:SD	2.78	0.57
1:AA:637:G:H2'	1:AA:638:G:H8	1.69	0.57
8:AH:97:VAL:HG13	8:AH:98:LYS:N	2.14	0.57
1:AA:1507:A:N1	1:AA:1530:G:C4	2.72	0.57
31:D5:52:TYR:HA	31:D5:56:LYS:HZ2	1.69	0.57
18:CR:58:LEU:CD1	18:CR:58:LEU:H	2.10	0.57
42:BH:38:SER:O	42:BH:40:GLU:N	2.38	0.57
31:D5:20:ARG:HH12	53:DW:15:ARG:HH21	1.53	0.57
6:CF:45:LEU:O	6:CF:46:ARG:HD2	2.04	0.57
35:BA:445:C:O3'	51:BU:3:ARG:HG2	2.05	0.57
35:BA:149:A:H2'	35:BA:150:C:O4'	2.05	0.57
13:AM:58:GLU:OE1	13:AM:58:GLU:HA	2.04	0.57
26:B0:43:THR:HB	26:B0:57:PHE:CE1	2.40	0.57
15:AO:70:LEU:HD23	15:AO:78:TYR:HA	1.87	0.57
54:DX:12:VAL:CG1	54:DX:27:THR:HG23	2.34	0.57
35:DA:1291:C:O2'	35:DA:1292:U:H5'	2.03	0.57
1:AA:1388:C:H2'	1:AA:1389:C:H6	1.69	0.57
7:AG:36:LYS:NZ	7:AG:36:LYS:HB2	2.19	0.57
38:BD:70:TRP:CH2	38:BD:150:LYS:HA	2.39	0.57
7:AG:42:ILE:HG23	7:AG:117:ALA:HB2	1.86	0.57
35:DA:1763:G:OP1	35:DA:1763:G:H4'	2.04	0.57
23:AW:6:G:H1	23:AW:68:C:H42	1.52	0.57
35:DA:2182:G:H2'	35:DA:2183:C:C6	2.40	0.57
35:BA:845:G:O2'	35:BA:846:C:H5	1.88	0.57
1:CA:1014:A:H2'	1:CA:1015:A:C8	2.40	0.57
50:DT:58:ASN:N	50:DT:58:ASN:HD22	2.01	0.57
23:CW:29:C:O2'	23:CW:30:G:H5'	2.05	0.57
1:CA:962:C:H2'	1:CA:963:G:C8	2.38	0.57
14:CN:40:CYS:SG	14:CN:43:CYS:N	2.72	0.57
35:BA:782:A:C2	38:BD:226:MET:CG	2.80	0.57
38:DD:268:ARG:HH12	38:DD:269:PHE:HE1	1.51	0.57
50:BT:92:GLY:C	50:BT:94:ALA:N	2.56	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
56:BZ:125:LEU:O	56:BZ:126:VAL:HG13	2.05	0.57
56:BZ:136:PHE:HD1	56:BZ:136:PHE:C	2.07	0.57
35:BA:875:G:O2'	56:BZ:151:HIS:NE2	2.33	0.57
56:BZ:167:PRO:O	56:BZ:168:GLU:HB2	2.05	0.57
35:BA:2809:A:O2'	35:BA:2810:A:H5'	2.04	0.57
39:BE:199:ARG:HG3	39:BE:199:ARG:HH11	1.68	0.57
51:BU:95:LEU:HD12	52:BV:11:GLN:HG3	1.87	0.57
35:BA:61:G:O2'	35:BA:62:C:H5'	2.04	0.57
54:BX:39:ILE:HD12	54:BX:39:ILE:C	2.25	0.57
54:BX:60:ARG:HG3	54:BX:71:GLY:HA3	1.86	0.57
27:B1:76:ARG:O	27:B1:77:ALA:CB	2.52	0.57
35:DA:2626:C:H2'	35:DA:2627:G:H8	1.70	0.57
44:DN:10:GLU:HG3	44:DN:11:PRO:HD2	1.87	0.57
35:DA:1151:G:H5''	51:DU:81:HIS:CE1	2.40	0.57
10:AJ:6:ILE:O	10:AJ:6:ILE:HD12	2.04	0.57
49:BS:49:VAL:HG21	49:BS:77:ALA:HB2	1.86	0.57
49:BS:92:TYR:HD1	49:BS:93:LYS:N	2.03	0.57
35:BA:2574:G:H2'	35:BA:2575:C:H6	1.70	0.57
34:D8:30:ARG:O	34:D8:30:ARG:HG3	2.04	0.57
35:BA:568:U:H2'	35:BA:570:G:OP2	2.05	0.57
35:BA:809:G:O4'	35:BA:1254:A:H1'	2.05	0.57
40:DF:3:GLU:CG	40:DF:19:GLU:HB2	2.34	0.57
35:BA:2277:G:OP1	47:BQ:85:LYS:HB3	2.04	0.57
48:DR:37:THR:HG23	48:DR:40:LYS:HE2	1.87	0.57
3:AC:113:ALA:HB3	3:AC:114:PRO:HD3	1.86	0.57
20:AT:76:ALA:O	20:AT:80:ARG:HG2	2.05	0.57
48:BR:41:ALA:O	48:BR:43:GLU:N	2.37	0.57
49:DS:82:ILE:O	49:DS:83:LYS:HB2	2.04	0.57
2:CB:219:VAL:C	2:CB:222:ILE:HG22	2.25	0.57
2:CB:80:ILE:HG13	2:CB:81:VAL:N	2.20	0.57
35:DA:586:A:H2	35:DA:809:G:N3	2.03	0.57
46:DP:45:LEU:HD23	46:DP:46:LYS:N	2.18	0.57
35:BA:1884:A:H2'	35:BA:1885:A:C5'	2.21	0.57
43:DI:72:LEU:O	43:DI:138:ILE:HG12	2.05	0.57
25:CY:170:ALA:O	25:CY:171:LYS:C	2.43	0.57
21:CU:17:THR:O	21:CU:22:ARG:HD3	2.05	0.57
55:BY:11:ASP:N	55:BY:27:VAL:HG22	2.20	0.57
1:CA:1073:U:O2	2:CB:104:ASN:ND2	2.38	0.57
11:AK:28:THR:HG22	11:AK:29:ILE:N	2.20	0.57
43:DI:10:GLU:O	43:DI:11:ASN:HB3	2.04	0.57
9:CI:79:LEU:CD2	9:CI:102:LEU:HA	2.33	0.57
1:AA:511:C:HO2'	1:AA:512:U:H6	1.52	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:AI:26:VAL:HG13	9:AI:63:ILE:CD1	2.35	0.57
31:D5:44:THR:CG2	31:D5:45:VAL:H	2.11	0.57
31:D5:31:VAL:HB	31:D5:32:PRO:CD	2.32	0.57
31:D5:20:ARG:O	31:D5:21:SER:C	2.42	0.57
11:CK:109:VAL:HG22	18:CR:86:VAL:HA	1.86	0.57
11:CK:110:ASP:O	18:CR:84:LYS:HD2	2.05	0.57
35:BA:2732:G:H3'	35:BA:2733:A:H5'	1.86	0.57
2:AB:171:ALA:O	2:AB:174:VAL:HB	2.05	0.57
5:AE:80:ILE:HG13	5:AE:91:LEU:HB2	1.87	0.57
35:BA:1114:G:C2'	35:BA:1115:G:H5''	2.33	0.57
38:BD:142:VAL:HG23	38:BD:193:VAL:N	2.19	0.57
11:AK:96:ARG:CA	11:AK:99:GLN:HG2	2.33	0.57
35:DA:2802:G:O2'	35:DA:2803:C:C5'	2.52	0.57
1:CA:1281:U:H5'	1:CA:1282:C:C5	2.40	0.57
38:DD:231:HIS:ND1	38:DD:232:PRO:CD	2.66	0.57
35:DA:1528(A):A:H2'	35:DA:1529:G:H5''	1.87	0.57
1:AA:227:G:H2'	1:AA:228:A:C8	2.40	0.57
1:CA:341:C:O2'	1:CA:342:C:H5'	2.05	0.57
35:DA:1876:A:H2'	35:DA:1877:A:H8	1.70	0.57
39:DE:38:THR:HG23	39:DE:39:PRO:HD2	1.86	0.57
35:DA:1399:C:H2'	35:DA:1400:G:H8	1.68	0.57
7:CG:143:ARG:O	7:CG:147:ALA:HB2	2.05	0.57
1:AA:355:C:C4	1:AA:356:A:N7	2.73	0.57
1:CA:441:A:H3'	1:CA:442:C:C6	2.40	0.57
35:BA:695:G:N2	35:BA:696:G:H1'	2.19	0.57
1:AA:927:G:H2'	1:AA:928:G:H8	1.70	0.57
35:BA:1385:G:H4'	35:BA:1386:C:OP1	2.05	0.57
1:CA:1018:C:H2'	1:CA:1019:C:C6	2.40	0.57
35:BA:455:C:H3'	35:BA:456:C:H5''	1.87	0.57
1:AA:83:U:H2'	1:AA:84:U:C6	2.40	0.57
35:DA:1380:G:C2	35:DA:1381:G:C8	2.93	0.57
2:AB:121:LEU:HD23	2:AB:121:LEU:O	2.04	0.57
38:BD:25:THR:HG21	38:BD:82:ILE:N	2.19	0.57
35:BA:1568:G:H4'	38:BD:59:LYS:CG	2.35	0.57
32:B6:12:GLU:HB3	32:B6:23:THR:HG22	1.86	0.57
34:B8:39:LYS:HG2	34:B8:42:ARG:HH11	1.68	0.57
50:BT:27:THR:O	50:BT:28:VAL:CB	2.52	0.57
50:BT:85:LYS:O	50:BT:85:LYS:HG2	2.04	0.57
56:BZ:56:VAL:HA	56:BZ:70:LEU:HG	1.85	0.57
39:DE:51:PHE:H	39:DE:74:PRO:CB	2.18	0.57
2:AB:238:LEU:O	2:AB:239:VAL:C	2.44	0.57
55:DY:77:PRO:O	55:DY:78:ALA:HB2	2.04	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1202:G:H2'	1:AA:1203:C:C5'	2.33	0.57
4:CD:100:ARG:CZ	4:CD:137:SER:HA	2.34	0.57
43:DI:92:VAL:HG22	43:DI:92:VAL:O	2.04	0.57
40:BF:3:GLU:CG	40:BF:19:GLU:HB2	2.35	0.57
27:B1:38:SER:C	27:B1:39:LYS:HD3	2.26	0.57
35:BA:674:G:H1'	40:BF:74:ARG:HG3	1.87	0.57
35:DA:1653:G:O2'	35:DA:1654:A:OP2	2.21	0.57
39:DE:115:GLY:HA2	39:DE:157:ALA:HB1	1.86	0.57
48:DR:41:ALA:O	48:DR:44:LEU:N	2.38	0.57
48:DR:42:LYS:HG3	48:DR:45:ARG:NH2	2.20	0.57
20:AT:14:LYS:HA	20:AT:17:ARG:HE	1.70	0.57
35:BA:1754:C:OP1	50:BT:96:ARG:NH1	2.36	0.57
48:BR:38:VAL:HB	48:BR:39:PRO:CD	2.30	0.57
50:BT:102:ILE:HG12	50:BT:103:ARG:N	2.20	0.57
2:CB:212:GLN:HG3	2:CB:235:SER:HB2	1.86	0.57
2:AB:178:ARG:NH2	8:AH:74:PRO:HG3	2.20	0.57
1:CA:673:G:H2'	1:CA:674:G:H8	1.68	0.57
15:CO:33:THR:HG23	15:CO:63:ARG:NH1	2.20	0.57
2:CB:166:ASP:HB2	2:CB:205:ASP:OD2	2.04	0.57
2:CB:167:PRO:HG2	2:CB:192:SER:OG	2.04	0.57
2:CB:200:ILE:O	2:CB:201:ILE:HD13	2.04	0.57
51:DU:44:ASN:O	51:DU:47:TYR:HB3	2.04	0.57
35:DA:1240:U:O2'	35:DA:1241:A:H5'	2.04	0.57
35:DA:1242:A:N1	46:DP:8:PRO:HG3	2.19	0.57
4:AD:62:GLN:HB3	4:AD:66:ARG:NH2	2.19	0.57
47:DQ:69:PHE:CD1	47:DQ:70:PRO:HD2	2.40	0.57
6:AF:58:GLY:O	6:AF:60:PHE:HD1	1.88	0.57
46:BP:7:ARG:HB3	46:BP:8:PRO:CD	2.32	0.57
1:CA:989:C:N4	1:CA:1216:G:H1	2.01	0.57
12:CL:6:THR:HG22	12:CL:9:GLN:CG	2.29	0.57
7:CG:75:VAL:HA	7:CG:88:PRO:HA	1.85	0.57
8:CH:96:GLY:O	8:CH:98:LYS:N	2.38	0.57
5:AE:35:GLY:HA2	5:AE:41:VAL:HG12	1.85	0.57
1:AA:1396:A:C4'	1:AA:1398:A:H1'	2.35	0.57
39:DE:14:ILE:HB	50:DT:14:TYR:CE2	2.39	0.57
1:AA:1459:C:O2'	1:AA:1460:A:H5'	2.05	0.57
35:BA:375:C:H2'	35:BA:376:C:C6	2.40	0.57
17:CQ:67:LYS:CA	17:CQ:70:ARG:HH12	2.18	0.57
35:BA:1041:C:H5'	35:BA:1042:G:OP2	2.03	0.57
38:BD:155:LEU:O	38:BD:156:ALA:C	2.42	0.57
53:DW:74:ALA:C	53:DW:75:TYR:CD1	2.78	0.57
38:BD:142:VAL:HG23	38:BD:192:THR:C	2.25	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AC:83:ARG:C	3:AC:87:LEU:HG	2.26	0.57
36:BB:78:A:C2	36:BB:100:A:C4	2.93	0.57
54:BX:12:VAL:HG13	54:BX:17:ALA:CB	2.34	0.57
1:AA:1305:G:H5'	21:AU:4:GLY:CA	2.35	0.57
35:DA:1707:G:H2'	35:DA:1708:C:H6	1.69	0.57
6:AF:52:ILE:O	6:AF:86:ARG:NH1	2.38	0.57
1:CA:148:G:H2'	1:CA:149:A:C8	2.37	0.57
45:DO:89:ASN:C	45:DO:91:LEU:H	2.07	0.57
46:DP:122:PRO:CG	46:DP:141:ALA:HB3	2.34	0.57
1:CA:1294:G:H2'	1:CA:1295:G:C8	2.39	0.57
1:CA:1283:G:O2'	1:CA:1284:C:H5'	2.04	0.57
10:CJ:23:ILE:HG22	10:CJ:23:ILE:O	2.05	0.57
38:DD:201:HIS:O	38:DD:203:ASN:N	2.37	0.57
35:DA:2650:U:O2'	35:DA:2651:C:H5'	2.05	0.57
46:BP:138:LEU:CD2	46:BP:142:GLY:HA3	2.34	0.57
3:AC:206:GLU:O	3:AC:208:ILE:N	2.37	0.57
5:AE:10:MET:O	5:AE:10:MET:HG2	2.05	0.57
54:BX:28:PHE:N	54:BX:28:PHE:CD1	2.73	0.57
35:BA:2182:G:H2'	35:BA:2183:C:C6	2.40	0.57
35:DA:2680:C:H5'	39:DE:189:PRO:HA	1.87	0.56
50:DT:35:LYS:HE2	50:DT:41:ARG:HG3	1.87	0.56
50:DT:77:PRO:O	50:DT:78:LEU:HB3	2.06	0.56
43:BI:84:GLY:O	43:BI:85:GLU:HB2	2.05	0.56
1:CA:949:A:H2'	1:CA:950:U:O4'	2.04	0.56
38:BD:65:ILE:HD12	38:BD:65:ILE:O	2.05	0.56
35:DA:2086:U:OP1	38:DD:262:ARG:HG2	2.05	0.56
45:BO:14:THR:HG22	45:BO:52:VAL:HG21	1.85	0.56
44:BN:40:PRO:HG3	51:BU:68:ALA:HB2	1.87	0.56
42:DH:150:ALA:O	42:DH:152:ARG:N	2.37	0.56
42:DH:89:ILE:H	42:DH:89:ILE:HD13	1.69	0.56
1:AA:962:C:H2'	1:AA:963:G:C8	2.39	0.56
54:BX:72:LYS:HE3	54:BX:74:PRO:CB	2.27	0.56
41:BG:60:LEU:HD13	41:BG:61:ALA:N	2.20	0.56
54:DX:77:LYS:CD	54:DX:78:LYS:HG3	2.35	0.56
56:DZ:24:LEU:HD12	56:DZ:25:PRO:N	2.20	0.56
35:DA:534:U:O3'	51:DU:46:ALA:HB2	2.05	0.56
51:DU:92:ARG:HH22	52:DV:10:LYS:HA	1.69	0.56
52:DV:19:LYS:HG3	52:DV:20:LEU:H	1.68	0.56
52:DV:40:LEU:O	52:DV:41:GLY:C	2.42	0.56
3:CC:47:LEU:HD21	3:CC:52:LEU:HD13	1.87	0.56
19:CS:14:HIS:CD2	19:CS:15:LEU:HD22	2.40	0.56
36:BB:7:G:H4'	49:BS:29:PHE:HD2	1.70	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
49:BS:85:VAL:HG23	49:BS:106:ARG:HB2	1.87	0.56
40:DF:192:LEU:HD21	40:DF:194:MET:HE2	1.87	0.56
50:BT:109:GLU:O	50:BT:112:ARG:HG3	2.04	0.56
43:BI:72:LEU:CD1	43:BI:138:ILE:HD11	2.23	0.56
27:D1:34:THR:HG21	35:DA:388:G:P	2.45	0.56
47:BQ:109:VAL:HG13	47:BQ:113:GLN:OE1	2.05	0.56
44:BN:23:LEU:HB3	44:BN:60:ILE:HG21	1.87	0.56
1:CA:735:C:H2'	1:CA:736:C:C6	2.36	0.56
6:CF:29:ALA:HB1	6:CF:79:LEU:CD2	2.35	0.56
18:CR:22:VAL:HA	18:CR:25:THR:HG1	1.70	0.56
18:CR:44:LEU:HA	18:CR:49:LYS:O	2.05	0.56
40:DF:71:GLY:O	40:DF:72:ARG:C	2.42	0.56
1:CA:802:A:H2'	1:CA:803:G:C5'	2.34	0.56
43:BI:8:PRO:HD3	43:BI:15:VAL:CG1	2.35	0.56
16:AP:73:LEU:O	16:AP:77:ALA:HB2	2.04	0.56
25:AY:130:ARG:CG	25:AY:130:ARG:HH11	2.17	0.56
7:CG:26:PHE:HB2	7:CG:62:PHE:CZ	2.39	0.56
44:BN:78:TYR:N	44:BN:79:PRO:CD	2.68	0.56
35:BA:768:G:H2'	35:BA:769:G:H8	1.70	0.56
18:AR:56:THR:OG1	18:AR:57:GLY:N	2.38	0.56
9:CI:17:VAL:CG2	9:CI:81:ILE:HD13	2.34	0.56
46:BP:80:TYR:CD1	46:BP:111:ARG:HB3	2.41	0.56
35:BA:1772:G:N2	35:BA:1979:C:O2	2.35	0.56
39:DE:103:ASP:OD1	39:DE:168:MET:HG2	2.05	0.56
8:AH:82:HIS:CD2	8:AH:138:TRP:NE1	2.69	0.56
8:AH:104:ARG:O	8:AH:107:LEU:HB3	2.05	0.56
35:BA:176:G:C2'	35:BA:177:G:H5'	2.34	0.56
13:CM:68:GLY:O	13:CM:69:GLU:HB2	2.04	0.56
25:AY:74:ASN:O	25:AY:77:LYS:HB2	2.05	0.56
35:DA:1427:A:H4'	35:DA:1428:C:O5'	2.03	0.56
1:CA:1478:C:H2'	1:CA:1479:C:H6	1.68	0.56
3:AC:76:VAL:HG23	3:AC:77:ILE:N	2.20	0.56
35:BA:1642:G:H2'	35:BA:1643:G:C8	2.40	0.56
35:DA:1935:G:H1'	35:DA:1964:G:N2	2.20	0.56
35:BA:363(A):A:H2'	35:BA:363(A):A:N3	2.19	0.56
1:CA:622:A:C8	1:CA:623:C:C5	2.92	0.56
1:CA:1261:A:H62	1:CA:1274:G:H21	1.53	0.56
57:DC:55:ASP:CG	57:DC:56:GLN:H	2.09	0.56
35:DA:1002:G:H2'	35:DA:1003:G:O4'	2.05	0.56
11:CK:49:GLY:O	11:CK:50:TYR:HD2	1.88	0.56
3:AC:66:VAL:O	3:AC:66:VAL:HG12	2.04	0.56
3:CC:113:ALA:HB3	3:CC:114:PRO:HD3	1.87	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:CB:63:MET:HB3	2:CB:225:ALA:HB1	1.86	0.56
43:BI:83:ALA:HA	43:BI:89:TYR:CD1	2.39	0.56
1:CA:1223:C:P	19:CS:78:ARG:HH22	2.28	0.56
10:CJ:48:THR:HG23	10:CJ:61:GLU:C	2.26	0.56
35:BA:1826:G:H4'	38:BD:242:ARG:NH2	2.19	0.56
36:DB:41:U:C4	41:DG:70:VAL:O	2.58	0.56
10:CJ:6:ILE:O	10:CJ:71:LEU:HD12	2.04	0.56
47:BQ:141:GLN:HA	56:BZ:71:VAL:O	2.05	0.56
52:BV:61:VAL:HG23	52:BV:100:ARG:N	2.20	0.56
35:DA:2666:C:H2'	35:DA:2667:C:O4'	2.05	0.56
41:BG:76:SER:HA	41:BG:83:ARG:HA	1.86	0.56
34:D8:35:GLN:HE21	34:D8:36:LYS:NZ	2.02	0.56
51:DU:91:ASP:O	51:DU:92:ARG:O	2.23	0.56
51:DU:99:ALA:HB2	51:DU:106:PHE:CD1	2.40	0.56
35:DA:1857:G:O2'	35:DA:1885:A:N6	2.39	0.56
1:CA:501:C:H2'	1:CA:502:G:H8	1.69	0.56
4:CD:116:GLN:NE2	4:CD:157:LEU:HD21	2.18	0.56
35:BA:669:G:N3	35:BA:669:G:H2'	2.19	0.56
43:BI:130:TYR:CB	43:BI:136:VAL:HG13	2.35	0.56
2:AB:50:GLU:OE1	2:AB:200:ILE:HB	2.05	0.56
15:CO:53:HIS:CE1	15:CO:57:LEU:HD21	2.40	0.56
34:D8:56:GLU:C	34:D8:58:ILE:N	2.57	0.56
34:D8:59:LYS:C	34:D8:61:LEU:N	2.45	0.56
1:AA:1321:C:H5''	1:AA:1322:C:H2'	1.86	0.56
4:AD:30:LYS:HB3	4:AD:35:ARG:HH11	1.70	0.56
35:DA:1131:G:N3	35:DA:1132:A:C8	2.74	0.56
35:DA:532:A:H2'	35:DA:532:A:N3	2.19	0.56
44:DN:78:TYR:N	44:DN:79:PRO:CD	2.69	0.56
13:CM:84:ILE:HG22	13:CM:84:ILE:O	2.05	0.56
25:AY:25:LEU:O	25:AY:28:LEU:HB2	2.05	0.56
11:CK:28:THR:HG22	11:CK:29:ILE:N	2.19	0.56
18:AR:86:VAL:HG12	18:AR:87:ARG:NH1	2.20	0.56
1:CA:637:G:H2'	1:CA:638:G:H8	1.70	0.56
1:AA:690:G:H2'	1:AA:691:G:O4'	2.05	0.56
35:DA:236:C:O2'	35:DA:237:C:H5'	2.06	0.56
8:AH:83:ILE:CB	8:AH:137:VAL:HG13	2.34	0.56
5:AE:12:LEU:CD1	5:AE:31:LEU:HB3	2.35	0.56
1:AA:826:C:H2'	1:AA:827:U:C6	2.40	0.56
8:AH:112:LEU:C	8:AH:112:LEU:HD12	2.25	0.56
23:AW:27:G:H2'	23:AW:28:U:H6	1.69	0.56
35:BA:1930:G:H22	35:BA:1968:G:C2'	2.16	0.56
39:BE:103:ASP:OD2	39:BE:202:LYS:HE2	2.05	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
55:BY:7:VAL:CG2	55:BY:8:LYS:HD2	2.35	0.56
35:DA:1274:A:N3	35:DA:1297:C:H1'	2.20	0.56
1:AA:35:G:H2'	1:AA:36:C:C6	2.40	0.56
35:BA:2187:G:O2'	35:BA:2188:C:H5'	2.06	0.56
35:BA:2801(A):A:H5'	35:BA:2802:G:C8	2.40	0.56
53:DW:75:TYR:HE1	53:DW:104:THR:HB	1.70	0.56
35:BA:1298:C:H3'	35:BA:1299:G:H8	1.69	0.56
35:DA:1710:C:H2'	35:DA:1711:C:C6	2.40	0.56
1:AA:1097:C:O2'	1:AA:1098:C:H5'	2.05	0.56
35:DA:916:G:C2'	35:DA:917:A:H5''	2.36	0.56
35:BA:1528(A):A:C2'	35:BA:1529:G:H5''	2.35	0.56
35:DA:1528:A:H2'	35:DA:1528:A:N3	2.19	0.56
1:CA:893:C:H2'	1:CA:894:G:C8	2.40	0.56
35:DA:2339:G:H2'	35:DA:2340:G:H8	1.70	0.56
44:DN:128:HIS:O	44:DN:130:HIS:N	2.38	0.56
35:BA:1405:U:H2'	35:BA:1406:U:H6	1.68	0.56
35:BA:2055:C:H4'	35:BA:2056:G:H5''	1.87	0.56
35:BA:2056:G:N3	35:BA:2056:G:H2'	2.20	0.56
1:CA:1010:G:N2	1:CA:1020:U:H1'	2.20	0.56
35:BA:1440:G:H2'	35:BA:1441:G:H8	1.70	0.56
1:AA:1486:G:H2'	1:AA:1487:G:O4'	2.05	0.56
31:D5:26:THR:O	31:D5:26:THR:HG23	2.05	0.56
20:AT:8:ARG:N	20:AT:8:ARG:HD2	2.18	0.56
43:BI:82:ARG:HG3	43:BI:82:ARG:HH11	1.71	0.56
37:BC:214:VAL:C	37:BC:216:THR:H	2.08	0.56
35:DA:950:G:O2'	35:DA:951:C:H5'	2.04	0.56
45:DO:63:VAL:HG22	45:DO:83:ALA:O	2.06	0.56
50:DT:96:ARG:CG	50:DT:96:ARG:HH11	2.17	0.56
35:DA:2729:G:C1'	39:DE:187:ALA:HB2	2.23	0.56
1:CA:950:U:H2'	1:CA:951:G:H8	1.71	0.56
35:BA:1819:A:O2'	35:BA:1820:U:OP2	2.19	0.56
35:BA:779:U:H2'	35:BA:780:G:C8	2.41	0.56
38:BD:94:LEU:HA	38:BD:104:TYR:HA	1.87	0.56
5:CE:129:ILE:O	5:CE:132:ALA:N	2.37	0.56
35:DA:1788:C:H2'	35:DA:1789:A:C8	2.34	0.56
35:DA:1821:A:H2'	35:DA:1822:G:C8	2.39	0.56
41:DG:35:GLU:HG2	41:DG:35:GLU:O	2.06	0.56
45:BO:22:ILE:H	45:BO:41:ALA:HA	1.70	0.56
35:BA:1663:C:N3	35:BA:1998:G:N1	2.53	0.56
35:BA:2864:G:O2'	35:BA:2865:U:H5'	2.05	0.56
45:BO:32:TYR:N	45:BO:32:TYR:HD1	2.02	0.56
45:BO:43:VAL:O	45:BO:45:GLU:N	2.37	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:BV:34:GLU:HG2	52:BV:35:LEU:N	2.20	0.56
42:DH:138:LYS:H	42:DH:141:VAL:HG23	1.68	0.56
51:BU:90:VAL:CG1	52:BV:39:LEU:HB3	2.33	0.56
42:DH:149:ARG:CG	42:DH:162:ILE:HD11	2.35	0.56
1:AA:1223:C:P	19:AS:78:ARG:HH22	2.28	0.56
28:B2:46:GLN:NE2	28:B2:47:ASN:N	2.53	0.56
35:BA:1341:U:O3'	54:BX:55:ASN:HB3	2.05	0.56
35:BA:137:C:C2'	35:BA:139:G:H5'	2.35	0.56
54:BX:29:TRP:CZ3	54:BX:76:ARG:HG2	2.38	0.56
27:B1:11:ARG:NH1	27:B1:59:THR:O	2.37	0.56
27:B1:76:ARG:CA	27:B1:78:LYS:HZ3	2.18	0.56
2:AB:237:ALA:O	2:AB:238:LEU:HB3	2.04	0.56
41:BG:165:THR:HB	41:BG:167:GLU:OE1	2.05	0.56
55:DY:74:PRO:HG2	55:DY:80:GLY:O	2.06	0.56
54:DX:53:LYS:HZ2	54:DX:55:ASN:HD21	1.52	0.56
56:DZ:50:GLN:OE1	56:DZ:50:GLN:N	2.37	0.56
47:DQ:29:PHE:CD1	47:DQ:29:PHE:N	2.72	0.56
51:DU:92:ARG:NH1	52:DV:11:GLN:O	2.38	0.56
51:DU:90:VAL:HG22	52:DV:39:LEU:CD1	2.35	0.56
19:CS:12:ASP:O	19:CS:16:LEU:HD13	2.04	0.56
49:BS:80:LEU:HD12	49:BS:80:LEU:N	2.20	0.56
4:CD:119:GLN:HB3	4:CD:120:LEU:HD12	1.87	0.56
35:BA:619:G:P	35:BA:620:G:H22	2.28	0.56
35:BA:797:C:OP2	40:BF:62:ARG:HG3	2.06	0.56
40:BF:81:PRO:HG2	40:BF:82:ILE:H	1.70	0.56
35:BA:943:U:OP1	46:BP:38:GLN:HB3	2.04	0.56
1:AA:103:C:H2'	1:AA:104:G:H8	1.71	0.56
20:AT:32:ALA:O	20:AT:33:ILE:C	2.42	0.56
49:DS:80:LEU:HD12	49:DS:80:LEU:N	2.20	0.56
35:DA:2081:C:H2'	35:DA:2082:A:H8	1.69	0.56
44:DN:53:VAL:HG13	44:DN:121:LYS:O	2.05	0.56
15:CO:56:LEU:HA	15:CO:59:MET:HE2	1.87	0.56
18:CR:36:ASN:HD22	18:CR:39:VAL:HB	1.68	0.56
2:CB:159:PRO:C	2:CB:161:ALA:N	2.56	0.56
2:CB:36:ARG:NE	2:CB:37:ASN:H	2.03	0.56
15:CO:39:LEU:HD12	15:CO:56:LEU:CD1	2.36	0.56
51:DU:47:TYR:HA	51:DU:50:ARG:NH2	2.20	0.56
4:AD:96:LEU:H	4:AD:96:LEU:CD2	1.97	0.56
1:CA:1360:A:H2'	1:CA:1361:G:O4'	2.05	0.56
19:AS:6:LYS:HD2	19:AS:7:LYS:HD2	1.86	0.56
4:AD:10:ARG:O	4:AD:13:ARG:HB3	2.04	0.56
47:DQ:8:LYS:CG	47:DQ:9:TYR:N	2.67	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
18:AR:70:ILE:O	18:AR:74:ARG:HB2	2.05	0.56
18:AR:36:ASN:HD22	18:AR:39:VAL:HB	1.70	0.56
1:CA:1504:G:H4'	1:CA:1505:G:C4	2.40	0.56
35:DA:2019:A:H4'	51:DU:34:LYS:HD2	1.85	0.56
51:DU:33:ARG:HA	51:DU:36:ARG:HB2	1.86	0.56
27:B1:33:LYS:CG	27:B1:34:THR:H	2.16	0.56
7:AG:71:PRO:CG	7:AG:103:TRP:HZ3	2.18	0.56
35:BA:1240:U:O2'	35:BA:1241:A:H5'	2.04	0.56
35:BA:1242:A:N1	46:BP:8:PRO:HG3	2.20	0.56
25:CY:122:ALA:O	25:CY:123:GLU:C	2.44	0.56
25:CY:161:ILE:O	25:CY:164:ILE:HB	2.05	0.56
25:CY:23:HIS:O	25:CY:25:LEU:N	2.38	0.56
1:CA:552:U:O3'	12:CL:87:GLY:HA3	2.06	0.56
43:BI:10:GLU:O	43:BI:12:LEU:HD23	2.05	0.56
43:BI:4:ILE:C	43:BI:5:LEU:HD23	2.26	0.56
1:AA:1269:A:H2	1:AA:1312:G:N3	2.03	0.56
1:AA:453:A:C5	1:AA:454:C:C4	2.94	0.56
20:CT:32:ALA:O	20:CT:33:ILE:C	2.43	0.56
20:CT:32:ALA:O	20:CT:36:LEU:HD23	2.05	0.56
20:CT:41:ILE:O	20:CT:43:LEU:N	2.39	0.56
25:AY:103:ILE:CG1	25:AY:103:ILE:O	2.53	0.56
51:BU:26:GLY:C	51:BU:28:ARG:N	2.57	0.56
33:B7:16:HIS:CE1	35:BA:465:G:H4'	2.40	0.56
1:CA:1074:G:H4'	2:CB:103:THR:HG22	1.87	0.56
1:AA:1392:G:N2	1:AA:1502:A:C8	2.72	0.56
12:AL:89:ARG:HH11	12:AL:89:ARG:HB2	1.69	0.56
35:DA:1657:C:O2'	35:DA:1658:C:H5'	2.05	0.56
35:DA:1658:C:OP1	39:DE:132:HIS:ND1	2.38	0.56
9:AI:7:THR:HB	9:AI:83:ARG:HH11	1.70	0.56
7:CG:84:ASN:N	7:CG:84:ASN:ND2	2.54	0.56
54:DX:21:PHE:CE1	54:DX:26:TYR:HB3	2.39	0.56
38:BD:120:GLY:O	38:BD:131:LEU:HB3	2.05	0.56
35:BA:549:G:H2'	35:BA:551:G:O4'	2.06	0.56
15:CO:15:PHE:O	15:CO:16:ALA:O	2.24	0.56
46:BP:123:LEU:O	46:BP:125:VAL:HG12	2.05	0.56
16:CP:6:LEU:HB3	16:CP:17:TYR:HB3	1.86	0.56
40:BF:170:LEU:HD21	40:BF:172:TRP:CE2	2.40	0.56
38:DD:131:LEU:N	38:DD:131:LEU:HD12	2.20	0.56
1:CA:685:G:N2	1:CA:706:A:H61	2.03	0.56
11:CK:21:ILE:CG1	11:CK:84:VAL:HG12	2.35	0.56
53:BW:11:ARG:HH22	53:BW:98:LYS:HB3	1.70	0.56
1:CA:1411:C:O2'	1:CA:1412:C:H5'	2.05	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
53:BW:8:ARG:HG3	53:BW:8:ARG:HH11	1.71	0.56
35:DA:445:C:O3'	51:DU:3:ARG:HG2	2.04	0.56
17:CQ:48:GLU:O	17:CQ:50:LYS:N	2.38	0.56
35:BA:2114:A:C2'	35:BA:2115:G:H5'	2.34	0.56
1:AA:10:A:H2'	1:AA:11:G:H8	1.71	0.56
20:CT:26:ASN:ND2	20:CT:26:ASN:N	2.54	0.56
1:AA:391:G:N1	1:AA:392:G:C5	2.73	0.56
53:DW:17:VAL:O	53:DW:20:VAL:HG23	2.06	0.56
27:D1:18:ILE:HA	27:D1:44:PRO:HD2	1.87	0.56
38:BD:108:PRO:HG2	38:BD:111:LEU:HB2	1.88	0.56
29:B3:41:PRO:HD3	29:B3:44:ARG:CZ	2.35	0.56
35:DA:2579:C:H4'	39:DE:134:ILE:HG13	1.87	0.56
1:AA:732:C:H2'	1:AA:733:A:H5''	1.87	0.56
35:BA:972:G:H2'	35:BA:973:A:C8	2.40	0.56
29:D3:14:GLY:O	35:DA:969:U:H4'	2.05	0.56
35:DA:2266:A:H4'	35:DA:2267:A:N3	2.20	0.56
1:AA:64:G:OP1	1:AA:64:G:H3'	2.05	0.56
1:AA:1296:C:H3'	1:AA:1297:C:H6	1.71	0.56
54:DX:88:LYS:C	54:DX:90:GLU:H	2.07	0.56
1:CA:1296:C:H5'	1:CA:1297:C:OP2	2.05	0.56
35:BA:2203:U:C4'	38:BD:151:LYS:HE3	2.35	0.56
35:BA:878:A:H3'	35:BA:879:G:C8	2.39	0.56
35:BA:1528:A:H2'	35:BA:1528:A:N3	2.19	0.56
3:AC:76:VAL:HG23	3:AC:77:ILE:HG13	1.86	0.56
31:B5:43:HIS:CD2	31:B5:43:HIS:N	2.72	0.56
35:BA:2340:G:O2'	35:BA:2341:G:H5'	2.05	0.56
35:DA:2773:C:H2'	35:DA:2774:C:C6	2.40	0.56
1:CA:20:U:O2'	1:CA:21:G:H5'	2.05	0.56
45:DO:87:ILE:HG23	45:DO:88:ASN:N	2.20	0.56
1:AA:441:A:H3'	1:AA:442:C:H6	1.69	0.56
7:CG:21:VAL:HG23	7:CG:22:LEU:H	1.68	0.56
1:AA:1283:G:O2'	1:AA:1284:C:H5'	2.04	0.56
25:CY:43:VAL:HG23	25:CY:50:VAL:O	2.04	0.56
35:DA:985:C:H2'	35:DA:985:C:O2	2.06	0.56
1:CA:1154:G:H2'	1:CA:1155:G:H8	1.70	0.56
1:AA:884:U:H4'	1:AA:885:G:C5'	2.34	0.56
35:DA:1841:U:H2'	35:DA:1842:G:H8	1.71	0.56
38:BD:125:ILE:H	38:BD:125:ILE:CD1	2.19	0.56
35:BA:1655:A:H4'	39:BE:115:GLY:H	1.69	0.56
35:BA:271(J):C:C2'	35:BA:271(K):U:H5''	2.36	0.56
35:BA:271(J):C:C3'	35:BA:271(K):U:H5''	2.35	0.56
35:BA:826:U:OP1	35:BA:2428:G:OP1	2.23	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:816:C:O2'	35:BA:817:C:H5'	2.05	0.56
35:BA:2266:A:H4'	35:BA:2267:A:C2	2.41	0.56
57:DC:214:VAL:C	57:DC:216:THR:H	2.09	0.56
55:BY:6:HIS:N	55:BY:6:HIS:ND1	2.50	0.56
35:DA:1430:C:H2'	35:DA:1431:U:C6	2.40	0.56
1:CA:361:G:O2'	1:CA:362:G:H5'	2.06	0.56
55:DY:83:THR:O	55:DY:84:ARG:HG3	2.05	0.56
44:BN:4:TYR:N	44:BN:4:TYR:CD1	2.71	0.56
1:AA:126:G:H5'	1:AA:633:G:N2	2.19	0.56
35:DA:1665:A:O2'	35:DA:1666:G:H5'	2.04	0.56
38:BD:260:ARG:NH1	38:BD:260:ARG:HG2	2.18	0.56
38:BD:96:HIS:CE1	38:BD:102:LYS:HD2	2.41	0.56
34:B8:35:GLN:HE21	34:B8:36:LYS:NZ	2.03	0.56
46:BP:62:LEU:C	46:BP:62:LEU:HD22	2.25	0.56
45:BO:35:VAL:CG2	45:BO:69:ILE:HG12	2.35	0.56
50:BT:77:PRO:O	50:BT:78:LEU:HB3	2.06	0.56
56:BZ:127:LYS:O	56:BZ:128:VAL:HB	2.04	0.56
35:DA:2574:G:H2'	35:DA:2575:C:H6	1.70	0.56
39:BE:63:LEU:O	39:BE:64:LYS:C	2.44	0.56
52:BV:5:VAL:CG2	52:BV:36:PRO:HB2	2.33	0.56
54:BX:77:LYS:CD	54:BX:78:LYS:HG3	2.34	0.56
39:DE:3:GLY:HA3	39:DE:81:ILE:HG21	1.88	0.56
27:B1:11:ARG:HG3	27:B1:61:ARG:C	2.25	0.56
27:B1:51:VAL:CG2	27:B1:62:VAL:HG11	2.34	0.56
36:BB:42:C:O2	41:BG:93:THR:N	2.38	0.56
41:BG:144:ILE:HD12	41:BG:145:THR:H	1.71	0.56
41:BG:85:GLY:O	41:BG:86:MET:HB2	2.06	0.56
54:DX:7:VAL:O	54:DX:31:HIS:N	2.35	0.56
42:BH:102:ALA:CB	42:BH:117:PRO:HD3	2.20	0.56
47:DQ:141:GLN:OE1	56:DZ:70:LEU:HB2	2.04	0.56
56:DZ:96:VAL:HG22	56:DZ:97:GLU:N	2.20	0.56
35:DA:1159:U:C2'	35:DA:1160:G:H5'	2.34	0.56
10:AJ:4:ILE:CB	10:AJ:74:ILE:HD11	2.28	0.56
49:BS:67:ARG:HE	49:BS:100:ALA:HB3	1.69	0.56
35:BA:443:A:H1'	35:BA:1201:C:O4'	2.06	0.56
40:BF:41:LEU:HD23	40:BF:44:ARG:HD3	1.87	0.56
40:BF:34:TRP:CZ3	46:BP:12:ALA:HA	2.40	0.56
34:B8:56:GLU:O	34:B8:59:LYS:NZ	2.36	0.56
50:BT:106:SER:O	50:BT:107:ASP:HB3	2.06	0.56
23:CW:75:C:O2'	27:D1:32:LYS:HD2	2.06	0.56
6:CF:41:GLU:H	6:CF:62:TRP:HE3	1.52	0.56
2:CB:164:VAL:O	2:CB:186:ALA:HB1	2.05	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:CB:34:ALA:O	2:CB:41:ILE:HB	2.06	0.56
40:DF:57:VAL:HG12	40:DF:58:ALA:N	2.19	0.56
46:DP:48:PRO:O	46:DP:51:PHE:N	2.38	0.56
35:BA:1857:G:O2'	35:BA:1885:A:N6	2.39	0.56
4:AD:108:LEU:O	4:AD:110:PHE:CD1	2.58	0.56
55:DY:37:VAL:HG13	55:DY:69:ALA:CB	2.36	0.56
18:AR:75:ILE:C	18:AR:76:LEU:HD22	2.26	0.56
35:DA:28:A:H1'	35:DA:513:A:C2	2.40	0.56
1:AA:452:A:C2	1:AA:453:A:C4	2.93	0.56
20:CT:50:GLU:HG3	20:CT:51:GLU:H	1.70	0.56
35:BA:1657:C:O2'	35:BA:1658:C:H5'	2.05	0.56
35:BA:745:G:H2'	35:BA:746:A:H5'	1.87	0.56
35:DA:1411:C:HO2'	35:DA:1412:A:H8	1.50	0.56
26:B0:21:LEU:CD1	26:B0:41:ARG:HD3	2.35	0.56
35:BA:2246:G:H2'	35:BA:2247:A:C8	2.40	0.56
1:AA:955:U:C1'	1:AA:1227:A:H61	2.15	0.56
1:AA:191:G:C4	20:AT:105:SER:HB3	2.41	0.56
43:DI:15:VAL:O	43:DI:16:GLY:C	2.43	0.56
12:AL:119:LYS:C	12:AL:120:TYR:HD1	2.07	0.56
8:CH:12:ARG:HH11	8:CH:26:VAL:HA	1.70	0.56
31:B5:57:VAL:HG23	31:B5:58:LEU:N	2.18	0.56
35:BA:2753:A:H2	35:BA:2754:U:C2	2.23	0.56
3:CC:155:GLY:O	3:CC:156:ARG:HB2	2.05	0.56
1:AA:33:A:H2'	1:AA:34:C:C6	2.40	0.56
1:CA:9:G:H2'	1:CA:10:A:H8	1.71	0.56
13:CM:13:LYS:HZ2	13:CM:21:TYR:HE1	1.52	0.56
1:AA:766:A:H2'	1:AA:767:A:O4'	2.05	0.56
35:DA:2392:A:H1'	46:DP:60:MET:HE3	1.87	0.56
9:AI:102:LEU:O	9:AI:103:THR:OG1	2.21	0.56
1:AA:1405:G:H2'	1:AA:1406:U:H6	1.70	0.56
1:AA:1096:C:O2'	1:AA:1097:C:H5'	2.05	0.56
2:CB:137:ARG:NH1	2:CB:137:ARG:HG2	2.20	0.56
35:DA:523:C:C2'	35:DA:524:U:H5'	2.36	0.56
35:DA:2408:U:H2'	35:DA:2409:G:H8	1.68	0.56
35:BA:2290:G:H2'	35:BA:2291:U:C6	2.41	0.56
35:BA:2010:G:H5''	53:BW:42:ARG:HB2	1.86	0.56
26:B0:1:MET:O	26:B0:2:ALA:HB3	2.05	0.56
35:DA:1197:G:H5'	35:DA:1227:G:O2'	2.05	0.56
11:AK:86:GLY:H	11:AK:112:THR:CG2	2.19	0.56
7:CG:42:ILE:HG23	7:CG:117:ALA:HB2	1.87	0.56
1:AA:158:G:O2'	1:AA:159:G:H5'	2.05	0.56
47:BQ:42:ILE:HD13	47:BQ:97:VAL:CG2	2.35	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1442(B):A:OP2	1:CA:1442(B):A:H4'	2.05	0.56
50:DT:109:GLU:O	50:DT:112:ARG:HG3	2.06	0.56
35:BA:1899:G:H22	35:BA:1902:C:N4	2.02	0.56
41:DG:102:PHE:CE2	41:DG:141:PHE:HE1	2.24	0.56
47:DQ:20:ALA:CA	47:DQ:98:LYS:HB3	2.33	0.56
56:BZ:129:SER:HB3	56:BZ:132:ASN:HD22	1.69	0.56
39:BE:59:VAL:HG22	39:BE:63:LEU:HA	1.87	0.56
1:AA:949:A:H61	1:AA:1232:U:H3	1.53	0.56
39:DE:30:PRO:C	39:DE:32:PRO:HD3	2.25	0.56
39:DE:55:ASN:ND2	39:DE:75:VAL:HG13	2.21	0.56
35:DA:906:G:H5'	47:DQ:26:TYR:OH	2.05	0.56
56:DZ:48:PHE:HE2	56:DZ:71:VAL:CG2	2.12	0.56
56:DZ:56:VAL:HG12	56:DZ:57:ILE:N	2.21	0.56
35:DA:2636:U:H4'	39:DE:80:GLU:OE1	2.04	0.56
35:BA:2334:G:C5'	49:BS:13:ARG:HG2	2.30	0.56
49:BS:57:LYS:O	49:BS:58:LEU:HB2	2.06	0.56
49:BS:82:ILE:O	49:BS:83:LYS:HB2	2.03	0.56
49:BS:83:LYS:HE3	49:BS:84:GLN:HG3	1.86	0.56
55:BY:44:ILE:CG2	55:BY:45:VAL:N	2.69	0.56
27:D1:10:LYS:O	27:D1:11:ARG:O	2.23	0.56
34:B8:53:PRO:C	34:B8:55:ALA:H	2.07	0.56
35:BA:1414:G:H2'	35:BA:1415:U:C5	2.41	0.56
48:DR:2:ARG:NE	48:DR:5:LYS:HE3	2.21	0.56
35:BA:2821:A:H2'	35:BA:2822:G:H8	1.67	0.56
35:BA:2711:A:OP1	35:BA:2712(A):A:P	2.63	0.56
48:BR:82:GLU:OE1	48:BR:83:ILE:HD13	2.06	0.56
2:CB:213:LEU:C	2:CB:213:LEU:HD23	2.25	0.56
2:CB:88:ALA:HB2	2:CB:223:ILE:HD11	1.86	0.56
44:BN:55:VAL:HG12	44:BN:56:ASN:N	2.21	0.56
6:CF:58:GLY:O	6:CF:60:PHE:HD1	1.89	0.56
35:DA:85:G:O5'	55:DY:30:VAL:HB	2.06	0.56
43:DI:68:LEU:HG	43:DI:72:LEU:HD23	1.86	0.56
35:DA:956:G:H5'	35:DA:957:A:OP2	2.05	0.56
47:BQ:124:LYS:HA	47:BQ:124:LYS:HE2	1.87	0.56
35:DA:2024:G:H2'	35:DA:2025:C:H6	1.70	0.56
35:DA:565:C:H4'	35:DA:1253:A:N6	2.21	0.56
1:CA:1452:C:H1'	1:CA:1456:G:C2	2.38	0.56
42:DH:35:VAL:HG12	42:DH:35:VAL:O	2.06	0.56
2:CB:99:GLY:O	2:CB:101:MET:N	2.39	0.56
1:AA:259:G:H2'	1:AA:260:G:C8	2.41	0.56
1:CA:1346:A:H61	1:CA:1374:A:H3'	1.70	0.56
8:AH:6:ILE:O	8:AH:10:LEU:HG	2.06	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:AI:73:GLN:O	9:AI:77:ILE:HG13	2.05	0.56
8:CH:89:PRO:HA	8:CH:92:ARG:NH1	2.20	0.56
38:DD:108:PRO:HB3	38:DD:143:HIS:CE1	2.41	0.56
1:AA:1073:U:O2	2:AB:104:ASN:ND2	2.39	0.56
35:DA:2250:G:C8	35:DA:2496:C:H5''	2.40	0.56
3:AC:155:GLY:O	3:AC:156:ARG:HB2	2.05	0.56
26:D0:38:VAL:HG23	26:D0:59:LEU:HB2	1.85	0.56
20:CT:19:SER:O	20:CT:23:ARG:N	2.36	0.56
36:BB:21:G:N3	36:BB:21:G:H2'	2.20	0.56
1:AA:1256:A:H61	1:AA:1278:U:H1'	1.69	0.56
1:AA:1281:U:H5'	1:AA:1282:C:C5	2.40	0.56
29:D3:43:ILE:O	29:D3:47:VAL:HG23	2.05	0.56
38:DD:231:HIS:CE1	38:DD:232:PRO:HD2	2.41	0.56
35:DA:614(C):A:N3	40:DF:180:GLY:HA2	2.20	0.56
35:BA:2007:C:H2'	35:BA:2008:C:C6	2.37	0.56
1:CA:1288:A:O2'	1:CA:1289:A:H5'	2.05	0.56
1:CA:441:A:H3'	1:CA:442:C:H6	1.70	0.56
1:CA:811:C:H4'	1:CA:900:A:N6	2.20	0.56
1:CA:811:C:O2'	1:CA:901:A:N1	2.38	0.56
38:DD:70:TRP:CH2	38:DD:150:LYS:HA	2.40	0.56
1:CA:1003:G:H2'	1:CA:1004:A:C4'	2.35	0.56
1:CA:358:U:H2'	1:CA:359:U:H6	1.71	0.56
35:DA:632:A:N3	35:DA:2403:C:H1'	2.21	0.56
1:AA:1003:G:H2'	1:AA:1004:A:C4'	2.35	0.56
29:B3:26:LEU:HD23	29:B3:26:LEU:N	2.20	0.56
35:BA:1703:G:H2'	35:BA:1704:G:H8	1.70	0.56
35:DA:827:U:H2'	35:DA:2068:U:C2	2.40	0.56
4:AD:133:VAL:CG1	4:AD:135:LEU:H	2.19	0.56
35:BA:1475:G:H2'	35:BA:1475:G:N3	2.20	0.56
35:BA:1839:G:H5'	35:BA:1839:G:H8	1.70	0.56
1:AA:775:G:O2'	1:AA:776:G:H5'	2.06	0.56
37:BC:41:VAL:HB	37:BC:178:ALA:HB1	1.88	0.56
35:BA:147:U:H2'	35:BA:148:C:H6	1.71	0.56
35:DA:859:G:H5'	35:DA:2268:A:O2'	2.05	0.56
47:DQ:42:ILE:HD13	47:DQ:97:VAL:CG2	2.35	0.56
35:BA:2650:U:O2'	35:BA:2651:C:H5'	2.06	0.56
35:DA:1663:C:N3	35:DA:1998:G:N1	2.53	0.56
45:DO:32:TYR:HD1	45:DO:32:TYR:N	2.01	0.56
1:CA:1229:A:H2'	1:CA:1230:C:H6	1.71	0.56
35:BA:1899:G:O2'	35:BA:1900:A:H5''	2.05	0.56
38:DD:92:ILE:HA	38:DD:107:ALA:HB2	1.87	0.56
35:BA:1998:G:O2'	35:BA:1999:C:H5'	2.06	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
45:BO:62:VAL:HG11	45:BO:65:THR:HG22	1.87	0.56
39:DE:120:TRP:CE3	39:DE:155:LYS:HD3	2.41	0.56
35:BA:2810:A:H2'	39:BE:61:ARG:HH21	1.69	0.56
39:BE:3:GLY:HA3	39:BE:81:ILE:HG21	1.86	0.56
52:BV:22:VAL:O	52:BV:23:GLU:CB	2.53	0.56
27:B1:86:SER:N	27:B1:87:PRO:HD3	2.20	0.56
32:D6:9:LEU:HD23	32:D6:10:LEU:N	2.20	0.56
56:DZ:73:GLN:O	56:DZ:87:ASP:OD2	2.23	0.56
3:AC:130:VAL:HA	3:AC:133:ALA:HB3	1.86	0.56
43:DI:84:GLY:O	43:DI:85:GLU:HB2	2.05	0.56
40:BF:107:LYS:O	40:BF:110:LEU:N	2.39	0.56
55:BY:77:PRO:O	55:BY:78:ALA:HB2	2.05	0.56
48:DR:36:THR:HB	48:DR:40:LYS:HD2	1.86	0.56
48:DR:41:ALA:O	48:DR:43:GLU:N	2.38	0.56
44:BN:58:ASP:C	44:BN:60:ILE:N	2.58	0.56
6:CF:89:MET:SD	18:CR:76:LEU:HD21	2.45	0.56
35:DA:941:A:H4'	46:DP:35:HIS:CE1	2.40	0.56
1:AA:431:A:H2'	1:AA:432:A:H8	1.71	0.56
55:DY:27:VAL:HG12	55:DY:29:GLU:OE1	2.05	0.56
43:DI:114:LEU:O	43:DI:115:ALA:HB3	2.06	0.56
46:BP:148:LEU:H	46:BP:148:LEU:HD13	1.69	0.56
20:CT:63:ILE:O	20:CT:65:LYS:N	2.38	0.56
55:BY:31:LEU:HD11	55:BY:34:LYS:H	1.70	0.56
23:AW:36:A:O2'	23:AW:37:U:H5'	2.05	0.56
13:AM:84:ILE:O	13:AM:84:ILE:HG22	2.05	0.56
20:AT:58:LYS:HE3	20:AT:62:LEU:CD1	2.36	0.56
1:CA:1104:G:OP1	2:CB:111:ARG:HD2	2.05	0.56
43:DI:10:GLU:CD	43:DI:11:ASN:H	2.09	0.56
43:DI:37:VAL:HG13	43:DI:38:LEU:CD1	2.34	0.56
1:CA:1118:C:H1'	1:CA:1179:A:C4	2.41	0.56
8:AH:20:TYR:HE2	8:AH:75:ARG:HD2	1.70	0.56
31:D5:46:CYS:SG	31:D5:48:GLU:HG3	2.46	0.56
29:B3:56:VAL:CG1	29:B3:57:GLU:N	2.65	0.56
7:CG:121:ALA:O	7:CG:124:LEU:HB2	2.06	0.56
40:BF:139:PHE:HB3	40:BF:166:ALA:HB1	1.88	0.56
35:BA:322:A:OP2	40:BF:169:ASN:HB2	2.05	0.56
54:BX:21:PHE:CE1	54:BX:26:TYR:HB3	2.41	0.56
47:DQ:81:VAL:HG23	47:DQ:82:ARG:HG2	1.86	0.56
36:DB:21:G:N3	36:DB:21:G:H2'	2.20	0.56
1:CA:236:G:H2'	1:CA:237:C:C6	2.40	0.56
35:DA:132:G:H5'	35:DA:132:G:C8	2.35	0.56
35:DA:2579:C:C2'	35:DA:2580:U:H5'	2.35	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2801:A:O2'	35:DA:2895:U:H4'	2.06	0.56
35:BA:292:C:N4	35:BA:348:G:H1	2.02	0.56
9:AI:14:VAL:O	9:AI:65:VAL:HG23	2.05	0.56
7:AG:50:ILE:O	7:AG:54:THR:O	2.23	0.56
35:BA:203:C:H2'	35:BA:204:A:C8	2.40	0.56
35:DA:705:A:O2'	35:DA:706:A:H5'	2.04	0.56
35:BA:2836:U:H2'	35:BA:2837:G:C8	2.41	0.56
7:CG:148:ASN:C	7:CG:150:ALA:H	2.07	0.56
46:DP:122:PRO:HB3	46:DP:141:ALA:CB	2.36	0.56
10:CJ:75:ILE:HG13	10:CJ:76:ASN:N	2.21	0.56
7:CG:27:ILE:HG21	7:CG:40:ALA:HB2	1.87	0.56
35:DA:2843:G:H1	35:DA:2874:C:H42	1.54	0.56
35:BA:1763:G:H4'	35:BA:1763:G:OP1	2.05	0.56
35:DA:1759:A:H2'	35:DA:1760:A:C8	2.41	0.56
17:CQ:65:ILE:N	17:CQ:65:ILE:HD12	2.20	0.56
35:DA:221:A:H4'	35:DA:222:A:O5'	2.06	0.56
1:AA:519:C:O2'	1:AA:520:A:H5'	2.05	0.56
53:DW:9:TYR:H	53:DW:102:HIS:CD2	2.23	0.56
35:DA:1184:G:O2'	35:DA:1185:C:H5'	2.05	0.56
5:CE:133:TYR:HD1	5:CE:133:TYR:H	1.53	0.56
56:BZ:77:ASP:O	56:BZ:77:ASP:OD1	2.23	0.56
46:DP:132:LYS:O	46:DP:136:GLU:HG2	2.06	0.56
10:CJ:48:THR:HG23	10:CJ:62:HIS:N	2.21	0.56
53:DW:29:LEU:HD23	53:DW:30:GLU:N	2.21	0.56
35:BA:1795:C:H1'	35:BA:1901:A:OP1	2.06	0.56
5:CE:19:MET:O	5:CE:20:GLN:HB2	2.04	0.56
35:DA:1799:G:H4'	35:DA:1800:C:O5'	2.05	0.56
41:DG:105:LYS:HB3	41:DG:142:PRO:HG3	1.88	0.56
34:B8:38:GLY:C	34:B8:40:GLU:H	2.08	0.56
35:BA:2563:U:O2'	45:BO:28:SER:HB3	2.06	0.56
45:BO:35:VAL:H	45:BO:65:THR:HG21	1.70	0.56
42:DH:159:GLU:HA	42:DH:159:GLU:OE1	2.06	0.56
14:AN:27:CYS:SG	14:AN:29:ARG:HB2	2.46	0.56
35:BA:62:C:H2'	35:BA:63:U:H5'	1.88	0.56
39:DE:63:LEU:O	39:DE:64:LYS:C	2.44	0.56
39:DE:78:LEU:N	39:DE:78:LEU:CD2	2.69	0.56
41:BG:161:THR:CG2	41:BG:163:ALA:HB3	2.35	0.56
55:DY:74:PRO:O	55:DY:75:ILE:CB	2.54	0.56
54:DX:51:VAL:CG1	54:DX:80:ILE:H	2.18	0.56
56:DZ:8:TYR:H	56:DZ:62:PRO:CD	2.18	0.56
52:DV:34:GLU:CB	52:DV:62:LEU:HD12	2.36	0.56
35:DA:2286:A:H4'	35:DA:2287:A:O4'	2.06	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:262:A:H2'	35:BA:263:C:O4'	2.05	0.56
34:D8:23:VAL:CG1	34:D8:46:ARG:NH1	2.69	0.56
44:DN:67:LEU:C	44:DN:69:GLN:H	2.09	0.56
35:BA:811:U:H1'	35:BA:1251:C:C5'	2.35	0.56
40:DF:183:VAL:O	40:DF:187:VAL:HG23	2.06	0.56
48:DR:45:ARG:HG3	48:DR:46:GLY:N	2.10	0.56
49:DS:66:ALA:HA	49:DS:69:VAL:HG12	1.87	0.56
2:AB:69:LEU:HB3	2:AB:162:ILE:HG22	1.88	0.56
46:DP:30:THR:O	46:DP:32:THR:N	2.39	0.56
4:AD:116:GLN:NE2	4:AD:157:LEU:HD21	2.21	0.56
4:AD:163:GLU:C	4:AD:165:MET:N	2.59	0.56
12:AL:9:GLN:O	12:AL:12:ARG:N	2.39	0.56
4:AD:59:ARG:HH11	4:AD:59:ARG:HG2	1.70	0.56
1:AA:449:C:H2'	1:AA:450:G:O4'	2.05	0.56
16:AP:71:ARG:NH1	16:AP:71:ARG:HG3	2.21	0.56
20:CT:63:ILE:HD12	20:CT:81:LYS:CG	2.35	0.56
7:CG:29:LYS:CB	7:CG:105:VAL:HG21	2.35	0.56
12:AL:86:ARG:CG	12:AL:87:GLY:H	2.18	0.56
1:AA:685:G:N2	1:AA:706:A:H61	2.03	0.56
12:AL:38:THR:HG22	12:AL:57:LYS:C	2.26	0.56
1:CA:599:C:O3'	8:CH:96:GLY:HA2	2.06	0.56
11:AK:43:SER:OG	11:AK:47:VAL:HG11	2.06	0.56
35:DA:237:C:H2'	35:DA:238:C:C6	2.40	0.56
1:AA:1509:C:H2'	1:AA:1510:U:O4'	2.05	0.56
12:AL:90:VAL:O	12:AL:92:ASP:N	2.33	0.56
8:CH:63:LEU:HB3	8:CH:65:TYR:CE1	2.40	0.56
5:AE:146:ALA:C	5:AE:148:VAL:H	2.09	0.56
33:D7:5:TRP:NE1	33:D7:7:PRO:HG3	2.20	0.56
38:DD:186:HIS:HB3	38:DD:189:CYS:SG	2.45	0.56
19:CS:53:ASN:ND2	19:CS:53:ASN:N	2.54	0.56
35:DA:444:C:O5'	51:DU:2:PRO:HD3	2.05	0.56
2:AB:105:PHE:HA	2:AB:108:ILE:HG22	1.88	0.56
38:DD:97:TYR:HB2	38:DD:101:GLU:O	2.06	0.56
5:AE:76:ILE:HG23	5:AE:77:PRO:N	2.19	0.56
35:BA:853:G:H2'	35:BA:854:G:C8	2.39	0.56
53:DW:87:PRO:HA	53:DW:93:ALA:CB	2.35	0.56
25:CY:111:ARG:O	25:CY:115:VAL:HG23	2.05	0.56
35:BA:1717:G:C3'	35:BA:1718:G:H5''	2.33	0.56
15:AO:50:HIS:O	15:AO:53:HIS:HB3	2.05	0.56
1:CA:597:G:H2'	1:CA:598:U:C5'	2.36	0.56
23:CW:28:U:H6	23:CW:28:U:O5'	1.88	0.56
35:DA:173:G:H2'	35:DA:174:C:C6	2.41	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:338:A:H2'	1:CA:339:C:H6	1.71	0.56
22:CV:30:A:C4	22:CV:31:U:C5	2.91	0.56
56:BZ:139:VAL:O	56:BZ:141:VAL:HG12	2.04	0.56
19:AS:43:GLU:O	19:AS:45:VAL:N	2.38	0.56
1:AA:297:G:H2'	1:AA:299:G:OP2	2.05	0.56
1:AA:359:U:H2'	1:AA:360:A:C8	2.40	0.56
35:BA:2888:C:H2'	35:BA:2889:C:H6	1.69	0.56
35:DA:302:C:H42	35:DA:315:G:H1	1.54	0.56
57:DC:56:GLN:HE22	57:DC:169:GLY:H	1.53	0.56
4:CD:91:SER:HA	4:CD:94:LEU:HD12	1.87	0.56
35:BA:1488:G:O6	35:BA:1501:C:N4	2.39	0.56
35:DA:271(L):U:H4'	35:DA:271(M):G:C5	2.40	0.56
39:DE:113:PHE:CE2	39:DE:158:GLY:HA2	2.41	0.56
50:BT:34:VAL:O	50:BT:34:VAL:HG12	2.06	0.56
52:DV:58:VAL:HG12	52:DV:101:GLY:O	2.06	0.56
35:DA:2682:U:O2	39:DE:22:PRO:HB3	2.06	0.56
35:DA:2692:C:O2'	35:DA:2693:A:H5'	2.06	0.56
38:BD:211:ARG:HA	38:BD:214:TRP:CD2	2.40	0.56
38:DD:265:PRO:HG2	38:DD:266:SER:N	2.17	0.56
41:DG:132:ASN:ND2	41:DG:133:LEU:H	2.04	0.56
41:DG:51:ARG:HH12	41:DG:53:LEU:HG	1.61	0.56
45:BO:31:LYS:HB3	45:BO:32:TYR:CD1	2.41	0.56
50:BT:94:ALA:CB	50:BT:99:LEU:HD23	2.35	0.56
35:BA:902:C:H2'	35:BA:903:C:C6	2.41	0.56
39:BE:52:LEU:HD12	39:BE:53:PRO:CD	2.36	0.56
51:BU:65:ILE:HD12	51:BU:65:ILE:H	1.70	0.56
1:AA:1223:C:OP1	1:AA:1224:G:H2'	2.06	0.56
28:B2:53:LEU:O	28:B2:54:LYS:CB	2.52	0.56
35:DA:61:G:O2'	35:DA:62:C:H5'	2.05	0.56
28:D2:26:ARG:HD3	54:DX:5:TYR:HB3	1.88	0.56
42:BH:85:LYS:HE3	42:BH:144:VAL:HB	1.88	0.56
52:DV:18:LEU:O	52:DV:19:LYS:O	2.24	0.56
49:BS:66:ALA:HA	49:BS:69:VAL:HG12	1.88	0.56
1:CA:436:C:O2'	1:CA:437:U:P	2.64	0.56
1:CA:501:C:O2'	1:CA:502:G:H5'	2.05	0.56
4:CD:108:LEU:O	4:CD:110:PHE:CD1	2.59	0.56
3:CC:16:ARG:NH1	3:CC:16:ARG:CB	2.68	0.56
35:BA:1189:A:C2	35:BA:1190:G:H1'	2.40	0.56
35:BA:1197:G:H5'	35:BA:1227:G:O2'	2.06	0.56
35:BA:27:G:N2	35:BA:512:G:C2'	2.69	0.56
35:BA:28:A:H1'	35:BA:513:A:C2	2.41	0.56
40:DF:184:TYR:CD2	40:DF:185:ASP:N	2.73	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:DF:125:LEU:HB3	40:DF:196:LEU:HD21	1.88	0.56
20:AT:72:LEU:HB3	20:AT:76:ALA:HB1	1.88	0.56
48:BR:24:GLN:CB	48:BR:44:LEU:HD21	2.32	0.56
2:CB:81:VAL:HG22	2:CB:215:LEU:HG	1.88	0.56
6:CF:23:LYS:O	6:CF:27:GLN:HG2	2.05	0.56
2:CB:169:LYS:HB3	2:CB:170:GLU:OE2	2.06	0.56
1:AA:1320:C:H5'	19:AS:70:LYS:HE3	1.88	0.56
19:AS:4:SER:N	19:AS:6:LYS:HZ1	2.03	0.56
6:AF:27:GLN:HE21	6:AF:27:GLN:HA	1.69	0.56
35:DA:2020:A:N1	35:DA:2034:U:O4	2.38	0.56
35:DA:568:U:H2'	35:DA:570:G:OP2	2.06	0.56
7:AG:26:PHE:HB2	7:AG:62:PHE:CZ	2.41	0.56
25:CY:10:THR:C	25:CY:12:SER:N	2.59	0.56
1:AA:1325:C:H2'	1:AA:1326:C:H5'	1.88	0.56
25:AY:101:ILE:N	25:AY:101:ILE:HD12	2.20	0.56
33:B7:34:ARG:O	33:B7:36:GLN:N	2.38	0.56
35:BA:684:G:H22	35:BA:787:U:H2'	1.70	0.56
8:CH:109:ILE:CG1	8:CH:110:ALA:N	2.69	0.56
35:BA:2328:A:H2'	35:BA:2329:G:C8	2.41	0.56
46:DP:16:ARG:NE	46:DP:18:ARG:HB2	2.21	0.56
5:AE:19:MET:O	5:AE:20:GLN:HB2	2.05	0.56
43:DI:6:LEU:O	43:DI:15:VAL:HG12	2.06	0.56
1:AA:522:C:H2'	1:AA:523:A:C8	2.41	0.56
35:DA:272:G:H1'	35:DA:272(B):G:O4'	2.06	0.56
5:CE:147:ASP:HA	5:CE:150:ARG:NH1	2.16	0.56
35:BA:543:C:H6	35:BA:547:A:C8	2.24	0.56
38:DD:79:VAL:HG11	38:DD:112:GLN:O	2.06	0.56
35:BA:2308:G:O6	35:BA:2310:A:H2'	2.05	0.56
35:DA:2589:A:H2'	35:DA:2590:A:C8	2.41	0.56
29:B3:43:ILE:O	29:B3:47:VAL:HG23	2.06	0.56
35:BA:1688:U:H5'	35:BA:1689:A:OP1	2.06	0.56
1:CA:64:G:H3'	1:CA:64:G:OP1	2.05	0.56
1:AA:579:G:H5'	1:AA:728:A:H1'	1.87	0.56
1:AA:1296:C:H5'	1:AA:1297:C:OP2	2.06	0.56
12:CL:38:THR:HG22	12:CL:57:LYS:C	2.25	0.56
35:DA:212:G:O2'	35:DA:213:A:H5'	2.05	0.56
1:AA:1367:C:OP1	9:AI:115:GLY:N	2.39	0.56
35:DA:1843:C:C1'	38:DD:255:LYS:HZ3	2.18	0.56
45:DO:87:ILE:HD12	45:DO:92:GLU:N	2.20	0.56
1:CA:1293:G:HO2'	1:CA:1294:G:H8	1.52	0.56
7:AG:36:LYS:HA	7:AG:39:ALA:CB	2.36	0.56
44:BN:3:THR:O	44:BN:5:VAL:N	2.28	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1322:A:O2'	35:BA:1323:U:H5'	2.05	0.56
35:BA:1553:A:H2'	35:BA:1554:A:H5''	1.88	0.56
35:BA:121:G:H2'	35:BA:122:G:H8	1.71	0.56
35:BA:66:C:C2'	35:BA:67:U:H5'	2.35	0.56
55:DY:83:THR:HG22	55:DY:84:ARG:N	2.21	0.56
43:BI:41:GLU:HA	43:BI:44:LEU:HB3	1.88	0.56
48:BR:104:ARG:O	48:BR:106:GLY:N	2.38	0.56
35:BA:658:C:H2'	35:BA:659:C:H6	1.70	0.56
35:DA:2687:U:O2'	35:DA:2688:U:H5'	2.05	0.56
1:AA:1516:G:H2'	1:AA:1518:A:OP2	2.06	0.56
1:CA:1131:G:H2'	1:CA:1132:C:C6	2.41	0.56
50:DT:99:LEU:O	50:DT:99:LEU:HD13	2.06	0.56
1:CA:1208:C:H2'	1:CA:1209:C:C6	2.41	0.56
1:CA:1223:C:OP1	1:CA:1224:G:H2'	2.06	0.56
38:DD:270:ILE:O	38:DD:270:ILE:HD12	2.05	0.56
38:DD:92:ILE:HA	38:DD:107:ALA:CB	2.36	0.56
35:DA:2307:G:H21	35:DA:2308:G:H5'	1.70	0.56
34:B8:30:ARG:O	34:B8:30:ARG:HG3	2.05	0.56
35:DA:1030:G:OP2	47:DQ:128:LYS:HE2	2.06	0.56
45:BO:61:VAL:O	45:BO:84:ALA:CB	2.47	0.56
36:BB:74:U:H2'	36:BB:75:G:C5'	2.18	0.56
56:BZ:53:ILE:HG22	56:BZ:71:VAL:HB	1.88	0.56
39:DE:120:TRP:NE1	39:DE:155:LYS:HB3	2.21	0.56
35:DA:1417:C:O2'	35:DA:1418:G:H5'	2.05	0.56
51:BU:52:ARG:O	51:BU:54:LYS:N	2.38	0.56
52:BV:18:LEU:O	52:BV:19:LYS:O	2.23	0.56
52:BV:32:THR:CG2	52:BV:33:VAL:H	2.14	0.56
52:BV:40:LEU:HD13	52:BV:40:LEU:O	2.06	0.56
28:B2:15:LYS:O	28:B2:19:VAL:HG23	2.06	0.56
41:BG:140:ILE:HD11	41:BG:141:PHE:CE2	2.41	0.56
41:BG:91:ARG:CG	41:BG:92:VAL:N	2.69	0.56
28:D2:56:GLN:HG3	35:DA:76:C:O2'	2.06	0.56
54:DX:9:LEU:HG	54:DX:29:TRP:O	2.06	0.56
35:BA:483:A:H3'	35:BA:484:C:H6	1.71	0.56
56:DZ:59:LEU:H	56:DZ:59:LEU:HD23	1.71	0.56
19:CS:10:PHE:HE2	19:CS:70:LYS:HZ1	1.53	0.56
40:BF:110:LEU:O	40:BF:113:ALA:HB3	2.05	0.56
5:CE:50:GLU:OE2	5:CE:51:VAL:HG23	2.05	0.56
27:D1:9:GLY:N	27:D1:48:LYS:HZ2	2.03	0.56
46:BP:30:THR:O	46:BP:32:THR:N	2.39	0.56
35:BA:2713:A:C3'	35:BA:2714:G:H5'	2.36	0.56
2:CB:238:LEU:O	2:CB:239:VAL:C	2.43	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:DN:56:ASN:HA	44:DN:125:GLY:N	2.20	0.56
6:CF:100:ASN:HB3	18:CR:28:GLU:HA	1.88	0.56
2:CB:159:PRO:O	2:CB:161:ALA:N	2.38	0.56
1:AA:437:U:O2'	1:AA:438:G:H5'	2.06	0.56
55:DY:31:LEU:HG	55:DY:34:LYS:HB2	1.88	0.56
1:AA:539:A:H2'	1:AA:540:G:H8	1.70	0.56
4:AD:58:LEU:O	4:AD:59:ARG:C	2.43	0.56
47:DQ:9:TYR:CG	47:DQ:9:TYR:O	2.58	0.56
6:AF:70:ASP:CG	6:AF:71:ARG:H	2.09	0.56
6:AF:80:ARG:CG	6:AF:88:VAL:HB	2.36	0.56
1:AA:939:G:H5''	7:AG:102:ARG:HH12	1.71	0.56
16:AP:71:ARG:HH11	16:AP:71:ARG:HG3	1.69	0.56
35:BA:2128:C:O2'	35:BA:2163:C:OP1	2.18	0.56
11:CK:23:ALA:HA	11:CK:28:THR:CG2	2.36	0.56
7:AG:83:ALA:C	7:AG:84:ASN:HD22	2.08	0.56
1:AA:1226:C:H4'	1:AA:1227:A:OP1	2.06	0.56
33:D7:16:HIS:HD1	33:D7:21:ARG:HH22	1.52	0.56
46:BP:107:LYS:O	46:BP:109:GLY:N	2.38	0.56
1:AA:802:A:H2'	1:AA:803:G:H5'	1.88	0.56
20:CT:14:LYS:HA	20:CT:17:ARG:HE	1.71	0.56
35:DA:1485:G:H2'	35:DA:1486:A:H8	1.71	0.56
38:BD:145:VAL:HB	38:BD:155:LEU:HB2	1.88	0.56
35:DA:1688:U:H1'	35:DA:1701:A:C6	2.41	0.56
53:BW:74:ALA:C	53:BW:75:TYR:CD1	2.79	0.56
1:CA:1276:G:H2'	1:CA:1277:C:H5'	1.87	0.56
15:AO:85:LEU:HD12	15:AO:87:ILE:HD11	1.88	0.56
28:D2:30:ARG:HH11	28:D2:30:ARG:HG3	1.70	0.56
38:DD:257:LEU:C	38:DD:257:LEU:CD2	2.74	0.56
1:AA:899:C:H2'	1:AA:900:A:O4'	2.05	0.56
35:BA:2009:G:H1'	48:BR:107:ASP:O	2.06	0.56
17:AQ:12:SER:HB3	17:AQ:20:THR:OG1	2.06	0.56
1:AA:1292:U:H2'	1:AA:1293:G:H8	1.69	0.56
45:BO:4:PRO:O	45:BO:5:GLN:HB3	2.04	0.56
1:CA:284:G:H2'	1:CA:285:G:C8	2.41	0.56
1:AA:189(H):G:H2'	1:AA:189(I):G:C8	2.41	0.56
38:DD:125:ILE:CD1	38:DD:125:ILE:H	2.19	0.56
4:CD:25:ARG:C	4:CD:27:TYR:H	2.09	0.56
53:DW:59:VAL:HG12	53:DW:60:ASN:N	2.20	0.56
35:BA:2687:U:O2'	35:BA:2688:U:H5'	2.05	0.56
35:BA:52:A:O2'	35:BA:53:A:H5'	2.05	0.56
13:AM:40:ASN:ND2	13:AM:43:THR:HG23	2.21	0.56
35:DA:1009:A:H2'	35:DA:1010:A:C8	2.40	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1021:A:H8	35:BA:1021:A:H3'	1.70	0.56
22:CV:36:A:H3'	22:CV:37:A:H8	1.71	0.56
35:DA:1490:A:C2	38:DD:75:ILE:HD12	2.40	0.56
45:DO:62:VAL:HG12	45:DO:63:VAL:N	2.21	0.56
41:DG:129:GLY:C	41:DG:131:TYR:N	2.58	0.56
39:BE:12:THR:CG2	50:BT:8:LYS:HE2	2.36	0.56
35:BA:2675:A:OP1	45:BO:31:LYS:HB2	2.05	0.56
50:BT:28:VAL:CG1	50:BT:46:GLU:HA	2.35	0.56
39:BE:88:GLY:O	39:BE:89:ASP:HB2	2.06	0.56
44:BN:10:GLU:HG3	44:BN:11:PRO:HD2	1.86	0.56
51:BU:92:ARG:CG	51:BU:94:ASN:HB3	2.36	0.56
42:DH:105:LEU:CD2	42:DH:113:VAL:HB	2.36	0.56
28:B2:21:LEU:HD13	28:B2:50:ILE:HG22	1.88	0.56
39:DE:75:VAL:C	39:DE:77:ILE:H	2.08	0.56
2:AB:222:ILE:HG23	2:AB:223:ILE:N	2.20	0.56
41:BG:101:ILE:HG12	41:BG:105:LYS:HE3	1.88	0.56
41:BG:43:LEU:HD12	41:BG:153:ARG:HD3	1.87	0.56
41:BG:160:VAL:HG12	41:BG:161:THR:N	2.21	0.56
47:DQ:141:GLN:CD	56:DZ:89:PHE:HB3	2.27	0.56
51:DU:49:HIS:HA	51:DU:52:ARG:HB2	1.87	0.56
32:D6:12:GLU:HB3	32:D6:23:THR:HG22	1.87	0.56
4:CD:104:VAL:O	4:CD:108:LEU:HD13	2.06	0.56
4:CD:18:LYS:CE	4:CD:31:CYS:HB3	2.35	0.56
35:BA:993:G:OP1	51:BU:50:ARG:NH2	2.39	0.56
35:BA:993:G:H5'	52:BV:75:PHE:HZ	1.71	0.56
3:AC:182:ILE:HG23	3:AC:203:PHE:CA	2.36	0.56
35:DA:2081:C:O2'	35:DA:2082:A:H5'	2.06	0.56
15:CO:53:HIS:HE1	15:CO:57:LEU:HD21	1.71	0.56
2:CB:36:ARG:N	2:CB:41:ILE:HD13	2.21	0.56
2:CB:71:VAL:O	2:CB:164:VAL:HG22	2.06	0.56
19:AS:15:LEU:O	19:AS:19:VAL:HG23	2.06	0.56
19:AS:36:ARG:NH1	19:AS:75:ALA:HB3	2.20	0.56
4:AD:22:LYS:HG3	4:AD:26:CYS:SG	2.46	0.56
1:CA:802:A:H2'	1:CA:803:G:H5'	1.88	0.56
25:CY:30:THR:CG2	25:CY:179:LYS:HE3	2.36	0.56
1:CA:553:A:H2'	1:CA:554:C:H6	1.68	0.56
1:AA:552:U:H4'	12:AL:86:ARG:HG2	1.88	0.56
52:BV:78:LYS:HD3	52:BV:78:LYS:C	2.27	0.56
26:D0:21:LEU:CD1	26:D0:41:ARG:HD3	2.36	0.56
43:BI:109:ILE:CD1	43:BI:111:PRO:HD3	2.35	0.56
43:BI:115:ALA:O	43:BI:128:LEU:HD23	2.06	0.56
42:DH:38:SER:O	42:DH:40:GLU:N	2.39	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:DH:41:MET:HE3	42:DH:54:ARG:HA	1.88	0.56
35:DA:234:C:H2'	35:DA:235:U:C6	2.41	0.56
8:AH:11:THR:HG23	8:AH:14:ARG:NH1	2.15	0.56
9:AI:16:ARG:O	9:AI:63:ILE:HG22	2.06	0.56
35:BA:2092:U:C4'	35:BA:2093:G:H5''	2.31	0.56
7:CG:83:ALA:C	7:CG:84:ASN:HD22	2.09	0.56
16:AP:14:ASN:H	16:AP:15:PRO:HD3	1.67	0.56
33:D7:19:ARG:HG2	33:D7:19:ARG:HH11	1.71	0.56
54:DX:65:ARG:NE	54:DX:66:LEU:H	2.03	0.56
35:DA:627:A:H4'	35:DA:628:G:OP1	2.05	0.56
5:CE:150:ARG:NH1	5:CE:150:ARG:CB	2.69	0.56
38:DD:135:PHE:CD1	38:DD:135:PHE:N	2.71	0.56
35:BA:2589:A:H2'	35:BA:2590:A:H8	1.71	0.56
1:CA:1415:G:C4	1:CA:1486:G:C2	2.93	0.56
35:DA:2221:G:H5'	35:DA:2222:G:OP2	2.06	0.56
32:D6:20:ASN:ND2	32:D6:21:TYR:N	2.52	0.56
35:DA:1930:G:H22	35:DA:1968:G:C2'	2.19	0.56
1:CA:726:C:H2'	1:CA:727:G:C8	2.40	0.56
16:CP:45:THR:HG22	16:CP:47:ASP:N	2.19	0.56
35:DA:1744:C:O2'	35:DA:1745:C:H5'	2.06	0.56
38:DD:257:LEU:HD23	38:DD:258:LYS:N	2.21	0.56
16:CP:8:ARG:NH2	16:CP:15:PRO:HG3	2.21	0.56
1:CA:1109:C:H2'	1:CA:1110:A:O4'	2.06	0.56
35:DA:1447:G:H2'	35:DA:1448:G:H8	1.71	0.56
4:AD:80:GLU:C	4:AD:84:LYS:HZ3	2.09	0.56
35:BA:648:G:H4'	35:BA:2351:G:H5''	1.87	0.56
53:DW:35:ILE:HG22	53:DW:36:LEU:N	2.20	0.56
44:BN:137:LYS:HG2	44:BN:138:LEU:N	2.20	0.56
6:CF:37:VAL:HA	6:CF:65:VAL:CG1	2.36	0.56
52:BV:52:VAL:O	52:BV:54:GLY:N	2.38	0.56
35:DA:1197:G:H2'	35:DA:1198:U:H6	1.69	0.56
1:AA:652:U:H1'	1:AA:653:A:H2	1.69	0.56
13:CM:40:ASN:ND2	13:CM:43:THR:HG23	2.21	0.56
3:CC:66:VAL:O	3:CC:66:VAL:HG12	2.06	0.56
55:DY:6:HIS:N	55:DY:6:HIS:ND1	2.53	0.56
35:DA:2870:C:C2'	35:DA:2871:C:H5'	2.35	0.56
50:DT:102:ILE:CB	50:DT:110:ILE:HD11	2.35	0.55
35:BA:1824:G:H2'	35:BA:1825:A:H8	1.71	0.55
35:BA:778:G:C5'	38:BD:48:ARG:HD2	2.36	0.55
38:BD:64:ILE:HG23	38:BD:64:ILE:O	2.05	0.55
41:DG:59:GLU:O	41:DG:63:ILE:HG23	2.06	0.55
35:BA:1002:G:H2'	35:BA:1003:G:O4'	2.05	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
51:BU:91:ASP:O	51:BU:95:LEU:HB2	2.07	0.55
35:BA:94:C:H5'	35:BA:94(A):G:OP2	2.07	0.55
27:B1:58:ILE:CD1	27:B1:87:PRO:HB3	2.36	0.55
41:BG:166:ASP:O	41:BG:170:ARG:HB2	2.06	0.55
41:BG:69:ALA:HB1	41:BG:91:ARG:HE	1.71	0.55
54:DX:57:LEU:HB2	54:DX:76:ARG:CD	2.33	0.55
54:DX:82:GLN:HB3	54:DX:85:PRO:HG2	1.88	0.55
42:BH:153:LYS:N	42:BH:153:LYS:HD3	2.22	0.55
35:DA:2476:A:N3	35:DA:2477:C:H5'	2.21	0.55
47:DQ:140:ALA:HB3	56:DZ:53:ILE:HD12	1.87	0.55
56:DZ:57:ILE:HG22	56:DZ:59:LEU:HD23	1.87	0.55
56:DZ:24:LEU:CD1	56:DZ:86:VAL:HG23	2.30	0.55
35:DA:1158:C:HO2'	35:DA:1159:U:H6	1.53	0.55
51:DU:91:ASP:OD2	51:DU:96:ALA:HA	2.05	0.55
52:DV:22:VAL:O	52:DV:23:GLU:HB2	2.04	0.55
43:DI:87:LYS:HZ3	43:DI:121:LYS:HG2	1.70	0.55
3:CC:153:VAL:HG12	3:CC:154:SER:N	2.21	0.55
46:BP:13:ASN:HD22	46:BP:13:ASN:N	2.02	0.55
27:D1:66:HIS:NE2	35:DA:372:G:H3'	2.21	0.55
27:D1:71:TYR:HA	27:D1:74:VAL:HG23	1.87	0.55
35:BA:586:A:H2	35:BA:809:G:N3	2.04	0.55
52:BV:71:LEU:O	52:BV:90:PRO:HA	2.06	0.55
47:BQ:9:TYR:CG	47:BQ:9:TYR:O	2.59	0.55
48:DR:70:LEU:O	48:DR:71:GLN:HB2	2.06	0.55
1:AA:1427:U:H2'	1:AA:1428:A:C8	2.41	0.55
6:CF:71:ARG:O	6:CF:73:ASN:N	2.38	0.55
35:DA:1189:A:C2	35:DA:1190:G:H1'	2.41	0.55
35:DA:993:G:H5'	52:DV:75:PHE:HZ	1.68	0.55
35:DA:674:G:P	40:DF:54:ARG:HH22	2.29	0.55
35:DA:1215:G:H2'	35:DA:1216:G:C8	2.41	0.55
1:CA:1226:C:H4'	1:CA:1227:A:OP1	2.06	0.55
17:CQ:29:HIS:HE1	17:CQ:31:LEU:HB3	1.71	0.55
16:CP:60:LEU:C	16:CP:62:VAL:H	2.09	0.55
35:BA:1423:G:H2'	35:BA:1424:G:H8	1.70	0.55
2:CB:101:MET:O	2:CB:108:ILE:HG21	2.05	0.55
1:AA:691:G:H1	11:AK:52:GLY:HA2	1.71	0.55
7:AG:79:ARG:NE	7:AG:84:ASN:ND2	2.52	0.55
8:AH:109:ILE:CG1	8:AH:110:ALA:N	2.67	0.55
1:AA:18:C:P	5:AE:127:ASN:HD21	2.30	0.55
2:AB:169:LYS:HB3	2:AB:170:GLU:OE2	2.07	0.55
7:CG:79:ARG:NE	7:CG:84:ASN:ND2	2.51	0.55
29:B3:4:LEU:HD21	29:B3:56:VAL:HG13	1.87	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
12:CL:89:ARG:O	12:CL:89:ARG:HD3	2.06	0.55
27:D1:21:ARG:HD3	27:D1:22:GLY:N	2.20	0.55
28:D2:60:LEU:HB3	28:D2:61:LEU:HD23	1.87	0.55
1:CA:112:G:O2'	1:CA:113:G:H5'	2.05	0.55
5:AE:139:LEU:HA	5:AE:142:LEU:CD1	2.33	0.55
38:BD:143:HIS:HB3	38:BD:194:GLY:O	2.05	0.55
35:DA:2266:A:H4'	35:DA:2267:A:C2	2.41	0.55
1:CA:1469:G:H2'	1:CA:1470:G:H8	1.71	0.55
35:BA:154:G:H2'	35:BA:154(A):C:O2	2.06	0.55
1:CA:1244:C:H2'	1:CA:1245:A:H8	1.71	0.55
1:AA:498:U:C2'	1:AA:498:U:O2	2.55	0.55
35:DA:2380:C:H2'	35:DA:2381:C:C6	2.41	0.55
35:DA:2233:U:H2'	35:DA:2234:G:C8	2.41	0.55
7:CG:36:LYS:HA	7:CG:39:ALA:CB	2.36	0.55
35:BA:2111:C:H1'	35:BA:2118:U:O4'	2.06	0.55
35:BA:302:C:O2'	35:BA:303:U:H5'	2.05	0.55
1:CA:965:A:C2	1:CA:969:A:C2	2.94	0.55
26:B0:56:ASP:CG	26:B0:58:THR:HG1	2.09	0.55
35:BA:1960:A:O2'	35:BA:1961:C:H5'	2.07	0.55
23:CW:22:A:N6	23:CW:47:G:H1'	2.21	0.55
1:AA:1261:A:H62	1:AA:1274:G:H21	1.54	0.55
40:BF:60:SER:OG	40:BF:61:GLY:N	2.37	0.55
35:DA:147:U:H2'	35:DA:148:C:H6	1.71	0.55
45:DO:63:VAL:HB	45:DO:102:VAL:HG12	1.88	0.55
50:DT:27:THR:OG1	50:DT:28:VAL:N	2.36	0.55
50:DT:28:VAL:O	50:DT:29:ARG:HD3	2.07	0.55
38:BD:96:HIS:HA	38:BD:102:LYS:HG2	1.87	0.55
5:CE:131:ILE:N	5:CE:131:ILE:HD13	2.21	0.55
35:DA:1776:G:C2	35:DA:1777:U:C6	2.94	0.55
35:DA:1778:U:H2'	35:DA:1779:U:C6	2.41	0.55
35:DA:1821:A:H2'	35:DA:1822:G:H8	1.71	0.55
38:DD:264:LYS:HE3	38:DD:266:SER:HB2	1.88	0.55
41:DG:102:PHE:HA	41:DG:105:LYS:NZ	2.21	0.55
39:BE:11:MET:HB2	39:BE:23:VAL:O	2.06	0.55
39:DE:141:ILE:HG12	39:DE:142:GLY:H	1.69	0.55
39:BE:47:VAL:HG12	39:BE:49:LEU:HD21	1.88	0.55
10:AJ:62:HIS:N	10:AJ:62:HIS:CD2	2.74	0.55
28:B2:14:ARG:O	28:B2:16:LEU:N	2.39	0.55
54:BX:52:VAL:H	54:BX:80:ILE:CG2	2.20	0.55
39:DE:81:ILE:O	39:DE:82:ARG:O	2.24	0.55
27:B1:45:ASN:O	27:B1:46:LEU:C	2.44	0.55
54:DX:35:THR:O	54:DX:39:ILE:HG23	2.06	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:DV:33:VAL:HG13	52:DV:62:LEU:H	1.70	0.55
44:BN:67:LEU:C	44:BN:69:GLN:H	2.10	0.55
25:AY:93:SER:O	25:AY:99:LEU:HD23	2.06	0.55
27:D1:76:ARG:O	27:D1:77:ALA:CB	2.54	0.55
40:BF:57:VAL:HG12	40:BF:58:ALA:N	2.19	0.55
48:DR:28:LEU:HA	48:DR:34:ILE:HD11	1.88	0.55
48:BR:28:LEU:HA	48:BR:34:ILE:HD11	1.87	0.55
2:AB:159:PRO:O	2:AB:161:ALA:N	2.39	0.55
1:CA:674:G:H2'	1:CA:675:A:C8	2.35	0.55
6:CF:39:LYS:HG2	6:CF:40:VAL:N	2.21	0.55
1:CA:741:G:H5'	15:CO:39:LEU:CD2	2.36	0.55
15:CO:33:THR:OG1	15:CO:63:ARG:HD2	2.07	0.55
34:D8:3:LYS:O	34:D8:4:MET:O	2.23	0.55
18:AR:36:ASN:HB2	18:AR:39:VAL:HG21	1.88	0.55
25:CY:156:ARG:O	25:CY:157:ALA:C	2.44	0.55
1:CA:959:A:H2'	1:CA:960:U:C4'	2.36	0.55
13:CM:91:ARG:HG3	13:CM:98:VAL:HG13	1.88	0.55
25:AY:15:GLN:HA	25:AY:168:PHE:CE2	2.41	0.55
1:CA:939:G:H5''	7:CG:102:ARG:CZ	2.37	0.55
1:AA:553:A:H2'	1:AA:554:C:H6	1.71	0.55
35:BA:2246:G:H2'	35:BA:2247:A:H8	1.72	0.55
1:AA:192:U:H2'	1:AA:193:C:C6	2.41	0.55
1:CA:1347:G:C2	1:CA:1373:G:H2'	2.41	0.55
8:AH:9:MET:O	8:AH:13:ILE:HG12	2.05	0.55
35:BA:2528:U:H2'	35:BA:2530:A:O5'	2.05	0.55
47:DQ:137:TYR:HE2	56:DZ:76:LEU:HD21	1.70	0.55
9:AI:117:HIS:HB2	9:AI:121:ARG:HD2	1.88	0.55
18:CR:58:LEU:HD12	18:CR:58:LEU:N	2.13	0.55
50:BT:13:ARG:HH12	50:BT:15:VAL:HG12	1.67	0.55
40:BF:154:VAL:HB	40:BF:173:VAL:HG22	1.88	0.55
53:DW:8:ARG:HG3	53:DW:8:ARG:HH11	1.71	0.55
1:AA:1514:C:H2'	1:AA:1515:C:H6	1.69	0.55
17:AQ:58:GLU:HB2	17:AQ:74:LEU:HB3	1.88	0.55
35:BA:149:A:H2'	35:BA:150:C:C6	2.41	0.55
27:D1:19:GLN:HE21	35:DA:379:G:N2	2.03	0.55
3:AC:87:LEU:HB3	3:AC:101:LEU:HD11	1.88	0.55
1:AA:597:G:H2'	1:AA:598:U:C5'	2.36	0.55
13:AM:77:ASN:O	13:AM:81:LEU:HG	2.05	0.55
4:CD:128:VAL:C	4:CD:130:GLY:N	2.59	0.55
2:AB:22:LYS:HZ3	2:AB:22:LYS:HA	1.70	0.55
54:DX:14:SER:O	54:DX:17:ALA:N	2.40	0.55
11:CK:17:GLY:HA3	11:CK:79:SER:O	2.07	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1365:G:O2'	1:AA:1366:C:H5'	2.07	0.55
35:DA:860:U:O2'	35:DA:861:A:H5'	2.05	0.55
56:BZ:61:LEU:CB	56:BZ:65:GLN:HB3	2.35	0.55
35:BA:481:G:HO2'	35:BA:482:A:P	2.29	0.55
1:CA:180:U:H2'	1:CA:181:G:H5''	1.87	0.55
35:BA:302:C:H42	35:BA:315:G:H1	1.53	0.55
35:BA:1759:A:H2'	35:BA:1760:A:C8	2.40	0.55
25:CY:35:PRO:HA	25:CY:66:LEU:CD2	2.36	0.55
1:CA:859:A:H2'	1:CA:860:A:O4'	2.05	0.55
1:CA:363:A:C2	12:CL:31:PRO:HG2	2.42	0.55
8:AH:91:ARG:HH11	8:AH:91:ARG:CG	2.19	0.55
35:DA:1839:G:H8	35:DA:1839:G:H5'	1.70	0.55
35:DA:1848:A:H2'	35:DA:1849:G:H8	1.71	0.55
35:DA:13:A:C2	35:DA:526:A:C5	2.94	0.55
5:CE:10:MET:HG2	5:CE:10:MET:O	2.05	0.55
20:CT:8:ARG:HD2	20:CT:8:ARG:N	2.21	0.55
41:BG:39:ILE:HD11	41:BG:155:MET:SD	2.46	0.55
35:DA:127:A:H5''	35:DA:128:C:O4'	2.06	0.55
57:DC:99:ILE:HG22	57:DC:99:ILE:O	2.06	0.55
55:DY:45:VAL:HG22	55:DY:62:GLU:CB	2.32	0.55
50:DT:65:LYS:HZ1	50:DT:65:LYS:HA	1.69	0.55
14:CN:41:ARG:O	14:CN:44:LEU:HB3	2.06	0.55
35:BA:1790:C:H5''	35:BA:1791:A:OP1	2.05	0.55
35:BA:763:G:C4	35:BA:765:G:C8	2.94	0.55
5:CE:12:LEU:CD1	5:CE:31:LEU:HB3	2.34	0.55
41:DG:40:ASN:H	41:DG:157:ILE:HA	1.71	0.55
16:AP:20:VAL:CG2	16:AP:21:VAL:N	2.68	0.55
56:BZ:127:LYS:N	56:BZ:164:ALA:CB	2.66	0.55
47:BQ:141:GLN:CD	56:BZ:89:PHE:HB3	2.27	0.55
39:DE:116:VAL:CG2	39:DE:117:MET:N	2.69	0.55
39:BE:77:ILE:HG22	39:BE:79:ARG:HD2	1.88	0.55
39:DE:57:LYS:HD3	39:DE:59:VAL:HG12	1.88	0.55
41:BG:138:GLN:OE1	41:BG:153:ARG:HB2	2.06	0.55
41:BG:47:LYS:O	41:BG:51:ARG:HG2	2.06	0.55
35:DA:137:C:C2'	35:DA:139:G:H5'	2.36	0.55
35:DA:995:C:C2	51:DU:57:PHE:CE2	2.94	0.55
47:DQ:53:ALA:O	47:DQ:56:ARG:HB3	2.07	0.55
49:BS:93:LYS:HD2	49:BS:93:LYS:O	2.06	0.55
35:BA:565:C:O3'	52:BV:81:TYR:CE1	2.60	0.55
40:DF:110:LEU:O	40:DF:113:ALA:HB3	2.06	0.55
40:DF:41:LEU:O	40:DF:44:ARG:HG3	2.07	0.55
35:DA:1652:A:N6	35:DA:1653:G:N2	2.54	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:DR:55:ALA:HB1	48:DR:84:ALA:HB2	1.89	0.55
2:CB:87:ARG:CZ	2:CB:233:SER:HB3	2.36	0.55
44:DN:58:ASP:OD1	44:DN:124:ALA:HB1	2.05	0.55
44:DN:26:LEU:CD2	44:DN:30:ILE:HD11	2.37	0.55
35:BA:2467:C:O2'	35:BA:2468:G:H5'	2.06	0.55
15:CO:82:ILE:O	15:CO:82:ILE:HD13	2.06	0.55
47:DQ:76:LYS:H	47:DQ:88:GLY:HA3	1.70	0.55
7:AG:29:LYS:CB	7:AG:105:VAL:HG21	2.35	0.55
35:DA:514:A:H2'	35:DA:515:A:C8	2.40	0.55
16:AP:48:TRP:HE3	16:AP:49:LEU:N	2.03	0.55
51:BU:21:ALA:CB	51:BU:35:ALA:HB1	2.36	0.55
11:CK:23:ALA:HA	11:CK:28:THR:HG23	1.87	0.55
16:CP:64:ALA:O	16:CP:65:GLN:C	2.45	0.55
8:CH:119:LEU:HD12	8:CH:124:ALA:N	2.20	0.55
55:BY:31:LEU:HG	55:BY:34:LYS:HB2	1.88	0.55
35:DA:662:G:O3'	46:DP:20:GLY:HA2	2.06	0.55
35:DA:1245:G:C3'	46:DP:16:ARG:HH22	2.15	0.55
1:AA:1508:G:H2'	1:AA:1509:C:C6	2.42	0.55
5:AE:43:LEU:HD12	5:AE:44:GLY:N	2.21	0.55
1:CA:1349:A:H2'	1:CA:1350:A:H8	1.72	0.55
12:CL:60:LEU:HD22	12:CL:60:LEU:H	1.71	0.55
12:CL:89:ARG:HB2	12:CL:89:ARG:HH11	1.70	0.55
42:BH:55:PRO:HG2	42:BH:61:HIS:NE2	2.22	0.55
9:CI:95:LYS:NZ	9:CI:96:LEU:HD13	2.20	0.55
46:BP:96:THR:O	46:BP:99:LEU:HB3	2.06	0.55
16:CP:48:TRP:HE3	16:CP:49:LEU:H	1.54	0.55
23:AW:73:A:H5'	23:AW:74:A:P	2.47	0.55
1:CA:391:G:N1	1:CA:392:G:C5	2.74	0.55
35:DA:270:A:O2'	35:DA:271:A:H5'	2.06	0.55
3:CC:84:ILE:HD11	3:CC:88:ARG:NH2	2.20	0.55
35:BA:523:C:C2'	35:BA:524:U:H5'	2.36	0.55
35:DA:1612:C:C2'	35:DA:1613:G:O5'	2.55	0.55
4:CD:128:VAL:O	4:CD:130:GLY:N	2.38	0.55
15:AO:67:LEU:HD22	15:AO:78:TYR:HE1	1.72	0.55
35:DA:878:A:H3'	35:DA:879:G:C8	2.41	0.55
45:BO:13:ASN:HD22	45:BO:97:ARG:HB2	1.71	0.55
35:DA:2773:C:H2'	35:DA:2774:C:H6	1.70	0.55
43:BI:58:LEU:C	43:BI:60:GLU:H	2.10	0.55
35:DA:601:C:O2	35:DA:605:C:H4'	2.05	0.55
4:AD:190:ASP:O	4:AD:191:ARG:C	2.44	0.55
35:BA:1386:C:O2'	35:BA:1387:C:H5'	2.07	0.55
35:BA:2364:C:O2'	35:BA:2365:G:H5'	2.07	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1326:U:O2'	35:DA:1327:C:H5'	2.06	0.55
35:DA:826:U:OP1	35:DA:2428:G:OP1	2.25	0.55
35:BA:827:U:H2'	35:BA:2068:U:C2	2.42	0.55
1:CA:1175:G:H2'	1:CA:1176:A:C8	2.41	0.55
53:DW:80:PRO:HD2	53:DW:100:THR:HG21	1.89	0.55
35:DA:1361:G:O2'	35:DA:1362:C:H5'	2.07	0.55
3:CC:34:LEU:HD23	3:CC:34:LEU:C	2.27	0.55
10:CJ:62:HIS:O	14:CN:59:ALA:HB3	2.06	0.55
35:BA:1792:G:O2'	35:BA:1793:C:H5'	2.07	0.55
35:BA:1902:C:H5'	38:BD:246:PRO:HD3	1.88	0.55
41:DG:99:MET:O	41:DG:103:LEU:HG	2.06	0.55
41:DG:120:LEU:HG	41:DG:179:PRO:HD2	1.88	0.55
41:DG:120:LEU:N	41:DG:179:PRO:O	2.40	0.55
35:DA:1029:A:H2'	35:DA:1030:G:O4'	2.07	0.55
50:BT:83:ILE:HD11	50:BT:84:GLN:HE21	1.70	0.55
56:BZ:36:LYS:O	56:BZ:37:VAL:HG13	2.06	0.55
51:BU:79:PHE:O	51:BU:83:LEU:HD13	2.06	0.55
35:BA:141:A:H8	35:BA:1408:C:O2'	1.89	0.55
39:DE:56:PRO:O	39:DE:57:LYS:O	2.25	0.55
27:B1:62:VAL:CG2	27:B1:67:ILE:HA	2.33	0.55
27:B1:74:VAL:O	27:B1:76:ARG:N	2.38	0.55
2:AB:87:ARG:CZ	2:AB:233:SER:HB3	2.36	0.55
41:BG:172:LEU:CA	41:BG:175:LEU:HD12	2.36	0.55
47:DQ:109:VAL:HG13	47:DQ:113:GLN:OE1	2.07	0.55
47:DQ:114:ALA:O	47:DQ:116:GLU:N	2.39	0.55
56:DZ:150:LEU:N	56:DZ:150:LEU:HD13	2.21	0.55
52:DV:2:PHE:CB	52:DV:42:GLY:HA2	2.30	0.55
1:AA:995:C:O2'	1:AA:996:A:H5'	2.06	0.55
1:CA:1321:C:H5''	1:CA:1322:C:H2'	1.88	0.55
36:BB:30:C:H2'	36:BB:31:C:O4'	2.07	0.55
4:CD:104:VAL:O	4:CD:107:ARG:HB2	2.07	0.55
4:CD:22:LYS:HB3	4:CD:22:LYS:NZ	2.20	0.55
35:BA:1029:A:H2'	35:BA:1030:G:O4'	2.06	0.55
35:DA:2639:A:C3'	35:DA:2640:G:C5'	2.84	0.55
35:BA:2570:G:H2'	35:BA:2571:C:H6	1.71	0.55
35:BA:792:G:C4'	35:BA:793:A:H5'	2.36	0.55
35:BA:833:U:H5''	46:BP:48:PRO:HB2	1.87	0.55
40:DF:125:LEU:HB3	40:DF:196:LEU:CD2	2.37	0.55
40:DF:24:LEU:HB3	40:DF:25:PRO:CD	2.37	0.55
40:DF:24:LEU:HB3	40:DF:25:PRO:HD2	1.88	0.55
35:BA:300:A:H5''	55:BY:97:ARG:HH12	1.71	0.55
48:DR:28:LEU:O	48:DR:30:THR:N	2.40	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:DR:73:VAL:HG23	48:DR:74:LYS:CD	2.35	0.55
48:DR:73:VAL:O	48:DR:76:VAL:HG12	2.07	0.55
35:BA:1326:U:O2'	35:BA:1327:C:H5'	2.06	0.55
48:BR:28:LEU:C	48:BR:28:LEU:HD13	2.27	0.55
35:BA:1453:U:H5'	48:BR:63:ARG:HE	1.71	0.55
44:DN:126:PRO:O	44:DN:127:ASP:OD1	2.24	0.55
44:BN:26:LEU:HD11	44:BN:30:ILE:HD11	1.87	0.55
18:CR:36:ASN:HB2	18:CR:39:VAL:HG21	1.88	0.55
35:BA:401:A:H2'	35:BA:402:A:C8	2.41	0.55
1:AA:1010:G:N2	1:AA:1020:U:H1'	2.21	0.55
35:BA:1252:G:N3	51:BU:33:ARG:HD2	2.22	0.55
1:AA:709:G:H2'	1:AA:710:G:H8	1.72	0.55
35:BA:1428:C:C4	35:BA:1569:A:H5''	2.41	0.55
55:BY:28:LYS:HA	55:BY:39:VAL:N	2.20	0.55
31:D5:40:LYS:HZ3	31:D5:50:GLY:HA2	1.70	0.55
35:DA:1175:U:H4'	35:DA:1176:G:C3'	2.37	0.55
16:CP:6:LEU:HD12	16:CP:6:LEU:N	2.20	0.55
38:DD:143:HIS:CE1	38:DD:192:THR:HG23	2.42	0.55
2:AB:102:LEU:CD1	2:AB:102:LEU:N	2.69	0.55
35:DA:1297:C:H2'	35:DA:1298:C:C6	2.41	0.55
35:DA:1297:C:H2'	35:DA:1298:C:H6	1.71	0.55
38:DD:145:VAL:HB	38:DD:155:LEU:CB	2.37	0.55
35:DA:2590:A:O3'	38:DD:239:ARG:HG3	2.06	0.55
13:CM:64:TRP:HE1	13:CM:66:LEU:HD12	1.72	0.55
13:AM:58:GLU:O	13:AM:62:ASN:HB3	2.06	0.55
2:AB:136:VAL:O	2:AB:140:HIS:HB2	2.07	0.55
15:AO:66:LEU:O	15:AO:69:TYR:HB3	2.07	0.55
12:CL:119:LYS:HD3	12:CL:120:TYR:HE1	1.71	0.55
2:AB:19:HIS:CD2	2:AB:20:GLU:HG2	2.42	0.55
35:BA:2465:C:O2'	35:BA:2466:C:H5'	2.05	0.55
40:DF:32:LEU:HD23	40:DF:33:LEU:N	2.22	0.55
1:CA:783:C:H42	1:CA:800:G:N2	2.04	0.55
17:CQ:9:VAL:HG12	17:CQ:10:VAL:N	2.21	0.55
45:DO:4:PRO:O	45:DO:5:GLN:HB3	2.05	0.55
1:AA:1285:A:H1'	1:AA:1286:A:OP2	2.07	0.55
56:DZ:115:GLY:HA3	56:DZ:176:PRO:HA	1.88	0.55
56:DZ:11:GLU:H	56:DZ:11:GLU:CD	2.08	0.55
51:DU:24:TYR:HB2	51:DU:29:SER:HB3	1.88	0.55
1:CA:364:A:H2'	1:CA:365:U:O2	2.06	0.55
1:AA:129(A):G:N2	1:AA:189(E):U:H1'	2.21	0.55
5:AE:101:ILE:CD1	5:AE:118:ILE:O	2.55	0.55
23:CW:11:A:H2'	23:CW:12:G:H8	1.71	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1251:A:H5''	9:AI:12:GLU:OE1	2.06	0.55
35:BA:151:C:H42	35:BA:175:G:H1	1.52	0.55
3:CC:20:SER:O	14:CN:54:PRO:HG3	2.06	0.55
35:BA:2016:U:H2'	35:BA:2017:U:C6	2.41	0.55
45:DO:16:ALA:CB	45:DO:43:VAL:HG13	2.34	0.55
38:BD:34:VAL:CG2	38:BD:35:LYS:HZ2	2.19	0.55
41:DG:137:GLU:CG	41:DG:138:GLN:N	2.64	0.55
45:BO:86:ILE:CD1	45:BO:86:ILE:N	2.62	0.55
1:AA:608:A:H4'	16:AP:32:TYR:OH	2.06	0.55
39:BE:79:ARG:HH11	39:BE:79:ARG:HG2	1.72	0.55
1:AA:971:G:H4'	1:AA:972:C:C5'	2.36	0.55
14:AN:41:ARG:O	14:AN:44:LEU:HB3	2.07	0.55
35:DA:2809:A:O2'	35:DA:2810:A:H5'	2.06	0.55
39:DE:88:GLY:O	39:DE:89:ASP:HB2	2.07	0.55
27:B1:52:ARG:O	27:B1:53:VAL:HG12	2.06	0.55
28:D2:26:ARG:CZ	54:DX:5:TYR:HB3	2.36	0.55
51:DU:90:VAL:CG2	52:DV:39:LEU:HD12	2.36	0.55
51:DU:92:ARG:C	51:DU:94:ASN:N	2.58	0.55
52:DV:27:ALA:O	52:DV:29:PRO:N	2.39	0.55
35:BA:2377:A:H4'	49:BS:108:GLY:HA3	1.89	0.55
1:CA:540:G:C2	1:CA:541:G:C4	2.95	0.55
4:CD:62:GLN:HB3	4:CD:66:ARG:CZ	2.37	0.55
40:BF:124:LEU:HD12	40:BF:125:LEU:N	2.22	0.55
40:BF:45:ARG:CG	40:BF:46:ARG:H	2.19	0.55
27:D1:85:LEU:O	27:D1:86:SER:C	2.45	0.55
35:BA:956:G:H22	35:BA:959:A:H3'	1.71	0.55
5:AE:51:VAL:HB	5:AE:52:PRO:CD	2.35	0.55
20:AT:48:LYS:O	20:AT:49:ALA:HB2	2.06	0.55
35:BA:1754:C:H2'	35:BA:1755:A:O4'	2.06	0.55
48:BR:9:LYS:NZ	48:BR:39:PRO:HA	2.21	0.55
36:DB:7:G:H4'	49:DS:29:PHE:HD2	1.65	0.55
18:CR:25:THR:O	18:CR:26:LEU:HG	2.07	0.55
2:CB:82:ARG:HG2	2:CB:82:ARG:HH11	1.71	0.55
1:AA:1360:A:H2'	1:AA:1361:G:O4'	2.07	0.55
1:CA:1399:C:C2	1:CA:1401:G:C5	2.94	0.55
1:CA:1511:G:N1	1:CA:1525:G:C6	2.75	0.55
42:DH:19:VAL:HG11	42:DH:44:VAL:HG22	1.88	0.55
12:CL:70:ILE:N	12:CL:70:ILE:CD1	2.68	0.55
25:AY:29:ARG:CZ	25:AY:110:ARG:HH21	2.19	0.55
11:CK:43:SER:OG	11:CK:47:VAL:HG11	2.07	0.55
7:CG:75:VAL:HG23	7:CG:75:VAL:O	2.06	0.55
35:BA:926:A:H5'	35:BA:926:A:H8	1.70	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:17:U:H2'	1:AA:18:C:H6	1.68	0.55
9:AI:77:ILE:HG23	9:AI:81:ILE:HD11	1.89	0.55
35:DA:2537:U:H2'	35:DA:2538:C:C6	2.42	0.55
9:CI:4:TYR:CB	9:CI:19:LEU:HB2	2.35	0.55
7:CG:135:VAL:HG12	7:CG:139:GLU:HG3	1.89	0.55
38:DD:143:HIS:HB3	38:DD:194:GLY:O	2.05	0.55
31:B5:11:THR:HB	35:BA:1263:U:O3'	2.07	0.55
38:DD:218:ARG:HB3	38:DD:219:PRO:HD2	1.88	0.55
2:AB:99:GLY:O	2:AB:101:MET:N	2.39	0.55
7:AG:120:ILE:C	7:AG:124:LEU:HD12	2.27	0.55
48:BR:60:LEU:O	48:BR:61:HIS:C	2.43	0.55
40:DF:139:PHE:CB	40:DF:166:ALA:HB1	2.36	0.55
7:CG:50:ILE:O	7:CG:54:THR:O	2.24	0.55
1:CA:472:A:C4'	16:CP:82:GLN:HE22	2.19	0.55
46:DP:95:VAL:O	46:DP:125:VAL:HG23	2.07	0.55
35:BA:1689:A:N6	35:BA:1698:A:H2	2.04	0.55
35:DA:2559:C:O2	35:DA:2559:C:H2'	2.06	0.55
38:BD:248:SER:HB2	38:BD:249:PRO:HD2	1.89	0.55
3:AC:73:PRO:O	3:AC:75:VAL:N	2.39	0.55
35:DA:1446:C:N4	35:DA:1465:G:H1	2.02	0.55
35:DA:2643:G:C2	35:DA:2772:C:N3	2.74	0.55
35:BA:212:G:O2'	35:BA:213:A:H5'	2.06	0.55
27:D1:56:GLN:O	27:D1:57:GLU:HB2	2.06	0.55
1:AA:783:C:H42	1:AA:800:G:N2	2.04	0.55
39:DE:2:LYS:CD	39:DE:95:ILE:HG22	2.36	0.55
35:DA:1196:C:H2'	35:DA:1197:G:C8	2.41	0.55
35:DA:302:C:O2'	35:DA:303:U:H5'	2.07	0.55
30:B4:1:MET:H3	36:BB:43:C:H5'	1.71	0.55
36:BB:40:U:N3	36:BB:43:C:H5''	2.22	0.55
1:AA:128:G:O2'	1:AA:129:U:H5'	2.07	0.55
35:BA:499:U:O2'	35:BA:500:G:H5'	2.07	0.55
37:BC:73:ARG:HG2	37:BC:92:ASP:OD2	2.07	0.55
57:DC:41:VAL:HB	57:DC:178:ALA:HB1	1.88	0.55
2:CB:124:SER:OG	2:CB:125:PRO:HD2	2.07	0.55
37:BC:99:ILE:HG22	37:BC:99:ILE:O	2.06	0.55
1:CA:1230:C:O2'	1:CA:1231:G:H5'	2.07	0.55
41:DG:17:PRO:C	41:DG:19:LEU:H	2.10	0.55
35:DA:1899:G:H22	35:DA:1902:C:N4	2.04	0.55
38:DD:260:ARG:NH2	38:DD:264:LYS:HD3	2.21	0.55
35:DA:2308:G:O6	35:DA:2310:A:H2'	2.07	0.55
41:DG:38:VAL:HA	41:DG:92:VAL:O	2.07	0.55
32:B6:10:LEU:HD22	32:B6:10:LEU:N	2.22	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
45:BO:2:ILE:CD1	45:BO:6:THR:HG21	2.36	0.55
56:BZ:125:LEU:O	56:BZ:126:VAL:HG22	2.07	0.55
56:BZ:5:LEU:HD11	56:BZ:43:GLU:O	2.05	0.55
35:BA:2632:A:H1'	39:BE:61:ARG:NH1	2.22	0.55
44:BN:43:THR:O	44:BN:44:PRO:C	2.43	0.55
42:DH:97:ARG:HD2	42:DH:104:GLU:OE1	2.07	0.55
56:DZ:17:ALA:O	56:DZ:18:LEU:C	2.45	0.55
44:DN:46:VAL:HG21	44:DN:48:MET:HG3	1.88	0.55
35:BA:607:U:OP1	40:BF:103:LYS:N	2.39	0.55
35:BA:662:G:O3'	46:BP:20:GLY:HA2	2.06	0.55
25:AY:37:LEU:C	25:AY:37:LEU:HD12	2.27	0.55
35:DA:1415:U:O2	35:DA:1415:U:H2'	2.06	0.55
48:DR:2:ARG:HD2	48:DR:2:ARG:C	2.26	0.55
35:DA:2079:U:H3	35:DA:2241:A:N6	2.05	0.55
47:BQ:114:ALA:O	47:BQ:116:GLU:N	2.40	0.55
1:CA:656:C:H4'	15:CO:62:GLN:HE22	1.71	0.55
6:CF:69:GLU:H	6:CF:69:GLU:CD	2.10	0.55
40:DF:74:ARG:O	40:DF:75:HIS:ND1	2.40	0.55
40:DF:89:VAL:CG1	40:DF:90:PHE:H	2.20	0.55
46:DP:46:LYS:CB	46:DP:52:GLU:HG2	2.37	0.55
18:AR:35:ARG:C	18:AR:37:VAL:N	2.59	0.55
25:CY:162:GLN:O	25:CY:163:LYS:C	2.45	0.55
1:AA:450:G:H4'	16:AP:41:PRO:O	2.07	0.55
1:AA:453:A:H2'	1:AA:454:C:C6	2.42	0.55
7:AG:75:VAL:HG23	7:AG:75:VAL:O	2.06	0.55
25:AY:144:ALA:HB2	25:AY:149:LEU:HD12	1.89	0.55
11:AK:57:THR:HG23	11:AK:58:PRO:HD2	1.89	0.55
11:AK:83:ILE:HA	11:AK:109:VAL:O	2.06	0.55
33:B7:30:VAL:O	33:B7:31:LEU:C	2.44	0.55
42:DH:65:HIS:ND1	42:DH:66:GLY:N	2.55	0.55
2:CB:105:PHE:HA	2:CB:108:ILE:HG22	1.87	0.55
1:CA:383:A:H2'	1:CA:384:G:C5'	2.28	0.55
12:AL:102:ARG:CG	12:AL:102:ARG:HH11	2.19	0.55
56:BZ:114:GLY:CA	56:BZ:177:PRO:HB3	2.31	0.55
35:DA:549:G:H2'	35:DA:551:G:C4'	2.36	0.55
31:D5:20:ARG:HA	31:D5:23:HIS:HD2	1.70	0.55
46:BP:100:LEU:CD2	46:BP:100:LEU:H	2.20	0.55
1:CA:452:A:C2	1:CA:453:A:C4	2.94	0.55
11:CK:30:VAL:HG21	11:CK:65:ALA:HA	1.89	0.55
13:CM:70:LEU:O	13:CM:74:VAL:HG23	2.07	0.55
35:DA:470:A:OP1	40:DF:59:TYR:HE2	1.89	0.55
1:CA:1256:A:H61	1:CA:1278:U:H1'	1.71	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:CM:58:GLU:O	13:CM:62:ASN:HB3	2.05	0.55
35:DA:268:C:C2'	35:DA:268:C:O2	2.53	0.55
38:BD:257:LEU:C	38:BD:257:LEU:CD2	2.74	0.55
1:CA:1296:C:H3'	1:CA:1297:C:H6	1.72	0.55
35:DA:913:U:H4'	35:DA:914:C:OP1	2.06	0.55
35:BA:2720:U:O2	35:BA:2720:U:C2'	2.54	0.55
17:AQ:10:VAL:HG12	17:AQ:53:LEU:HD12	1.87	0.55
1:AA:1288:A:O2'	1:AA:1289:A:H5'	2.07	0.55
35:BA:45:C:H2'	35:BA:47:C:C6	2.42	0.55
13:CM:76:ALA:HA	13:CM:79:LYS:HD2	1.89	0.55
35:DA:1331:A:H2'	35:DA:1333:C:H5	1.71	0.55
35:BA:1515:G:H2'	35:BA:1516:C:H5'	1.88	0.55
1:AA:1031:G:H2'	1:AA:1032:G:C8	2.41	0.55
1:AA:788:U:C5	1:AA:789:U:H5	2.24	0.55
53:BW:40:ASN:O	53:BW:41:LYS:HG2	2.07	0.55
35:DA:2460:U:O2'	35:DA:2461:C:H5'	2.06	0.55
35:BA:1649:G:O2'	35:BA:1650:G:H5'	2.06	0.55
1:AA:857:C:H2'	1:AA:858:G:O4'	2.05	0.55
1:AA:781:A:H2'	1:AA:782:A:H5'	1.88	0.55
31:B5:26:THR:HG23	31:B5:26:THR:O	2.06	0.55
35:DA:66:C:C2'	35:DA:67:U:H5'	2.37	0.55
35:DA:2720:U:O2	35:DA:2720:U:C2'	2.54	0.55
50:DT:62:THR:CG2	50:DT:75:ILE:HG13	2.37	0.55
38:BD:259:THR:O	38:BD:260:ARG:C	2.45	0.55
35:BA:778:G:H5''	38:BD:48:ARG:HD2	1.88	0.55
47:DQ:38:GLU:HB2	47:DQ:127:ILE:CG2	2.37	0.55
35:BA:2852:G:H2'	35:BA:2853:C:H6	1.71	0.55
1:AA:980:C:H5'	1:AA:981:U:C5	2.41	0.55
14:AN:51:GLY:C	14:AN:53:LEU:H	2.10	0.55
39:DE:64:LYS:C	39:DE:66:HIS:N	2.59	0.55
41:BG:141:PHE:O	41:BG:144:ILE:HG22	2.07	0.55
56:DZ:10:ARG:HG3	56:DZ:38:TYR:H	1.72	0.55
44:DN:40:PRO:CB	51:DU:64:ARG:HH22	2.19	0.55
44:DN:43:THR:O	44:DN:45:ASN:N	2.40	0.55
1:CA:437:U:O2'	1:CA:438:G:H5'	2.06	0.55
1:CA:1202:G:C2'	1:CA:1203:C:H5'	2.36	0.55
34:B8:59:LYS:HG3	46:BP:49:ARG:HD2	1.89	0.55
35:BA:585:G:H2'	35:BA:1251:C:N4	2.22	0.55
40:DF:124:LEU:HD12	40:DF:125:LEU:N	2.21	0.55
40:DF:45:ARG:CG	40:DF:46:ARG:H	2.19	0.55
48:DR:74:LYS:HA	48:DR:77:ARG:HD2	1.88	0.55
1:AA:1439:C:OP1	20:AT:38:LYS:HD2	2.06	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
20:AT:11:SER:HA	20:AT:13:LEU:HD12	1.88	0.55
35:DA:2377:A:H4'	49:DS:108:GLY:HA3	1.88	0.55
49:DS:27:SER:N	49:DS:38:GLN:O	2.39	0.55
49:DS:40:ILE:HG23	49:DS:46:VAL:O	2.07	0.55
49:DS:99:LYS:O	49:DS:101:LEU:N	2.40	0.55
6:CF:100:ASN:H	18:CR:23:LYS:NZ	2.05	0.55
19:AS:6:LYS:CD	19:AS:6:LYS:H	2.20	0.55
35:DA:79:G:O2'	35:DA:80:G:H5'	2.06	0.55
43:DI:94:ALA:C	43:DI:96:ASP:N	2.59	0.55
1:CA:1325:C:H2'	1:CA:1326:C:H5'	1.88	0.55
35:BA:1131:G:N3	35:BA:1132:A:C8	2.74	0.55
35:BA:1352:U:O2'	35:BA:1353:A:H5'	2.07	0.55
22:AV:28:G:H2'	22:AV:29:G:H8	1.72	0.55
13:AM:91:ARG:HG3	13:AM:98:VAL:HG13	1.89	0.55
43:DI:4:ILE:C	43:DI:5:LEU:HD23	2.27	0.55
9:CI:117:HIS:HB2	9:CI:121:ARG:HD2	1.89	0.55
12:AL:89:ARG:O	12:AL:89:ARG:HD3	2.07	0.55
35:DA:2888:C:H2'	35:DA:2889:C:H6	1.70	0.55
35:BA:1786:A:N1	35:BA:2606:C:H1'	2.22	0.55
11:CK:65:ALA:HB3	11:CK:97:ALA:CB	2.36	0.55
50:DT:13:ARG:HH12	50:DT:15:VAL:HG12	1.68	0.55
11:CK:96:ARG:CA	11:CK:99:GLN:HG2	2.36	0.55
35:DA:2732:G:H3'	35:DA:2733:A:C5'	2.36	0.55
35:DA:121:G:H2'	35:DA:122:G:H8	1.71	0.55
35:BA:1496:A:H2'	35:BA:1498:C:C5	2.42	0.55
40:DF:170:LEU:HD21	40:DF:172:TRP:CE2	2.42	0.55
26:D0:23:VAL:HG12	26:D0:24:LYS:N	2.22	0.55
35:BA:1114:G:H2'	35:BA:1115:G:C5'	2.32	0.55
1:CA:1463:C:H2'	1:CA:1464:G:O4'	2.06	0.55
20:CT:30:LYS:HZ3	20:CT:72:LEU:HD21	1.72	0.55
35:BA:2801:A:H4'	35:BA:2801(A):A:O5'	2.07	0.55
35:BA:2801:A:O2'	35:BA:2895:U:H4'	2.06	0.55
38:BD:146:GLU:CA	38:BD:153:ALA:HA	2.33	0.55
35:DA:2098:U:H2'	35:DA:2099:U:C6	2.42	0.55
1:AA:115:G:O2'	1:AA:116:A:OP2	2.22	0.55
35:DA:1931:U:O2'	35:DA:1932:A:H5'	2.06	0.55
5:CE:72:GLN:O	5:CE:73:ASN:HB3	2.05	0.55
35:DA:468:G:H2'	35:DA:469:G:O4'	2.06	0.55
35:DA:2801(A):A:H5'	35:DA:2802:G:C8	2.41	0.55
11:CK:80:VAL:HG23	11:CK:80:VAL:O	2.06	0.55
46:BP:56:SER:C	46:BP:58:THR:H	2.10	0.55
35:BA:201:C:C2'	35:BA:202:U:H5'	2.37	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1445(A):C:H2'	35:DA:1446:C:H6	1.70	0.55
35:DA:921:G:H2'	35:DA:922:U:C6	2.42	0.55
39:BE:173:VAL:HG12	39:BE:174:ASP:N	2.20	0.55
41:BG:96:ARG:HA	41:BG:99:MET:CE	2.36	0.55
10:CJ:32:ALA:HB1	10:CJ:75:ILE:HG13	1.89	0.55
1:AA:357:G:OP1	1:AA:366:C:O2'	2.24	0.55
19:CS:22:LEU:HD22	19:CS:27:GLU:H	1.70	0.55
53:BW:64:MET:HE2	53:BW:109:GLU:HG3	1.88	0.55
39:DE:2:LYS:CE	39:DE:95:ILE:HG22	2.37	0.55
1:AA:475:G:H2'	1:AA:476:G:H8	1.71	0.55
44:DN:75:TYR:O	44:DN:82:LEU:O	2.25	0.55
1:AA:792:A:H4'	1:AA:793:U:O5'	2.07	0.55
1:AA:856:C:H2'	1:AA:857:C:H6	1.72	0.55
35:BA:247:G:H4'	35:BA:386:G:C5	2.42	0.55
1:CA:44:G:C2	1:CA:45:U:H1'	2.42	0.55
1:AA:231:G:O2'	1:AA:232:G:H5'	2.06	0.55
3:AC:34:LEU:HD23	3:AC:34:LEU:C	2.27	0.55
35:BA:2547:U:O2'	35:BA:2548:G:H5'	2.07	0.55
35:DA:1998:G:O2'	35:DA:1999:C:H5'	2.07	0.55
35:DA:1999:C:H2'	35:DA:2000:G:C8	2.39	0.55
41:DG:22:ARG:HH11	41:DG:22:ARG:HG2	1.72	0.55
41:DG:9:ARG:O	41:DG:13:GLU:HG2	2.07	0.55
38:DD:160:GLY:N	38:DD:196:VAL:HB	2.22	0.55
41:DG:102:PHE:HA	41:DG:105:LYS:HZ1	1.72	0.55
41:DG:145:THR:OG1	41:DG:148:MET:HB3	2.07	0.55
35:BA:2863:C:C3'	35:BA:2864:G:H5''	2.37	0.55
45:BO:87:ILE:HG23	45:BO:88:ASN:N	2.22	0.55
50:BT:28:VAL:HB	50:BT:88:ILE:HG12	1.89	0.55
44:BN:46:VAL:O	44:BN:47:ALA:HB2	2.06	0.55
1:AA:972:C:H2'	10:AJ:55:LYS:HD3	1.88	0.55
28:B2:41:ILE:O	28:B2:43:GLN:N	2.40	0.55
27:B1:83:GLU:O	27:B1:85:LEU:N	2.30	0.55
54:DX:33:LYS:C	54:DX:35:THR:H	2.09	0.55
56:DZ:40:ASP:O	56:DZ:44:PHE:HB2	2.05	0.55
19:CS:15:LEU:O	19:CS:19:VAL:HG23	2.07	0.55
49:BS:99:LYS:O	49:BS:101:LEU:N	2.40	0.55
43:DI:87:LYS:CE	43:DI:121:LYS:HG2	2.36	0.55
43:DI:83:ALA:HA	43:DI:89:TYR:HD1	1.72	0.55
35:BA:662:G:O2'	35:BA:663:G:H5'	2.07	0.55
27:D1:69:LYS:NZ	35:DA:372:G:P	2.80	0.55
35:BA:565:C:H2'	35:BA:566:U:H6	1.72	0.55
2:AB:36:ARG:NE	2:AB:37:ASN:H	2.05	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:AB:61:LEU:O	2:AB:64:ARG:HG2	2.05	0.55
35:DA:8:A:H5''	44:DN:51:PHE:HZ	1.72	0.55
35:BA:2476:A:N3	35:BA:2477:C:H5'	2.22	0.55
6:CF:68:PRO:CG	6:CF:71:ARG:HE	2.18	0.55
4:AD:156:GLU:O	4:AD:159:ARG:HB2	2.07	0.55
4:AD:93:PHE:CE1	4:AD:97:LEU:HD12	2.42	0.55
55:DY:16:ALA:CA	55:DY:21:LYS:HD2	2.36	0.55
55:DY:31:LEU:HB2	55:DY:36:ALA:O	2.07	0.55
12:AL:9:GLN:O	12:AL:10:LEU:C	2.45	0.55
1:CA:817:C:N4	1:CA:1529:G:H1	2.05	0.55
25:CY:15:GLN:CA	25:CY:168:PHE:HZ	2.19	0.55
43:BI:10:GLU:CD	43:BI:11:ASN:H	2.10	0.55
35:DA:848:G:N3	35:DA:933:A:H1'	2.21	0.55
35:BA:81:G:H1	35:BA:105:C:H42	1.55	0.55
22:AV:40:C:O2'	22:AV:41:C:H5'	2.07	0.55
13:AM:93:ARG:HA	13:AM:93:ARG:HE	1.72	0.55
11:CK:58:PRO:HD3	11:CK:89:ALA:CB	2.35	0.55
31:B5:46:CYS:SG	31:B5:48:GLU:HG3	2.47	0.55
9:CI:47:LEU:N	9:CI:47:LEU:HD12	2.22	0.55
33:D7:30:VAL:O	33:D7:31:LEU:C	2.43	0.55
35:BA:493:G:H3'	35:BA:494:G:H5''	1.89	0.55
1:CA:1424:C:C2	1:CA:1425:U:C6	2.95	0.55
1:CA:197:A:N3	1:CA:198:G:H1'	2.22	0.55
35:DA:2345:G:H5''	35:DA:2347:C:O4'	2.07	0.55
16:AP:82:GLN:HE21	16:AP:82:GLN:H	1.38	0.55
1:CA:11:G:C5	1:CA:12:U:C5	2.95	0.55
39:DE:133:LYS:N	39:DE:134:ILE:HD13	2.22	0.55
35:BA:1335:U:H2'	35:BA:1336:A:H8	1.72	0.55
35:BA:863:A:H4'	36:BB:101:G:N2	2.21	0.55
1:AA:666:G:H1'	1:AA:741:G:N2	2.21	0.55
1:AA:853:G:H2'	1:AA:854:G:H8	1.71	0.55
31:B5:29:THR:O	31:B5:42:PRO:HD3	2.07	0.55
35:DA:285:C:H2'	35:DA:286:C:C5'	2.36	0.55
41:DG:166:ASP:OD1	41:DG:170:ARG:HD2	2.07	0.55
41:DG:170:ARG:HG3	41:DG:170:ARG:HH11	1.71	0.55
35:BA:2661:G:H2'	35:BA:2662:A:H8	1.69	0.55
1:CA:555:C:H2'	1:CA:556:C:C6	2.42	0.55
44:BN:128:HIS:O	44:BN:130:HIS:N	2.40	0.55
1:CA:498:U:C2'	1:CA:498:U:O2	2.55	0.55
35:DA:1830:C:N4	35:DA:1975:G:H1	2.02	0.55
1:CA:1285:A:H1'	1:CA:1286:A:OP2	2.07	0.55
1:CA:1031:G:H2'	1:CA:1032:G:C8	2.42	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:893:C:H5	35:BA:894:C:C2	2.25	0.55
1:AA:1416:G:O2'	1:AA:1417:G:H5'	2.07	0.55
1:AA:363:A:C5	12:AL:31:PRO:HD2	2.40	0.55
35:DA:2785:C:H2'	35:DA:2786:U:C6	2.41	0.55
3:AC:188:LEU:HD22	3:AC:188:LEU:N	2.21	0.55
17:AQ:80:GLY:O	17:AQ:81:ARG:HG2	2.06	0.55
35:DA:1572:A:O2'	35:DA:1573:G:H5'	2.07	0.55
1:CA:128:G:O2'	1:CA:129:U:H5'	2.06	0.55
3:CC:188:LEU:N	3:CC:188:LEU:HD22	2.22	0.55
1:CA:1067:A:H8	1:CA:1067:A:O5'	1.89	0.55
35:DA:2677:G:C4	35:DA:2678:C:C5	2.95	0.55
35:DA:2679:A:O2'	35:DA:2680:C:H5'	2.07	0.55
45:DO:104:ARG:O	45:DO:107:ARG:N	2.38	0.55
50:DT:62:THR:HB	50:DT:74:ARG:O	2.07	0.55
35:BA:2086:U:OP1	38:BD:262:ARG:HG2	2.07	0.55
38:DD:35:LYS:HD3	38:DD:63:ARG:CB	2.23	0.55
16:CP:18:ARG:O	16:CP:20:VAL:HG12	2.07	0.55
41:DG:160:VAL:HG13	41:DG:161:THR:N	2.21	0.55
41:DG:61:ALA:HB1	41:DG:68:PRO:HD3	1.89	0.55
35:DA:2513:G:H1	35:DA:2571:C:H42	1.54	0.55
39:BE:55:ASN:ND2	39:BE:75:VAL:HG13	2.22	0.55
51:BU:99:ALA:HB2	51:BU:106:PHE:CD1	2.42	0.55
51:BU:91:ASP:O	51:BU:92:ARG:O	2.25	0.55
52:BV:96:ILE:HG23	52:BV:97:LYS:N	2.22	0.55
42:DH:153:LYS:N	42:DH:153:LYS:HD3	2.22	0.55
14:AN:53:LEU:HB3	14:AN:56:VAL:HG21	1.89	0.55
34:D8:62:LEU:N	34:D8:63:PRO:HD2	2.21	0.55
35:BA:143(A):C:H2'	35:BA:143(A):C:O2	2.06	0.55
27:B1:87:PRO:HB2	27:B1:91:LYS:CE	2.37	0.55
27:B1:87:PRO:N	27:B1:89:GLU:HG2	2.20	0.55
2:AB:80:ILE:HD11	2:AB:215:LEU:HD12	1.88	0.55
41:BG:115:ARG:NH2	41:BG:136:ARG:HD2	2.19	0.55
41:BG:178:PHE:CB	41:BG:180:PHE:HE1	2.14	0.55
54:DX:70:LEU:HG	54:DX:71:GLY:N	2.20	0.55
35:DA:874:G:H2'	35:DA:875:G:H8	1.71	0.55
56:DZ:143:GLY:O	56:DZ:144:LEU:HD22	2.07	0.55
10:AJ:16:LEU:HD22	10:AJ:19:SER:OG	2.06	0.55
40:BF:24:LEU:HB3	40:BF:25:PRO:HD2	1.88	0.55
34:B8:55:ALA:O	34:B8:59:LYS:NZ	2.36	0.55
40:BF:65:TRP:O	40:BF:67:GLN:N	2.39	0.55
40:DF:114:VAL:CG2	40:DF:115:ALA:H	2.14	0.55
55:BY:86:ARG:HB3	55:BY:88:LYS:NZ	2.20	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:DE:110:GLY:O	48:DR:2:ARG:CZ	2.55	0.55
35:BA:1277:G:O2'	35:BA:1278:A:H5'	2.06	0.55
35:BA:2718:G:H2'	35:BA:2719:G:C8	2.42	0.55
50:BT:110:ILE:HG22	50:BT:111:ARG:N	2.22	0.55
44:BN:99:LEU:O	44:BN:103:VAL:HG23	2.06	0.55
6:CF:27:GLN:NE2	6:CF:27:GLN:HA	2.21	0.55
15:CO:64:ARG:O	15:CO:65:ARG:C	2.45	0.55
2:CB:16:HIS:HA	2:CB:210:SER:HB2	1.87	0.55
52:DV:72:VAL:CA	52:DV:88:ARG:HH12	2.17	0.55
55:DY:39:VAL:O	55:DY:40:GLU:HG2	2.07	0.55
17:AQ:31:LEU:HG	17:AQ:32:TYR:CE2	2.42	0.55
18:AR:75:ILE:HG22	18:AR:75:ILE:O	2.06	0.55
25:AY:14:MET:CE	25:AY:165:THR:HG23	2.37	0.55
35:BA:1590:U:H2'	35:BA:1591:G:C5'	2.28	0.55
44:BN:78:TYR:CD1	44:BN:79:PRO:HD3	2.42	0.55
35:BA:685:A:C2	35:BA:787:U:H1'	2.42	0.55
35:BA:310:A:OP1	55:BY:17:SER:O	2.25	0.55
13:AM:92:HIS:CE1	13:AM:98:VAL:HG21	2.41	0.55
35:DA:598:G:H5'	46:DP:15:ARG:CB	2.37	0.55
5:AE:131:ILE:H	5:AE:131:ILE:CD1	2.16	0.55
25:CY:40:HIS:O	25:CY:41:LEU:C	2.45	0.55
8:AH:45:ILE:HB	8:AH:62:TYR:O	2.06	0.55
16:AP:8:ARG:NH2	16:AP:15:PRO:HG3	2.22	0.55
9:CI:7:THR:HB	9:CI:83:ARG:HH11	1.72	0.55
33:D7:8:ASN:ND2	33:D7:8:ASN:C	2.60	0.55
6:CF:52:ILE:O	6:CF:86:ARG:NH1	2.40	0.55
35:BA:1417:C:C2'	35:BA:1418:G:H5'	2.37	0.55
17:AQ:67:LYS:CA	17:AQ:70:ARG:HH12	2.19	0.55
35:BA:2781:A:H5'	35:BA:2782:G:H5'	1.87	0.55
56:BZ:104:PHE:HA	56:BZ:139:VAL:HB	1.89	0.55
35:DA:738:G:C6	35:DA:739:G:C2	2.95	0.55
5:CE:15:ARG:HG2	5:CE:26:PHE:CD2	2.42	0.55
25:AY:78:ALA:HA	25:AY:81:LYS:HD2	1.89	0.55
44:BN:75:TYR:O	44:BN:82:LEU:O	2.24	0.55
44:BN:82:LEU:HD12	44:BN:83:LYS:N	2.21	0.55
34:B8:48:PHE:N	34:B8:48:PHE:CD1	2.73	0.55
4:CD:133:VAL:CG1	4:CD:135:LEU:H	2.20	0.55
35:DA:952:G:C6	35:DA:953:A:N7	2.75	0.55
1:CA:788:U:C4	1:CA:789:U:C5	2.95	0.55
55:DY:47:LYS:HG3	55:DY:60:PHE:CE2	2.41	0.55
50:DT:89:VAL:CG1	50:DT:91:ARG:HE	2.20	0.55
35:DA:782:A:C2	38:DD:226:MET:CG	2.81	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:DD:65:ILE:O	38:DD:65:ILE:HD12	2.07	0.55
16:CP:19:ILE:HG22	16:CP:36:ILE:CG1	2.36	0.55
23:AW:77:A:C2	35:BA:2421:G:C6	2.95	0.55
39:BE:12:THR:HG23	50:BT:8:LYS:HE2	1.88	0.55
35:BA:906:G:H5'	47:BQ:26:TYR:OH	2.07	0.55
56:BZ:42:VAL:HG13	56:BZ:43:GLU:H	1.70	0.55
56:BZ:56:VAL:CG1	56:BZ:57:ILE:N	2.69	0.55
35:DA:2055:C:H4'	35:DA:2056:G:H5''	1.89	0.55
44:BN:41:ASP:N	51:BU:64:ARG:NH1	2.51	0.55
44:BN:46:VAL:HG21	44:BN:48:MET:HG3	1.89	0.55
35:BA:1160:G:N2	52:BV:10:LYS:HE3	2.22	0.55
42:DH:96:ALA:HB2	42:DH:105:LEU:HB3	1.89	0.55
39:DE:36:ARG:NH2	39:DE:88:GLY:HA3	2.22	0.55
27:B1:18:ILE:O	27:B1:18:ILE:HG22	2.07	0.55
41:BG:36:LYS:HG2	41:BG:37:VAL:N	2.21	0.55
54:DX:52:VAL:O	54:DX:53:LYS:CB	2.55	0.55
47:DQ:32:TYR:HD1	47:DQ:32:TYR:H	1.54	0.55
44:DN:43:THR:O	44:DN:44:PRO:C	2.45	0.55
51:DU:95:LEU:HD12	52:DV:11:GLN:HG3	1.89	0.55
52:DV:61:VAL:HG23	52:DV:100:ARG:N	2.21	0.55
52:DV:14:VAL:HG11	52:DV:98:GLU:HG3	1.88	0.55
44:BN:72:TYR:HB3	44:BN:74:ARG:HG2	1.89	0.55
34:D8:39:LYS:HG2	34:D8:42:ARG:HH11	1.71	0.55
35:DA:1021:A:C8	35:DA:1021:A:H3'	2.41	0.55
35:BA:1196:C:H2'	35:BA:1197:G:H8	1.69	0.55
51:BU:7:GLY:O	51:BU:8:VAL:HG22	2.07	0.55
48:DR:85:PRO:O	48:DR:87:TYR:N	2.40	0.55
35:BA:1275:A:C4	48:BR:16:HIS:CE1	2.95	0.55
2:CB:75:LYS:HE3	2:CB:75:LYS:HA	1.89	0.55
2:AB:54:THR:HG22	2:AB:58:ILE:CD1	2.37	0.55
44:BN:126:PRO:O	44:BN:127:ASP:OD1	2.25	0.55
34:D8:53:PRO:C	34:D8:55:ALA:H	2.10	0.55
4:AD:65:ARG:HB2	4:AD:75:PHE:CZ	2.42	0.55
1:CA:192:U:H2'	1:CA:193:C:C6	2.41	0.55
1:AA:1018:C:H2'	1:AA:1019:C:C6	2.42	0.55
11:AK:30:VAL:HG21	11:AK:65:ALA:HA	1.87	0.55
35:BA:464:U:H2'	35:BA:465:G:O4'	2.07	0.55
1:AA:872:A:C2	1:AA:874:G:C6	2.95	0.55
12:AL:100:ILE:O	12:AL:102:ARG:N	2.40	0.55
35:BA:627:A:H4'	35:BA:628:G:OP1	2.06	0.55
11:CK:83:ILE:HA	11:CK:109:VAL:O	2.06	0.55
35:DA:2223:G:H2'	35:DA:2224:G:H5'	1.88	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:965:A:C2	1:AA:969:A:C2	2.95	0.55
42:BH:157:TYR:HD1	42:BH:170:ARG:O	1.88	0.55
1:AA:11:G:C5	1:AA:12:U:C5	2.95	0.55
3:AC:84:ILE:HD11	3:AC:88:ARG:NH2	2.22	0.55
54:BX:12:VAL:HG11	54:BX:27:THR:CG2	2.35	0.55
35:DA:215:G:H4'	35:DA:216:A:O5'	2.06	0.55
35:BA:2202:C:C2'	38:BD:151:LYS:HZ1	2.20	0.55
35:BA:285:C:H2'	35:BA:286:C:C5'	2.36	0.55
56:BZ:61:LEU:O	56:BZ:63:ASP:N	2.35	0.55
1:CA:533:A:H1'	1:CA:534:U:OP1	2.06	0.55
1:CA:769:G:H2'	1:CA:770:C:H6	1.72	0.55
35:DA:271(G):C:O2'	35:DA:271(H):G:H5'	2.07	0.55
35:DA:991:C:H42	35:DA:1163:G:H1	1.54	0.55
35:DA:1668:A:N7	35:DA:1674:G:C6	2.75	0.55
19:CS:64:GLU:HG3	19:CS:65:ASN:N	2.22	0.55
31:B5:22:HIS:N	31:B5:22:HIS:ND1	2.54	0.55
5:AE:133:TYR:HD1	5:AE:133:TYR:H	1.53	0.55
57:DC:73:ARG:HG2	57:DC:92:ASP:OD2	2.06	0.55
11:AK:34:ASP:HB3	11:AK:40:ILE:HD11	1.88	0.55
35:BA:1790:C:H2'	35:BA:1791:A:C8	2.41	0.54
1:CA:17:U:O4'	1:CA:1080:A:H1'	2.07	0.54
35:DA:1789:A:H2'	35:DA:1790:C:C6	2.38	0.54
36:DB:40:U:N3	36:DB:43:C:H5''	2.21	0.54
41:DG:105:LYS:HZ2	41:DG:105:LYS:CB	2.20	0.54
41:DG:57:ALA:HB2	41:DG:90:LEU:CD2	2.33	0.54
35:BA:2284:C:H42	35:BA:2384:G:H1	1.54	0.54
45:BO:40:VAL:HA	45:BO:58:VAL:O	2.07	0.54
50:BT:63:VAL:O	50:BT:73:GLU:HA	2.07	0.54
35:BA:535:C:O2'	35:BA:536:A:H5'	2.07	0.54
51:BU:92:ARG:C	51:BU:94:ASN:N	2.60	0.54
52:BV:15:GLU:HB3	52:BV:16:PRO:CD	2.36	0.54
52:BV:34:GLU:HB3	52:BV:62:LEU:CD1	2.34	0.54
54:BX:52:VAL:H	54:BX:80:ILE:HG22	1.72	0.54
54:BX:76:ARG:C	54:BX:76:ARG:HD3	2.27	0.54
39:DE:44:TYR:O	39:DE:45:THR:CB	2.55	0.54
39:DE:47:VAL:HG23	39:DE:84:PHE:O	2.07	0.54
2:AB:212:GLN:HG3	2:AB:235:SER:HB2	1.89	0.54
41:BG:4:ASP:HA	41:BG:8:LYS:CD	2.34	0.54
55:DY:86:ARG:HB3	55:DY:88:LYS:NZ	2.20	0.54
35:DA:94:C:H5'	35:DA:94(A):G:OP2	2.07	0.54
42:BH:149:ARG:CG	42:BH:162:ILE:HD11	2.37	0.54
56:DZ:26:GLY:C	56:DZ:37:VAL:H	2.09	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:DN:10:GLU:CD	44:DN:11:PRO:HD2	2.27	0.54
51:DU:45:TYR:O	51:DU:46:ALA:C	2.45	0.54
1:AA:1203:C:H2'	1:AA:1204:A:C8	2.41	0.54
49:BS:65:VAL:O	49:BS:69:VAL:HG12	2.07	0.54
35:BA:1246:A:OP1	46:BP:18:ARG:HG3	2.07	0.54
35:BA:2513:G:H1	35:BA:2571:C:H42	1.55	0.54
35:BA:2571:C:O2	35:BA:2571:C:H2'	2.06	0.54
35:BA:2052:G:C2	39:BE:149:ARG:HA	2.42	0.54
35:BA:991:C:H42	35:BA:1163:G:H1	1.54	0.54
35:BA:1415:U:O2	35:BA:1415:U:H2'	2.06	0.54
2:AB:159:PRO:C	2:AB:161:ALA:N	2.57	0.54
44:DN:16:ILE:HG23	44:DN:54:VAL:CG2	2.36	0.54
1:CA:666:G:H1'	1:CA:741:G:N2	2.22	0.54
6:CF:58:GLY:O	6:CF:60:PHE:CD1	2.60	0.54
40:DF:51:THR:OG1	40:DF:91:GLY:HA3	2.07	0.54
46:DP:23:PRO:O	46:DP:33:ARG:HG2	2.06	0.54
46:DP:51:PHE:O	46:DP:52:GLU:HB2	2.07	0.54
4:AD:62:GLN:HB3	4:AD:66:ARG:NH1	2.22	0.54
44:DN:77:GLY:O	44:DN:78:TYR:HB3	2.07	0.54
35:DA:15:G:H2'	35:DA:16:G:C8	2.34	0.54
1:CA:955:U:C1'	1:CA:1227:A:H61	2.15	0.54
20:CT:36:LEU:HD22	20:CT:36:LEU:N	2.18	0.54
35:BA:2022:U:O2'	35:BA:2617:C:H5'	2.07	0.54
11:AK:85:ARG:HG2	11:AK:111:ASP:O	2.06	0.54
35:BA:692:C:N3	35:BA:771:G:C2	2.75	0.54
35:BA:2248:C:H3'	35:BA:2249:U:H6	1.72	0.54
8:AH:129:VAL:HG23	8:AH:130:GLY:N	2.16	0.54
1:AA:865:A:H5'	1:AA:1078:U:H5	1.72	0.54
18:AR:56:THR:HG21	18:AR:63:GLN:HE22	1.72	0.54
9:CI:16:ARG:O	9:CI:63:ILE:HG22	2.06	0.54
5:CE:147:ASP:CA	5:CE:150:ARG:HB3	2.37	0.54
35:DA:2834:G:H5'	35:DA:2835:A:OP2	2.07	0.54
1:AA:1053:G:C6	1:AA:1199:U:H2'	2.42	0.54
26:D0:24:LYS:NZ	35:DA:2355:C:O2'	2.41	0.54
5:AE:80:ILE:HD11	5:AE:91:LEU:HB2	1.89	0.54
1:AA:472:A:C4'	16:AP:82:GLN:HE22	2.19	0.54
35:DA:2591:C:H2'	35:DA:2592:G:H8	1.65	0.54
1:AA:78:G:H22	1:AA:91:C:H42	1.53	0.54
3:CC:83:ARG:C	3:CC:87:LEU:HG	2.26	0.54
3:AC:86:VAL:O	3:AC:89:GLU:HB3	2.06	0.54
46:DP:95:VAL:HG23	46:DP:95:VAL:O	2.07	0.54
35:DA:1614:A:N1	53:DW:87:PRO:HB3	2.21	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1721:G:H2'	35:DA:1722:A:H2'	1.88	0.54
38:DD:166:GLN:N	38:DD:166:GLN:NE2	2.54	0.54
8:CH:53:VAL:O	8:CH:54:ASP:HB2	2.07	0.54
35:BA:360:G:O2'	35:BA:361:G:H5'	2.07	0.54
35:BA:201:C:O2'	35:BA:202:U:H5'	2.07	0.54
35:DA:1528(A):A:C2'	35:DA:1529:G:H5''	2.37	0.54
46:BP:122:PRO:HB3	46:BP:141:ALA:CB	2.36	0.54
35:DA:920:G:H2'	35:DA:921:G:C8	2.40	0.54
40:DF:32:LEU:O	40:DF:33:LEU:C	2.45	0.54
35:DA:1322:A:O2'	35:DA:1323:U:H5'	2.07	0.54
12:CL:34:ARG:HB3	12:CL:61:THR:CG2	2.36	0.54
1:CA:358:U:H2'	1:CA:359:U:C6	2.42	0.54
35:BA:632:A:N3	35:BA:2403:C:H1'	2.22	0.54
35:DA:409:C:O2'	35:DA:410:G:H5'	2.07	0.54
8:CH:91:ARG:CG	8:CH:91:ARG:HH11	2.20	0.54
29:D3:50:VAL:O	29:D3:51:ALA:C	2.46	0.54
47:DQ:42:ILE:HD13	47:DQ:97:VAL:HG21	1.89	0.54
40:BF:143:ALA:O	40:BF:146:ALA:HB3	2.07	0.54
35:BA:409:C:O2'	35:BA:410:G:H5'	2.06	0.54
35:BA:1490:A:C2	38:BD:75:ILE:HD12	2.41	0.54
57:DC:170:ALA:C	57:DC:172:HIS:H	2.11	0.54
41:DG:80:PHE:O	41:DG:81:LYS:HB2	2.05	0.54
39:DE:69:LYS:HE2	39:DE:69:LYS:N	2.22	0.54
34:D8:11:LYS:O	34:D8:11:LYS:HG2	2.07	0.54
53:BW:59:VAL:HG12	53:BW:60:ASN:N	2.22	0.54
11:CK:92:GLU:O	11:CK:95:ILE:HG12	2.07	0.54
35:DA:2718:G:H2'	35:DA:2719:G:C8	2.42	0.54
50:DT:106:SER:O	50:DT:107:ASP:HB3	2.07	0.54
50:DT:27:THR:O	50:DT:28:VAL:CB	2.55	0.54
35:DA:1567:A:H5'	38:DD:58:HIS:CD2	2.42	0.54
35:BA:2680:C:H5'	39:BE:189:PRO:HA	1.89	0.54
45:BO:20:MET:HE3	45:BO:44:LYS:HG3	1.89	0.54
47:BQ:141:GLN:NE2	56:BZ:72:ARG:HG2	2.21	0.54
35:DA:2512:C:H2'	35:DA:2513:G:O4'	2.07	0.54
39:BE:179:GLU:OE1	39:BE:179:GLU:HA	2.07	0.54
35:DA:1417:C:C2'	35:DA:1418:G:H5'	2.37	0.54
42:DH:128:PRO:HG2	42:DH:129:THR:CG2	2.32	0.54
54:BX:73:ARG:N	54:BX:74:PRO:CD	2.59	0.54
27:B1:47:GLN:NE2	27:B1:64:ALA:CB	2.70	0.54
2:AB:88:ALA:HB2	2:AB:223:ILE:HD11	1.89	0.54
55:DY:7:VAL:CG2	55:DY:8:LYS:HD2	2.37	0.54
54:DX:51:VAL:HG13	54:DX:80:ILE:N	2.22	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:BH:88:LEU:O	42:BH:89:ILE:HG23	2.07	0.54
36:BB:51:G:H2'	36:BB:52:A:O4'	2.07	0.54
40:BF:39:TRP:CB	40:BF:101:LEU:HD22	2.37	0.54
40:BF:45:ARG:HG2	40:BF:97:TYR:CG	2.42	0.54
27:D1:76:ARG:HA	27:D1:76:ARG:NE	2.20	0.54
46:DP:64:LYS:C	46:DP:66:GLY:N	2.61	0.54
35:BA:1227:G:OP1	51:BU:13:LYS:HE2	2.07	0.54
1:AA:102:G:H2'	1:AA:103:C:H6	1.71	0.54
48:BR:87:TYR:O	48:BR:89:ASP:N	2.40	0.54
50:BT:107:ASP:OD2	50:BT:109:GLU:HG3	2.06	0.54
36:DB:55:U:O2'	36:DB:56:G:H5'	2.07	0.54
2:AB:82:ARG:HG2	2:AB:82:ARG:HH11	1.71	0.54
35:BA:1748:G:H8	35:BA:1748:G:H5'	1.72	0.54
18:CR:36:ASN:O	18:CR:39:VAL:HG23	2.07	0.54
18:CR:35:ARG:C	18:CR:37:VAL:N	2.60	0.54
18:CR:47:THR:HA	18:CR:83:GLU:O	2.07	0.54
35:DA:677:A:N1	35:DA:802:A:C5	2.75	0.54
40:DF:68:LYS:O	40:DF:69:HIS:HB2	2.07	0.54
40:DF:89:VAL:C	40:DF:91:GLY:H	2.10	0.54
4:AD:170:VAL:HG22	4:AD:171:GLY:H	1.71	0.54
55:DY:28:LYS:HA	55:DY:39:VAL:N	2.23	0.54
13:CM:93:ARG:HE	13:CM:93:ARG:HA	1.71	0.54
16:AP:40:ASP:HB3	16:AP:48:TRP:HB3	1.89	0.54
1:CA:261:U:C6	20:CT:79:ARG:NH1	2.75	0.54
12:AL:84:LEU:HB3	12:AL:101:VAL:CG2	2.37	0.54
11:AK:65:ALA:HB1	11:AK:98:LEU:CD2	2.37	0.54
8:CH:124:ALA:O	8:CH:128:GLY:N	2.38	0.54
11:AK:87:THR:HA	11:AK:91:ARG:CG	2.36	0.54
11:CK:102:GLY:O	11:CK:103:LEU:C	2.46	0.54
1:AA:920:U:C1'	1:AA:1080:A:C2	2.89	0.54
5:AE:43:LEU:CD2	5:AE:132:ALA:HB1	2.31	0.54
43:DI:13:GLY:O	43:DI:15:VAL:N	2.40	0.54
5:AE:147:ASP:CA	5:AE:150:ARG:HH11	2.14	0.54
1:CA:522:C:H2'	1:CA:523:A:C8	2.42	0.54
54:DX:65:ARG:CA	54:DX:65:ARG:NE	2.69	0.54
35:BA:2834:G:H5'	35:BA:2835:A:OP2	2.07	0.54
29:D3:4:LEU:HD21	29:D3:56:VAL:HG13	1.88	0.54
1:CA:1116:C:H2'	1:CA:1117:G:C4'	2.37	0.54
32:B6:20:ASN:HD22	32:B6:21:TYR:H	1.52	0.54
1:CA:102:G:H2'	1:CA:103:C:H6	1.71	0.54
38:BD:145:VAL:HB	38:BD:155:LEU:CB	2.38	0.54
1:CA:78:G:H22	1:CA:91:C:H42	1.53	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:469:G:O2'	35:BA:470:A:H5''	2.08	0.54
35:DA:1152:C:H1'	51:DU:77:SER:HB3	1.87	0.54
1:AA:659:U:H2'	1:AA:660:G:H8	1.72	0.54
1:CA:1298:C:C6	7:CG:114:ARG:NH1	2.75	0.54
38:BD:9:TYR:CD2	38:BD:10:THR:HG22	2.43	0.54
24:CX:17:U:O2'	24:CX:18:C:H5'	2.06	0.54
35:BA:202:U:H2'	35:BA:203:C:C6	2.43	0.54
35:BA:1876:A:H2'	35:BA:1877:A:H8	1.68	0.54
31:D5:29:THR:O	31:D5:42:PRO:HD3	2.07	0.54
1:AA:688:G:O2'	1:AA:689:C:H5'	2.06	0.54
56:BZ:105:VAL:O	56:BZ:141:VAL:HG13	2.06	0.54
43:DI:33:ARG:O	43:DI:35:LEU:HG	2.08	0.54
1:AA:76:C:H42	1:AA:93:G:H1	1.56	0.54
35:BA:37:C:H2'	35:BA:38:A:H8	1.73	0.54
1:AA:1417:G:H2'	1:AA:1482:G:N2	2.23	0.54
1:CA:189(F):U:O4	17:CQ:62:SER:HB3	2.06	0.54
38:DD:203:ASN:O	38:DD:204:ILE:O	2.24	0.54
1:CA:159:G:N1	1:CA:163:C:N4	2.56	0.54
2:CB:9:GLU:H	2:CB:9:GLU:CD	2.10	0.54
52:BV:58:VAL:HG12	52:BV:101:GLY:O	2.07	0.54
10:AJ:92:THR:HG23	10:AJ:93:GLY:N	2.22	0.54
35:BA:1596:A:H5'	35:BA:1597:A:OP2	2.07	0.54
35:DA:658:C:H2'	35:DA:659:C:H6	1.73	0.54
51:DU:51:LYS:HE2	51:DU:51:LYS:HA	1.88	0.54
35:BA:785:G:H2'	35:BA:786:C:C6	2.43	0.54
1:CA:971:G:H4'	1:CA:972:C:C5'	2.36	0.54
1:CA:920:U:C1'	1:CA:1080:A:C2	2.87	0.54
35:DA:729:G:HO2'	35:DA:763:G:H4'	1.71	0.54
50:BT:38:ASN:ND2	50:BT:40:THR:OG1	2.40	0.54
56:BZ:126:VAL:HG12	56:BZ:164:ALA:H	1.72	0.54
35:BA:2893:G:C5'	35:BA:2894:G:H5'	2.16	0.54
44:BN:10:GLU:CD	44:BN:11:PRO:HD2	2.27	0.54
51:BU:49:HIS:O	51:BU:52:ARG:HB2	2.07	0.54
28:B2:50:ILE:HG23	28:B2:54:LYS:CD	2.32	0.54
39:DE:47:VAL:HG12	39:DE:49:LEU:HD21	1.89	0.54
39:DE:55:ASN:O	39:DE:57:LYS:N	2.40	0.54
27:B1:14:VAL:HG22	27:B1:15:ALA:N	2.21	0.54
35:DA:70:G:H2'	35:DA:113:G:O2'	2.08	0.54
56:DZ:27:VAL:HG11	56:DZ:85:HIS:HE2	1.72	0.54
49:BS:69:VAL:HG13	49:BS:70:GLY:N	2.21	0.54
4:CD:108:LEU:HD11	4:CD:174:LEU:HD22	1.89	0.54
1:CA:1202:G:H2'	1:CA:1203:C:C5'	2.37	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:271(Q):G:H2'	35:DA:271(R):G:C8	2.43	0.54
27:D1:69:LYS:HZ2	35:DA:372:G:P	2.31	0.54
44:DN:65:LYS:HA	44:DN:65:LYS:CE	2.28	0.54
40:BF:84:VAL:O	40:BF:85:GLY:C	2.46	0.54
46:BP:23:PRO:O	46:BP:33:ARG:HG2	2.07	0.54
1:AA:1424:C:H2'	1:AA:1425:U:C6	2.40	0.54
20:AT:25:ARG:HH11	20:AT:25:ARG:HG3	1.73	0.54
35:BA:2846:G:H2'	35:BA:2847:U:H6	1.72	0.54
48:BR:13:HIS:O	48:BR:14:SER:O	2.26	0.54
48:BR:73:VAL:HG23	48:BR:74:LYS:CD	2.38	0.54
44:DN:32:THR:HG22	44:DN:37:LYS:HB3	1.88	0.54
35:DA:943:U:OP1	46:DP:38:GLN:HB3	2.08	0.54
35:DA:1202:C:H2'	35:DA:1203:G:H5'	1.88	0.54
35:BA:1884:A:C3'	35:BA:1885:A:H5''	2.37	0.54
4:AD:177:ASP:O	4:AD:180:GLY:N	2.40	0.54
4:AD:15:GLU:C	4:AD:17:VAL:H	2.08	0.54
6:AF:58:GLY:O	6:AF:60:PHE:CD1	2.60	0.54
2:AB:89:GLY:O	2:AB:154:LEU:HD13	2.07	0.54
25:CY:164:ILE:CD1	25:CY:164:ILE:H	2.17	0.54
1:CA:1269:A:H2	1:CA:1312:G:N3	2.04	0.54
13:CM:92:HIS:CE1	13:CM:98:VAL:HG21	2.42	0.54
35:BA:744:G:OP1	39:BE:132:HIS:HB3	2.07	0.54
1:AA:552:U:H4'	12:AL:87:GLY:H	1.72	0.54
11:CK:27:ASN:OD1	11:CK:28:THR:N	2.41	0.54
35:DA:2248:C:H2'	35:DA:2249:U:H5'	1.90	0.54
13:AM:108:ARG:H	13:AM:108:ARG:CD	2.12	0.54
29:B3:51:ALA:O	29:B3:53:LEU:N	2.39	0.54
1:CA:527:G:C2'	1:CA:528:C:H5'	2.37	0.54
9:CI:77:ILE:HG23	9:CI:81:ILE:HD11	1.90	0.54
5:CE:150:ARG:HB2	5:CE:150:ARG:HH11	1.69	0.54
35:BA:549:G:C3'	35:BA:551:G:H5''	2.38	0.54
35:BA:549:G:H2'	35:BA:551:G:C4'	2.37	0.54
54:BX:21:PHE:HE1	54:BX:26:TYR:HB3	1.71	0.54
31:B5:12:SER:O	31:B5:13:LYS:C	2.45	0.54
35:DA:768:G:H2'	35:DA:769:G:H8	1.72	0.54
35:DA:322:A:OP2	40:DF:169:ASN:HB2	2.07	0.54
1:CA:1053:G:C3'	1:CA:1054:C:H5'	2.38	0.54
26:D0:29:GLN:HB2	26:D0:67:VAL:CG2	2.37	0.54
35:BA:120:U:H1'	35:BA:149:A:N7	2.22	0.54
35:BA:2097:C:O2'	35:BA:2098:U:H5'	2.08	0.54
3:CC:86:VAL:O	3:CC:89:GLU:HB3	2.08	0.54
39:BE:38:THR:HG23	39:BE:39:PRO:HD2	1.88	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:635:C:O2'	35:DA:636:G:H5'	2.07	0.54
25:CY:53:ASN:OD1	25:CY:54:GLN:HG3	2.07	0.54
1:AA:1096:C:H5''	2:AB:137:ARG:NH2	2.23	0.54
35:BA:2462:U:O2'	35:BA:2463:C:H5'	2.07	0.54
43:BI:49:ALA:HA	43:BI:52:ARG:CG	2.38	0.54
31:D5:29:THR:HG21	35:DA:2814:C:O2'	2.07	0.54
3:CC:76:VAL:HG23	3:CC:77:ILE:N	2.22	0.54
3:AC:56:ASP:O	3:AC:57:ILE:HG13	2.08	0.54
35:BA:985:C:H2'	35:BA:985:C:O2	2.08	0.54
35:DA:1907:G:O2'	35:DA:1908:C:H5'	2.07	0.54
35:DA:2842:G:O2'	35:DA:2843:G:H5'	2.07	0.54
1:CA:946:A:H2'	1:CA:947:G:H8	1.70	0.54
35:BA:1684:C:H42	35:BA:1704:G:H1	1.55	0.54
3:CC:35:GLU:O	3:CC:39:ILE:HG13	2.07	0.54
35:DA:66:C:H2'	35:DA:67:U:C5'	2.38	0.54
35:DA:66:C:H2'	35:DA:67:U:H5'	1.89	0.54
35:DA:750:A:H2'	35:DA:751:A:H5''	1.90	0.54
15:CO:75:PRO:O	15:CO:79:ARG:HG3	2.08	0.54
26:D0:19:LYS:C	26:D0:20:ARG:HD3	2.27	0.54
35:DA:363(A):A:N3	35:DA:363(A):A:H2'	2.21	0.54
35:DA:271(N):U:H5''	35:DA:271(O):C:H5'	1.89	0.54
35:BA:1685:C:H2'	35:BA:1686:C:H6	1.70	0.54
40:DF:143:ALA:O	40:DF:146:ALA:HB3	2.07	0.54
1:AA:1525:G:O2'	1:AA:1526:G:H5'	2.07	0.54
35:BA:1272:A:OP2	35:BA:1647:G:OP1	2.25	0.54
57:DC:65:PRO:HG2	57:DC:189:ILE:HA	1.89	0.54
35:BA:532:A:N3	35:BA:532:A:H2'	2.21	0.54
35:DA:2863:C:C3'	35:DA:2864:G:H5''	2.38	0.54
38:DD:208:LYS:O	38:DD:210:GLY:O	2.25	0.54
38:DD:264:LYS:HG3	38:DD:265:PRO:HD2	1.89	0.54
46:BP:64:LYS:C	46:BP:66:GLY:N	2.60	0.54
35:BA:2725:A:O2'	35:BA:2726:U:H2'	2.08	0.54
1:AA:1442(A):G:H21	50:BT:119:LYS:N	2.05	0.54
56:BZ:48:PHE:O	56:BZ:50:GLN:N	2.40	0.54
44:BN:42:TRP:N	51:BU:64:ARG:HH12	2.05	0.54
51:BU:91:ASP:OD2	51:BU:96:ALA:HA	2.07	0.54
54:BX:77:LYS:HD3	54:BX:78:LYS:HG3	1.90	0.54
2:AB:219:VAL:C	2:AB:222:ILE:HG22	2.28	0.54
34:B8:60:LEU:HD23	34:B8:60:LEU:N	2.23	0.54
54:DX:77:LYS:HD3	54:DX:78:LYS:HG3	1.89	0.54
52:DV:22:VAL:O	52:DV:23:GLU:CB	2.55	0.54
3:CC:147:LYS:HB3	3:CC:203:PHE:CE2	2.43	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
55:BY:43:ASN:O	55:BY:44:ILE:O	2.26	0.54
3:CC:134:ILE:O	3:CC:137:ALA:HB3	2.06	0.54
40:BF:114:VAL:O	40:BF:117:ARG:N	2.41	0.54
35:DA:422:A:H2'	35:DA:423:A:C8	2.42	0.54
35:BA:1581:G:H2'	35:BA:1582:C:O4'	2.07	0.54
48:BR:37:THR:HG23	48:BR:40:LYS:HE2	1.90	0.54
18:CR:26:LEU:HD21	18:CR:42:ARG:CZ	2.38	0.54
35:DA:2061:G:OP1	40:DF:68:LYS:NZ	2.40	0.54
35:DA:668:G:O6	35:DA:670:A:H2'	2.08	0.54
1:AA:436:C:O2'	1:AA:437:U:P	2.65	0.54
19:AS:36:ARG:HH12	19:AS:75:ALA:CB	2.20	0.54
18:AR:74:ARG:HA	18:AR:79:LEU:HB2	1.89	0.54
12:CL:86:ARG:CG	12:CL:87:GLY:N	2.71	0.54
35:DA:1411:C:O2'	35:DA:1412:A:H8	1.90	0.54
35:DA:2645:G:C3'	35:DA:2646:C:H5'	2.27	0.54
1:AA:865:A:H5'	1:AA:1078:U:C5	2.43	0.54
43:DI:3:VAL:HG12	43:DI:37:VAL:O	2.06	0.54
9:CI:10:ARG:O	9:CI:11:LYS:HB3	2.07	0.54
12:AL:119:LYS:C	12:AL:121:GLY:H	2.09	0.54
9:CI:28:VAL:HG12	9:CI:29:ASN:H	1.69	0.54
46:DP:124:LYS:HA	46:DP:143:GLY:CA	2.38	0.54
1:AA:491:G:H2'	1:AA:492:G:H8	1.73	0.54
31:B5:16:ARG:CG	31:B5:16:ARG:HH11	2.18	0.54
31:B5:20:ARG:O	31:B5:21:SER:C	2.46	0.54
1:AA:591:U:H2'	1:AA:592:G:H8	1.63	0.54
35:DA:2732:G:H3'	35:DA:2733:A:H5'	1.90	0.54
7:AG:135:VAL:HG12	7:AG:139:GLU:HG3	1.89	0.54
35:DA:1301:A:HO2'	35:DA:1302:A:P	2.30	0.54
20:CT:11:SER:HA	20:CT:13:LEU:HD12	1.90	0.54
35:DA:380:U:H2'	35:DA:381:G:C8	2.41	0.54
13:CM:68:GLY:HA2	13:CM:71:ARG:HB3	1.89	0.54
29:B3:41:PRO:HB3	35:BA:852:G:O2'	2.08	0.54
13:AM:23:TYR:HE1	13:AM:71:ARG:CB	2.20	0.54
1:CA:66:G:N2	1:CA:172:A:H2	2.05	0.54
35:BA:470:A:C2	35:BA:471:A:C4	2.96	0.54
4:CD:129:ASN:HB2	4:CD:131:ARG:NH2	2.22	0.54
19:CS:41:VAL:HB	19:CS:44:MET:CB	2.36	0.54
9:AI:11:LYS:C	9:AI:13:ALA:H	2.10	0.54
9:AI:11:LYS:O	9:AI:13:ALA:N	2.41	0.54
29:D3:59:VAL:CG1	29:D3:60:GLU:N	2.70	0.54
35:BA:1843:C:C1'	38:BD:255:LYS:HZ3	2.20	0.54
41:DG:170:ARG:HG3	41:DG:170:ARG:NH1	2.21	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:481:G:H1'	35:DA:506:G:H21	1.69	0.54
20:CT:54:LYS:HA	20:CT:57:ARG:NH1	2.22	0.54
1:AA:284:G:H2'	1:AA:285:G:C8	2.40	0.54
35:DA:893:C:H5	35:DA:894:C:C2	2.24	0.54
1:AA:1006:C:O2'	1:AA:1007:C:H5'	2.08	0.54
1:CA:751:U:C2'	1:CA:752:G:H5'	2.37	0.54
35:DA:1014:U:H2'	35:DA:1015:G:C8	2.43	0.54
3:AC:120:VAL:HA	3:AC:123:GLN:NE2	2.22	0.54
53:BW:34:ASN:HA	53:BW:37:ARG:HB3	1.88	0.54
1:AA:882:C:H2'	1:AA:883:C:H6	1.71	0.54
3:AC:20:SER:O	14:AN:54:PRO:HG3	2.07	0.54
50:DT:34:VAL:O	50:DT:34:VAL:HG12	2.07	0.54
2:AB:9:GLU:CD	2:AB:9:GLU:H	2.11	0.54
35:DA:2852:G:H2'	35:DA:2853:C:H6	1.70	0.54
45:DO:6:THR:CG2	45:DO:7:TYR:H	2.19	0.54
1:CA:972:C:H5'	10:CJ:57:LYS:HZ3	1.73	0.54
38:BD:268:ARG:HH12	38:BD:269:PHE:HE1	1.54	0.54
35:DA:1803:A:H4'	38:DD:259:THR:HG23	1.88	0.54
38:DD:35:LYS:HE2	38:DD:104:TYR:CG	2.42	0.54
38:DD:260:ARG:HG2	38:DD:260:ARG:HH11	1.73	0.54
38:DD:35:LYS:NZ	38:DD:104:TYR:HB2	2.22	0.54
10:CJ:36:GLY:O	10:CJ:72:VAL:HG22	2.06	0.54
35:BA:2632:A:H1'	39:BE:61:ARG:HH12	1.72	0.54
44:BN:42:TRP:CD2	44:BN:44:PRO:HD3	2.42	0.54
44:BN:43:THR:O	44:BN:45:ASN:N	2.40	0.54
42:DH:159:GLU:O	42:DH:160:LYS:HG2	2.08	0.54
14:AN:42:ILE:O	14:AN:43:CYS:C	2.44	0.54
28:B2:56:GLN:NE2	28:B2:56:GLN:HA	2.20	0.54
35:DA:1341:U:O3'	54:DX:55:ASN:HB3	2.07	0.54
42:BH:148:ILE:N	42:BH:148:ILE:HD13	2.22	0.54
42:BH:99:VAL:O	42:BH:101:ARG:N	2.40	0.54
52:DV:4:ILE:HA	52:DV:12:TYR:O	2.08	0.54
52:DV:18:LEU:HA	52:DV:97:LYS:HZ1	1.73	0.54
4:CD:30:LYS:HB3	4:CD:35:ARG:HH11	1.71	0.54
4:CD:18:LYS:HE3	4:CD:31:CYS:SG	2.48	0.54
46:DP:65:ARG:HH11	46:DP:65:ARG:HG3	1.72	0.54
35:BA:2059:A:H5'	35:BA:2060:A:OP2	2.07	0.54
35:BA:514:A:H2'	35:BA:515:A:C8	2.42	0.54
35:DA:2821:A:OP2	35:DA:2822:G:OP2	2.25	0.54
1:AA:328:C:C2'	1:AA:328:C:O2	2.56	0.54
1:AA:328:C:H4'	1:AA:329:A:C5'	2.36	0.54
50:BT:109:GLU:HA	50:BT:112:ARG:CD	2.38	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:DB:117:G:C5'	49:DS:55:ALA:HB1	2.38	0.54
44:BN:32:THR:HG23	44:BN:37:LYS:HB3	1.88	0.54
6:CF:60:PHE:O	6:CF:61:LEU:HD12	2.06	0.54
18:CR:71:LYS:O	18:CR:75:ILE:HG13	2.08	0.54
34:D8:49:VAL:CG1	34:D8:53:PRO:HD3	2.38	0.54
35:DA:251:A:H5''	46:DP:51:PHE:HZ	1.71	0.54
35:DA:666:G:H4'	46:DP:49:ARG:HH21	1.71	0.54
35:DA:833:U:H5''	46:DP:48:PRO:HB2	1.90	0.54
35:BA:1885:A:H3'	35:BA:1886:C:H6	1.72	0.54
18:AR:47:THR:HA	18:AR:83:GLU:O	2.07	0.54
43:BI:6:LEU:O	43:BI:15:VAL:HG12	2.08	0.54
1:CA:192:U:H4'	20:CT:102:GLY:O	2.07	0.54
17:CQ:29:HIS:CE1	17:CQ:31:LEU:HB3	2.43	0.54
51:BU:31:SER:C	51:BU:33:ARG:H	2.09	0.54
12:AL:60:LEU:H	12:AL:60:LEU:HD22	1.71	0.54
12:AL:60:LEU:HD23	12:AL:64:TYR:O	2.08	0.54
8:CH:83:ILE:O	8:CH:83:ILE:HG23	2.07	0.54
35:BA:2260:C:O2'	35:BA:2261:C:H5'	2.07	0.54
8:AH:63:LEU:HB3	8:AH:65:TYR:CE1	2.42	0.54
12:CL:60:LEU:O	12:CL:62:SER:N	2.39	0.54
42:BH:65:HIS:ND1	42:BH:66:GLY:N	2.56	0.54
13:AM:22:ILE:HG21	13:AM:25:ILE:HD12	1.90	0.54
17:CQ:71:PHE:CD2	17:CQ:71:PHE:N	2.76	0.54
40:DF:168:ARG:HA	40:DF:175:THR:HG21	1.90	0.54
32:D6:15:GLU:O	32:D6:16:CYS:SG	2.61	0.54
53:DW:17:VAL:O	53:DW:19:LEU:N	2.41	0.54
35:DA:1036:G:O2'	35:DA:1037:G:H5'	2.08	0.54
3:CC:125:GLU:CG	3:CC:189:ALA:HA	2.38	0.54
19:CS:49:ILE:N	19:CS:49:ILE:HD12	2.22	0.54
35:DA:132:G:O2'	35:DA:133:C:H5'	2.08	0.54
1:CA:1253:G:H2'	1:CA:1254:C:H6	1.73	0.54
35:BA:2345:G:H5''	35:BA:2347:C:O4'	2.07	0.54
15:AO:33:THR:HG23	15:AO:63:ARG:NH1	2.23	0.54
15:AO:39:LEU:HD13	15:AO:39:LEU:O	2.08	0.54
35:DA:1717:G:C3'	35:DA:1718:G:H5''	2.34	0.54
1:CA:1089:G:O2'	1:CA:1090:U:H5'	2.08	0.54
45:BO:97:ARG:HH11	45:BO:97:ARG:HG3	1.72	0.54
35:DA:360:G:O2'	35:DA:361:G:H5'	2.08	0.54
38:DD:9:TYR:HD2	38:DD:10:THR:HG22	1.73	0.54
35:DA:648:G:H4'	35:DA:2351:G:H5''	1.89	0.54
1:AA:1523:G:C5	1:AA:1524:C:C5	2.95	0.54
45:DO:87:ILE:CG2	45:DO:88:ASN:N	2.71	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1243:C:OP2	21:CU:10:ARG:CZ	2.55	0.54
55:DY:49:VAL:O	55:DY:53:PRO:HG3	2.07	0.54
10:CJ:22:LYS:NZ	10:CJ:23:ILE:HG12	2.22	0.54
1:CA:927:G:H2'	1:CA:928:G:H8	1.71	0.54
35:DA:2111:C:H1'	35:DA:2118:U:O4'	2.08	0.54
51:BU:24:TYR:HB2	51:BU:29:SER:HB3	1.90	0.54
1:CA:519:C:O2'	1:CA:520:A:H5'	2.08	0.54
35:DA:271(J):C:C3'	35:DA:271(K):U:H5''	2.38	0.54
57:DC:76:ALA:H	57:DC:94:VAL:HG13	1.73	0.54
35:DA:1362:C:O2'	35:DA:1363:C:H5'	2.08	0.54
22:AV:36:A:N1	24:AX:16:U:C4	2.75	0.54
1:CA:1043:C:H2'	1:CA:1044:A:H8	1.73	0.54
38:DD:69:ARG:HD3	38:DD:105:ILE:HD12	1.88	0.54
35:DA:2854:G:H2'	35:DA:2855:C:H6	1.68	0.54
50:DT:107:ASP:OD2	50:DT:109:GLU:HG3	2.07	0.54
50:DT:28:VAL:HG11	50:DT:46:GLU:OE1	2.07	0.54
1:CA:973:G:H1'	10:CJ:54:PHE:CE1	2.43	0.54
35:BA:1811:G:O2'	35:BA:1812:A:H5'	2.07	0.54
35:BA:1952:A:C5	45:BO:22:ILE:HD12	2.43	0.54
45:BO:34:THR:O	45:BO:35:VAL:C	2.46	0.54
50:BT:120:ARG:HA	50:BT:123:GLN:HG2	1.90	0.54
50:BT:50:ILE:HD12	50:BT:50:ILE:N	2.21	0.54
50:BT:65:LYS:HA	50:BT:65:LYS:HZ1	1.69	0.54
35:DA:2569:G:O2'	35:DA:2570:G:H5'	2.07	0.54
35:DA:2578:G:H1'	39:DE:139:GLY:O	2.08	0.54
39:BE:64:LYS:C	39:BE:66:HIS:N	2.61	0.54
28:B2:29:LYS:HZ2	54:BX:9:LEU:HA	1.71	0.54
27:B1:10:LYS:HG3	27:B1:11:ARG:H	1.73	0.54
41:BG:172:LEU:HA	41:BG:175:LEU:HD12	1.88	0.54
35:DA:58:G:H1	35:DA:69:C:H42	1.55	0.54
42:BH:151:ILE:N	42:BH:151:ILE:HD13	2.22	0.54
56:DZ:10:ARG:HB2	56:DZ:37:VAL:HA	1.90	0.54
29:D3:32:GLN:HB2	35:DA:1158:C:H4'	1.90	0.54
51:DU:65:ILE:HD12	51:DU:65:ILE:H	1.73	0.54
3:CC:182:ILE:HG23	3:CC:203:PHE:N	2.22	0.54
49:BS:27:SER:N	49:BS:38:GLN:O	2.41	0.54
35:BA:1244:G:O2'	35:BA:1245:G:H5'	2.08	0.54
40:BF:184:TYR:CD2	40:BF:185:ASP:N	2.75	0.54
39:BE:116:VAL:CG2	39:BE:117:MET:N	2.71	0.54
39:BE:141:ILE:HG12	39:BE:142:GLY:H	1.72	0.54
39:BE:119:ARG:NH1	39:BE:159:HIS:O	2.41	0.54
35:BA:668:G:O6	35:BA:670:A:H2'	2.07	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:DF:20:LEU:HD12	40:DF:199:TRP:CH2	2.42	0.54
55:BY:76:CYS:HB3	55:BY:96:ILE:HD11	1.89	0.54
35:DA:1452:A:O2'	35:DA:1453:U:H2'	2.08	0.54
35:BA:1281:G:H1	35:BA:1286:A:N6	2.06	0.54
50:BT:109:GLU:CB	50:BT:113:LYS:HE3	2.24	0.54
36:DB:56:G:H4'	36:DB:57:A:C8	2.43	0.54
43:BI:68:LEU:HG	43:BI:72:LEU:HD23	1.90	0.54
47:BQ:114:ALA:C	47:BQ:116:GLU:N	2.60	0.54
44:BN:26:LEU:HG	44:BN:30:ILE:HD11	1.89	0.54
45:BO:114:ILE:HD12	45:BO:114:ILE:N	2.04	0.54
2:CB:69:LEU:HB3	2:CB:162:ILE:CG2	2.38	0.54
6:AF:8:ILE:HD13	6:AF:26:ILE:HD13	1.89	0.54
18:AR:32:ARG:HA	18:AR:69:THR:HG21	1.90	0.54
1:CA:1402:C:O2'	1:CA:1403:C:H5'	2.08	0.54
51:DU:26:GLY:C	51:DU:28:ARG:N	2.60	0.54
2:AB:144:ARG:HG3	2:AB:145:LEU:N	2.22	0.54
12:CL:84:LEU:HB3	12:CL:101:VAL:CG2	2.38	0.54
43:BI:4:ILE:O	43:BI:36:ALA:HB1	2.06	0.54
12:CL:9:GLN:O	12:CL:12:ARG:N	2.39	0.54
33:B7:34:ARG:HE	33:B7:39:ARG:NE	2.06	0.54
5:AE:39:GLY:C	5:AE:69:VAL:HB	2.28	0.54
12:AL:90:VAL:C	12:AL:92:ASP:H	2.11	0.54
16:CP:48:TRP:CE3	16:CP:49:LEU:HB3	2.42	0.54
40:BF:9:ILE:HG12	40:BF:14:PRO:C	2.28	0.54
38:DD:133:LEU:O	38:DD:134:ARG:C	2.46	0.54
11:CK:34:ASP:HB3	11:CK:40:ILE:HD11	1.90	0.54
1:AA:237:C:H5''	17:AQ:25:ARG:NH1	2.22	0.54
1:AA:237:C:O2'	1:AA:238:G:H5'	2.07	0.54
39:DE:131:ALA:HB1	39:DE:134:ILE:HD11	1.89	0.54
13:CM:3:ARG:HA	13:CM:9:ILE:CG1	2.37	0.54
35:BA:1299:G:H5''	35:BA:1300:U:OP1	2.08	0.54
4:CD:5:ILE:CG2	4:CD:6:GLY:H	2.13	0.54
35:DA:2462:U:O2'	35:DA:2463:C:H5'	2.08	0.54
11:AK:17:GLY:HA3	11:AK:79:SER:O	2.07	0.54
10:AJ:32:ALA:HB1	10:AJ:75:ILE:HG13	1.89	0.54
10:AJ:33:GLN:O	10:AJ:75:ILE:HG23	2.08	0.54
45:DO:13:ASN:HD22	45:DO:97:ARG:CB	2.20	0.54
7:CG:25:ALA:HA	7:CG:28:ASN:HD22	1.72	0.54
1:CA:240:C:H2'	1:CA:241:C:H6	1.73	0.54
3:CC:19:GLU:O	3:CC:56:ASP:HA	2.08	0.54
1:AA:473:G:OP1	16:AP:81:ARG:HB2	2.07	0.54
29:B3:27:GLY:O	29:B3:35:ARG:HD2	2.07	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:AY:78:ALA:HA	25:AY:81:LYS:CG	2.38	0.54
1:CA:968:A:H4'	1:CA:969:A:OP2	2.07	0.54
35:BA:1490:A:H5'	35:BA:1491:G:OP2	2.07	0.54
18:CR:30:ASP:C	18:CR:32:ARG:H	2.11	0.54
37:BC:170:ALA:C	37:BC:172:HIS:H	2.11	0.54
1:AA:859:A:H2'	1:AA:860:A:O4'	2.06	0.54
1:AA:1131:G:H2'	1:AA:1132:C:C6	2.42	0.54
41:BG:150:ASP:O	41:BG:151:ALA:HB2	2.08	0.54
3:AC:118:GLN:O	3:AC:122:GLU:HG3	2.08	0.54
35:BA:952:G:C6	35:BA:953:A:N7	2.76	0.54
13:AM:61:GLU:O	13:AM:61:GLU:HG2	2.07	0.54
6:AF:100:ASN:H	18:AR:23:LYS:NZ	2.05	0.54
3:CC:118:GLN:O	3:CC:122:GLU:HG3	2.08	0.54
35:BA:2828:C:H2'	35:BA:2829:C:C6	2.42	0.54
1:CA:506:G:H2'	1:CA:507:C:C6	2.42	0.54
1:CA:574:A:N3	1:CA:883:C:H1'	2.22	0.54
45:DO:34:THR:O	45:DO:35:VAL:C	2.46	0.54
1:CA:980:C:H5'	1:CA:981:U:C5	2.43	0.54
14:CN:37:PHE:HE1	14:CN:53:LEU:HD22	1.73	0.54
35:BA:1778:U:H2'	35:BA:1779:U:C6	2.43	0.54
35:DA:1820:U:C2	38:DD:202:LYS:HB3	2.43	0.54
10:CJ:7:LYS:HG2	10:CJ:71:LEU:HD13	1.89	0.54
39:BE:55:ASN:O	39:BE:57:LYS:N	2.41	0.54
35:BA:534:U:H2'	35:BA:535:C:C6	2.43	0.54
52:BV:2:PHE:HB2	52:BV:42:GLY:O	2.07	0.54
14:AN:39:LEU:HD11	14:AN:47:LEU:HD12	1.89	0.54
28:B2:57:ILE:O	28:B2:57:ILE:CG1	2.56	0.54
39:DE:77:ILE:HG22	39:DE:79:ARG:HD2	1.89	0.54
54:DX:7:VAL:HA	54:DX:31:HIS:HB2	1.89	0.54
52:DV:2:PHE:HB3	52:DV:42:GLY:CA	2.30	0.54
52:DV:5:VAL:CG2	52:DV:36:PRO:HB2	2.35	0.54
35:DA:1884:A:C3'	35:DA:1885:A:H5''	2.37	0.54
10:AJ:16:LEU:HD13	10:AJ:16:LEU:O	2.07	0.54
19:CS:9:VAL:HG12	19:CS:9:VAL:O	2.08	0.54
47:BQ:20:ALA:CB	47:BQ:99:PRO:O	2.56	0.54
35:BA:260:G:N2	35:BA:261:G:H1'	2.23	0.54
35:BA:623:G:H2'	35:BA:624:C:C6	2.41	0.54
35:BA:2578:G:H1'	39:BE:139:GLY:O	2.08	0.54
27:D1:51:VAL:O	27:D1:60:PHE:N	2.41	0.54
27:D1:83:GLU:HG3	27:D1:86:SER:HB2	1.90	0.54
48:DR:37:THR:OG1	48:DR:40:LYS:HG3	2.07	0.54
48:BR:74:LYS:HA	48:BR:77:ARG:HD2	1.90	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:BR:55:ALA:HB1	48:BR:84:ALA:HB2	1.87	0.54
36:DB:7:G:H4'	49:DS:29:PHE:HE2	1.71	0.54
49:DS:69:VAL:HG13	49:DS:70:GLY:N	2.22	0.54
18:CR:75:ILE:C	18:CR:76:LEU:HD22	2.28	0.54
1:AA:428:G:O4'	1:AA:430:A:C8	2.61	0.54
4:AD:104:VAL:O	4:AD:108:LEU:HD13	2.08	0.54
4:AD:105:VAL:CG2	4:AD:126:ILE:HD13	2.36	0.54
1:AA:1220:G:O2'	1:AA:1221:G:H5'	2.08	0.54
1:AA:1320:C:H2'	1:AA:1321:C:O4'	2.08	0.54
27:B1:34:THR:HG21	35:BA:388:G:P	2.48	0.54
35:DA:583:G:OP2	51:DU:10:ARG:NH1	2.40	0.54
1:AA:451:A:N6	1:AA:480:U:H2'	2.23	0.54
11:AK:65:ALA:HB1	11:AK:98:LEU:HD23	1.90	0.54
35:BA:692:C:H2'	35:BA:693:C:H6	1.71	0.54
43:DI:6:LEU:O	43:DI:7:GLU:C	2.46	0.54
8:AH:45:ILE:HA	8:AH:64:LYS:CB	2.37	0.54
8:CH:28:ALA:HA	8:CH:59:LEU:HG	1.88	0.54
5:AE:150:ARG:NH1	5:AE:150:ARG:CB	2.68	0.54
35:BA:354:G:H8	35:BA:354:G:O5'	1.90	0.54
54:DX:25:LYS:NZ	54:DX:87:GLN:O	2.40	0.54
9:CI:73:GLN:O	9:CI:77:ILE:HG13	2.08	0.54
1:AA:1170:A:H2'	1:AA:1171:G:H5'	1.90	0.54
35:DA:1234:U:O2	35:DA:1234:U:H2'	2.07	0.54
2:AB:175:ARG:O	2:AB:176:GLU:C	2.45	0.54
17:CQ:48:GLU:O	17:CQ:49:GLU:C	2.46	0.54
5:AE:80:ILE:HD11	5:AE:91:LEU:HD22	1.89	0.54
7:CG:50:ILE:CB	7:CG:58:PRO:HD3	2.34	0.54
42:DH:155:SER:OG	42:DH:156:ALA:N	2.40	0.54
42:DH:157:TYR:HD1	42:DH:170:ARG:O	1.90	0.54
5:CE:105:VAL:HB	5:CE:106:PRO:CD	2.38	0.54
3:CC:83:ARG:O	3:CC:86:VAL:HG22	2.08	0.54
5:CE:35:GLY:HA2	5:CE:41:VAL:HG12	1.87	0.54
13:AM:23:TYR:OH	13:AM:71:ARG:HD3	2.07	0.54
35:DA:1685:C:H2'	35:DA:1686:C:H6	1.73	0.54
1:CA:280:C:C4	17:CQ:91:ARG:NH2	2.75	0.54
35:DA:2464:C:O2'	35:DA:2465:C:H6	1.90	0.54
38:DD:9:TYR:O	38:DD:10:THR:HG22	2.07	0.54
55:BY:49:VAL:O	55:BY:50:ARG:HB2	2.08	0.54
55:BY:49:VAL:O	55:BY:53:PRO:HG3	2.07	0.54
35:DA:1405:U:H2'	35:DA:1406:U:H6	1.71	0.54
57:DC:22:ILE:CG2	57:DC:25:ALA:HB2	2.38	0.54
1:AA:1155:G:C2'	1:AA:1156:G:H5'	2.38	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:B3:3:ARG:HA	29:B3:38:GLU:HA	1.88	0.54
16:AP:80:PHE:HD1	16:AP:80:PHE:H	1.56	0.54
25:CY:57:THR:HG22	25:CY:59:THR:HG23	1.89	0.54
35:BA:1469:A:H2'	35:BA:1470:G:O4'	2.06	0.54
1:CA:831:U:H2'	1:CA:832:C:H6	1.72	0.54
35:BA:271(G):C:O2'	35:BA:271(H):G:H5'	2.08	0.54
35:BA:1184:G:O2'	35:BA:1185:C:H5'	2.08	0.54
3:AC:35:GLU:O	3:AC:39:ILE:HG13	2.06	0.54
1:AA:38:G:C2	1:AA:397:A:C2	2.96	0.54
46:BP:132:LYS:O	46:BP:136:GLU:HG2	2.07	0.54
35:DA:52:A:O2'	35:DA:53:A:H5'	2.08	0.54
1:AA:611:A:O2'	1:AA:612:C:H5'	2.08	0.54
35:DA:1396:U:H2'	35:DA:1396:U:O2	2.07	0.54
35:BA:1396:U:O2	35:BA:1396:U:H2'	2.07	0.54
35:BA:88:G:H2'	35:BA:88:G:N3	2.23	0.54
50:DT:110:ILE:HA	50:DT:113:LYS:HD2	1.89	0.54
14:CN:41:ARG:HG3	14:CN:42:ILE:H	1.72	0.54
35:BA:1828:G:O6	38:BD:222:ARG:HD3	2.08	0.54
38:BD:229:VAL:HG23	38:BD:230:ASP:N	2.21	0.54
1:CA:865:A:H2'	1:CA:866:C:C6	2.43	0.54
36:DB:42:C:N4	41:DG:91:ARG:NH2	2.55	0.54
32:B6:9:LEU:HD23	32:B6:10:LEU:N	2.23	0.54
35:BA:2682:U:C2	39:BE:22:PRO:HB3	2.43	0.54
50:BT:62:THR:HB	50:BT:74:ARG:O	2.07	0.54
56:BZ:70:LEU:O	56:BZ:88:PHE:HD2	1.91	0.54
35:DA:2632:A:H1'	39:DE:61:ARG:HH12	1.73	0.54
41:BG:41:GLN:HE21	41:BG:153:ARG:HB3	1.72	0.54
41:BG:76:SER:HB3	41:BG:84:LYS:HD2	1.89	0.54
41:BG:31:VAL:HG22	41:BG:32:PRO:HD2	1.90	0.54
42:BH:159:GLU:O	42:BH:160:LYS:HG2	2.08	0.54
51:DU:107:ALA:O	51:DU:111:GLU:HG2	2.08	0.54
10:AJ:7:LYS:HG2	10:AJ:71:LEU:HD13	1.89	0.54
49:BS:40:ILE:HG23	49:BS:46:VAL:O	2.08	0.54
40:BF:20:LEU:HD12	40:BF:199:TRP:CH2	2.42	0.54
40:BF:30:PRO:O	40:BF:33:LEU:HB3	2.08	0.54
35:BA:2512:C:H4'	39:BE:122:PHE:CE2	2.43	0.54
27:D1:62:VAL:CG2	27:D1:63:ALA:N	2.71	0.54
35:BA:575:A:O2'	35:BA:576:U:H5'	2.08	0.54
35:BA:869:G:H1'	47:BQ:8:LYS:HZ2	1.70	0.54
20:AT:36:LEU:N	20:AT:36:LEU:HD22	2.18	0.54
35:BA:1451:C:H4'	35:BA:1452:A:C8	2.43	0.54
36:DB:51:G:H2'	36:DB:52:A:O4'	2.07	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:CF:100:ASN:O	6:CF:101:ALA:O	2.25	0.54
46:DP:38:GLN:O	46:DP:39:LYS:HB2	2.08	0.54
4:AD:150:GLU:HA	4:AD:153:ARG:CD	2.38	0.54
1:AA:545:C:O2'	1:AA:546:G:H5'	2.08	0.54
4:AD:65:ARG:NH1	4:AD:72:GLU:N	2.56	0.54
1:CA:1521:G:C6	1:CA:1522:U:C4	2.96	0.54
1:AA:939:G:H5''	7:AG:102:ARG:CZ	2.36	0.54
25:CY:113:ASP:O	25:CY:116:ARG:HG3	2.08	0.54
25:CY:24:ASN:HB3	25:CY:121:TYR:CD1	2.43	0.54
43:BI:15:VAL:O	43:BI:16:GLY:C	2.45	0.54
1:CA:191:G:C4	20:CT:105:SER:HB3	2.42	0.54
25:AY:127:VAL:HA	25:AY:130:ARG:HB2	1.89	0.54
35:BA:2020:A:N1	35:BA:2034:U:O4	2.41	0.54
1:AA:706:A:C5	1:AA:707:C:C5	2.94	0.54
3:CC:171:GLY:O	3:CC:172:ARG:O	2.26	0.54
5:AE:129:ILE:O	5:AE:132:ALA:N	2.40	0.54
1:AA:511:C:C2	1:AA:512:U:C5	2.95	0.54
35:BA:2536:G:C6	35:BA:2537:U:N3	2.76	0.54
12:CL:58:VAL:O	12:CL:60:LEU:HD22	2.08	0.54
35:BA:271(D):G:H1	35:BA:271(T):C:N4	1.80	0.54
29:B3:50:VAL:O	29:B3:51:ALA:C	2.46	0.54
1:CA:512:U:H2'	1:CA:513:C:C6	2.43	0.54
35:BA:1174:A:H5''	35:BA:1175:U:H5''	1.89	0.54
15:CO:11:VAL:HG13	15:CO:15:PHE:HE1	1.73	0.54
46:BP:95:VAL:HG23	46:BP:95:VAL:O	2.08	0.54
1:CA:1413:A:O2'	1:CA:1414:U:H5'	2.07	0.54
1:CA:115:G:O2'	1:CA:116:A:OP2	2.23	0.54
16:CP:28:ARG:NH1	16:CP:28:ARG:HG2	2.22	0.54
32:D6:36:LEU:HD13	32:D6:50:ARG:HH12	1.71	0.54
38:DD:145:VAL:O	38:DD:153:ALA:HB1	2.08	0.54
1:AA:831:U:H2'	1:AA:832:C:H6	1.73	0.54
12:CL:21:LYS:N	12:CL:21:LYS:HD2	2.19	0.54
1:AA:1276:G:H2'	1:AA:1277:C:H5'	1.89	0.54
35:BA:860:U:O2'	35:BA:861:A:H5'	2.08	0.54
35:BA:174:C:H2'	35:BA:174:C:O2	2.08	0.54
35:DA:2643:G:O2'	35:DA:2644:G:H5'	2.08	0.54
35:DA:503:A:C6	35:DA:505:A:C6	2.96	0.54
4:CD:80:GLU:HB3	4:CD:84:LYS:HZ1	1.73	0.54
35:DA:2007:C:H2'	35:DA:2008:C:C6	2.41	0.54
40:BF:197:ASP:OD1	40:BF:198:ALA:N	2.41	0.54
35:BA:7:G:H4'	44:BN:13:TRP:HH2	1.67	0.54
7:AG:20:ASP:HB3	7:AG:23:VAL:HG23	1.89	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2037:G:H2'	35:DA:2038:G:H8	1.73	0.54
1:CA:189(H):G:H2'	1:CA:189(I):G:C8	2.40	0.54
40:DF:22:ALA:CA	40:DF:26:ALA:HB2	2.37	0.54
11:CK:125:PHE:N	11:CK:125:PHE:HD1	2.06	0.54
5:AE:15:ARG:HG2	5:AE:26:PHE:CD2	2.42	0.54
35:BA:2870:C:H2'	35:BA:2871:C:H5'	1.90	0.54
35:BA:1744:C:C2'	35:BA:1745:C:H5'	2.38	0.54
35:BA:1918:A:O2'	35:BA:1920:C:N4	2.41	0.54
1:AA:309:G:O2'	1:AA:310:G:H5'	2.08	0.54
1:AA:1043:C:H2'	1:AA:1044:A:C8	2.41	0.54
51:BU:51:LYS:HE2	51:BU:51:LYS:HA	1.89	0.54
35:BA:2780:G:OP1	44:BN:118:LYS:HE2	2.07	0.54
1:AA:272:C:O2'	1:AA:273:A:H5'	2.08	0.54
45:DO:68:GLU:N	45:DO:68:GLU:OE2	2.41	0.54
16:AP:20:VAL:HG22	16:AP:21:VAL:N	2.20	0.54
35:DA:2571:C:O2	35:DA:2571:C:H2'	2.07	0.54
35:DA:1495:A:OP2	35:DA:1495:A:C8	2.61	0.54
42:DH:118:PRO:HG2	42:DH:121:ILE:HD12	1.90	0.54
28:B2:50:ILE:O	28:B2:51:ARG:CB	2.56	0.54
39:DE:32:PRO:O	39:DE:34:VAL:HG13	2.08	0.54
41:BG:85:GLY:C	41:BG:87:PRO:CD	2.77	0.54
28:D2:12:GLU:O	28:D2:12:GLU:CG	2.56	0.54
56:DZ:99:TYR:HA	56:DZ:124:ILE:O	2.07	0.54
10:AJ:34:VAL:HG12	10:AJ:35:SER:N	2.22	0.54
19:CS:36:ARG:CZ	19:CS:72:GLY:HA2	2.38	0.54
4:CD:110:PHE:CD1	4:CD:110:PHE:N	2.75	0.54
4:CD:119:GLN:HG3	4:CD:123:HIS:CD2	2.39	0.54
40:BF:125:LEU:HB3	40:BF:196:LEU:HD21	1.89	0.54
25:AY:76:LEU:HD13	25:AY:97:ASP:O	2.08	0.54
35:BA:2512:C:H2'	35:BA:2513:G:O4'	2.08	0.54
35:BA:2571:C:H5'	35:BA:2572:A:H5'	1.88	0.54
35:BA:671:C:C5	46:BP:36:LYS:NZ	2.75	0.54
46:BP:48:PRO:O	46:BP:51:PHE:N	2.41	0.54
52:BV:82:ARG:NH1	52:BV:84:LYS:HD3	2.22	0.54
40:DF:107:LYS:O	40:DF:110:LEU:N	2.41	0.54
35:BA:1637:A:H2'	35:BA:1638:C:C6	2.43	0.54
36:DB:30:C:H2'	36:DB:31:C:O4'	2.08	0.54
41:DG:20:ILE:CD1	41:DG:25:TYR:HB2	2.38	0.54
49:DS:93:LYS:HD2	49:DS:93:LYS:O	2.08	0.54
35:DA:2079:U:H2'	35:DA:2080:G:C8	2.43	0.54
35:BA:8:A:H5''	44:BN:51:PHE:HZ	1.73	0.54
6:CF:70:ASP:CG	6:CF:71:ARG:H	2.09	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
18:CR:25:THR:O	18:CR:25:THR:HG22	2.07	0.54
2:CB:54:THR:HG22	2:CB:58:ILE:CD1	2.36	0.54
2:CB:68:ILE:HG22	2:CB:70:PHE:HD1	1.72	0.54
35:DA:673:C:H5'	40:DF:54:ARG:NH1	2.22	0.54
40:DF:84:VAL:O	40:DF:85:GLY:C	2.46	0.54
35:DA:1225:G:OP1	52:DV:88:ARG:HD2	2.07	0.54
43:DI:109:ILE:HD13	43:DI:111:PRO:HD3	1.89	0.54
6:AF:27:GLN:NE2	6:AF:27:GLN:HA	2.23	0.54
1:CA:1405:G:H1'	1:CA:1518:A:HO2'	1.72	0.54
43:BI:13:GLY:O	43:BI:15:VAL:N	2.41	0.54
1:CA:881:G:P	12:CL:12:ARG:NH2	2.81	0.54
12:AL:32:PHE:HD1	12:AL:86:ARG:HA	1.73	0.54
11:AK:21:ILE:CD1	11:AK:84:VAL:HG12	2.38	0.54
18:AR:87:ARG:HG2	18:AR:88:LYS:N	2.23	0.54
55:BY:16:ALA:HA	55:BY:21:LYS:HD2	1.90	0.54
23:AW:38:A:H2'	23:AW:39:A:C5'	2.38	0.54
5:CE:39:GLY:C	5:CE:69:VAL:HB	2.28	0.54
9:CI:105:ASP:C	9:CI:107:ARG:H	2.10	0.54
8:AH:65:TYR:HA	8:AH:79:VAL:HG23	1.90	0.54
8:AH:7:ALA:O	8:AH:8:ASP:C	2.45	0.54
42:BH:12:PRO:N	42:BH:15:VAL:HG21	2.23	0.54
33:D7:8:ASN:ND2	33:D7:9:ARG:N	2.52	0.54
35:DA:549:G:C3'	35:DA:551:G:H5''	2.37	0.54
38:BD:134:ARG:O	38:BD:136:ILE:N	2.40	0.54
46:BP:83:VAL:HG23	46:BP:105:LEU:HD22	1.88	0.54
40:BF:178:PRO:HG2	40:BF:179:GLU:N	2.16	0.54
1:AA:968:A:H4'	1:AA:969:A:OP2	2.07	0.54
1:CA:385:C:H2'	1:CA:386:C:H6	1.73	0.54
20:CT:26:ASN:HD22	20:CT:27:LYS:H	1.55	0.54
38:DD:146:GLU:CA	38:DD:153:ALA:HA	2.34	0.54
13:CM:28:ALA:C	13:CM:30:ALA:H	2.11	0.54
1:CA:9:G:H2'	1:CA:10:A:C8	2.43	0.54
1:CA:732:C:H2'	1:CA:733:A:H5''	1.89	0.54
13:AM:68:GLY:HA2	13:AM:71:ARG:HB3	1.90	0.54
19:AS:42:PRO:C	19:AS:44:MET:H	2.11	0.54
35:BA:292:C:H2'	35:BA:292:C:O2	2.07	0.54
13:AM:28:ALA:C	13:AM:30:ALA:H	2.09	0.54
1:AA:903:G:H2'	1:AA:904:C:C6	2.39	0.54
1:AA:1242:C:O5'	1:AA:1242:C:H6	1.90	0.54
46:DP:140:ALA:O	46:DP:141:ALA:HB3	2.08	0.54
35:BA:2233:U:H2'	35:BA:2234:G:C8	2.42	0.54
35:DA:265:A:H1'	35:DA:266:G:C1'	2.38	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1323:U:H3	35:BA:1331:A:H61	1.54	0.54
55:BY:83:THR:HG22	55:BY:84:ARG:H	1.73	0.54
3:CC:120:VAL:HA	3:CC:123:GLN:NE2	2.23	0.54
1:AA:1043:C:H2'	1:AA:1044:A:H8	1.71	0.54
35:BA:2522:U:H2'	35:BA:2523:G:H5''	1.89	0.54
35:DA:391:G:O2'	35:DA:392:C:H5'	2.08	0.54
41:BG:52:ILE:O	41:BG:54:GLU:N	2.41	0.54
35:DA:1639:U:H2'	35:DA:1640:C:C5'	2.38	0.54
50:DT:110:ILE:HG22	50:DT:111:ARG:N	2.23	0.54
1:CA:963:G:N2	10:CJ:55:LYS:NZ	2.56	0.54
10:CJ:62:HIS:N	10:CJ:62:HIS:CD2	2.74	0.54
35:BA:2286:A:H4'	35:BA:2287:A:O4'	2.07	0.54
1:AA:1442(A):G:H4'	1:AA:1442(B):A:O5'	2.08	0.54
50:BT:91:ARG:HB3	50:BT:115:ARG:O	2.09	0.54
56:BZ:29:TYR:O	56:BZ:30:ASN:CB	2.56	0.54
39:BE:57:LYS:HD3	39:BE:59:VAL:HG12	1.90	0.54
39:BE:77:ILE:HG23	39:BE:78:LEU:H	1.72	0.54
39:BE:36:ARG:NH2	39:BE:88:GLY:HA3	2.23	0.54
52:BV:5:VAL:HG23	52:BV:37:VAL:H	1.73	0.54
42:DH:164:TYR:O	42:DH:165:ALA:HB2	2.08	0.54
42:DH:99:VAL:O	42:DH:101:ARG:N	2.41	0.54
1:AA:950:U:H2'	1:AA:951:G:H8	1.70	0.54
35:DA:336:C:H4'	55:DY:7:VAL:CG1	2.38	0.54
42:BH:144:VAL:CG1	42:BH:148:ILE:HD11	2.37	0.54
47:DQ:114:ALA:C	47:DQ:116:GLU:N	2.60	0.54
35:BA:1495:A:OP1	35:BA:1495:A:C8	2.61	0.54
1:AA:1208:C:H2'	1:AA:1209:C:C6	2.43	0.54
3:CC:109:PRO:HG2	3:CC:110:ASN:H	1.73	0.54
4:CD:58:LEU:O	4:CD:59:ARG:C	2.44	0.54
27:D1:76:ARG:HB3	27:D1:78:LYS:HZ3	1.71	0.54
27:D1:75:GLU:O	27:D1:76:ARG:NE	2.38	0.54
44:DN:96:GLU:O	44:DN:97:ARG:C	2.45	0.54
35:BA:514:A:O2'	35:BA:515:A:H5'	2.08	0.54
35:BA:776:G:H4'	35:BA:777:A:O5'	2.08	0.54
40:BF:51:THR:OG1	40:BF:91:GLY:HA3	2.07	0.54
40:DF:110:LEU:HD21	40:DF:181:LEU:CD2	2.38	0.54
48:DR:53:HIS:HA	48:DR:56:LYS:HB2	1.88	0.54
48:BR:70:LEU:O	48:BR:71:GLN:HB2	2.08	0.54
50:BT:102:ILE:CB	50:BT:110:ILE:HD11	2.38	0.54
2:CB:215:LEU:O	2:CB:219:VAL:HG23	2.08	0.54
2:AB:193:ASP:OD2	2:AB:196:LEU:HD21	2.08	0.54
35:DA:2078:C:H1'	35:DA:2434:A:N3	2.22	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:DN:26:LEU:CD1	44:DN:30:ILE:HD11	2.37	0.54
56:BZ:118:GLN:N	56:BZ:173:ALA:O	2.40	0.54
52:DV:71:LEU:O	52:DV:90:PRO:HA	2.07	0.54
1:AA:1104:G:H2'	1:AA:1105:A:H8	1.72	0.54
21:CU:18:TYR:CD2	21:CU:24:ARG:HG3	2.43	0.54
35:BA:1202:C:H2'	35:BA:1203:G:H5'	1.90	0.54
25:AY:92:PRO:CA	25:AY:101:ILE:HG23	2.38	0.54
44:BN:76:SER:O	44:BN:77:GLY:C	2.43	0.54
42:DH:55:PRO:HG2	42:DH:61:HIS:NE2	2.21	0.54
7:AG:148:ASN:C	7:AG:150:ALA:H	2.10	0.54
35:DA:1244:G:O2'	35:DA:1245:G:H5'	2.07	0.54
35:DA:607:U:OP1	40:DF:102:PRO:HA	2.08	0.54
1:AA:601:C:O2'	1:AA:602:A:H5'	2.08	0.54
1:AA:1077:G:N2	1:AA:1079:G:H3'	2.23	0.54
25:CY:80:GLU:C	25:CY:82:ALA:H	2.09	0.54
25:CY:76:LEU:HD21	25:CY:99:LEU:CD2	2.35	0.54
8:CH:4:ASP:OD2	8:CH:7:ALA:N	2.29	0.54
35:DA:272(C):G:H2'	35:DA:272(D):G:C8	2.41	0.54
33:D7:19:ARG:HD3	35:DA:125:G:H5''	1.89	0.54
33:D7:30:VAL:HG12	33:D7:33:ARG:HH12	1.73	0.54
1:AA:1116:C:H2'	1:AA:1117:G:C4'	2.38	0.54
16:CP:48:TRP:HE3	16:CP:49:LEU:HB3	1.73	0.54
16:CP:67:THR:O	16:CP:71:ARG:HB2	2.07	0.54
38:DD:173:VAL:CG1	38:DD:185:VAL:O	2.56	0.54
11:CK:21:ILE:CD1	11:CK:84:VAL:HG12	2.38	0.54
5:AE:72:GLN:O	5:AE:73:ASN:HB3	2.08	0.54
35:BA:271(U):G:O2'	35:BA:271(V):G:H5'	2.08	0.54
2:AB:67:THR:CG2	2:AB:155:LEU:HG	2.34	0.54
35:DA:2801:A:H4'	35:DA:2801(A):A:O5'	2.07	0.54
7:AG:50:ILE:HG22	7:AG:56:GLN:O	2.07	0.54
38:BD:257:LEU:HD23	38:BD:258:LYS:N	2.23	0.54
2:CB:28:PHE:CD1	2:CB:28:PHE:O	2.61	0.54
1:AA:180:U:H2'	1:AA:181:G:H5''	1.89	0.54
52:DV:1:MET:CE	52:DV:45:THR:H	2.20	0.54
1:CA:896:C:O2'	1:CA:897:C:H5'	2.08	0.54
7:CG:145:ALA:O	7:CG:146:GLU:HB2	2.08	0.54
7:AG:27:ILE:HG21	7:AG:40:ALA:HB2	1.90	0.54
35:BA:2410:G:N2	35:BA:2411:A:H1'	2.23	0.54
35:DA:221:A:O2'	35:DA:222:A:OP2	2.25	0.54
35:DA:271(J):C:C2'	35:DA:271(K):U:H5''	2.38	0.54
53:BW:9:TYR:H	53:BW:102:HIS:CD2	2.26	0.54
28:D2:57:ILE:HD11	28:D2:59:ARG:NH1	2.23	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:402:A:O2'	35:DA:403:U:H5'	2.08	0.54
37:BC:77:ILE:O	37:BC:77:ILE:HG12	2.07	0.54
13:CM:61:GLU:HG2	13:CM:61:GLU:O	2.08	0.54
35:BA:1543:C:O2	35:BA:1543:C:H2'	2.07	0.54
49:DS:12:PHE:O	49:DS:12:PHE:CG	2.61	0.54
3:CC:18:TRP:HE3	3:CC:18:TRP:H	1.53	0.54
36:BB:95:C:O2'	36:BB:96:U:H5'	2.08	0.54
35:BA:1668:A:N7	35:BA:1674:G:C6	2.76	0.54
35:BA:182:A:H2	35:BA:433:C:H1'	1.73	0.54
1:CA:423:G:H2'	1:CA:424:G:O4'	2.08	0.54
55:DY:44:ILE:CG2	55:DY:45:VAL:N	2.70	0.53
50:DT:109:GLU:HA	50:DT:112:ARG:CD	2.37	0.53
50:DT:106:SER:CA	50:DT:110:ILE:HD13	2.33	0.53
50:DT:99:LEU:CD1	50:DT:99:LEU:O	2.56	0.53
10:CJ:50:ILE:CD1	14:CN:41:ARG:HD2	2.36	0.53
38:BD:80:ALA:HB2	38:BD:96:HIS:ND1	2.23	0.53
1:CA:1078:U:H2'	1:CA:1079:G:C8	2.43	0.53
38:DD:211:ARG:HA	38:DD:214:TRP:CD2	2.43	0.53
38:DD:19:ALA:O	38:DD:21:PHE:CE1	2.61	0.53
38:DD:242:ARG:HG3	38:DD:242:ARG:NH1	2.19	0.53
1:CA:607:A:C4	16:CP:31:LYS:HE3	2.43	0.53
36:DB:45:A:H2'	36:DB:45:A:N3	2.23	0.53
34:B8:26:LYS:NZ	34:B8:47:LYS:HD3	2.23	0.53
34:B8:29:LYS:O	34:B8:30:ARG:C	2.47	0.53
35:BA:1952:A:C4	45:BO:22:ILE:HD12	2.43	0.53
39:DE:116:VAL:CG2	39:DE:122:PHE:HB2	2.32	0.53
35:BA:535:C:C2'	35:BA:536:A:H5'	2.39	0.53
35:BA:1152:C:H1'	51:BU:77:SER:HB3	1.89	0.53
52:BV:98:GLU:OE1	52:BV:98:GLU:N	2.40	0.53
42:DH:102:ALA:HB1	42:DH:115:VAL:O	2.07	0.53
10:AJ:50:ILE:CD1	14:AN:41:ARG:HD2	2.33	0.53
14:AN:44:LEU:HD12	14:AN:44:LEU:O	2.08	0.53
35:DA:2810:A:H2'	39:DE:61:ARG:NH2	2.23	0.53
41:BG:130:ASN:ND2	41:BG:161:THR:O	2.41	0.53
35:BA:2773:C:H2'	35:BA:2774:C:C6	2.44	0.53
47:DQ:51:ARG:C	47:DQ:54:MET:HB3	2.27	0.53
19:CS:4:SER:N	19:CS:6:LYS:HZ1	2.07	0.53
35:BA:1862:G:O2'	35:BA:1863:G:H5'	2.08	0.53
1:CA:539:A:H2'	1:CA:540:G:H8	1.73	0.53
40:BF:39:TRP:HA	40:BF:99:TYR:CE1	2.43	0.53
35:DA:1024:G:O5'	35:DA:1024:G:H8	1.91	0.53
34:B8:53:PRO:C	34:B8:55:ALA:N	2.62	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:DR:49:ASP:O	48:DR:51:LEU:N	2.41	0.53
1:AA:1468:A:H2'	1:AA:1469:G:O4'	2.07	0.53
48:BR:37:THR:HA	48:BR:111:LEU:HA	1.90	0.53
2:AB:164:VAL:O	2:AB:186:ALA:HB1	2.08	0.53
2:AB:187:LEU:HA	2:AB:201:ILE:O	2.07	0.53
2:AB:82:ARG:HB2	2:AB:94:ASN:ND2	2.23	0.53
4:AD:110:PHE:N	4:AD:110:PHE:CD1	2.76	0.53
4:AD:33:MET:HA	4:AD:33:MET:CE	2.39	0.53
35:DA:909:A:H1'	47:DQ:10:ARG:HH22	1.72	0.53
1:AA:674:G:H2'	1:AA:675:A:C8	2.37	0.53
51:DU:21:ALA:CB	51:DU:35:ALA:HB1	2.37	0.53
1:CA:1216:G:O3'	14:CN:5:ALA:HB1	2.08	0.53
20:CT:41:ILE:C	20:CT:43:LEU:N	2.61	0.53
25:AY:26:ALA:C	25:AY:28:LEU:H	2.11	0.53
25:AY:84:ARG:O	25:AY:86:SER:N	2.40	0.53
7:CG:71:PRO:CG	7:CG:103:TRP:HZ3	2.20	0.53
33:B7:34:ARG:HE	33:B7:39:ARG:HE	1.54	0.53
33:B7:5:TRP:HE1	33:B7:7:PRO:HG3	1.72	0.53
35:DA:2282:G:C4	35:DA:2425:A:N6	2.76	0.53
8:CH:83:ILE:HD13	8:CH:137:VAL:CG2	2.35	0.53
8:CH:97:VAL:HG13	8:CH:98:LYS:N	2.17	0.53
22:AV:27:G:H2'	22:AV:28:G:C8	2.43	0.53
25:CY:67:VAL:HA	25:CY:99:LEU:O	2.08	0.53
43:DI:38:LEU:H	43:DI:38:LEU:CD1	2.03	0.53
12:AL:119:LYS:HD3	12:AL:120:TYR:HE1	1.73	0.53
9:AI:28:VAL:HG12	9:AI:29:ASN:H	1.73	0.53
9:AI:16:ARG:O	9:AI:63:ILE:CG2	2.56	0.53
35:DA:2128:C:H5'	35:DA:2173:A:C2	2.43	0.53
1:CA:527:G:H2'	1:CA:528:C:H5'	1.90	0.53
1:CA:528:C:H2'	1:CA:529:G:H8	1.73	0.53
35:BA:2748:A:C2	42:BH:63:SER:HB3	2.43	0.53
1:AA:444:C:H2'	1:AA:445:G:C8	2.41	0.53
40:BF:151:SER:C	40:BF:152:GLU:HG3	2.29	0.53
1:AA:676:A:O2'	1:AA:677:U:H5'	2.08	0.53
35:BA:493:G:C2'	35:BA:494:G:H5''	2.38	0.53
35:DA:376:C:O2'	35:DA:377:C:H5'	2.09	0.53
1:CA:59:A:H2'	1:CA:59:A:N3	2.22	0.53
38:DD:145:VAL:CG1	38:DD:146:GLU:N	2.72	0.53
13:CM:64:TRP:NE1	13:CM:66:LEU:HD12	2.23	0.53
13:CM:68:GLY:O	13:CM:71:ARG:N	2.41	0.53
35:BA:1844:C:C2'	35:BA:1845:G:H5'	2.37	0.53
53:BW:17:VAL:C	53:BW:19:LEU:N	2.61	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
7:AG:24:THR:O	7:AG:25:ALA:C	2.44	0.53
23:CW:7:G:H5'	23:CW:8:U:H5	1.72	0.53
1:AA:355:C:O2'	1:AA:356:A:H5'	2.07	0.53
50:DT:3:ARG:O	50:DT:4:GLY:C	2.47	0.53
35:DA:1441:G:O2'	35:DA:1442:G:H5'	2.08	0.53
1:CA:652:U:H1'	1:CA:653:A:C2	2.42	0.53
15:AO:6:GLU:N	15:AO:6:GLU:OE1	2.32	0.53
50:DT:57:PHE:O	50:DT:59:THR:HG22	2.08	0.53
35:DA:2784:C:H2'	35:DA:2785:C:C6	2.44	0.53
1:CA:164:U:O2'	1:CA:165:C:H5'	2.08	0.53
35:BA:271(N):U:H5''	35:BA:271(O):C:H5'	1.89	0.53
38:BD:152:GLY:O	38:BD:154:LYS:HG3	2.08	0.53
35:BA:2784:C:H2'	35:BA:2785:C:C6	2.43	0.53
35:BA:338:G:H2'	35:BA:339:U:C6	2.43	0.53
50:DT:81:PRO:O	50:DT:82:LEU:HD12	2.08	0.53
1:CA:973:G:C4	10:CJ:55:LYS:NZ	2.68	0.53
1:CA:973:G:O4'	10:CJ:55:LYS:HG2	2.08	0.53
38:BD:260:ARG:NH2	38:BD:264:LYS:HD3	2.23	0.53
1:CA:15:G:H4'	5:CE:24:ARG:HH21	1.73	0.53
35:DA:1779:U:H5	35:DA:1784:A:N7	2.04	0.53
41:DG:59:GLU:OE1	41:DG:60:LEU:HD23	2.08	0.53
34:B8:30:ARG:HH21	46:BP:62:LEU:CB	2.17	0.53
35:BA:2415:G:C3'	46:BP:66:GLY:HA3	2.38	0.53
47:DQ:35:VAL:HG22	47:DQ:101:ARG:O	2.08	0.53
35:BA:1992:G:C6	35:BA:1997:G:N1	2.75	0.53
35:BA:2679:A:O2'	35:BA:2680:C:H5'	2.07	0.53
50:BT:23:ARG:NH2	50:BT:120:ARG:HD3	2.23	0.53
56:BZ:56:VAL:HA	56:BZ:70:LEU:CD2	2.38	0.53
39:BE:81:ILE:O	39:BE:82:ARG:O	2.27	0.53
52:BV:33:VAL:HG13	52:BV:62:LEU:H	1.72	0.53
10:AJ:64:GLU:N	14:AN:59:ALA:HB2	2.23	0.53
39:DE:59:VAL:CG1	39:DE:63:LEU:HG	2.37	0.53
2:AB:12:GLU:C	2:AB:14:GLY:N	2.61	0.53
42:BH:97:ARG:HD2	42:BH:104:GLU:OE1	2.09	0.53
56:DZ:87:ASP:N	56:DZ:87:ASP:OD2	2.40	0.53
35:DA:1160:G:N2	52:DV:10:LYS:HE3	2.24	0.53
35:DA:1856:G:H2'	35:DA:1857:G:H5'	1.89	0.53
4:CD:58:LEU:O	4:CD:60:GLU:N	2.41	0.53
1:CA:995:C:O2	14:CN:4:LYS:HE2	2.09	0.53
35:BA:598:G:H5'	46:BP:15:ARG:CB	2.38	0.53
40:BF:34:TRP:HB3	46:BP:11:GLY:HA3	1.89	0.53
46:BP:16:ARG:HD3	46:BP:18:ARG:N	2.20	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1188:U:H2'	35:BA:1189:A:H5'	1.90	0.53
35:BA:2061:G:OP1	40:BF:68:LYS:NZ	2.41	0.53
35:BA:510:C:O2'	35:BA:511:U:H5'	2.09	0.53
52:BV:72:VAL:CA	52:BV:88:ARG:HH12	2.16	0.53
48:DR:12:ARG:HD3	48:DR:16:HIS:CD2	2.43	0.53
48:DR:13:HIS:ND1	48:DR:13:HIS:C	2.62	0.53
48:BR:2:ARG:C	48:BR:2:ARG:HD2	2.29	0.53
35:BA:2845:G:H2'	35:BA:2846:G:H8	1.74	0.53
48:BR:52:ILE:HD12	48:BR:79:LEU:HD21	1.90	0.53
48:BR:73:VAL:O	48:BR:76:VAL:HG12	2.07	0.53
48:BR:85:PRO:O	48:BR:87:TYR:N	2.42	0.53
36:DB:57:A:O4'	41:DG:30:GLU:HB3	2.08	0.53
49:DS:92:TYR:O	49:DS:93:LYS:HB2	2.09	0.53
27:D1:23:LYS:NZ	27:D1:23:LYS:HA	2.23	0.53
2:CB:72:GLY:HA3	2:CB:165:VAL:CG2	2.38	0.53
34:D8:56:GLU:HA	34:D8:59:LYS:NZ	2.22	0.53
35:DA:2065:C:H2'	35:DA:2066:C:C6	2.43	0.53
55:DY:31:LEU:HD11	55:DY:34:LYS:H	1.72	0.53
55:DY:67:LEU:HD12	55:DY:68:HIS:N	2.23	0.53
35:DA:2277:G:OP1	47:DQ:85:LYS:HB3	2.09	0.53
6:AF:30:LEU:HB3	6:AF:35:ALA:HB3	1.90	0.53
1:CA:1511:G:H2'	1:CA:1512:U:O4'	2.08	0.53
35:DA:2033:A:O2'	35:DA:2034:U:P	2.66	0.53
44:DN:78:TYR:CG	44:DN:79:PRO:HD3	2.43	0.53
35:DA:2019:A:O3'	51:DU:27:LEU:HD12	2.08	0.53
25:CY:127:VAL:O	25:CY:128:ALA:C	2.45	0.53
25:CY:18:LEU:HD12	25:CY:18:LEU:C	2.29	0.53
16:AP:67:THR:O	16:AP:71:ARG:HB2	2.08	0.53
25:AY:63:PRO:HB3	25:AY:64:ARG:HH22	1.73	0.53
47:BQ:81:VAL:HG23	47:BQ:82:ARG:HG2	1.90	0.53
11:AK:65:ALA:HB3	11:AK:97:ALA:CB	2.38	0.53
11:AK:23:ALA:HA	11:AK:28:THR:HG23	1.89	0.53
35:DA:235:U:H2'	35:DA:236:C:H6	1.73	0.53
35:DA:607:U:OP1	40:DF:103:LYS:N	2.41	0.53
5:AE:126:ARG:O	5:AE:127:ASN:C	2.47	0.53
9:AI:50:LEU:O	9:AI:55:ALA:HB3	2.08	0.53
1:CA:1372:U:H5''	9:CI:71:SER:CB	2.36	0.53
9:CI:7:THR:N	9:CI:83:ARG:HD2	2.24	0.53
35:BA:548:A:O2'	35:BA:549:G:OP1	2.26	0.53
35:DA:493:G:C2'	35:DA:494:G:H5''	2.38	0.53
11:CK:85:ARG:HG2	11:CK:111:ASP:O	2.08	0.53
35:BA:614(C):A:N3	40:BF:180:GLY:HA2	2.23	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1424:C:O2'	1:CA:1425:U:H5'	2.08	0.53
35:BA:1419:A:H62	35:BA:1578:U:H3	1.56	0.53
1:CA:328:C:H4'	1:CA:329:A:C5'	2.36	0.53
4:AD:128:VAL:C	4:AD:130:GLY:N	2.61	0.53
19:AS:49:ILE:HD12	19:AS:49:ILE:N	2.23	0.53
19:AS:60:VAL:O	19:AS:60:VAL:HG13	2.08	0.53
1:AA:314:C:O2'	1:AA:315:A:H5'	2.08	0.53
46:DP:123:LEU:O	46:DP:125:VAL:HG12	2.07	0.53
25:CY:119:ARG:HD3	35:DA:1947:C:OP1	2.08	0.53
1:AA:277:C:O2'	1:AA:278:G:H5'	2.07	0.53
11:CK:122:LYS:O	11:CK:126:ARG:CB	2.57	0.53
1:CA:764:C:C2'	1:CA:765:G:H8	2.19	0.53
26:B0:27:GLU:HG3	26:B0:68:GLU:HA	1.90	0.53
41:BG:96:ARG:HA	41:BG:99:MET:HE1	1.90	0.53
7:CG:22:LEU:O	7:CG:25:ALA:HB3	2.08	0.53
29:D3:26:LEU:HD21	29:D3:46:ASN:CB	2.38	0.53
23:AW:65:G:N2	23:AW:66:C:H1'	2.23	0.53
19:CS:22:LEU:C	19:CS:24:ALA:H	2.12	0.53
35:BA:2065:C:H2'	35:BA:2066:C:C6	2.43	0.53
38:BD:125:ILE:CD1	38:BD:125:ILE:N	2.71	0.53
25:CY:176:ALA:O	25:CY:180:GLU:HG3	2.09	0.53
35:BA:644:A:C2	35:BA:2369:A:H1'	2.42	0.53
35:BA:118:A:N3	35:BA:178:G:H1'	2.24	0.53
1:AA:129(A):G:H21	1:AA:189(F):U:H5''	1.73	0.53
1:CA:158:G:O2'	1:CA:159:G:H5'	2.07	0.53
35:DA:118:A:N3	35:DA:178:G:H1'	2.23	0.53
38:BD:169:GLU:O	38:BD:171:ASP:N	2.36	0.53
35:DA:2593:U:H2'	35:DA:2594:C:C6	2.44	0.53
4:AD:91:SER:HA	4:AD:94:LEU:HD12	1.90	0.53
38:DD:40:THR:HG22	38:DD:41:GLY:O	2.09	0.53
45:DO:12:ASP:OD2	45:DO:12:ASP:N	2.39	0.53
38:BD:227:ASN:O	38:BD:229:VAL:N	2.42	0.53
35:DA:1902:C:H5'	38:DD:246:PRO:HD3	1.91	0.53
41:DG:108:ASN:O	41:DG:112:PRO:HB2	2.08	0.53
10:CJ:16:LEU:HD22	10:CJ:19:SER:OG	2.09	0.53
50:BT:81:PRO:C	50:BT:82:LEU:HD12	2.28	0.53
47:BQ:141:GLN:C	56:BZ:53:ILE:HB	2.29	0.53
39:BE:36:ARG:NH2	39:BE:88:GLY:H	2.05	0.53
35:BA:1159:U:C2'	35:BA:1160:G:H5'	2.37	0.53
44:BN:7:LYS:O	44:BN:9:VAL:N	2.41	0.53
14:AN:41:ARG:HG3	14:AN:42:ILE:H	1.73	0.53
28:B2:32:LEU:HA	28:B2:37:PHE:CD2	2.43	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:DE:179:GLU:OE1	39:DE:179:GLU:HA	2.08	0.53
35:DA:2632:A:H1'	39:DE:61:ARG:NH1	2.23	0.53
27:B1:11:ARG:O	27:B1:13:ILE:N	2.41	0.53
27:B1:18:ILE:HG12	27:B1:43:TYR:CD1	2.43	0.53
41:BG:114:ILE:HB	41:BG:117:PHE:HB2	1.89	0.53
55:DY:98:VAL:HG12	55:DY:98:VAL:O	2.09	0.53
28:D2:25:VAL:O	28:D2:26:ARG:C	2.47	0.53
28:D2:40:SER:HB3	28:D2:41:ILE:HD12	1.88	0.53
35:DA:62:C:H2'	35:DA:63:U:H5'	1.89	0.53
54:DX:29:TRP:HA	54:DX:29:TRP:CE3	2.43	0.53
35:BA:2773:C:H2'	35:BA:2774:C:H6	1.73	0.53
51:DU:92:ARG:CZ	52:DV:11:GLN:HG2	2.39	0.53
52:DV:34:GLU:C	52:DV:62:LEU:HD12	2.27	0.53
4:CD:176:LEU:HD21	4:CD:178:VAL:HG22	1.90	0.53
43:DI:120:ILE:O	43:DI:121:LYS:HB3	2.08	0.53
44:BN:70:LYS:HB3	44:BN:87:LEU:HB2	1.91	0.53
44:BN:97:ARG:O	44:BN:101:HIS:N	2.36	0.53
25:AY:70:SER:OG	25:AY:76:LEU:HB2	2.08	0.53
35:BA:834:C:H2'	35:BA:835:A:H8	1.72	0.53
35:DA:1414:G:H2'	35:DA:1415:U:C5	2.43	0.53
3:AC:47:LEU:HD21	3:AC:52:LEU:HD13	1.90	0.53
35:BA:2692:C:H2'	35:BA:2693:A:H8	1.73	0.53
48:BR:12:ARG:HD3	48:BR:16:HIS:CD2	2.43	0.53
49:DS:95:HIS:O	49:DS:97:ARG:N	2.41	0.53
2:AB:34:ALA:O	2:AB:41:ILE:HB	2.09	0.53
2:AB:82:ARG:HG3	2:AB:92:TYR:OH	2.07	0.53
15:CO:39:LEU:O	15:CO:39:LEU:HD13	2.09	0.53
2:CB:73:THR:HB	2:CB:94:ASN:O	2.08	0.53
35:DA:2059:A:H5'	35:DA:2060:A:OP2	2.08	0.53
4:AD:92:VAL:O	4:AD:95:GLY:N	2.41	0.53
1:AA:501:C:H2'	1:AA:502:G:C8	2.42	0.53
6:AF:29:ALA:HB1	6:AF:79:LEU:CD2	2.39	0.53
35:DA:2022:U:O2'	35:DA:2617:C:H5'	2.08	0.53
7:AG:105:VAL:HG12	7:AG:109:ASN:HD21	1.72	0.53
25:CY:134:ARG:O	25:CY:135:GLU:C	2.46	0.53
25:CY:166:ASP:O	25:CY:167:GLU:C	2.46	0.53
16:AP:23:ASP:HB3	16:AP:26:ARG:HG3	1.89	0.53
16:AP:72:ARG:O	16:AP:74:LEU:N	2.41	0.53
1:CA:261:U:H3'	20:CT:79:ARG:HH12	1.74	0.53
35:BA:1591:G:O2'	35:BA:1592:C:H5'	2.08	0.53
35:BA:2620:C:OP1	39:BE:152:LYS:O	2.27	0.53
11:AK:109:VAL:HG13	18:AR:85:LEU:O	2.09	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2752:C:H5'	35:DA:2753:A:OP2	2.07	0.53
8:CH:83:ILE:HD12	8:CH:136:GLU:O	2.08	0.53
2:CB:171:ALA:O	2:CB:174:VAL:N	2.41	0.53
1:AA:693:G:H22	23:AW:38:A:H2	1.55	0.53
13:AM:108:ARG:CZ	13:AM:114:ARG:HG2	2.39	0.53
35:DA:1245:G:H3'	46:DP:16:ARG:NH2	2.22	0.53
35:BA:847:U:C2'	35:BA:848:G:H5''	2.30	0.53
8:AH:119:LEU:N	8:AH:119:LEU:CD2	2.63	0.53
42:BH:19:VAL:HG11	42:BH:44:VAL:HG22	1.91	0.53
5:AE:12:LEU:O	5:AE:12:LEU:HD22	2.08	0.53
5:AE:147:ASP:CA	5:AE:150:ARG:HB3	2.37	0.53
1:AA:625:G:O2'	1:AA:626:U:H5'	2.08	0.53
1:AA:1347:G:C2	1:AA:1373:G:H2'	2.43	0.53
18:CR:59:SER:OG	18:CR:60:ALA:N	2.40	0.53
35:DA:1174:A:H5''	35:DA:1175:U:H5''	1.90	0.53
46:BP:101:VAL:HG13	46:BP:102:ARG:N	2.21	0.53
46:BP:124:LYS:HA	46:BP:143:GLY:CA	2.38	0.53
1:CA:451:A:N6	1:CA:480:U:H2'	2.23	0.53
38:DD:130:ALA:CB	38:DD:192:THR:HA	2.38	0.53
14:AN:6:LEU:O	14:AN:8:GLU:N	2.42	0.53
11:CK:99:GLN:NE2	11:CK:105:VAL:HG11	2.23	0.53
38:DD:118:VAL:CG2	38:DD:119:ALA:N	2.71	0.53
17:AQ:92:ARG:O	17:AQ:95:TYR:N	2.35	0.53
1:AA:967:C:H2'	1:AA:968:A:C8	2.43	0.53
17:AQ:48:GLU:O	17:AQ:49:GLU:C	2.47	0.53
35:BA:2114:A:H2'	35:BA:2114:A:N3	2.24	0.53
4:AD:131:ARG:O	4:AD:132:ARG:C	2.46	0.53
26:D0:43:THR:N	35:DA:2331:G:H4'	2.23	0.53
53:DW:86:LEU:HD12	53:DW:87:PRO:HD2	1.90	0.53
35:BA:468:G:H2'	35:BA:469:G:O4'	2.07	0.53
13:CM:35:GLU:HG3	13:CM:36:LYS:N	2.23	0.53
1:AA:1118:C:H1'	1:AA:1179:A:C4	2.42	0.53
1:AA:1089:G:O2'	1:AA:1090:U:H5'	2.08	0.53
23:AW:12:G:H1	23:AW:24:C:H42	1.57	0.53
35:BA:204:A:H5'	35:BA:206:U:O4'	2.07	0.53
35:DA:1386:C:O2'	35:DA:1387:C:H5'	2.08	0.53
2:AB:28:PHE:O	2:AB:28:PHE:CD1	2.61	0.53
1:AA:1511:G:O2'	1:AA:1512:U:H5'	2.09	0.53
56:DZ:131:ARG:C	56:DZ:133:ILE:HD12	2.28	0.53
1:AA:1243:C:OP2	21:AU:10:ARG:CZ	2.56	0.53
27:D1:16:ASN:N	27:D1:16:ASN:HD22	1.98	0.53
53:DW:64:MET:HE2	53:DW:109:GLU:HG3	1.90	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1154:G:H2'	1:AA:1155:G:H8	1.73	0.53
1:CA:357:G:OP1	1:CA:366:C:O2'	2.25	0.53
47:BQ:42:ILE:HD13	47:BQ:97:VAL:HG21	1.89	0.53
1:AA:1527:C:H2'	1:AA:1528:U:C6	2.44	0.53
1:CA:882:C:H2'	1:CA:883:C:H6	1.74	0.53
19:AS:64:GLU:HG3	19:AS:65:ASN:N	2.22	0.53
35:BA:477:A:H2'	35:BA:478:A:C8	2.43	0.53
43:DI:41:GLU:HA	43:DI:44:LEU:HB3	1.90	0.53
38:DD:5:LYS:N	38:DD:5:LYS:HD2	2.23	0.53
1:AA:998:G:H2'	1:AA:999:C:C6	2.43	0.53
51:BU:90:VAL:HG13	52:BV:39:LEU:CB	2.34	0.53
52:BV:4:ILE:HA	52:BV:12:TYR:O	2.08	0.53
28:B2:49:LYS:O	28:B2:53:LEU:O	2.25	0.53
35:DA:2807:G:C3'	35:DA:2808:U:H5''	2.38	0.53
34:B8:62:LEU:HD13	35:BA:242:G:C5'	2.20	0.53
54:DX:31:HIS:ND1	54:DX:32:PRO:HD2	2.23	0.53
28:D2:23:LYS:HA	54:DX:5:TYR:CE1	2.38	0.53
34:D8:31:HIS:O	34:D8:32:LEU:C	2.47	0.53
42:BH:87:LEU:HD23	42:BH:164:TYR:HA	1.91	0.53
35:BA:2642:G:N2	35:BA:2773:C:C2	2.77	0.53
35:DA:2039:C:H2'	35:DA:2040:C:H6	1.72	0.53
52:DV:15:GLU:HB3	52:DV:16:PRO:CD	2.37	0.53
1:AA:1057:G:H5''	3:AC:154:SER:OG	2.07	0.53
32:D6:30:THR:HG21	35:DA:2286:A:OP1	2.08	0.53
40:BF:110:LEU:HA	40:BF:183:VAL:CG1	2.36	0.53
35:DA:2406:U:C4	46:DP:72:PRO:HD2	2.43	0.53
35:DA:2406:U:N3	46:DP:72:PRO:HD2	2.22	0.53
39:BE:117:MET:CE	39:BE:124:GLY:HA3	2.38	0.53
27:D1:89:GLU:HG2	27:D1:90:ILE:HD13	1.91	0.53
34:D8:39:LYS:HD3	34:D8:39:LYS:C	2.28	0.53
35:BA:1190:G:O3'	46:BP:35:HIS:HB3	2.08	0.53
35:BA:2442:C:O2'	35:BA:2443:C:H5'	2.08	0.53
35:BA:587:C:C6	35:BA:671:C:H1'	2.44	0.53
35:BA:590:A:H2'	35:BA:591:C:H6	1.73	0.53
35:BA:668:G:H2'	35:BA:670:A:H62	1.74	0.53
47:BQ:76:LYS:H	47:BQ:88:GLY:HA3	1.72	0.53
47:BQ:8:LYS:CG	47:BQ:9:TYR:N	2.64	0.53
20:AT:38:LYS:O	20:AT:41:ILE:N	2.41	0.53
48:BR:16:HIS:O	48:BR:17:ARG:C	2.47	0.53
49:DS:42:ASP:O	49:DS:44:LYS:N	2.42	0.53
49:DS:65:VAL:CG1	49:DS:69:VAL:HB	2.39	0.53
2:CB:208:ILE:O	2:CB:208:ILE:HG22	2.07	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:CB:80:ILE:HD13	2:CB:212:GLN:HA	1.89	0.53
2:CB:61:LEU:O	2:CB:64:ARG:HG2	2.09	0.53
35:DA:590:A:H2'	35:DA:591:C:H6	1.74	0.53
40:DF:53:THR:O	40:DF:54:ARG:C	2.46	0.53
46:DP:50:ARG:HD2	46:DP:51:PHE:CG	2.43	0.53
19:AS:9:VAL:O	19:AS:11:VAL:N	2.41	0.53
19:AS:16:LEU:N	19:AS:16:LEU:HD12	2.24	0.53
4:AD:8:VAL:O	4:AD:9:CYS:C	2.46	0.53
51:DU:31:SER:C	51:DU:33:ARG:N	2.62	0.53
25:CY:162:GLN:O	25:CY:165:THR:HB	2.07	0.53
16:AP:67:THR:HB	16:AP:70:ALA:H	1.74	0.53
20:CT:38:LYS:O	20:CT:41:ILE:N	2.41	0.53
1:CA:582:U:H2'	1:CA:583:A:H8	1.73	0.53
42:BH:27:LYS:HG2	42:BH:32:GLU:OE1	2.08	0.53
35:DA:848:G:H2'	35:DA:849:A:C8	2.44	0.53
33:B7:34:ARG:C	33:B7:36:GLN:N	2.62	0.53
35:BA:685:A:N1	35:BA:787:U:H1'	2.24	0.53
35:DA:2248:C:O2'	35:DA:2249:U:H5'	2.08	0.53
35:DA:2748:A:C2	42:DH:63:SER:HB3	2.44	0.53
1:CA:1072:G:H2'	1:CA:1073:U:H6	1.70	0.53
8:AH:83:ILE:HD12	8:AH:136:GLU:O	2.07	0.53
20:AT:63:ILE:O	20:AT:66:ALA:N	2.42	0.53
42:BH:67:LEU:O	42:BH:71:LEU:HD22	2.07	0.53
31:D5:11:THR:HB	35:DA:1263:U:O3'	2.09	0.53
15:CO:12:ILE:C	15:CO:14:GLU:H	2.11	0.53
38:DD:130:ALA:HB2	38:DD:192:THR:HA	1.91	0.53
31:B5:11:THR:O	31:B5:12:SER:C	2.46	0.53
1:CA:397:A:H5'	1:CA:398:C:OP1	2.08	0.53
1:CA:102:G:H2'	1:CA:103:C:C6	2.43	0.53
4:AD:129:ASN:HB2	4:AD:131:ARG:NH2	2.24	0.53
35:DA:1786:A:N1	35:DA:2606:C:H1'	2.24	0.53
1:CA:1112:C:C4	3:CC:178:LEU:HD23	2.43	0.53
27:D1:43:TYR:OH	35:DA:1365:A:H5'	2.09	0.53
29:D3:21:ALA:O	29:D3:24:LYS:N	2.39	0.53
46:DP:58:THR:O	46:DP:61:ARG:NE	2.42	0.53
19:CS:42:PRO:C	19:CS:44:MET:H	2.10	0.53
29:D3:41:PRO:HD3	29:D3:44:ARG:NH1	2.23	0.53
35:DA:1289:C:H2'	35:DA:1290:C:H6	1.74	0.53
35:DA:1469:A:H2'	35:DA:1470:G:O4'	2.09	0.53
36:DB:65:C:H2'	36:DB:66:A:H5'	1.90	0.53
1:AA:1244:C:H2'	1:AA:1245:A:H8	1.71	0.53
38:DD:9:TYR:CD2	38:DD:10:THR:HG22	2.43	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:921:G:H2'	35:DA:922:U:H6	1.72	0.53
1:CA:1242:C:O5'	1:CA:1242:C:H6	1.92	0.53
19:CS:43:GLU:O	19:CS:45:VAL:N	2.39	0.53
17:AQ:10:VAL:HG21	17:AQ:55:ASP:HB2	1.90	0.53
23:AW:53:G:N2	23:AW:64:G:N1	2.57	0.53
37:BC:23:ASP:C	37:BC:25:ALA:H	2.12	0.53
56:BZ:33:LEU:HD11	56:BZ:35:ARG:CG	2.39	0.53
35:BA:301:G:C4	35:BA:302:C:C5	2.96	0.53
35:DA:2839:G:H2'	35:DA:2840:C:C6	2.43	0.53
1:CA:1006:C:O2'	1:CA:1007:C:H5'	2.08	0.53
37:BC:82:LYS:O	37:BC:86:ALA:HB3	2.08	0.53
29:D3:3:ARG:HG2	29:D3:38:GLU:OE2	2.08	0.53
35:BA:221:A:O2'	35:BA:222:A:OP2	2.23	0.53
1:CA:1043:C:H2'	1:CA:1044:A:C8	2.43	0.53
1:AA:486:U:O2'	1:AA:487:A:H5'	2.08	0.53
11:AK:49:GLY:O	11:AK:50:TYR:HD2	1.91	0.53
35:BA:1380:G:C2	35:BA:1381:G:C8	2.97	0.53
27:B1:24:ALA:HA	27:B1:36:GLY:HA2	1.89	0.53
2:CB:114:ARG:HA	2:CB:117:GLU:OE1	2.09	0.53
43:BI:76:THR:HB	43:BI:139:GLN:O	2.08	0.53
35:DA:1475:G:N3	35:DA:1475:G:H2'	2.23	0.53
39:BE:69:LYS:N	39:BE:69:LYS:HE2	2.23	0.53
35:DA:1678:G:N2	35:DA:1989:G:H22	2.05	0.53
35:DA:2683:C:H5''	50:DT:53:ARG:NH2	2.22	0.53
50:DT:101:PHE:CD2	50:DT:102:ILE:N	2.71	0.53
50:DT:38:ASN:ND2	50:DT:40:THR:OG1	2.42	0.53
35:BA:1812:A:H1'	38:BD:46:GLN:HE22	1.74	0.53
35:DA:782:A:H2	38:DD:226:MET:HG2	1.66	0.53
41:DG:43:LEU:HD21	41:DG:88:ILE:HG22	1.91	0.53
56:BZ:7:ALA:O	56:BZ:8:TYR:O	2.26	0.53
35:DA:2574:G:H2'	35:DA:2575:C:C6	2.42	0.53
35:BA:1153:C:N4	35:BA:1154:G:C2	2.76	0.53
44:BN:42:TRP:CE3	44:BN:42:TRP:HA	2.44	0.53
52:BV:22:VAL:HG21	52:BV:96:ILE:HB	1.91	0.53
27:B1:67:ILE:N	27:B1:68:PRO:HD2	2.23	0.53
27:B1:75:GLU:O	27:B1:76:ARG:NH2	2.41	0.53
2:AB:75:LYS:HA	2:AB:75:LYS:HE3	1.91	0.53
32:D6:9:LEU:HD23	32:D6:10:LEU:O	2.08	0.53
42:BH:118:PRO:HG2	42:BH:121:ILE:HD12	1.90	0.53
47:DQ:28:ALA:HB1	47:DQ:29:PHE:CD1	2.44	0.53
56:DZ:53:ILE:HG22	56:DZ:71:VAL:CB	2.38	0.53
35:DA:2781:A:H5'	35:DA:2782:G:H5'	1.87	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
51:DU:64:ARG:HA	51:DU:64:ARG:NH2	2.23	0.53
1:CA:1221:G:OP1	19:CS:36:ARG:HD3	2.08	0.53
4:CD:8:VAL:O	4:CD:9:CYS:C	2.47	0.53
40:BF:183:VAL:O	40:BF:187:VAL:HG23	2.08	0.53
35:DA:1019:U:H3	35:DA:1142(A):A:N6	1.98	0.53
40:BF:57:VAL:CG1	40:BF:58:ALA:N	2.71	0.53
46:BP:46:LYS:CB	46:BP:52:GLU:HG2	2.38	0.53
35:DA:1453:U:H5'	48:DR:63:ARG:HE	1.72	0.53
35:BA:1452:A:O2'	35:BA:1453:U:H2'	2.07	0.53
48:BR:87:TYR:OH	48:BR:116:LEU:HD22	2.09	0.53
50:BT:96:ARG:HG2	50:BT:96:ARG:NH1	2.20	0.53
1:CA:908:A:C4	1:CA:909:A:N7	2.76	0.53
49:DS:26:LEU:HD13	49:DS:87:PHE:HD1	1.74	0.53
2:CB:87:ARG:O	2:CB:88:ALA:HB2	2.08	0.53
44:DN:26:LEU:HG	44:DN:30:ILE:CD1	2.39	0.53
1:CA:738:C:H5''	6:CF:69:GLU:CB	2.39	0.53
2:CB:187:LEU:HA	2:CB:201:ILE:O	2.08	0.53
35:DA:589:C:H42	35:DA:668:G:H1	1.56	0.53
35:DA:815:C:OP2	52:DV:84:LYS:HE3	2.09	0.53
3:AC:16:ARG:NH1	3:AC:16:ARG:CB	2.69	0.53
47:DQ:17:LEU:HD21	47:DQ:41:TRP:HE1	1.73	0.53
35:DA:2619:C:H5''	39:DE:152:LYS:HA	1.90	0.53
25:CY:165:THR:O	25:CY:166:ASP:C	2.47	0.53
16:AP:49:LEU:HD11	16:AP:51:VAL:CG2	2.35	0.53
25:AY:66:LEU:O	25:AY:101:ILE:HD12	2.08	0.53
7:CG:103:TRP:O	7:CG:104:LEU:C	2.46	0.53
12:AL:24:VAL:O	12:AL:24:VAL:HG12	2.08	0.53
8:CH:83:ILE:CB	8:CH:137:VAL:HG13	2.36	0.53
11:CK:62:GLN:C	11:CK:64:ALA:N	2.61	0.53
43:DI:17:GLN:HG2	43:DI:18:VAL:N	2.21	0.53
9:CI:11:LYS:O	9:CI:13:ALA:N	2.42	0.53
9:CI:65:VAL:HG22	9:CI:66:ARG:H	1.73	0.53
9:AI:26:VAL:HG13	9:AI:63:ILE:HD11	1.90	0.53
56:DZ:76:LEU:HD22	56:DZ:76:LEU:N	2.23	0.53
1:AA:1347:G:O2'	1:AA:1348:U:OP2	2.27	0.53
1:CA:511:C:C2	1:CA:512:U:C5	2.96	0.53
31:B5:31:VAL:HB	31:B5:32:PRO:CD	2.32	0.53
9:CI:16:ARG:O	9:CI:63:ILE:CG2	2.56	0.53
46:DP:127:ALA:HB3	46:DP:130:PHE:HE2	1.64	0.53
16:CP:67:THR:HB	16:CP:70:ALA:H	1.73	0.53
7:CG:120:ILE:C	7:CG:124:LEU:HD12	2.29	0.53
11:CK:18:ARG:HG2	11:CK:33:THR:OG1	2.08	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
11:CK:21:ILE:HD13	11:CK:84:VAL:CG1	2.39	0.53
23:AW:60:A:O2'	23:AW:61:U:H5'	2.08	0.53
3:AC:83:ARG:O	3:AC:86:VAL:HG22	2.08	0.53
13:AM:67:GLU:O	13:AM:69:GLU:N	2.42	0.53
13:CM:13:LYS:HB2	13:CM:18:ALA:HB2	1.91	0.53
1:AA:1239:A:N6	1:AA:1299:A:H62	2.05	0.53
1:AA:656:C:H4'	15:AO:62:GLN:NE2	2.23	0.53
1:AA:741:G:H5'	15:AO:39:LEU:CD2	2.39	0.53
38:BD:247:ALA:CA	38:BD:254:THR:HG22	2.35	0.53
1:AA:1287:A:C6	1:AA:1288:A:N6	2.76	0.53
35:DA:304:G:H1	35:DA:313:C:H42	1.55	0.53
35:BA:1467:C:OP2	35:BA:1547:C:H5	1.91	0.53
57:DC:82:LYS:O	57:DC:86:ALA:HB3	2.08	0.53
55:BY:83:THR:O	55:BY:84:ARG:HG3	2.08	0.53
35:DA:2181:G:H2'	35:DA:2182:G:C8	2.44	0.53
35:BA:2649:U:O2'	35:BA:2650:U:H5'	2.09	0.53
5:AE:92:LYS:HB2	5:AE:119:LEU:HB2	1.91	0.53
30:B4:1:MET:N	36:BB:43:C:H5'	2.23	0.53
11:AK:18:ARG:HG2	11:AK:33:THR:OG1	2.09	0.53
35:BA:1478:G:HO2'	35:BA:1558:A:H2	1.55	0.53
35:DA:1354:A:C8	35:DA:1355:G:C8	2.97	0.53
35:BA:210:C:O2'	35:BA:211:A:H5'	2.08	0.53
49:BS:12:PHE:CG	49:BS:12:PHE:O	2.62	0.53
45:DO:37:ASP:O	45:DO:39:ILE:HG22	2.08	0.53
35:BA:1567:A:H5'	38:BD:58:HIS:CD2	2.44	0.53
38:BD:262:ARG:O	38:BD:264:LYS:N	2.41	0.53
38:DD:35:LYS:HG2	38:DD:64:ILE:HG22	1.89	0.53
38:DD:65:ILE:CD1	38:DD:65:ILE:C	2.77	0.53
41:DG:63:ILE:C	41:DG:63:ILE:HD12	2.29	0.53
45:BO:37:ASP:O	45:BO:61:VAL:HA	2.09	0.53
35:BA:1667:G:OP1	45:BO:7:TYR:HB2	2.08	0.53
45:BO:88:ASN:OD1	45:BO:92:GLU:N	2.36	0.53
50:BT:36:GLU:HB3	50:BT:38:ASN:OD1	2.08	0.53
47:BQ:28:ALA:HB3	47:BQ:105:GLU:CD	2.29	0.53
56:BZ:44:PHE:CD1	56:BZ:48:PHE:HB2	2.44	0.53
39:BE:3:GLY:O	39:BE:4:ILE:HG22	2.08	0.53
3:AC:3:ASN:O	3:AC:4:LYS:C	2.47	0.53
52:BV:27:ALA:O	52:BV:29:PRO:N	2.42	0.53
10:AJ:57:LYS:HD2	10:AJ:60:ARG:NH2	2.23	0.53
28:B2:27:GLU:C	28:B2:29:LYS:H	2.11	0.53
28:B2:43:GLN:O	28:B2:46:GLN:OE1	2.26	0.53
39:DE:1:MET:HB3	39:DE:200:GLU:OE1	2.09	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:DE:36:ARG:NH2	39:DE:88:GLY:H	2.05	0.53
27:B1:87:PRO:HB2	27:B1:91:LYS:HE3	1.91	0.53
2:AB:208:ILE:HG22	2:AB:208:ILE:O	2.09	0.53
55:DY:8:LYS:CD	55:DY:8:LYS:H	2.09	0.53
42:BH:85:LYS:NZ	42:BH:145:ALA:HA	2.24	0.53
56:DZ:103:ARG:O	56:DZ:139:VAL:HB	2.08	0.53
44:DN:7:LYS:O	44:DN:9:VAL:N	2.41	0.53
10:AJ:34:VAL:HG12	10:AJ:35:SER:H	1.72	0.53
3:CC:52:LEU:O	3:CC:53:ALA:HB2	2.09	0.53
36:BB:31:C:H42	36:BB:51:G:H1	1.55	0.53
4:CD:93:PHE:CE1	4:CD:97:LEU:HD12	2.43	0.53
4:CD:96:LEU:C	4:CD:98:GLU:N	2.62	0.53
35:BA:1030:G:OP2	47:BQ:128:LYS:HE2	2.09	0.53
46:BP:17:LYS:C	46:BP:19:VAL:N	2.61	0.53
35:BA:570:G:H2'	35:BA:2030:A:C5	2.43	0.53
35:BA:796:C:H2'	35:BA:797:C:H6	1.72	0.53
35:BA:941:A:H4'	46:BP:35:HIS:CE1	2.44	0.53
40:DF:3:GLU:HG3	40:DF:19:GLU:HB2	1.91	0.53
48:BR:49:ASP:O	48:BR:51:LEU:N	2.41	0.53
49:DS:57:LYS:O	49:DS:58:LEU:HB2	2.09	0.53
2:CB:82:ARG:HG3	2:CB:92:TYR:OH	2.09	0.53
35:DA:16:G:H2'	35:DA:17:G:H8	1.73	0.53
12:CL:102:ARG:CG	12:CL:102:ARG:HH11	2.18	0.53
13:CM:108:ARG:CZ	13:CM:114:ARG:HG2	2.38	0.53
42:DH:27:LYS:HG2	42:DH:32:GLU:OE1	2.09	0.53
25:AY:29:ARG:HE	25:AY:32:ARG:HH22	1.54	0.53
25:AY:156:ARG:HH21	26:B0:6:ALA:HB2	1.74	0.53
11:AK:103:LEU:N	11:AK:103:LEU:CD2	2.65	0.53
33:B7:31:LEU:CD2	33:B7:42:LEU:HB3	2.38	0.53
55:BY:37:VAL:HG13	55:BY:69:ALA:CB	2.39	0.53
1:AA:959:A:H2'	1:AA:960:U:C4'	2.39	0.53
8:AH:83:ILE:HG23	8:AH:83:ILE:O	2.08	0.53
20:AT:81:LYS:O	20:AT:85:MET:HG2	2.09	0.53
5:AE:8:GLU:CA	5:AE:34:VAL:HG22	2.35	0.53
52:DV:78:LYS:HD3	52:DV:78:LYS:C	2.29	0.53
1:AA:865:A:H2'	1:AA:866:C:C6	2.43	0.53
35:DA:1378:A:C4'	35:DA:1379:A:OP1	2.55	0.53
1:CA:116:A:H61	1:CA:313:A:H1'	1.74	0.53
8:AH:34:GLU:O	8:AH:38:ILE:HG13	2.09	0.53
35:DA:149:A:H2'	35:DA:150:C:C6	2.42	0.53
35:BA:2704:C:C2'	35:BA:2705:A:H8	2.17	0.53
7:CG:58:PRO:HA	7:CG:61:VAL:HG23	1.91	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
19:AS:33:THR:HG21	19:AS:51:VAL:HG22	1.90	0.53
1:CA:236:G:H2'	1:CA:237:C:H6	1.72	0.53
13:CM:74:VAL:O	13:CM:78:ILE:HG13	2.08	0.53
35:BA:524:U:O2	35:BA:524:U:C2'	2.53	0.53
35:DA:967:C:C2'	35:DA:968:G:H5'	2.39	0.53
1:AA:280:C:O2	17:AQ:38:ARG:HG3	2.09	0.53
1:CA:645:C:O2'	1:CA:646:U:H5'	2.09	0.53
24:CX:12:G:H3'	24:CX:13:A:H5''	1.90	0.53
35:BA:2009:G:C6	35:BA:2010:G:N7	2.76	0.53
35:DA:2545:G:N3	35:DA:2565:A:H2	2.07	0.53
23:CW:25:U:H2'	23:CW:26:C:C6	2.43	0.53
35:BA:519:U:H4'	53:BW:25:ARG:HH22	1.74	0.53
6:AF:37:VAL:HA	6:AF:65:VAL:CG1	2.38	0.53
35:BA:1830:C:N4	35:BA:1975:G:H1	2.07	0.53
5:CE:15:ARG:HG2	5:CE:26:PHE:HD2	1.74	0.53
1:AA:176:C:H2'	1:AA:177:C:C6	2.43	0.53
1:AA:1419:G:N2	1:AA:1482:G:C4	2.76	0.53
35:DA:1553:A:H2'	35:DA:1554:A:H5''	1.89	0.53
1:CA:856:C:H2'	1:CA:857:C:H6	1.74	0.53
1:CA:1132:C:N4	1:CA:1133:G:C6	2.76	0.53
35:BA:1021:A:C8	35:BA:1021:A:H3'	2.43	0.53
1:AA:1132:C:N4	1:AA:1133:G:C6	2.77	0.53
35:BA:1917:U:H2'	35:BA:1918:A:C8	2.44	0.53
35:DA:2547:U:O2'	35:DA:2548:G:H5'	2.09	0.53
1:CA:1023:G:H2'	1:CA:1024:G:H5'	1.91	0.53
35:DA:88:G:H2'	35:DA:88:G:N3	2.23	0.53
50:DT:43:GLN:HG2	50:DT:44:ASP:O	2.09	0.53
10:CJ:45:ARG:HG3	10:CJ:45:ARG:HH11	1.74	0.53
10:CJ:62:HIS:H	10:CJ:62:HIS:HD2	1.53	0.53
38:BD:182:LEU:O	38:BD:271:ILE:HD12	2.09	0.53
35:DA:1826:G:H4'	38:DD:242:ARG:NH2	2.24	0.53
38:DD:65:ILE:HD11	38:DD:67:PHE:CE1	2.43	0.53
41:DG:48:GLU:CG	41:DG:49:ASP:H	2.22	0.53
41:DG:57:ALA:O	41:DG:68:PRO:HG3	2.09	0.53
47:DQ:101:ARG:HG2	47:DQ:102:VAL:N	2.23	0.53
35:BA:1993:U:O2'	35:BA:1994:C:H5'	2.08	0.53
50:BT:32:TYR:O	50:BT:33:LYS:CB	2.57	0.53
39:BE:44:TYR:O	39:BE:45:THR:CB	2.55	0.53
39:BE:59:VAL:O	39:BE:62:PRO:HD2	2.09	0.53
39:BE:6:GLY:HA2	39:BE:51:PHE:HE2	1.71	0.53
42:DH:137:ASP:O	42:DH:138:LYS:CB	2.57	0.53
42:DH:92:ILE:HG22	42:DH:93:GLY:H	1.74	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:963:G:N2	10:AJ:55:LYS:NZ	2.57	0.53
14:AN:51:GLY:O	14:AN:53:LEU:N	2.39	0.53
54:BX:32:PRO:HD3	54:BX:72:LYS:HZ2	1.71	0.53
54:BX:9:LEU:HG	54:BX:29:TRP:O	2.09	0.53
39:DE:59:VAL:HG13	39:DE:60:ASN:N	2.24	0.53
27:B1:56:GLN:O	27:B1:57:GLU:CG	2.53	0.53
41:BG:85:GLY:O	41:BG:86:MET:CB	2.57	0.53
56:DZ:8:TYR:O	56:DZ:37:VAL:HB	2.09	0.53
19:CS:36:ARG:NH1	19:CS:75:ALA:HB3	2.23	0.53
1:CA:1320:C:H5'	19:CS:70:LYS:CE	2.39	0.53
4:CD:8:VAL:O	4:CD:10:ARG:HB3	2.08	0.53
4:CD:150:GLU:HA	4:CD:153:ARG:CD	2.38	0.53
46:BP:5:ASP:OD2	46:BP:6:LEU:HD22	2.09	0.53
46:DP:70:GLN:HA	46:DP:70:GLN:OE1	2.08	0.53
27:D1:72:GLU:O	27:D1:76:ARG:CZ	2.57	0.53
35:BA:1257:C:C2	35:BA:1258:C:C5	2.96	0.53
35:BA:2079:U:H3	35:BA:2241:A:N6	2.05	0.53
35:BA:513:A:H1'	51:BU:11:ARG:NH1	2.23	0.53
35:BA:674:G:O2'	40:BF:74:ARG:HB2	2.09	0.53
35:DA:1655:A:H4'	39:DE:115:GLY:H	1.74	0.53
35:BA:2821:A:OP2	48:BR:2:ARG:NH1	2.42	0.53
35:BA:2694:G:O2'	35:BA:2695:C:H5'	2.09	0.53
23:CW:76:C:H5'	27:D1:27:GLU:OE1	2.08	0.53
6:CF:26:ILE:O	6:CF:29:ALA:HB3	2.09	0.53
35:DA:1186:G:H2'	35:DA:1187:G:H5'	1.91	0.53
35:DA:668:G:H2'	35:DA:670:A:H62	1.73	0.53
1:AA:405:U:H5''	1:AA:406:G:O4'	2.09	0.53
4:AD:119:GLN:HE21	4:AD:123:HIS:CD2	2.27	0.53
19:AS:36:ARG:CZ	19:AS:72:GLY:HA2	2.38	0.53
47:DQ:73:PRO:HA	47:DQ:93:TYR:CD2	2.43	0.53
6:AF:69:GLU:CD	6:AF:69:GLU:H	2.11	0.53
35:DA:1918:A:O2'	35:DA:1920:C:N4	2.42	0.53
1:AA:1104:G:H2'	1:AA:1105:A:C8	2.44	0.53
1:AA:939:G:H5''	7:AG:102:ARG:NH1	2.23	0.53
25:AY:3:LEU:N	25:AY:3:LEU:HD12	2.16	0.53
33:B7:30:VAL:O	33:B7:34:ARG:N	2.38	0.53
8:AH:83:ILE:HB	8:AH:137:VAL:CG1	2.37	0.53
20:AT:54:LYS:HA	20:AT:57:ARG:NH1	2.24	0.53
5:AE:130:ASN:O	5:AE:131:ILE:C	2.47	0.53
43:DI:10:GLU:CD	43:DI:11:ASN:N	2.62	0.53
9:AI:24:GLY:HA2	9:AI:59:PHE:O	2.08	0.53
35:DA:1038:C:H42	35:DA:1117:G:H1	1.57	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
18:CR:59:SER:N	18:CR:62:GLU:OE1	2.42	0.53
1:CA:511:C:HO2'	1:CA:512:U:H6	1.54	0.53
16:CP:1:MET:SD	16:CP:1:MET:N	2.77	0.53
7:CG:121:ALA:CA	7:CG:124:LEU:HD12	2.38	0.53
7:CG:69:VAL:HG22	7:CG:135:VAL:HG22	1.90	0.53
15:AO:11:VAL:HG13	15:AO:15:PHE:HE1	1.74	0.53
18:CR:87:ARG:HG2	18:CR:88:LYS:N	2.23	0.53
35:BA:2012:G:OP1	53:BW:98:LYS:HA	2.08	0.53
3:AC:70:VAL:O	3:AC:105:GLU:HA	2.09	0.53
23:AW:16:C:H6	23:AW:60:A:C2	2.27	0.53
54:DX:62:LYS:CB	54:DX:69:TYR:H	2.22	0.53
54:DX:62:LYS:CD	54:DX:68:ARG:HD2	2.39	0.53
40:DF:151:SER:C	40:DF:152:GLU:HG3	2.28	0.53
40:DF:169:ASN:O	40:DF:169:ASN:ND2	2.42	0.53
51:BU:3:ARG:HG3	51:BU:3:ARG:O	2.08	0.53
20:CT:14:LYS:HE3	20:CT:18:GLN:NE2	2.23	0.53
53:DW:74:ALA:O	53:DW:75:TYR:CB	2.57	0.53
1:AA:727:G:N1	1:AA:731:G:C6	2.77	0.53
35:DA:1684:C:H42	35:DA:1704:G:H1	1.56	0.53
7:AG:58:PRO:HA	7:AG:61:VAL:HG23	1.89	0.53
1:AA:1305:G:H5''	21:AU:5:ASP:N	2.24	0.53
35:DA:1714:G:H2'	35:DA:1717:G:H8	1.72	0.53
7:CG:24:THR:O	7:CG:25:ALA:C	2.46	0.53
1:CA:1046:A:H3'	1:CA:1047:G:C8	2.42	0.53
1:AA:119:A:O2'	1:AA:120:A:OP2	2.25	0.53
35:DA:2875:C:O2'	50:DT:5:ALA:HB3	2.09	0.53
27:D1:56:GLN:O	27:D1:57:GLU:CB	2.56	0.53
23:CW:43:G:H2'	23:CW:44:A:O4'	2.08	0.53
35:BA:304:G:H1	35:BA:313:C:H42	1.54	0.53
35:DA:840:C:O2'	35:DA:841:A:H5'	2.08	0.53
35:BA:363(A):A:C2	35:BA:363(B):G:C8	2.97	0.53
35:DA:2870:C:O2'	35:DA:2871:C:H5'	2.07	0.53
1:AA:1526:G:H2'	1:AA:1527:C:C6	2.44	0.53
1:AA:1526:G:H2'	1:AA:1527:C:H6	1.74	0.53
35:DA:2090:G:C6	35:DA:2091:U:C4	2.97	0.53
37:BC:65:PRO:HG2	37:BC:189:ILE:HA	1.90	0.53
35:DA:1374:G:H2'	35:DA:1375:C:C6	2.43	0.53
1:CA:509:A:H4'	1:CA:510:A:OP1	2.08	0.53
35:DA:1754:C:H2'	35:DA:1755:A:O4'	2.09	0.53
50:DT:53:ARG:CG	50:DT:53:ARG:NH1	2.72	0.53
43:BI:123:LEU:HG	43:BI:142:VAL:HB	1.89	0.53
43:BI:89:TYR:O	43:BI:121:LYS:HE2	2.08	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:CN:42:ILE:O	14:CN:43:CYS:C	2.47	0.53
14:CN:44:LEU:O	14:CN:44:LEU:HD12	2.09	0.53
38:DD:182:LEU:O	38:DD:271:ILE:HD12	2.08	0.53
45:BO:87:ILE:HD12	45:BO:92:GLU:N	2.24	0.53
50:BT:81:PRO:O	50:BT:82:LEU:HD12	2.09	0.53
47:BQ:134:ARG:CG	47:BQ:135:ASP:H	2.13	0.53
47:BQ:28:ALA:HB1	47:BQ:29:PHE:CD1	2.44	0.53
35:BA:558:G:OP1	44:BN:111:PRO:HD2	2.09	0.53
52:BV:19:LYS:C	52:BV:20:LEU:HD12	2.29	0.53
1:AA:979:C:OP1	1:AA:1223:C:N4	2.42	0.53
14:AN:34:TYR:C	14:AN:36:PHE:N	2.62	0.53
27:B1:58:ILE:CD1	27:B1:59:THR:N	2.64	0.53
27:B1:86:SER:N	27:B1:87:PRO:CD	2.72	0.53
2:AB:80:ILE:HD13	2:AB:212:GLN:HA	1.91	0.53
41:BG:55:LYS:C	41:BG:57:ALA:N	2.62	0.53
41:BG:67:LYS:O	41:BG:92:VAL:HG23	2.09	0.53
54:DX:39:ILE:C	54:DX:39:ILE:HD12	2.29	0.53
54:DX:83:VAL:O	54:DX:84:ALA:CB	2.56	0.53
32:D6:10:LEU:H	32:D6:10:LEU:HD22	1.73	0.53
51:DU:68:ALA:O	51:DU:71:GLN:N	2.41	0.53
51:DU:90:VAL:CG1	52:DV:39:LEU:HB3	2.35	0.53
1:AA:1207:G:O2'	1:AA:1208:C:H5'	2.09	0.53
19:CS:16:LEU:HB3	19:CS:20:LEU:HD11	1.91	0.53
36:BB:28:C:N4	36:BB:56:G:H1	2.07	0.53
49:BS:92:TYR:HB3	49:BS:97:ARG:HH11	1.74	0.53
4:CD:59:ARG:HH11	4:CD:59:ARG:HG2	1.73	0.53
35:BA:237:C:H2'	35:BA:238:C:C6	2.42	0.53
40:BF:45:ARG:HG3	40:BF:46:ARG:H	1.74	0.53
35:BA:2574:G:H2'	35:BA:2575:C:C6	2.44	0.53
35:DA:2415:G:C3'	46:DP:66:GLY:HA3	2.37	0.53
35:DA:1142(A):A:C5	35:DA:1144:G:C5	2.96	0.53
35:BA:251:A:H5''	46:BP:51:PHE:HZ	1.66	0.53
52:BV:89:GLN:HA	52:BV:89:GLN:NE2	2.24	0.53
48:BR:35:THR:HG23	48:BR:112:ALA:O	2.09	0.53
49:DS:26:LEU:HD23	49:DS:28:VAL:HG22	1.91	0.53
2:CB:74:LYS:CG	2:CB:77:ALA:HB3	2.39	0.53
35:DA:684:G:H22	35:DA:787:U:H2'	1.72	0.53
35:DA:1238:G:H2'	35:DA:1239:G:H8	1.74	0.53
1:AA:985:C:H2'	1:AA:986:A:H8	1.73	0.53
44:DN:76:SER:O	44:DN:77:GLY:C	2.47	0.53
1:AA:1108:G:OP2	3:AC:174:PRO:HA	2.09	0.53
43:BI:5:LEU:O	43:BI:6:LEU:HG	2.08	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:AY:84:ARG:HE	25:AY:92:PRO:CD	2.19	0.53
18:AR:85:LEU:HG	18:AR:86:VAL:N	2.17	0.53
33:B7:30:VAL:CG1	33:B7:33:ARG:HH22	2.22	0.53
43:BI:114:LEU:O	43:BI:115:ALA:HB3	2.09	0.53
20:AT:56:MET:O	20:AT:60:GLU:HB2	2.07	0.53
2:CB:144:ARG:HG3	2:CB:145:LEU:N	2.24	0.53
8:CH:27:PRO:HG3	8:CH:58:TYR:CE2	2.44	0.53
8:CH:7:ALA:O	8:CH:8:ASP:C	2.47	0.53
5:AE:145:LYS:HG2	5:AE:149:GLU:OE1	2.09	0.53
35:DA:2119:A:H3'	35:DA:2120:G:H5''	1.91	0.53
35:BA:272(B):G:H2'	35:BA:272(C):G:H8	1.73	0.53
35:DA:543:C:H6	35:DA:547:A:C8	2.26	0.53
46:BP:96:THR:HB	46:BP:97:PRO:CD	2.38	0.53
16:CP:49:LEU:HD22	16:CP:73:LEU:HD13	1.90	0.53
16:CP:48:TRP:HE3	16:CP:49:LEU:N	2.06	0.53
17:AQ:95:TYR:C	17:AQ:97:SER:N	2.61	0.53
17:AQ:71:PHE:N	17:AQ:71:PHE:CD2	2.76	0.53
17:AQ:71:PHE:N	17:AQ:71:PHE:HD2	2.07	0.53
5:AE:78:HIS:HD2	8:AH:104:ARG:HE	1.56	0.53
5:CE:80:ILE:CG1	5:CE:91:LEU:HB2	2.38	0.53
1:AA:1253:G:H2'	1:AA:1254:C:H6	1.74	0.53
3:CC:84:ILE:O	3:CC:88:ARG:HG3	2.09	0.53
3:AC:84:ILE:O	3:AC:88:ARG:HG3	2.09	0.53
35:BA:1312:U:OP2	54:BX:62:LYS:HE2	2.08	0.53
29:B3:21:ALA:O	29:B3:24:LYS:N	2.38	0.53
1:AA:1298:C:C6	7:AG:114:ARG:NH1	2.76	0.53
1:AA:340:U:H2'	1:AA:341:C:C6	2.43	0.53
54:DX:12:VAL:HG11	54:DX:27:THR:CG2	2.37	0.53
11:AK:122:LYS:O	11:AK:126:ARG:CB	2.57	0.53
53:BW:18:ARG:HG2	53:BW:18:ARG:HH11	1.74	0.53
1:CA:1238:A:H62	1:CA:1301:U:H3	1.56	0.53
35:DA:2351:G:HO2'	35:DA:2352:A:H8	1.57	0.53
45:DO:97:ARG:HG3	45:DO:97:ARG:HH11	1.74	0.53
35:BA:1407:C:O2	35:BA:1407:C:H2'	2.08	0.53
3:AC:57:ILE:HG23	3:AC:64:VAL:CG1	2.39	0.53
44:BN:3:THR:C	44:BN:5:VAL:H	2.12	0.53
35:DA:2843:G:H1	35:DA:2874:C:N4	2.06	0.53
1:CA:1155:G:C2'	1:CA:1156:G:H5'	2.39	0.53
38:DD:125:ILE:CD1	38:DD:125:ILE:N	2.72	0.53
1:AA:702:A:H3'	1:AA:703:G:C5'	2.38	0.53
35:DA:1014:U:H2'	35:DA:1015:G:O4'	2.08	0.53
4:CD:196:LEU:HD12	4:CD:196:LEU:H	1.74	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:745:C:H2'	1:AA:746:A:C8	2.44	0.53
35:BA:2380:C:H2'	35:BA:2381:C:H6	1.73	0.53
35:BA:845:G:H8	35:BA:845:G:OP2	1.92	0.53
19:CS:18:LYS:HA	19:CS:21:GLU:HG2	1.90	0.53
1:AA:1023:G:H2'	1:AA:1024:G:H5'	1.91	0.53
49:DS:11:LYS:N	49:DS:11:LYS:HD3	2.24	0.53
35:DA:1543:C:O2	35:DA:1543:C:H2'	2.08	0.53
35:BA:2790:A:H2'	35:BA:2790:A:N3	2.23	0.53
35:BA:2658:C:H41	35:BA:2664:G:N2	2.06	0.53
35:DA:1665:A:H1'	45:DO:1:MET:HE3	1.91	0.53
50:DT:63:VAL:O	50:DT:73:GLU:HA	2.09	0.53
14:CN:34:TYR:C	14:CN:36:PHE:N	2.62	0.53
41:DG:115:ARG:HH12	41:DG:136:ARG:HD2	1.74	0.53
34:B8:30:ARG:HE	46:BP:62:LEU:CB	2.22	0.53
39:BE:24:THR:OG1	39:BE:188:VAL:HG11	2.08	0.53
50:BT:28:VAL:O	50:BT:29:ARG:HD3	2.09	0.53
47:BQ:141:GLN:HG2	56:BZ:72:ARG:HE	1.73	0.53
56:BZ:103:ARG:CB	56:BZ:138:GLU:HA	2.32	0.53
3:AC:5:ILE:HD13	3:AC:5:ILE:O	2.08	0.53
51:BU:65:ILE:HD12	51:BU:65:ILE:N	2.24	0.53
51:BU:95:LEU:HA	51:BU:97:ASP:OD1	2.09	0.53
54:BX:57:LEU:HD12	54:BX:76:ARG:CD	2.39	0.53
39:DE:55:ASN:CG	39:DE:75:VAL:HG13	2.29	0.53
39:DE:77:ILE:HG23	39:DE:78:LEU:H	1.73	0.53
27:B1:66:HIS:C	27:B1:68:PRO:HD2	2.29	0.53
27:B1:64:ALA:C	27:B1:67:ILE:HG13	2.27	0.53
41:BG:94:LEU:HD13	41:BG:102:PHE:CD1	2.44	0.53
35:DA:300:A:H5''	55:DY:97:ARG:HH12	1.73	0.53
28:D2:15:LYS:O	28:D2:19:VAL:HG23	2.09	0.53
35:DA:71:A:H5'	35:DA:71:A:H8	1.73	0.53
35:BA:2639:A:C3'	35:BA:2640:G:C5'	2.86	0.53
56:DZ:48:PHE:HA	56:DZ:52:SER:H	1.73	0.53
44:DN:42:TRP:N	51:DU:64:ARG:HH12	2.06	0.53
52:DV:19:LYS:C	52:DV:20:LEU:HD12	2.29	0.53
52:DV:32:THR:CG2	52:DV:33:VAL:H	2.18	0.53
52:DV:37:VAL:HG11	52:DV:53:GLU:OE2	2.09	0.53
52:DV:36:PRO:HG2	52:DV:60:GLU:OE1	2.09	0.53
36:BB:56:G:H4'	36:BB:57:A:C8	2.43	0.53
49:BS:83:LYS:O	49:BS:85:VAL:HG22	2.09	0.53
49:BS:92:TYR:O	49:BS:93:LYS:HB2	2.07	0.53
35:DA:1024:G:C8	35:DA:1025:G:H2'	2.43	0.53
44:DN:74:ARG:NH2	44:DN:101:HIS:O	2.39	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:252:G:OP2	46:BP:50:ARG:NH1	2.42	0.53
35:BA:807:U:O2'	35:BA:808:G:H5'	2.09	0.53
40:BF:68:LYS:O	40:BF:69:HIS:HB2	2.09	0.53
35:DA:443:A:H1'	35:DA:1201:C:O4'	2.08	0.53
1:AA:102:G:H2'	1:AA:103:C:C6	2.44	0.53
56:BZ:149:SER:HB2	56:BZ:172:ALA:O	2.09	0.53
2:CB:193:ASP:OD2	2:CB:196:LEU:HD21	2.08	0.53
35:BA:1856:G:H2'	35:BA:1857:G:H5'	1.91	0.53
1:AA:544:G:H2'	1:AA:545:C:H6	1.74	0.53
25:CY:173:ASP:O	25:CY:175:LEU:N	2.42	0.53
35:BA:1215:G:H2'	35:BA:1216:G:C8	2.44	0.53
43:BI:10:GLU:CD	43:BI:11:ASN:N	2.63	0.53
16:AP:48:TRP:CE3	16:AP:49:LEU:HB3	2.44	0.53
1:AA:1217:C:H2'	1:AA:1218:C:C6	2.44	0.53
1:CA:940:C:H2'	1:CA:941:G:H8	1.74	0.53
35:BA:1430:C:H2'	35:BA:1431:U:C6	2.44	0.53
35:DA:2260:C:H2'	35:DA:2261:C:H6	1.74	0.53
1:AA:599:C:O3'	8:AH:96:GLY:HA2	2.09	0.53
2:CB:89:GLY:O	2:CB:154:LEU:HD13	2.08	0.53
12:AL:89:ARG:NH1	12:AL:90:VAL:N	2.57	0.53
8:AH:29:SER:O	8:AH:32:LYS:HB2	2.08	0.53
35:DA:2528:U:H2'	35:DA:2530:A:O5'	2.09	0.53
12:CL:89:ARG:C	12:CL:89:ARG:HD3	2.29	0.53
9:CI:28:VAL:HG13	9:CI:63:ILE:C	2.29	0.53
46:DP:96:THR:O	46:DP:99:LEU:HB3	2.09	0.53
38:BD:133:LEU:O	38:BD:134:ARG:C	2.47	0.53
46:DP:74:GLU:OE2	46:DP:74:GLU:HA	2.08	0.53
1:AA:678:U:H2'	1:AA:679:C:H6	1.66	0.53
29:D3:7:LYS:C	29:D3:54:VAL:HG13	2.28	0.53
40:DF:9:ILE:O	40:DF:128:ALA:HB2	2.09	0.53
32:B6:36:LEU:HD13	32:B6:50:ARG:HH12	1.71	0.53
35:BA:1485:G:H2'	35:BA:1486:A:H8	1.73	0.53
32:D6:47:THR:HG22	32:D6:48:VAL:N	2.24	0.53
3:CC:70:VAL:O	3:CC:105:GLU:HA	2.09	0.53
38:BD:193:VAL:O	38:BD:193:VAL:HG13	2.09	0.53
13:CM:69:GLU:CB	13:CM:72:ALA:HB3	2.38	0.53
35:DA:1952:A:C5	45:DO:22:ILE:HD12	2.44	0.53
1:AA:1256:A:N6	1:AA:1278:U:H1'	2.24	0.53
7:AG:47:CYS:HB3	7:AG:58:PRO:HG3	1.90	0.53
15:AO:17:ARG:NH1	15:AO:17:ARG:HG3	2.23	0.53
29:D3:40:THR:HG23	29:D3:43:ILE:H	1.72	0.53
1:CA:1096:C:H5"	2:CB:137:ARG:NH2	2.24	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:524:U:H4'	35:DA:555:U:H4'	1.91	0.53
6:AF:19:LEU:HD23	6:AF:19:LEU:C	2.28	0.53
1:CA:340:U:H2'	1:CA:341:C:C6	2.41	0.53
35:DA:2380:C:H2'	35:DA:2381:C:H6	1.74	0.53
5:CE:57:LYS:HE2	5:CE:61:TYR:CE2	2.42	0.53
46:DP:122:PRO:HA	46:DP:141:ALA:O	2.08	0.53
56:DZ:55:HIS:CE1	56:DZ:135:GLU:HA	2.44	0.53
1:AA:1155:G:O2'	1:AA:1156:G:H5'	2.09	0.53
35:DA:1518:U:H2'	35:DA:1519:G:C8	2.43	0.53
50:BT:58:ASN:ND2	50:BT:58:ASN:N	2.56	0.53
35:BA:35:G:O2'	35:BA:36:G:H5'	2.08	0.53
51:DU:24:TYR:HB2	51:DU:29:SER:CB	2.39	0.53
35:BA:2768:C:O2'	35:BA:2769:C:H5'	2.09	0.53
1:AA:1067:A:O5'	1:AA:1067:A:H8	1.91	0.53
35:DA:210:C:O2'	35:DA:211:A:H5'	2.09	0.53
1:CA:231:G:O2'	1:CA:232:G:H5'	2.09	0.53
35:BA:1630:G:H2'	35:BA:1631:C:H6	1.74	0.53
35:DA:2711:A:OP1	35:DA:2712(A):A:P	2.67	0.53
45:DO:24:VAL:HG21	45:DO:32:TYR:O	2.09	0.53
14:CN:39:LEU:HD11	14:CN:47:LEU:HD12	1.91	0.53
35:DA:1799:G:O3'	38:DD:264:LYS:NZ	2.42	0.53
35:BA:2383:G:O2'	35:BA:2384:G:H5'	2.09	0.53
35:BA:631:A:H4'	46:BP:65:ARG:HA	1.91	0.53
46:BP:65:ARG:HH11	46:BP:65:ARG:HG3	1.74	0.53
35:BA:2685:G:C2	35:BA:2686:G:N7	2.76	0.53
50:BT:28:VAL:CG2	50:BT:46:GLU:HA	2.39	0.53
50:BT:80:SER:O	50:BT:82:LEU:N	2.41	0.53
47:BQ:26:TYR:O	47:BQ:27:VAL:C	2.48	0.53
56:BZ:150:LEU:CD2	56:BZ:150:LEU:H	2.11	0.53
56:BZ:166:SER:HB2	56:BZ:168:GLU:H	1.74	0.53
39:BE:49:LEU:HD23	39:BE:81:ILE:HG12	1.91	0.53
52:BV:36:PRO:HG2	52:BV:60:GLU:OE1	2.07	0.53
52:BV:5:VAL:HG22	52:BV:6:LYS:N	2.24	0.53
42:DH:89:ILE:CG1	42:DH:90:LYS:H	2.22	0.53
35:BA:1348:G:C3'	35:BA:1349:A:H5''	2.39	0.53
54:BX:52:VAL:O	54:BX:53:LYS:HB3	2.09	0.53
39:DE:34:VAL:O	39:DE:35:GLN:HB2	2.09	0.53
27:B1:54:ALA:HB2	27:B1:57:GLU:OE1	2.09	0.53
35:BA:2314:C:O2'	35:BA:2315:G:H5'	2.09	0.53
41:BG:6:ALA:O	41:BG:10:LYS:N	2.31	0.53
42:BH:164:TYR:O	42:BH:165:ALA:HB2	2.08	0.53
36:DB:104:U:H2'	36:DB:105:A:H8	1.74	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
56:DZ:26:GLY:O	56:DZ:37:VAL:N	2.42	0.53
49:BS:42:ASP:O	49:BS:44:LYS:N	2.42	0.53
49:BS:53:SER:OG	49:BS:54:LEU:N	2.42	0.53
35:BA:235:U:H2'	35:BA:236:C:H6	1.73	0.53
35:DA:443:A:P	35:DA:614(B):G:H22	2.32	0.53
48:DR:38:VAL:HB	48:DR:39:PRO:CD	2.29	0.53
48:DR:44:LEU:HD13	48:DR:48:VAL:HG23	1.91	0.53
48:DR:73:VAL:HG23	48:DR:74:LYS:HD2	1.90	0.53
35:BA:2821:A:OP2	48:BR:2:ARG:NH2	2.41	0.53
2:AB:72:GLY:HA3	2:AB:165:VAL:CG2	2.38	0.53
35:DA:1188:U:H2'	35:DA:1189:A:H5'	1.91	0.53
19:AS:9:VAL:HG12	19:AS:9:VAL:O	2.09	0.53
55:DY:37:VAL:CG2	55:DY:67:LEU:HG	2.39	0.53
6:AF:60:PHE:O	6:AF:61:LEU:HD12	2.09	0.53
1:CA:792:A:H4'	1:CA:793:U:O5'	2.08	0.53
25:CY:164:ILE:HD12	25:CY:164:ILE:N	2.22	0.53
43:BI:17:GLN:HG2	43:BI:18:VAL:N	2.21	0.53
1:CA:223:U:H2'	1:CA:224:C:H6	1.74	0.53
35:BA:2248:C:H2'	35:BA:2249:U:H5'	1.91	0.53
55:BY:29:GLU:N	55:BY:29:GLU:OE1	2.42	0.53
11:AK:43:SER:CA	11:AK:47:VAL:HG21	2.37	0.53
20:AT:63:ILE:HD12	20:AT:81:LYS:CG	2.39	0.53
1:CA:527:G:O2'	1:CA:528:C:H5'	2.09	0.53
46:DP:124:LYS:HA	46:DP:143:GLY:HA3	1.91	0.53
5:CE:145:LYS:HG2	5:CE:149:GLU:OE1	2.08	0.53
11:CK:33:THR:C	11:CK:40:ILE:HG12	2.30	0.53
35:BA:1614:A:N1	53:BW:87:PRO:HB3	2.23	0.53
53:BW:14:PRO:HG3	53:BW:101:SER:OG	2.09	0.53
1:CA:1116:C:H3'	1:CA:1117:G:H5''	1.91	0.53
13:CM:22:ILE:HG21	13:CM:25:ILE:HD12	1.90	0.53
35:DA:2114:A:N3	35:DA:2114:A:H2'	2.23	0.53
51:BU:3:ARG:NH1	51:BU:3:ARG:CG	2.71	0.53
7:CG:50:ILE:HG13	7:CG:58:PRO:HB3	1.91	0.53
31:B5:2:ALA:HB2	35:BA:2014:A:HO2'	1.72	0.53
13:AM:2:ALA:O	13:AM:9:ILE:HG13	2.09	0.53
35:BA:1297:C:H2'	35:BA:1298:C:H6	1.74	0.53
35:BA:1835:G:C5'	35:BA:1836:C:OP2	2.56	0.53
9:AI:105:ASP:C	9:AI:107:ARG:H	2.11	0.53
35:DA:1569:A:O2'	38:DD:38:LYS:HE2	2.09	0.53
7:AG:47:CYS:O	7:AG:58:PRO:HG3	2.09	0.53
12:CL:119:LYS:C	12:CL:121:GLY:H	2.11	0.53
35:BA:1721:G:H2'	35:BA:1722:A:H2'	1.90	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:DB:78:A:O2'	36:DB:79:C:H5'	2.09	0.53
1:CA:1090:U:O2'	1:CA:1091:U:H5'	2.09	0.53
27:B1:20:ARG:CZ	27:B1:41:ARG:HE	2.20	0.53
53:DW:51:LEU:O	53:DW:51:LEU:HD22	2.09	0.53
39:BE:171:GLU:O	39:BE:173:VAL:HG23	2.08	0.53
40:DF:31:HIS:HB2	46:DP:13:ASN:OD1	2.09	0.53
1:CA:969:A:H2'	1:CA:970:C:O4'	2.09	0.53
1:CA:76:C:H42	1:CA:93:G:H1	1.57	0.53
1:AA:788:U:O2'	1:AA:789:U:H5'	2.08	0.53
1:AA:164:U:O2'	1:AA:165:C:H5'	2.08	0.53
1:CA:176:C:H2'	1:CA:177:C:C6	2.44	0.53
35:BA:1487:G:N2	35:BA:1488:G:H1'	2.24	0.53
1:CA:788:U:C5	1:CA:789:U:H5	2.26	0.53
36:DB:95:C:O2'	36:DB:96:U:H5'	2.08	0.53
35:BA:858:U:O2	35:BA:2268:A:H2'	2.09	0.53
37:BC:203:GLY:O	37:BC:204:ALA:HB2	2.09	0.53
37:BC:49:ILE:C	37:BC:51:PRO:HD3	2.29	0.53
15:CO:6:GLU:CD	15:CO:6:GLU:H	2.10	0.53
1:AA:1444:C:H2'	1:AA:1445:C:C6	2.43	0.53
23:CW:39:A:H2'	23:CW:40:C:H5'	1.90	0.53
35:DA:1960:A:O2'	35:DA:1961:C:H5'	2.09	0.53
31:B5:7:PRO:HA	35:BA:2615:U:C2	2.44	0.53
53:DW:40:ASN:O	53:DW:41:LYS:HG2	2.09	0.53
35:DA:1666:G:O3'	45:DO:6:THR:HG23	2.09	0.52
50:DT:36:GLU:HB3	50:DT:38:ASN:OD1	2.09	0.52
53:DW:29:LEU:HD23	53:DW:29:LEU:C	2.30	0.52
38:BD:83:GLU:HB2	38:BD:92:ILE:HD11	1.91	0.52
35:DA:1824:G:H2'	35:DA:1825:A:H8	1.73	0.52
41:DG:125:PHE:CE2	41:DG:173:LEU:HD12	2.43	0.52
32:B6:9:LEU:HD23	32:B6:10:LEU:O	2.09	0.52
45:BO:34:THR:O	45:BO:37:ASP:OD2	2.27	0.52
45:BO:63:VAL:HG22	45:BO:84:ALA:CA	2.25	0.52
50:BT:22:PHE:O	50:BT:23:ARG:HB3	2.09	0.52
50:BT:53:ARG:HH11	50:BT:53:ARG:CG	2.21	0.52
56:BZ:80:ARG:O	56:BZ:82:ARG:N	2.42	0.52
51:BU:78:THR:O	51:BU:80:ILE:N	2.42	0.52
52:BV:19:LYS:HG3	52:BV:20:LEU:H	1.74	0.52
52:BV:96:ILE:HG23	52:BV:97:LYS:H	1.73	0.52
41:BG:107:LEU:HD23	41:BG:111:LEU:HD12	1.90	0.52
55:DY:87:LYS:C	55:DY:88:LYS:HD2	2.29	0.52
42:BH:128:PRO:HG2	42:BH:129:THR:CG2	2.35	0.52
55:BY:47:LYS:HG3	55:BY:60:PHE:CE2	2.44	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
56:DZ:144:LEU:HD21	56:DZ:150:LEU:CD1	2.38	0.52
43:DI:83:ALA:HB2	43:DI:88:ILE:HG23	1.91	0.52
40:BF:34:TRP:O	40:BF:37:VAL:N	2.41	0.52
46:DP:71:VAL:HG22	46:DP:72:PRO:N	2.24	0.52
25:AY:37:LEU:HD12	25:AY:38:LEU:HG	1.91	0.52
27:D1:9:GLY:N	27:D1:48:LYS:HZ3	1.97	0.52
27:D1:76:ARG:C	27:D1:78:LYS:HZ2	2.13	0.52
34:D8:29:LYS:O	34:D8:30:ARG:C	2.47	0.52
34:D8:30:ARG:HE	46:DP:62:LEU:CB	2.21	0.52
46:BP:70:GLN:HG3	46:BP:71:VAL:N	2.21	0.52
35:BA:818:G:N2	35:BA:1190:G:C6	2.77	0.52
36:DB:55:U:H4'	41:DG:27:ASN:HD21	1.72	0.52
49:DS:65:VAL:HG12	49:DS:69:VAL:HB	1.91	0.52
35:DA:247:G:H4'	35:DA:386:G:C5	2.45	0.52
35:DA:668:G:C2	35:DA:670:A:C6	2.97	0.52
35:DA:587:C:C6	35:DA:671:C:H1'	2.44	0.52
35:DA:818:G:OP2	35:DA:1187:G:O6	2.27	0.52
40:DF:68:LYS:O	40:DF:69:HIS:CB	2.57	0.52
19:AS:16:LEU:HB3	19:AS:20:LEU:HD11	1.92	0.52
12:AL:8:ASN:O	12:AL:11:VAL:HB	2.09	0.52
43:DI:130:TYR:CB	43:DI:136:VAL:HG13	2.38	0.52
6:AF:75:LEU:HD22	6:AF:79:LEU:HD11	1.91	0.52
1:CA:1496:C:H2'	1:CA:1497:G:C8	2.43	0.52
53:DW:73:ALA:HB3	53:DW:106:ILE:CD1	2.26	0.52
35:DA:26:G:H1'	35:DA:515:A:N6	2.15	0.52
35:DA:27:G:H1'	35:DA:513:A:H62	1.75	0.52
25:CY:114:LEU:O	25:CY:117:ALA:HB3	2.09	0.52
16:AP:1:MET:SD	16:AP:1:MET:N	2.74	0.52
37:BC:44:HIS:HD2	37:BC:175:VAL:N	2.06	0.52
22:AV:40:C:H2'	22:AV:41:C:H6	1.73	0.52
13:AM:82:MET:HB3	13:AM:93:ARG:NH1	2.24	0.52
13:AM:91:ARG:HD3	19:AS:81:ARG:NH2	2.24	0.52
35:DA:224:G:O2'	35:DA:225:A:H5'	2.09	0.52
8:AH:124:ALA:O	8:AH:128:GLY:N	2.40	0.52
8:AH:6:ILE:CG2	8:AH:10:LEU:HD11	2.38	0.52
35:BA:1038:C:H42	35:BA:1117:G:H1	1.57	0.52
35:BA:1175:U:H4'	35:BA:1176:G:C3'	2.38	0.52
38:BD:132:PRO:HD3	38:BD:190:TYR:CZ	2.44	0.52
35:DA:516:C:O2'	35:DA:517:C:H5'	2.09	0.52
46:BP:97:PRO:C	46:BP:99:LEU:H	2.11	0.52
11:CK:20:TYR:C	11:CK:21:ILE:HD12	2.29	0.52
40:DF:9:ILE:HG12	40:DF:14:PRO:C	2.29	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1053:G:C3'	1:AA:1054:C:H5'	2.38	0.52
1:CA:1053:G:C6	1:CA:1199:U:H2'	2.42	0.52
51:BU:3:ARG:HG2	51:BU:3:ARG:NH1	2.19	0.52
35:DA:463:G:N1	35:DA:467:G:C6	2.77	0.52
1:AA:1404:C:H6	1:AA:1404:C:O5'	1.92	0.52
15:AO:67:LEU:HD22	15:AO:78:TYR:CE1	2.44	0.52
17:AQ:86:GLU:O	17:AQ:88:TYR:N	2.41	0.52
35:BA:188:G:H1'	35:BA:1365:A:N1	2.23	0.52
35:DA:1744:C:C2'	35:DA:1745:C:H5'	2.38	0.52
27:B1:20:ARG:HH12	27:B1:41:ARG:NE	2.06	0.52
35:DA:1836:C:O2'	35:DA:1837:C:H5'	2.09	0.52
5:AE:57:LYS:HE2	5:AE:61:TYR:CE2	2.44	0.52
35:DA:154(A):C:C5	35:DA:171:G:N1	2.75	0.52
3:CC:73:PRO:O	3:CC:75:VAL:N	2.42	0.52
45:DO:13:ASN:HD22	45:DO:97:ARG:HB2	1.74	0.52
35:DA:2009:G:H1'	48:DR:107:ASP:C	2.29	0.52
1:AA:358:U:O2'	1:AA:359:U:H5'	2.09	0.52
53:BW:66:GLU:HG2	53:BW:66:GLU:O	2.08	0.52
2:CB:158:LEU:H	2:CB:158:LEU:HD12	1.72	0.52
43:BI:29:TYR:HD1	43:BI:33:ARG:HE	1.57	0.52
11:CK:125:PHE:N	11:CK:125:PHE:CD1	2.77	0.52
3:CC:57:ILE:HG23	3:CC:64:VAL:CG1	2.39	0.52
35:BA:2881:C:C2	35:BA:2882:A:C8	2.97	0.52
35:BA:66:C:H2'	35:BA:67:U:C5'	2.39	0.52
37:BC:99:ILE:HG23	37:BC:103:ILE:CB	2.38	0.52
45:DO:31:LYS:HD2	45:DO:32:TYR:CE1	2.44	0.52
45:DO:62:VAL:HG11	45:DO:65:THR:HG22	1.91	0.52
1:CA:1442(A):G:N2	50:DT:119:LYS:HB2	2.22	0.52
1:CA:1051:C:O2'	1:CA:1052:U:H5'	2.09	0.52
35:BA:1827:C:OP2	38:BD:222:ARG:NH1	2.42	0.52
16:CP:19:ILE:HB	16:CP:37:GLY:CA	2.39	0.52
41:DG:171:ALA:O	41:DG:174:GLU:N	2.42	0.52
41:DG:44:GLY:C	41:DG:46:ALA:N	2.63	0.52
35:BA:2865:U:H3'	35:BA:2866:U:O2	2.09	0.52
50:BT:25:GLY:HA2	50:BT:92:GLY:HA3	1.91	0.52
47:BQ:132:VAL:HG12	47:BQ:133:ARG:N	2.25	0.52
47:BQ:141:GLN:HG2	56:BZ:72:ARG:NE	2.24	0.52
56:BZ:99:TYR:O	56:BZ:100:VAL:HB	2.08	0.52
39:BE:55:ASN:CG	39:BE:75:VAL:HG13	2.29	0.52
35:DA:1419:A:H62	35:DA:1578:U:H3	1.58	0.52
44:BN:40:PRO:CB	51:BU:64:ARG:HH22	2.22	0.52
10:AJ:62:HIS:H	10:AJ:62:HIS:HD2	1.54	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
28:B2:51:ARG:HD3	28:B2:51:ARG:O	2.09	0.52
54:BX:82:GLN:OE1	54:BX:83:VAL:N	2.38	0.52
35:DA:1341:U:OP1	35:DA:1397:U:N3	2.41	0.52
35:DA:874:G:H2'	35:DA:875:G:C8	2.44	0.52
56:DZ:125:LEU:HD23	56:DZ:126:VAL:N	2.24	0.52
56:DZ:53:ILE:HG22	56:DZ:71:VAL:CG2	2.39	0.52
35:DA:535:C:C2'	35:DA:536:A:H5'	2.39	0.52
51:DU:61:TRP:O	51:DU:63:VAL:N	2.42	0.52
52:DV:5:VAL:HG22	52:DV:6:LYS:N	2.24	0.52
49:BS:83:LYS:O	49:BS:85:VAL:HG13	2.09	0.52
4:CD:96:LEU:O	4:CD:98:GLU:N	2.43	0.52
46:BP:70:GLN:HG3	46:BP:71:VAL:HG12	1.91	0.52
35:BA:793:A:OP2	35:BA:2071:A:O2'	2.25	0.52
40:DF:114:VAL:HG21	40:DF:202:PHE:CE2	2.44	0.52
48:DR:87:TYR:O	48:DR:89:ASP:N	2.41	0.52
20:AT:48:LYS:HB2	20:AT:52:ALA:HB2	1.91	0.52
2:AB:36:ARG:N	2:AB:41:ILE:HD13	2.23	0.52
44:BN:56:ASN:HA	44:BN:125:GLY:N	2.23	0.52
1:CA:833:U:H2'	1:CA:834:C:C6	2.45	0.52
35:DA:993:G:OP1	51:DU:50:ARG:NH2	2.42	0.52
1:CA:1234:C:H4'	1:CA:1364:U:H1'	1.91	0.52
55:DY:18:GLY:C	55:DY:20:TYR:H	2.12	0.52
4:AD:65:ARG:HH11	4:AD:72:GLU:CA	2.22	0.52
35:DA:910:A:H2'	35:DA:911:A:C8	2.44	0.52
42:DH:45:VAL:HG12	42:DH:45:VAL:O	2.08	0.52
2:AB:115:LEU:HD21	2:AB:153:ARG:HE	1.74	0.52
7:AG:105:VAL:O	7:AG:108:ALA:HB3	2.10	0.52
25:CY:28:LEU:O	25:CY:37:LEU:HD13	2.09	0.52
19:CS:62:ILE:HD12	19:CS:63:THR:N	2.24	0.52
16:AP:1:MET:SD	16:AP:3:LYS:HE3	2.49	0.52
16:AP:72:ARG:C	16:AP:74:LEU:N	2.61	0.52
20:CT:48:LYS:HB2	20:CT:52:ALA:HB2	1.91	0.52
11:CK:87:THR:HA	11:CK:91:ARG:CG	2.39	0.52
11:AK:21:ILE:CG1	11:AK:84:VAL:HG12	2.39	0.52
35:BA:109:G:H2'	35:BA:110:G:H8	1.75	0.52
35:DA:262:A:H2'	35:DA:263:C:O4'	2.08	0.52
1:AA:184:G:O2'	1:AA:185:A:H5'	2.09	0.52
43:DI:37:VAL:CG1	43:DI:38:LEU:N	2.72	0.52
9:AI:7:THR:N	9:AI:83:ARG:HD2	2.23	0.52
12:CL:60:LEU:HD22	12:CL:60:LEU:N	2.24	0.52
29:B3:7:LYS:C	29:B3:54:VAL:HG13	2.29	0.52
35:DA:494:G:H21	53:DW:57:ASN:HD21	1.55	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
19:CS:53:ASN:N	19:CS:53:ASN:HD22	2.07	0.52
35:DA:680:G:H2'	35:DA:681:G:C8	2.44	0.52
32:D6:20:ASN:HD22	32:D6:21:TYR:H	1.53	0.52
38:BD:130:ALA:HB2	38:BD:192:THR:HB	1.91	0.52
53:BW:74:ALA:O	53:BW:75:TYR:HB3	2.09	0.52
1:AA:644:G:O2'	1:AA:645:C:H5'	2.09	0.52
35:BA:32:C:H42	35:BA:473:G:H1	1.57	0.52
1:AA:1418:A:C2	1:AA:1483:A:C2	2.97	0.52
35:BA:1297:C:H2'	35:BA:1298:C:C6	2.43	0.52
9:AI:10:ARG:O	9:AI:11:LYS:HB3	2.09	0.52
1:AA:1366:C:H2'	1:AA:1367:C:H6	1.70	0.52
1:CA:1096:C:O2'	1:CA:1097:C:H5'	2.09	0.52
26:B0:27:GLU:N	26:B0:69:PHE:CE1	2.74	0.52
38:DD:9:TYR:C	38:DD:10:THR:HG22	2.29	0.52
35:DA:2290:G:H2'	35:DA:2291:U:C6	2.44	0.52
3:CC:76:VAL:HG23	3:CC:77:ILE:HG13	1.90	0.52
53:DW:48:ALA:O	53:DW:51:LEU:N	2.43	0.52
46:DP:13:ASN:HD22	46:DP:13:ASN:N	2.03	0.52
25:CY:78:ALA:HA	25:CY:81:LYS:HB2	1.91	0.52
17:CQ:10:VAL:HG21	17:CQ:55:ASP:HB2	1.90	0.52
35:DA:1434:A:H2'	35:DA:1435:G:H8	1.68	0.52
1:CA:1287:A:C6	1:CA:1288:A:N6	2.76	0.52
10:CJ:85:LEU:O	10:CJ:87:THR:N	2.43	0.52
19:CS:27:GLU:O	19:CS:28:LYS:HD2	2.07	0.52
35:BA:1518:U:H2'	35:BA:1519:G:C8	2.44	0.52
35:DA:1197:G:H2'	35:DA:1198:U:C6	2.44	0.52
35:BA:1434:A:H2'	35:BA:1435:G:H8	1.74	0.52
35:DA:1210:A:O2'	35:DA:1211:U:OP2	2.26	0.52
1:CA:967:C:H2'	1:CA:968:A:C8	2.44	0.52
5:AE:15:ARG:HG2	5:AE:26:PHE:HD2	1.74	0.52
1:CA:745:C:H2'	1:CA:746:A:C8	2.44	0.52
57:DC:73:ARG:HA	57:DC:92:ASP:OD1	2.09	0.52
1:AA:624:C:H4'	16:AP:10:GLY:HA2	1.91	0.52
36:BB:87:G:H2'	36:BB:88:C:H5''	1.90	0.52
1:AA:139:G:O2'	1:AA:140:A:H5'	2.09	0.52
10:CJ:92:THR:HG23	10:CJ:93:GLY:N	2.24	0.52
35:DA:2729:G:H2'	35:DA:2730:C:C6	2.44	0.52
50:DT:51:ARG:HH11	50:DT:51:ARG:HG3	1.74	0.52
30:D4:14:ILE:CB	41:DG:5:VAL:HG13	2.39	0.52
5:CE:129:ILE:O	5:CE:130:ASN:C	2.48	0.52
35:DA:2313:C:P	41:DG:71:THR:HG21	2.49	0.52
34:B8:39:LYS:NZ	34:B8:43:GLN:HG3	2.24	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
56:BZ:28:MET:HA	56:BZ:88:PHE:O	2.10	0.52
35:BA:2809:A:C2	35:BA:2892:A:N3	2.77	0.52
51:BU:74:LEU:CD1	51:BU:79:PHE:HB2	2.39	0.52
52:BV:37:VAL:HG11	52:BV:53:GLU:OE2	2.10	0.52
52:BV:93:GLU:HG2	52:BV:94:LEU:N	2.24	0.52
28:B2:47:ASN:HA	28:B2:50:ILE:O	2.09	0.52
54:BX:73:ARG:HG3	54:BX:73:ARG:O	2.09	0.52
54:BX:55:ASN:HB2	54:BX:77:LYS:CD	2.40	0.52
39:DE:50:GLY:CA	39:DE:74:PRO:HG3	2.40	0.52
35:DA:1860:G:H2'	35:DA:1861:G:H8	1.74	0.52
27:B1:17:SER:O	27:B1:44:PRO:HD2	2.08	0.52
41:BG:116:ASP:CG	41:BG:117:PHE:H	2.12	0.52
36:BB:45:A:C8	41:BG:95:ARG:NE	2.78	0.52
35:DA:1348:G:C3'	35:DA:1349:A:H5''	2.40	0.52
42:BH:89:ILE:H	42:BH:89:ILE:HD13	1.75	0.52
1:CA:1320:C:H2'	1:CA:1321:C:O4'	2.09	0.52
1:CA:429:U:C1'	1:CA:430:A:H5''	2.39	0.52
4:CD:153:ARG:HB3	4:CD:153:ARG:HH11	1.73	0.52
4:CD:156:GLU:O	4:CD:159:ARG:HB2	2.10	0.52
35:BA:443:A:P	35:BA:614(B):G:H22	2.32	0.52
46:BP:71:VAL:HG22	46:BP:72:PRO:N	2.24	0.52
34:B8:61:LEU:O	34:B8:64:TYR:HD1	1.93	0.52
35:BA:1197:G:H2'	35:BA:1198:U:C6	2.45	0.52
35:BA:589:C:O2'	35:BA:590:A:H5'	2.10	0.52
35:DA:442:G:C4'	40:DF:46:ARG:HD3	2.39	0.52
35:BA:1652:A:H62	48:BR:11:ASN:ND2	2.07	0.52
36:DB:114:C:O2'	49:DS:47:THR:HB	2.08	0.52
35:DA:189:G:C4	35:DA:205:G:N2	2.77	0.52
2:CB:41:ILE:N	2:CB:41:ILE:HD12	2.24	0.52
35:DA:1259:G:O2'	35:DA:1260:G:H5'	2.09	0.52
35:DA:819:A:OP2	35:DA:1187:G:N2	2.31	0.52
40:DF:57:VAL:CG1	40:DF:58:ALA:N	2.72	0.52
43:DI:109:ILE:HD12	43:DI:109:ILE:O	2.09	0.52
43:DI:94:ALA:HA	43:DI:97:ILE:HB	1.90	0.52
35:DA:579:G:H2'	35:DA:580:C:C6	2.45	0.52
12:CL:24:VAL:HG12	12:CL:24:VAL:O	2.08	0.52
21:AU:18:TYR:CD2	21:AU:24:ARG:HG3	2.44	0.52
17:CQ:29:HIS:HA	17:CQ:36:ILE:HD11	1.90	0.52
51:BU:31:SER:O	51:BU:33:ARG:N	2.43	0.52
35:BA:2262:U:H4'	35:BA:2328:A:H2	1.74	0.52
35:DA:927:G:O6	35:DA:928:G:C2	2.62	0.52
1:CA:1108:G:OP2	3:CC:174:PRO:HA	2.08	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:DV:78:LYS:HD3	52:DV:79:VAL:CA	2.40	0.52
9:CI:11:LYS:C	9:CI:13:ALA:H	2.12	0.52
9:CI:65:VAL:CG2	9:CI:66:ARG:N	2.73	0.52
1:AA:527:G:C2'	1:AA:528:C:H5'	2.39	0.52
18:AR:59:SER:N	18:AR:62:GLU:OE1	2.42	0.52
35:BA:2537:U:H2'	35:BA:2538:C:C6	2.43	0.52
31:B5:40:LYS:HZ2	31:B5:45:VAL:HA	1.72	0.52
19:AS:53:ASN:N	19:AS:53:ASN:ND2	2.55	0.52
15:CO:9:GLN:HB3	15:CO:13:GLN:NE2	2.17	0.52
1:AA:269:C:H2'	1:AA:270:A:H8	1.74	0.52
50:BT:13:ARG:NH1	50:BT:15:VAL:HG12	2.24	0.52
35:BA:494:G:H21	53:BW:57:ASN:HD21	1.55	0.52
35:BA:2171:A:HO2'	35:BA:2172:U:H6	1.55	0.52
35:BA:149:A:C2	35:BA:150:C:C2	2.98	0.52
1:CA:237:C:O2'	1:CA:238:G:H5'	2.08	0.52
25:CY:73:GLN:O	25:CY:77:LYS:HE3	2.09	0.52
53:DW:20:VAL:HG21	53:DW:47:VAL:HG21	1.92	0.52
46:DP:19:VAL:HG23	46:DP:19:VAL:O	2.10	0.52
4:CD:131:ARG:O	4:CD:132:ARG:C	2.46	0.52
41:BG:139:LEU:HD22	41:BG:146:TYR:HE1	1.74	0.52
35:BA:705:A:O2'	35:BA:706:A:H5'	2.10	0.52
35:DA:1469:A:O2'	35:DA:1470:G:H5'	2.08	0.52
35:BA:1006:C:N3	35:BA:1138:G:C2	2.77	0.52
43:BI:58:LEU:C	43:BI:58:LEU:HD23	2.30	0.52
1:CA:1367:C:OP1	9:CI:115:GLY:N	2.39	0.52
44:DN:13:TRP:O	44:DN:135:PRO:HD2	2.09	0.52
7:CG:49:ILE:HG22	7:CG:53:LYS:HG3	1.92	0.52
35:BA:1841:U:H2'	35:BA:1842:G:H8	1.72	0.52
12:AL:34:ARG:HB3	12:AL:61:THR:CG2	2.38	0.52
25:CY:35:PRO:HA	25:CY:66:LEU:HD21	1.92	0.52
1:CA:475:G:H2'	1:CA:476:G:H8	1.74	0.52
35:DA:271(H):G:HO2'	35:DA:271(I):G:H8	1.57	0.52
38:BD:201:HIS:C	38:BD:203:ASN:H	2.13	0.52
1:AA:364:A:H2'	1:AA:365:U:O2	2.09	0.52
35:DA:701:G:O2'	35:DA:702:G:H5'	2.09	0.52
1:CA:129(A):G:H21	1:CA:189(F):U:H5''	1.74	0.52
35:DA:1430:C:H2'	35:DA:1431:U:H6	1.72	0.52
2:CB:9:GLU:O	2:CB:13:ALA:HB2	2.10	0.52
1:AA:1037:C:H2'	1:AA:1038:C:C6	2.44	0.52
7:CG:126:ASP:HB3	7:CG:132:GLY:CA	2.39	0.52
35:DA:477:A:H2'	35:DA:478:A:C8	2.45	0.52
1:AA:622:A:C8	1:AA:623:C:C5	2.97	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
45:DO:98:VAL:HG22	45:DO:99:PHE:N	2.25	0.52
50:DT:25:GLY:HA2	50:DT:92:GLY:HA3	1.91	0.52
1:CA:1208:C:H2'	1:CA:1209:C:H6	1.73	0.52
38:BD:160:GLY:N	38:BD:196:VAL:HB	2.24	0.52
38:BD:39:LYS:HB2	38:BD:62:TYR:HB2	1.90	0.52
5:CE:31:LEU:CD1	5:CE:129:ILE:HA	2.39	0.52
41:DG:156:ASP:O	41:DG:157:ILE:O	2.26	0.52
35:BA:1999:C:H4'	35:BA:2723:C:O2	2.08	0.52
39:BE:128:SER:O	39:BE:129:HIS:CB	2.55	0.52
45:BO:16:ALA:CB	45:BO:43:VAL:HG13	2.36	0.52
39:DE:116:VAL:CG2	39:DE:122:PHE:CG	2.92	0.52
35:BA:2807:G:C3'	35:BA:2808:U:H5''	2.40	0.52
51:BU:64:ARG:NH2	51:BU:64:ARG:HA	2.25	0.52
52:BV:34:GLU:C	52:BV:62:LEU:HD12	2.29	0.52
1:AA:973:G:H1'	10:AJ:54:PHE:CE1	2.44	0.52
35:DA:2805:G:H22	35:DA:2893:G:H1	1.57	0.52
39:DE:52:LEU:HB2	39:DE:76:ARG:CB	2.34	0.52
39:DE:59:VAL:O	39:DE:62:PRO:HD2	2.09	0.52
27:B1:64:ALA:O	27:B1:67:ILE:CG1	2.50	0.52
41:BG:138:GLN:HB3	41:BG:153:ARG:O	2.10	0.52
41:BG:98:ARG:O	41:BG:101:ILE:HG23	2.10	0.52
28:D2:22:GLU:C	28:D2:24:LEU:N	2.63	0.52
47:DQ:119:ARG:HG2	47:DQ:120:ILE:CD1	2.36	0.52
35:DA:2040:C:H2'	35:DA:2041:U:H6	1.74	0.52
3:CC:109:PRO:O	3:CC:115:LEU:HD12	2.08	0.52
1:CA:1321:C:H5''	1:CA:1322:C:H5''	1.89	0.52
4:CD:119:GLN:HE21	4:CD:123:HIS:CD2	2.27	0.52
4:CD:65:ARG:NH1	4:CD:72:GLU:N	2.57	0.52
35:DA:271(Q):G:H2'	35:DA:271(R):G:H8	1.74	0.52
46:BP:71:VAL:CB	46:BP:72:PRO:HD3	2.38	0.52
5:AE:50:GLU:OE2	5:AE:51:VAL:HG23	2.10	0.52
49:DS:24:LEU:O	49:DS:86:ALA:HB3	2.10	0.52
1:AA:402:G:H4'	1:AA:620:C:N3	2.24	0.52
35:DA:111:A:O2'	35:DA:112:U:H5'	2.08	0.52
1:AA:425:G:H2'	1:AA:426:G:C8	2.43	0.52
4:AD:18:LYS:CE	4:AD:31:CYS:SG	2.98	0.52
1:AA:539:A:OP1	12:AL:114:LYS:HE2	2.09	0.52
35:DA:959:A:H2'	35:DA:960:A:C8	2.45	0.52
35:DA:1132:A:H2'	35:DA:1133:U:C6	2.44	0.52
27:B1:33:LYS:HG2	27:B1:34:THR:N	2.21	0.52
21:AU:21:TYR:CD1	21:AU:21:TYR:N	2.75	0.52
1:AA:376:G:H2'	1:AA:377:G:C8	2.45	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
17:CQ:31:LEU:HG	17:CQ:32:TYR:CE2	2.44	0.52
35:BA:2619:C:O2'	35:BA:2620:C:H5'	2.09	0.52
35:BA:2250:G:C6	47:BQ:82:ARG:HD2	2.44	0.52
35:BA:1431:U:O2'	35:BA:1432:C:H5'	2.10	0.52
19:AS:63:THR:HG22	19:AS:66:MET:HE2	1.91	0.52
12:AL:60:LEU:HD22	12:AL:60:LEU:N	2.24	0.52
35:BA:79:G:O2'	35:BA:80:G:H5'	2.09	0.52
11:CK:69:ALA:O	11:CK:70:LYS:C	2.48	0.52
1:AA:527:G:H2'	1:AA:528:C:H5'	1.91	0.52
8:AH:28:ALA:HA	8:AH:59:LEU:HG	1.92	0.52
1:AA:1372:U:H5''	9:AI:71:SER:CB	2.35	0.52
35:BA:1039:G:H3'	35:BA:1040:C:C6	2.44	0.52
38:BD:73:VAL:HG13	38:BD:120:GLY:CA	2.39	0.52
15:CO:9:GLN:O	15:CO:10:LYS:C	2.48	0.52
16:CP:1:MET:SD	16:CP:3:LYS:HE3	2.50	0.52
16:CP:49:LEU:CD1	16:CP:51:VAL:HG23	2.35	0.52
18:CR:85:LEU:HG	18:CR:86:VAL:N	2.16	0.52
1:AA:643:C:H5'	8:AH:31:PHE:CE1	2.44	0.52
36:DB:20:C:H2'	36:DB:21:G:C5'	2.38	0.52
37:BC:59:ARG:HH21	37:BC:199:HIS:CB	2.22	0.52
42:BH:138:LYS:HA	42:BH:141:VAL:HB	1.92	0.52
1:AA:393:A:O2'	1:AA:394:G:H5'	2.10	0.52
38:BD:127:VAL:HA	38:BD:193:VAL:HG13	1.91	0.52
35:BA:1707:G:H1'	35:BA:1756:G:N3	2.24	0.52
1:AA:280:C:C4	17:AQ:91:ARG:NH2	2.78	0.52
35:DA:1720:U:H2'	35:DA:1721:G:O4'	2.10	0.52
38:DD:248:SER:HB2	38:DD:249:PRO:HD2	1.92	0.52
16:CP:14:ASN:H	16:CP:15:PRO:HD3	1.73	0.52
23:AW:24:C:H2'	23:AW:25:U:O4'	2.09	0.52
17:CQ:86:GLU:O	17:CQ:88:TYR:N	2.42	0.52
35:DA:2465:C:O2'	35:DA:2466:C:H5'	2.10	0.52
35:DA:172:C:O2	35:DA:172:C:H2'	2.09	0.52
1:CA:297:G:H2'	1:CA:299:G:OP2	2.09	0.52
53:BW:70:TYR:O	53:BW:107:LEU:HG	2.09	0.52
7:CG:20:ASP:HB3	7:CG:23:VAL:HG23	1.91	0.52
1:AA:286:G:H2'	1:AA:287:U:C6	2.44	0.52
37:BC:22:ILE:CG2	37:BC:25:ALA:HB2	2.40	0.52
31:B5:15:ARG:HA	31:B5:18:ALA:CB	2.39	0.52
35:BA:1516:C:H2'	35:BA:1517:G:H8	1.73	0.52
26:B0:72:ARG:HB3	26:B0:75:LEU:HB3	1.92	0.52
35:DA:301:G:C4	35:DA:302:C:C5	2.97	0.52
50:DT:54:ARG:HA	50:DT:59:THR:OG1	2.09	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:BC:214:VAL:C	37:BC:216:THR:N	2.62	0.52
35:BA:2828:C:O2'	35:BA:2829:C:H5'	2.09	0.52
35:DA:2064:C:H1'	35:DA:2450:A:C6	2.45	0.52
2:AB:124:SER:OG	2:AB:125:PRO:HD2	2.08	0.52
4:AD:138:TYR:HD2	4:AD:139:ARG:N	2.07	0.52
35:BA:435:C:H2'	35:BA:436:C:H5'	1.92	0.52
1:AA:814:A:H2'	1:AA:816:A:H5''	1.91	0.52
35:BA:1628:G:O2'	35:BA:1629:U:H5'	2.10	0.52
35:DA:2684:U:H2'	35:DA:2685:G:O4'	2.09	0.52
35:DA:2728:U:H2'	35:DA:2728:U:O2	2.09	0.52
50:DT:102:ILE:HB	50:DT:110:ILE:HD11	1.91	0.52
45:DO:80:ASP:HB2	50:DT:71:GLY:O	2.10	0.52
50:DT:94:ALA:CB	50:DT:99:LEU:HD23	2.40	0.52
35:BA:1791:A:N6	35:BA:1828:G:O2'	2.43	0.52
38:BD:264:LYS:HE3	38:BD:266:SER:HB2	1.91	0.52
35:DA:729:G:N7	38:DD:208:LYS:HB2	2.24	0.52
35:DA:1902:C:O2'	38:DD:244:ARG:HB2	2.09	0.52
10:CJ:34:VAL:HG12	10:CJ:35:SER:N	2.24	0.52
35:BA:2676:C:O2'	35:BA:2677:G:H5'	2.10	0.52
56:BZ:5:LEU:N	56:BZ:59:LEU:HD23	2.25	0.52
52:BV:14:VAL:HG11	52:BV:98:GLU:HG3	1.91	0.52
1:AA:1229:A:H2'	1:AA:1230:C:H6	1.75	0.52
10:AJ:48:THR:HG23	10:AJ:62:HIS:N	2.24	0.52
35:BA:58:G:OP1	54:BX:72:LYS:CB	2.56	0.52
39:DE:68:ALA:C	39:DE:70:ALA:H	2.12	0.52
2:AB:212:GLN:HE22	2:AB:216:SER:CB	2.22	0.52
41:BG:112:PRO:O	41:BG:113:ARG:HA	2.09	0.52
28:D2:20:GLU:C	28:D2:22:GLU:N	2.61	0.52
54:DX:53:LYS:NZ	54:DX:55:ASN:ND2	2.58	0.52
54:DX:54:VAL:HG13	54:DX:78:LYS:O	2.09	0.52
42:BH:105:LEU:CD2	42:BH:113:VAL:HB	2.38	0.52
35:BA:2643:G:O2'	35:BA:2644:G:H5'	2.08	0.52
56:DZ:168:GLU:O	56:DZ:169:GLU:O	2.28	0.52
44:DN:42:TRP:HA	44:DN:42:TRP:CE3	2.44	0.52
3:CC:5:ILE:O	3:CC:5:ILE:HD13	2.09	0.52
19:CS:16:LEU:N	19:CS:16:LEU:HD12	2.25	0.52
49:BS:72:ALA:O	49:BS:73:LEU:C	2.47	0.52
1:CA:406:G:C2	1:CA:407:G:C8	2.97	0.52
4:CD:172:PRO:HD2	4:CD:173:TRP:CZ3	2.45	0.52
4:CD:61:LYS:HG2	4:CD:75:PHE:HE2	1.74	0.52
44:BN:62:VAL:CG2	44:BN:66:LYS:HB2	2.40	0.52
44:BN:72:TYR:N	44:BN:85:ILE:O	2.42	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:BF:41:LEU:HA	40:BF:44:ARG:HD3	1.92	0.52
34:B8:49:VAL:HG12	34:B8:53:PRO:HD3	1.91	0.52
35:BA:2078:C:O2'	35:BA:2079:U:H5'	2.09	0.52
35:BA:251:A:H2'	35:BA:252:G:O4'	2.09	0.52
35:BA:818:G:OP2	35:BA:1187:G:O6	2.27	0.52
40:DF:45:ARG:HG3	40:DF:46:ARG:H	1.75	0.52
36:DB:31:C:H42	36:DB:51:G:H1	1.56	0.52
49:DS:36:TYR:HA	49:DS:52:SER:CB	2.39	0.52
45:BO:112:MET:O	45:BO:113:LYS:C	2.48	0.52
15:CO:70:LEU:HG	15:CO:78:TYR:HB2	1.90	0.52
1:CA:835:U:OP1	18:CR:61:LYS:HB2	2.10	0.52
18:CR:75:ILE:O	18:CR:75:ILE:HG22	2.08	0.52
2:CB:167:PRO:O	2:CB:168:THR:C	2.48	0.52
19:AS:36:ARG:HH22	19:AS:75:ALA:CB	2.12	0.52
35:DA:81:G:H1	35:DA:105:C:H42	1.55	0.52
1:CA:960:U:O2	1:CA:960:U:H2'	2.09	0.52
16:AP:49:LEU:HD22	16:AP:73:LEU:HD13	1.90	0.52
20:CT:63:ILE:O	20:CT:66:ALA:N	2.43	0.52
33:B7:9:ARG:NH1	35:BA:1310:G:OP2	2.43	0.52
1:CA:601:C:H2'	1:CA:602:A:C8	2.42	0.52
26:B0:16:SER:HB3	35:BA:2262:U:OP2	2.09	0.52
7:AG:140:ASP:OD1	7:AG:143:ARG:NH2	2.40	0.52
11:CK:69:ALA:O	11:CK:73:MET:N	2.31	0.52
35:BA:848:G:N3	35:BA:933:A:H1'	2.24	0.52
1:AA:261:U:H3'	20:AT:79:ARG:HH12	1.75	0.52
8:CH:21:LYS:CG	8:CH:22:GLU:N	2.73	0.52
8:CH:7:ALA:O	8:CH:11:THR:N	2.38	0.52
35:BA:17:G:HO2'	51:BU:25:TRP:HZ3	1.55	0.52
1:CA:277:C:O2'	1:CA:278:G:H5'	2.10	0.52
17:CQ:47:PRO:HG2	17:CQ:48:GLU:OE1	2.08	0.52
40:DF:153:SER:HA	40:DF:172:TRP:O	2.09	0.52
1:CA:324:G:N2	1:CA:326:G:H3'	2.24	0.52
20:CT:25:ARG:HH11	20:CT:25:ARG:HG3	1.75	0.52
3:AC:125:GLU:CG	3:AC:189:ALA:HA	2.38	0.52
5:CE:101:ILE:CD1	5:CE:118:ILE:O	2.57	0.52
5:CE:80:ILE:HG13	5:CE:91:LEU:HB2	1.92	0.52
13:CM:67:GLU:O	13:CM:69:GLU:N	2.42	0.52
1:CA:727:G:N1	1:CA:731:G:C6	2.77	0.52
15:AO:82:ILE:HD13	15:AO:82:ILE:C	2.30	0.52
1:CA:764:C:H2'	1:CA:765:G:O4'	2.08	0.52
35:BA:172:C:O2	35:BA:172:C:H2'	2.09	0.52
35:DA:1644:C:HO2'	35:DA:1645:G:H5'	1.73	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
17:CQ:85:VAL:O	17:CQ:89:LEU:HB2	2.10	0.52
36:DB:90:A:C8	36:DB:91:C:H1'	2.44	0.52
1:CA:853:G:H2'	1:CA:854:G:H8	1.73	0.52
10:AJ:85:LEU:O	10:AJ:87:THR:N	2.42	0.52
46:BP:122:PRO:HA	46:BP:141:ALA:O	2.10	0.52
1:CA:1365:G:C2'	1:CA:1366:C:H5'	2.39	0.52
7:AG:15:ASP:OD2	7:AG:16:LEU:N	2.43	0.52
35:BA:921:G:H2'	35:BA:922:U:H6	1.74	0.52
1:AA:627:G:O2'	1:AA:628:G:H5'	2.09	0.52
36:BB:15:A:C3'	36:BB:16:G:H5'	2.40	0.52
39:BE:2:LYS:CD	39:BE:95:ILE:HG22	2.39	0.52
5:CE:15:ARG:O	5:CE:15:ARG:HG2	2.10	0.52
29:B3:35:ARG:HG2	29:B3:37:LEU:HD21	1.90	0.52
35:DA:2649:U:O2'	35:DA:2650:U:H5'	2.09	0.52
1:AA:189(F):U:O4	17:AQ:62:SER:HB3	2.09	0.52
35:BA:419:C:O2'	35:BA:420:C:H5'	2.10	0.52
1:CA:998:G:H2'	1:CA:999:C:C6	2.43	0.52
7:AG:126:ASP:HB3	7:AG:132:GLY:CA	2.40	0.52
35:BA:1922:G:O2'	35:BA:1923:U:H5'	2.10	0.52
35:BA:325:G:H2'	35:BA:326:G:H8	1.74	0.52
35:DA:2790:A:N3	35:DA:2790:A:H2'	2.24	0.52
35:DA:2522:U:H2'	35:DA:2523:G:H5''	1.91	0.52
35:DA:2713:A:C3'	35:DA:2714:G:H5'	2.38	0.52
50:DT:23:ARG:C	50:DT:25:GLY:H	2.05	0.52
1:CA:346:G:H5''	50:DT:35:LYS:HZ1	1.75	0.52
14:CN:53:LEU:HB3	14:CN:56:VAL:HG21	1.90	0.52
35:BA:1776:G:C2	35:BA:1777:U:C6	2.96	0.52
35:BA:1814:G:H2'	35:BA:1815:A:N7	2.24	0.52
35:BA:1827:C:O2'	35:BA:1828:G:H5'	2.10	0.52
1:CA:865:A:C2	1:CA:918:A:H4'	2.44	0.52
41:DG:106:LEU:C	41:DG:108:ASN:N	2.63	0.52
41:DG:132:ASN:ND2	41:DG:157:ILE:O	2.42	0.52
35:BA:1665:A:H1'	45:BO:1:MET:HE3	1.90	0.52
39:BE:56:PRO:O	39:BE:57:LYS:O	2.27	0.52
44:BN:42:TRP:HE3	44:BN:42:TRP:HA	1.73	0.52
1:AA:973:G:C4	10:AJ:55:LYS:NZ	2.68	0.52
39:DE:5:LEU:CD2	39:DE:197:ILE:HG22	2.40	0.52
27:B1:87:PRO:CG	27:B1:88:LYS:N	2.73	0.52
41:BG:167:GLU:H	41:BG:167:GLU:CD	2.13	0.52
55:DY:86:ARG:NH2	55:DY:95:LYS:HZ3	2.08	0.52
28:D2:48:HIS:O	28:D2:52:ASP:HB3	2.09	0.52
54:DX:76:ARG:C	54:DX:76:ARG:HD3	2.30	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
54:DX:82:GLN:OE1	54:DX:83:VAL:N	2.41	0.52
42:BH:149:ARG:CA	42:BH:162:ILE:HD11	2.38	0.52
56:DZ:144:LEU:HD12	56:DZ:149:SER:HA	1.91	0.52
52:DV:23:GLU:O	52:DV:24:LYS:O	2.27	0.52
1:CA:501:C:H2'	1:CA:502:G:C8	2.44	0.52
1:CA:503:C:O2'	1:CA:504:C:H5'	2.10	0.52
4:CD:65:ARG:HB2	4:CD:75:PHE:CE2	2.44	0.52
4:CD:92:VAL:O	4:CD:95:GLY:N	2.43	0.52
40:BF:123:LEU:HD12	40:BF:124:LEU:H	1.74	0.52
27:B1:23:LYS:O	27:B1:37:ILE:HD12	2.09	0.52
35:BA:1186:G:C2'	35:BA:1187:G:H5'	2.39	0.52
35:BA:2069:G:C2'	35:BA:2070:G:H5'	2.39	0.52
35:BA:813:U:H2'	35:BA:814:C:H6	1.72	0.52
40:DF:155:LEU:CD1	40:DF:174:VAL:HB	2.40	0.52
55:BY:98:VAL:O	55:BY:98:VAL:HG12	2.10	0.52
35:BA:869:G:O2'	35:BA:870:A:H5'	2.09	0.52
35:BA:955:C:H5'	35:BA:956:G:OP2	2.09	0.52
3:AC:147:LYS:HB3	3:AC:203:PHE:CE2	2.45	0.52
1:AA:59:A:N3	1:AA:59:A:H2'	2.24	0.52
20:AT:26:ASN:ND2	20:AT:26:ASN:N	2.56	0.52
35:BA:1279:G:H2'	35:BA:1280:G:H8	1.74	0.52
48:BR:117:VAL:O	48:BR:118:GLU:HB2	2.10	0.52
48:BR:52:ILE:CD1	48:BR:79:LEU:HD21	2.40	0.52
43:BI:68:LEU:CD2	43:BI:136:VAL:HG11	2.40	0.52
27:D1:37:ILE:HD12	35:DA:2080:G:P	2.50	0.52
1:CA:741:G:H5'	15:CO:39:LEU:HD21	1.91	0.52
15:CO:66:LEU:H	15:CO:66:LEU:HD12	1.73	0.52
2:CB:69:LEU:HB2	2:CB:159:PRO:CG	2.39	0.52
35:DA:811:U:H1'	35:DA:1251:C:H5''	1.91	0.52
35:DA:2066:C:O2'	35:DA:2067:G:H5'	2.10	0.52
35:DA:196:A:C5'	46:DP:46:LYS:HZ1	2.22	0.52
1:AA:1221:G:OP1	19:AS:36:ARG:HD3	2.08	0.52
1:AA:569:C:N4	1:AA:881:G:H1	2.07	0.52
12:AL:7:ILE:O	12:AL:10:LEU:HB2	2.10	0.52
4:AD:58:LEU:O	4:AD:60:GLU:N	2.43	0.52
4:AD:61:LYS:HA	4:AD:203:VAL:CG2	2.32	0.52
43:DI:98:ALA:O	43:DI:109:ILE:HG21	2.10	0.52
35:DA:1917:U:H2'	35:DA:1918:A:C8	2.44	0.52
1:CA:185:A:H61	1:CA:192:U:H3	1.58	0.52
20:CT:81:LYS:O	20:CT:85:MET:HG2	2.10	0.52
1:CA:569:C:N4	1:CA:881:G:H1	2.07	0.52
12:AL:86:ARG:CG	12:AL:87:GLY:N	2.73	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2250:G:C8	35:BA:2496:C:H5''	2.44	0.52
8:CH:129:VAL:HG23	8:CH:130:GLY:N	2.15	0.52
1:AA:640:A:O2'	1:AA:641:U:H5'	2.10	0.52
1:AA:197:A:N3	1:AA:198:G:H1'	2.25	0.52
12:AL:46:LYS:CG	12:AL:47:LYS:H	2.08	0.52
1:AA:875:C:O2'	8:AH:14:ARG:NH1	2.43	0.52
33:D7:29:LYS:O	33:D7:33:ARG:N	2.39	0.52
38:DD:44:ASN:ND2	38:DD:47:GLY:O	2.42	0.52
40:BF:9:ILE:O	40:BF:128:ALA:HB2	2.10	0.52
15:AO:12:ILE:C	15:AO:14:GLU:H	2.13	0.52
3:AC:106:VAL:HG12	3:AC:108:ASN:H	1.74	0.52
35:DA:149:A:C2	35:DA:150:C:C2	2.97	0.52
54:DX:62:LYS:HD2	54:DX:68:ARG:HD2	1.92	0.52
17:CQ:71:PHE:N	17:CQ:71:PHE:HD2	2.07	0.52
38:BD:142:VAL:HG22	38:BD:143:HIS:N	2.25	0.52
5:CE:92:LYS:HB2	5:CE:119:LEU:HB2	1.91	0.52
35:BA:554:U:C2'	35:BA:555:U:H5'	2.40	0.52
19:CS:33:THR:HG21	19:CS:51:VAL:HG22	1.92	0.52
35:DA:745:G:H2'	35:DA:746:A:H5'	1.90	0.52
35:BA:1300:U:O2	35:BA:1626:G:C4	2.63	0.52
35:BA:1301:A:H2	35:BA:1626:G:H21	1.57	0.52
2:CB:136:VAL:O	2:CB:140:HIS:HB2	2.09	0.52
35:DA:1424:G:O2'	35:DA:1425:G:H5'	2.09	0.52
1:AA:337:C:O2'	1:AA:338:A:H5'	2.10	0.52
12:CL:38:THR:HG23	12:CL:39:VAL:N	2.24	0.52
35:BA:268:C:C2'	35:BA:268:C:O2	2.55	0.52
35:BA:1720:U:H2'	35:BA:1721:G:H5'	1.91	0.52
1:AA:1365:G:C2'	1:AA:1366:C:H5'	2.40	0.52
46:BP:58:THR:O	46:BP:61:ARG:NE	2.43	0.52
43:DI:49:ALA:HA	43:DI:52:ARG:CG	2.37	0.52
1:AA:1521:G:H2'	1:AA:1522:U:H6	1.74	0.52
57:DC:23:ASP:C	57:DC:25:ALA:H	2.13	0.52
1:CA:1155:G:O2'	1:CA:1156:G:H5'	2.09	0.52
19:AS:22:LEU:C	19:AS:24:ALA:H	2.11	0.52
35:DA:2839:G:H21	48:DR:92:GLY:HA3	1.74	0.52
1:CA:355:C:C4	1:CA:356:A:N7	2.77	0.52
1:CA:486:U:O2'	1:CA:487:A:H5'	2.09	0.52
35:BA:840:C:O2'	35:BA:841:A:H5'	2.09	0.52
35:DA:407:G:H2'	35:DA:408:G:C8	2.45	0.52
35:BA:2181:G:H2'	35:BA:2182:G:C8	2.45	0.52
35:DA:1668:A:N3	35:DA:1670:C:C4	2.78	0.52
25:CY:63:PRO:O	25:CY:65:THR:N	2.36	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2593:U:H2'	35:BA:2594:C:C6	2.44	0.52
1:CA:1037:C:H2'	1:CA:1038:C:C6	2.45	0.52
2:AB:221:LEU:O	2:AB:221:LEU:HD13	2.09	0.52
1:AA:423:G:H2'	1:AA:424:G:O4'	2.09	0.52
35:DA:785:G:C4	35:DA:786:C:C5	2.97	0.52
57:DC:77:ILE:O	57:DC:77:ILE:HG12	2.08	0.52
45:DO:104:ARG:CZ	50:DT:33:LYS:HD2	2.39	0.52
1:CA:950:U:H1'	1:CA:971:G:N7	2.24	0.52
35:DA:1791:A:N6	35:DA:1828:G:O2'	2.42	0.52
35:DA:2304:G:O2'	41:DG:133:LEU:HA	2.10	0.52
41:DG:132:ASN:HD22	41:DG:133:LEU:N	2.08	0.52
41:DG:35:GLU:OE2	41:DG:160:VAL:HG11	2.09	0.52
34:B8:29:LYS:HZ3	34:B8:44:LYS:HB2	1.74	0.52
45:BO:85:VAL:HG12	45:BO:86:ILE:N	2.25	0.52
56:BZ:4:ARG:HB3	56:BZ:60:GLU:HG3	1.92	0.52
39:DE:142:GLY:C	39:DE:143:ASN:HD22	2.13	0.52
29:B3:32:GLN:HB2	35:BA:1158:C:H4'	1.90	0.52
35:BA:1151:G:H5''	51:BU:81:HIS:CE1	2.45	0.52
42:DH:102:ALA:HB2	42:DH:117:PRO:CD	2.21	0.52
42:DH:130:ARG:HB2	42:DH:130:ARG:NH1	2.25	0.52
35:DA:2809:A:C2	35:DA:2892:A:N3	2.77	0.52
39:DE:47:VAL:CG2	39:DE:84:PHE:O	2.57	0.52
35:DA:1860:G:H5''	57:DC:204:ALA:O	2.10	0.52
27:B1:73:LEU:HD21	27:B1:94:LEU:CD2	2.36	0.52
35:BA:2313:C:H5'	35:BA:2313:C:C6	2.44	0.52
41:BG:170:ARG:HH22	41:BG:182:LYS:NZ	2.07	0.52
28:D2:27:GLU:C	28:D2:29:LYS:N	2.56	0.52
54:DX:49:VAL:CG1	54:DX:50:LYS:N	2.70	0.52
56:DZ:102:LEU:HB2	56:DZ:122:ARG:O	2.10	0.52
35:DA:1150:C:C2'	35:DA:1151:G:H5'	2.39	0.52
44:DN:42:TRP:HA	44:DN:42:TRP:HE3	1.74	0.52
10:AJ:7:LYS:O	10:AJ:96:ILE:HA	2.09	0.52
1:CA:1062:U:H2'	1:CA:1063:C:C5	2.44	0.52
19:CS:70:LYS:H	19:CS:70:LYS:HD2	1.74	0.52
35:DA:2383:G:O2'	35:DA:2384:G:H5'	2.10	0.52
4:CD:170:VAL:HG22	4:CD:171:GLY:H	1.75	0.52
4:CD:170:VAL:HG13	4:CD:174:LEU:HB2	1.90	0.52
4:CD:62:GLN:O	4:CD:63:LYS:C	2.48	0.52
47:BQ:35:VAL:HG22	47:BQ:100:GLY:O	2.09	0.52
40:BF:192:LEU:HD21	40:BF:194:MET:HE2	1.91	0.52
40:BF:2:LYS:CG	40:BF:25:PRO:HB2	2.22	0.52
27:D1:46:LEU:HA	35:DA:396:G:O3'	2.10	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1141:U:H5''	35:DA:1142(A):A:O4'	2.10	0.52
35:BA:2413:G:H21	46:BP:70:GLN:NE2	2.07	0.52
35:BA:991:C:N4	35:BA:1163:G:H1	2.07	0.52
35:BA:796:C:O2'	35:BA:797:C:H5'	2.09	0.52
40:DF:123:LEU:HD12	40:DF:124:LEU:H	1.75	0.52
1:AA:1427:U:O2'	1:AA:1428:A:H5'	2.10	0.52
50:BT:113:LYS:C	50:BT:114:LEU:HD23	2.30	0.52
49:DS:32:LEU:O	49:DS:33:LYS:HB2	2.09	0.52
2:CB:212:GLN:HE22	2:CB:216:SER:HB2	1.75	0.52
40:DF:89:VAL:HG12	40:DF:90:PHE:H	1.75	0.52
17:AQ:29:HIS:HA	17:AQ:36:ILE:HD11	1.91	0.52
39:DE:152:LYS:HZ3	44:DN:78:TYR:CB	2.22	0.52
16:AP:4:ILE:HB	16:AP:66:PRO:CB	2.32	0.52
43:BI:9:LEU:H	43:BI:13:GLY:HA2	1.74	0.52
1:CA:184:G:O2'	1:CA:185:A:H5'	2.09	0.52
25:AY:126:ARG:O	25:AY:129:ILE:HB	2.10	0.52
43:BI:94:ALA:HA	43:BI:97:ILE:HB	1.91	0.52
40:DF:34:TRP:HB3	46:DP:11:GLY:HA3	1.91	0.52
9:AI:4:TYR:CB	9:AI:19:LEU:HB2	2.37	0.52
29:B3:54:VAL:HG12	29:B3:55:ARG:N	2.24	0.52
35:BA:1036:G:O2'	35:BA:1037:G:H5'	2.09	0.52
35:BA:2298:A:H62	35:BA:2318:G:H8	1.54	0.52
56:BZ:112:ARG:O	56:BZ:113:ALA:HB2	2.09	0.52
38:DD:130:ALA:HB2	38:DD:192:THR:HB	1.91	0.52
35:DA:1986:A:C2'	35:DA:1987:G:H5''	2.40	0.52
39:DE:201:THR:CG2	39:DE:202:LYS:N	2.72	0.52
17:CQ:43:LEU:HD12	17:CQ:68:ARG:HG3	1.92	0.52
35:BA:445:C:H5''	51:BU:3:ARG:HB3	1.90	0.52
35:DA:1612:C:H2'	35:DA:1613:G:O5'	2.09	0.52
1:CA:814:A:H2'	1:CA:816:A:H5''	1.92	0.52
13:AM:64:TRP:HE1	13:AM:66:LEU:HD12	1.75	0.52
26:B0:53:MET:HG3	26:B0:59:LEU:HD23	1.91	0.52
35:BA:738:G:C6	35:BA:739:G:C2	2.98	0.52
41:BG:139:LEU:HD22	41:BG:146:TYR:CE1	2.44	0.52
8:AH:53:VAL:O	8:AH:54:ASP:HB2	2.09	0.52
38:BD:9:TYR:HD2	38:BD:10:THR:HG22	1.73	0.52
35:BA:1720:U:H2'	35:BA:1721:G:O4'	2.09	0.52
35:BA:1445(A):C:H2'	35:BA:1446:C:H6	1.74	0.52
35:DA:154:G:H2'	35:DA:154(A):C:O2	2.08	0.52
45:DO:88:ASN:O	45:DO:91:LEU:N	2.42	0.52
35:BA:265:A:H1'	35:BA:266:G:C1'	2.38	0.52
1:AA:885:G:H1	1:AA:912:C:H42	1.57	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1354:C:O2'	1:CA:1355:G:H5'	2.10	0.52
45:DO:26:LYS:HB2	45:DO:30:ALA:CB	2.40	0.52
45:BO:26:LYS:HB2	45:BO:30:ALA:CB	2.39	0.52
28:D2:57:ILE:HD11	28:D2:59:ARG:HH11	1.73	0.52
35:BA:1181:C:H2'	35:BA:1182:A:C8	2.45	0.52
46:BP:138:LEU:HD23	46:BP:142:GLY:HA3	1.92	0.52
6:AF:100:ASN:HB3	18:AR:28:GLU:HA	1.92	0.52
1:CA:509:A:H2'	1:CA:510:A:C8	2.45	0.52
2:AB:114:ARG:HA	2:AB:117:GLU:OE1	2.10	0.52
20:CT:58:LYS:O	20:CT:62:LEU:HB2	2.09	0.52
1:CA:401:C:H6	1:CA:401:C:O5'	1.93	0.52
1:CA:1332:A:H2'	1:CA:1333:A:C8	2.45	0.52
1:CA:1333:A:C2	1:CA:1334:G:H1'	2.45	0.52
1:AA:914:A:O2'	1:AA:915:A:H5'	2.10	0.52
23:CW:64:G:H2'	23:CW:65:G:O4'	2.10	0.52
26:B0:19:LYS:C	26:B0:20:ARG:HD3	2.30	0.52
35:DA:2845:G:H2'	35:DA:2846:G:H8	1.75	0.52
45:DO:1:MET:CG	45:DO:32:TYR:HD2	2.23	0.52
1:CA:1207:G:O2'	1:CA:1208:C:H5'	2.10	0.52
9:CI:114:TYR:HE1	10:CJ:60:ARG:H	1.56	0.52
38:BD:54:ARG:H	38:BD:218:ARG:HG3	1.74	0.52
38:BD:65:ILE:HD11	38:BD:67:PHE:CE1	2.44	0.52
38:BD:92:ILE:HA	38:BD:107:ALA:CB	2.40	0.52
35:DA:1899:G:O2'	35:DA:1900:A:H5''	2.10	0.52
35:DA:782:A:C2	38:DD:226:MET:HE2	2.44	0.52
38:DD:24:ILE:O	38:DD:26:LYS:N	2.43	0.52
35:DA:2312:U:OP1	41:DG:74:LYS:N	2.43	0.52
41:DG:125:PHE:HE2	41:DG:173:LEU:CD1	2.23	0.52
38:BD:14:ARG:CG	38:BD:14:ARG:HH11	2.23	0.52
50:BT:51:ARG:HH11	50:BT:51:ARG:HG3	1.74	0.52
16:AP:22:THR:CG2	16:AP:32:TYR:HA	2.40	0.52
51:BU:88:ILE:HA	51:BU:90:VAL:HG23	1.92	0.52
51:BU:92:ARG:NH2	52:BV:10:LYS:HA	2.25	0.52
52:BV:3:ALA:O	52:BV:13:ARG:HA	2.10	0.52
28:B2:12:GLU:O	28:B2:12:GLU:CD	2.48	0.52
28:B2:16:LEU:O	28:B2:20:GLU:HG3	2.10	0.52
28:B2:51:ARG:CD	28:B2:51:ARG:O	2.58	0.52
39:DE:36:ARG:HA	39:DE:46:ALA:O	2.10	0.52
27:B1:19:GLN:O	27:B1:42:GLN:HB3	2.09	0.52
41:BG:114:ILE:HG22	41:BG:115:ARG:H	1.74	0.52
41:BG:133:LEU:HD13	41:BG:134:GLY:O	2.10	0.52
41:BG:83:ARG:O	41:BG:85:GLY:O	2.28	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
54:DX:29:TRP:HA	54:DX:29:TRP:HE3	1.75	0.52
54:DX:53:LYS:HZ2	54:DX:55:ASN:ND2	2.08	0.52
35:DA:58:G:OP1	54:DX:72:LYS:CB	2.58	0.52
34:D8:34:TRP:CZ3	34:D8:41:ILE:HG23	2.44	0.52
41:BG:29:TRP:C	41:BG:31:VAL:H	2.12	0.52
49:BS:26:LEU:CD2	49:BS:26:LEU:O	2.57	0.52
49:BS:36:TYR:HA	49:BS:52:SER:CB	2.40	0.52
36:BB:50:G:OP2	49:BS:62:LYS:HG3	2.09	0.52
1:CA:437:U:C2'	1:CA:438:G:H5'	2.40	0.52
4:CD:15:GLU:C	4:CD:17:VAL:H	2.11	0.52
4:CD:60:GLU:O	4:CD:61:LYS:C	2.47	0.52
47:BQ:35:VAL:HG22	47:BQ:101:ARG:O	2.09	0.52
35:BA:236:C:O2'	35:BA:237:C:H5'	2.09	0.52
40:BF:125:LEU:HB3	40:BF:196:LEU:CD2	2.39	0.52
46:BP:6:LEU:O	46:BP:6:LEU:HD23	2.10	0.52
35:DA:1022:G:O2'	35:DA:1023:U:P	2.67	0.52
34:B8:49:VAL:CB	34:B8:53:PRO:HD3	2.39	0.52
34:B8:56:GLU:C	34:B8:58:ILE:N	2.62	0.52
40:DF:125:LEU:HD11	40:DF:199:TRP:CG	2.45	0.52
35:BA:911:A:H5''	35:BA:912:C:H5''	1.90	0.52
3:AC:182:ILE:HG23	3:AC:203:PHE:N	2.25	0.52
20:AT:26:ASN:CB	20:AT:71:THR:HG23	2.36	0.52
50:BT:100:TYR:C	50:BT:102:ILE:N	2.63	0.52
49:DS:107:GLU:HG3	49:DS:108:GLY:N	2.25	0.52
2:AB:167:PRO:HD2	2:AB:188:ALA:HB2	1.90	0.52
44:DN:58:ASP:C	44:DN:60:ILE:N	2.56	0.52
34:D8:56:GLU:O	34:D8:57:ARG:C	2.47	0.52
46:DP:40:SER:C	46:DP:41:ARG:HD2	2.30	0.52
1:AA:437:U:C2'	1:AA:438:G:H5'	2.40	0.52
19:AS:70:LYS:H	19:AS:70:LYS:HD2	1.74	0.52
35:DA:1748:G:H8	35:DA:1748:G:H5'	1.73	0.52
25:CY:14:MET:HE3	25:CY:132:ILE:HB	1.92	0.52
25:CY:155:LYS:O	25:CY:158:GLU:HB3	2.10	0.52
25:AY:133:ARG:HD3	25:AY:165:THR:CG2	2.28	0.52
1:CA:939:G:H5''	7:CG:102:ARG:HH12	1.74	0.52
35:BA:2259:G:H1'	35:BA:2427:C:O2	2.10	0.52
35:BA:2260:C:H2'	35:BA:2261:C:H6	1.74	0.52
22:AV:27:G:H2'	22:AV:28:G:H8	1.74	0.52
35:DA:237:C:O2'	35:DA:238:C:H5'	2.09	0.52
7:CG:153:HIS:CE1	11:CK:57:THR:HG23	2.44	0.52
1:AA:261:U:C6	20:AT:79:ARG:NH1	2.78	0.52
35:DA:1658:C:H2'	35:DA:1659:U:C6	2.44	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2536:G:C6	35:BA:2537:U:C4	2.97	0.52
8:CH:40:ALA:HB2	8:CH:45:ILE:CD1	2.39	0.52
12:AL:70:ILE:CD1	12:AL:70:ILE:N	2.66	0.52
35:DA:354:G:H8	35:DA:354:G:O5'	1.93	0.52
9:CI:50:LEU:O	9:CI:55:ALA:HB3	2.10	0.52
46:DP:107:LYS:O	46:DP:109:GLY:N	2.40	0.52
56:BZ:108:PRO:CB	56:BZ:142:SER:O	2.58	0.52
35:BA:1980:G:C2	35:BA:1982:C:C4	2.97	0.52
35:BA:2119:A:H3'	35:BA:2120:G:H5''	1.91	0.52
39:DE:103:ASP:CG	39:DE:201:THR:HA	2.29	0.52
29:D3:56:VAL:CG1	29:D3:57:GLU:H	2.05	0.52
40:DF:170:LEU:HD23	40:DF:173:VAL:CG2	2.39	0.52
35:BA:2115:G:O2'	35:BA:2116:G:H5''	2.10	0.52
42:BH:137:ASP:O	42:BH:138:LYS:CB	2.57	0.52
44:DN:107:LEU:HD12	44:DN:108:PRO:C	2.30	0.52
19:CS:60:VAL:O	19:CS:60:VAL:HG13	2.09	0.52
35:DA:1614:A:C6	53:DW:93:ALA:HB2	2.45	0.52
1:CA:577:G:C4	1:CA:816:A:C2	2.98	0.52
17:CQ:95:TYR:C	17:CQ:97:SER:N	2.63	0.52
44:BN:107:LEU:HD12	44:BN:108:PRO:C	2.30	0.52
35:BA:2290:G:H2'	35:BA:2291:U:O4'	2.10	0.52
6:AF:14:LEU:HD13	6:AF:15:ASP:O	2.10	0.52
7:AG:21:VAL:HG23	7:AG:22:LEU:N	2.24	0.52
11:AK:125:PHE:N	11:AK:125:PHE:CD1	2.78	0.52
55:DY:49:VAL:O	55:DY:50:ARG:HB2	2.09	0.52
53:DW:70:TYR:O	53:DW:107:LEU:HG	2.10	0.52
56:DZ:100:VAL:HG22	56:DZ:136:PHE:HA	1.91	0.52
1:AA:240:C:H2'	1:AA:241:C:H6	1.74	0.52
18:AR:19:LYS:O	18:AR:20:ALA:CB	2.58	0.52
56:DZ:61:LEU:O	56:DZ:63:ASP:N	2.39	0.52
19:AS:27:GLU:O	19:AS:28:LYS:HD2	2.09	0.52
50:BT:3:ARG:O	50:BT:4:GLY:C	2.48	0.52
35:DA:2840:C:H2'	35:DA:2841:C:C6	2.44	0.52
38:BD:166:GLN:N	38:BD:166:GLN:NE2	2.58	0.52
35:BA:271(F):C:H2'	35:BA:271(G):C:H6	1.75	0.52
57:DC:44:HIS:HD2	57:DC:175:VAL:N	2.08	0.52
35:BA:271(L):U:H4'	35:BA:271(M):G:N7	2.24	0.52
35:BA:2368:C:H2'	35:BA:2369:A:C8	2.44	0.52
35:BA:1014:U:H2'	35:BA:1015:G:C8	2.45	0.52
35:DA:991:C:N4	35:DA:1163:G:H1	2.07	0.52
35:BA:474:G:H4'	35:BA:475:U:OP1	2.10	0.52
27:B1:31:GLY:O	35:BA:2397:G:H5'	2.09	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
43:BI:127:VAL:O	43:BI:127:VAL:HG12	2.09	0.52
35:BA:711:G:O2'	35:BA:712:G:H5'	2.10	0.52
1:CA:70:G:H2'	1:CA:71:C:C6	2.45	0.52
53:BW:29:LEU:HD23	53:BW:30:GLU:N	2.25	0.52
45:DO:34:THR:O	45:DO:37:ASP:OD2	2.27	0.52
45:DO:77:ILE:HD11	50:DT:72:VAL:HG13	1.92	0.52
50:DT:50:ILE:H	50:DT:50:ILE:HD12	1.74	0.52
38:BD:211:ARG:O	38:BD:212:SER:C	2.48	0.52
35:DA:782:A:C2	38:DD:226:MET:CE	2.93	0.52
35:DA:1819:A:H5''	38:DD:161:THR:CG2	2.40	0.52
35:BA:2850:A:C2'	35:BA:2851:A:H8	2.16	0.52
36:BB:104:U:H2'	36:BB:105:A:H8	1.74	0.52
56:BZ:3:TYR:O	56:BZ:57:ILE:HG23	2.09	0.52
56:BZ:27:VAL:O	56:BZ:87:ASP:HA	2.10	0.52
39:DE:119:ARG:NH1	39:DE:159:HIS:O	2.42	0.52
35:BA:2632:A:N3	39:BE:61:ARG:NH1	2.57	0.52
39:BE:50:GLY:CA	39:BE:74:PRO:HG3	2.40	0.52
51:BU:74:LEU:HD11	51:BU:79:PHE:HB2	1.92	0.52
42:DH:130:ARG:HH11	42:DH:130:ARG:HB2	1.75	0.52
35:BA:1341:U:OP1	35:BA:1397:U:N3	2.41	0.52
35:BA:139:G:H1	35:BA:142(A):C:H42	1.55	0.52
35:DA:2632:A:N3	39:DE:61:ARG:NH1	2.58	0.52
39:DE:60:ASN:O	39:DE:63:LEU:N	2.43	0.52
27:B1:48:LYS:HD2	27:B1:61:ARG:HG2	1.91	0.52
2:AB:74:LYS:CG	2:AB:77:ALA:HB3	2.39	0.52
41:BG:125:PHE:CD2	41:BG:131:TYR:HB2	2.45	0.52
41:BG:171:ALA:O	41:BG:172:LEU:C	2.48	0.52
55:DY:96:ILE:HG13	55:DY:99:CYS:HB2	1.90	0.52
35:DA:60:G:N2	35:DA:74:A:H2'	2.25	0.52
52:DV:5:VAL:HG23	52:DV:37:VAL:H	1.75	0.52
3:CC:47:LEU:CD2	3:CC:52:LEU:HD13	2.40	0.52
47:BQ:101:ARG:HG2	47:BQ:102:VAL:N	2.25	0.52
35:DA:2639:A:H3'	35:DA:2640:G:H5'	1.92	0.52
35:BA:1142(A):A:C5	35:BA:1144:G:C5	2.98	0.52
44:BN:97:ARG:HB3	44:BN:101:HIS:HD2	1.75	0.52
35:BA:199:A:N3	35:BA:2433:A:C2	2.77	0.52
35:BA:815:C:OP2	52:BV:84:LYS:HE3	2.09	0.52
40:BF:89:VAL:C	40:BF:91:GLY:H	2.13	0.52
46:BP:47:ASP:HB2	46:BP:51:PHE:CD2	2.44	0.52
40:DF:108:LYS:O	40:DF:112:MET:SD	2.68	0.52
40:DF:185:ASP:O	40:DF:189:THR:HG23	2.09	0.52
48:DR:2:ARG:HE	48:DR:5:LYS:HZ2	1.57	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2821:A:OP2	48:DR:2:ARG:NH2	2.42	0.52
20:AT:30:LYS:HZ3	20:AT:72:LEU:HD21	1.75	0.52
2:CB:212:GLN:HE22	2:CB:216:SER:CB	2.22	0.52
44:BN:26:LEU:HD21	44:BN:99:LEU:HD11	1.91	0.52
15:CO:17:ARG:NH1	15:CO:77:ARG:NH1	2.57	0.52
35:DA:309:G:H4'	55:DY:18:GLY:HA3	1.92	0.52
4:AD:202:LEU:C	4:AD:204:ILE:N	2.62	0.52
4:AD:62:GLN:HB3	4:AD:66:ARG:CZ	2.40	0.52
18:AR:22:VAL:HA	18:AR:25:THR:HG1	1.73	0.52
1:CA:1495:U:H2'	1:CA:1496:C:H6	1.74	0.52
51:DU:18:LEU:HD21	51:DU:22:LYS:HE2	1.91	0.52
13:CM:108:ARG:NH2	13:CM:114:ARG:HG2	2.24	0.52
7:AG:88:PRO:O	7:AG:89:MET:HB3	2.09	0.52
12:CL:8:ASN:O	12:CL:11:VAL:HB	2.09	0.52
35:BA:1604:C:O2'	35:BA:1605:C:H5'	2.10	0.52
55:BY:13:VAL:HG12	55:BY:14:LEU:N	2.24	0.52
35:BA:85:G:O5'	55:BY:30:VAL:HB	2.08	0.52
2:CB:175:ARG:O	2:CB:176:GLU:C	2.47	0.52
23:AW:41:C:H2'	23:AW:42:C:C6	2.45	0.52
1:AA:960:U:O2	1:AA:960:U:H2'	2.10	0.52
8:AH:122:ARG:NH1	8:AH:122:ARG:HB2	2.25	0.52
42:BH:45:VAL:O	42:BH:45:VAL:HG12	2.09	0.52
1:CA:1343:G:H4'	9:CI:122:ALA:O	2.10	0.52
12:CL:90:VAL:C	12:CL:92:ASP:H	2.13	0.52
1:AA:380:G:N1	1:AA:384:G:C6	2.78	0.52
40:BF:171:PRO:HG2	40:BF:172:TRP:H	1.74	0.52
35:BA:1982:C:C2	35:BA:1983:C:C5	2.98	0.52
1:CA:269:C:H2'	1:CA:270:A:H8	1.75	0.52
1:CA:491:G:H2'	1:CA:492:G:H8	1.74	0.52
1:CA:237:C:C4'	17:CQ:25:ARG:HH12	2.18	0.52
3:CC:178:LEU:HD22	3:CC:178:LEU:N	2.25	0.52
1:AA:1253:G:O2'	1:AA:1254:C:H5'	2.10	0.52
12:CL:119:LYS:C	12:CL:120:TYR:CD1	2.83	0.52
35:BA:2464:C:O2'	35:BA:2465:C:H6	1.93	0.52
35:DA:2774:C:H2'	35:DA:2775:A:H8	1.75	0.52
35:BA:1907:G:O2'	35:BA:1908:C:H5'	2.09	0.52
39:DE:128:SER:O	39:DE:129:HIS:CB	2.56	0.52
25:AY:80:GLU:C	25:AY:82:ALA:N	2.63	0.52
10:AJ:33:GLN:O	10:AJ:75:ILE:HG12	2.10	0.52
1:CA:167:G:O2'	1:CA:168:G:H5'	2.10	0.52
26:D0:72:ARG:CD	26:D0:75:LEU:HD13	2.38	0.52
7:CG:143:ARG:HB2	7:CG:143:ARG:NH1	2.23	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:920:G:H2'	35:BA:921:G:C8	2.42	0.52
36:DB:60:C:C2	36:DB:61:G:C8	2.98	0.52
35:BA:1766:U:O2'	35:BA:1767:C:H5'	2.09	0.52
35:BA:2889:C:O2	35:BA:2889:C:H2'	2.09	0.52
51:BU:24:TYR:HB2	51:BU:29:SER:CB	2.40	0.52
37:BC:76:ALA:H	37:BC:94:VAL:HG13	1.74	0.52
37:BC:73:ARG:HA	37:BC:92:ASP:OD1	2.10	0.52
2:AB:9:GLU:O	2:AB:13:ALA:HB2	2.10	0.52
23:CW:38:A:H5'	23:CW:39:A:OP2	2.10	0.52
35:DA:338:G:H2'	35:DA:339:U:C6	2.44	0.52
35:DA:711:G:O2'	35:DA:712:G:H5'	2.10	0.52
45:DO:37:ASP:O	45:DO:61:VAL:HA	2.10	0.52
35:DA:1667:G:OP1	45:DO:7:TYR:HB2	2.10	0.52
41:DG:16:ARG:HB3	41:DG:17:PRO:CD	2.40	0.52
1:AA:806:C:O2'	1:AA:807:A:H5'	2.11	0.52
35:BA:1779:U:C2	35:BA:1783:A:N7	2.78	0.52
35:DA:1803:A:C8	35:DA:1804:C:C5	2.98	0.52
38:DD:65:ILE:HD11	38:DD:67:PHE:CD1	2.44	0.52
41:DG:114:ILE:HD12	41:DG:117:PHE:CD1	2.45	0.52
41:DG:46:ALA:HA	41:DG:51:ARG:CD	2.40	0.52
41:DG:86:MET:N	41:DG:87:PRO:CD	2.73	0.52
10:CJ:7:LYS:O	10:CJ:96:ILE:HA	2.10	0.52
47:DQ:20:ALA:HB2	47:DQ:99:PRO:CD	2.40	0.52
35:BA:1990:C:H2'	35:BA:1991:U:O4'	2.10	0.52
45:BO:87:ILE:CG2	45:BO:88:ASN:N	2.72	0.52
39:BE:59:VAL:CG1	39:BE:63:LEU:HG	2.40	0.52
35:BA:2810:A:H2'	39:BE:61:ARG:NH2	2.25	0.52
51:BU:112:ARG:HG2	51:BU:112:ARG:HH11	1.75	0.52
34:D8:60:LEU:N	34:D8:60:LEU:CD2	2.72	0.52
54:BX:29:TRP:HE3	54:BX:29:TRP:HA	1.75	0.52
54:BX:85:PRO:O	54:BX:86:GLY:C	2.48	0.52
2:AB:74:LYS:HG3	2:AB:77:ALA:HB3	1.92	0.52
36:BB:45:A:N3	36:BB:45:A:H2'	2.23	0.52
28:D2:22:GLU:C	28:D2:24:LEU:H	2.13	0.52
42:BH:147:ASN:O	42:BH:150:ALA:HB3	2.09	0.52
51:DU:59:ARG:O	51:DU:60:LEU:C	2.48	0.52
1:AA:1208:C:H2'	1:AA:1209:C:H6	1.75	0.52
47:DQ:59:ARG:HG3	47:DQ:59:ARG:HH11	1.75	0.52
3:CC:141:VAL:HG11	3:CC:202:ILE:HD12	1.91	0.52
49:BS:13:ARG:H	49:BS:13:ARG:CD	1.99	0.52
27:D1:59:THR:HG23	27:D1:59:THR:O	2.09	0.52
35:BA:1195:G:H2'	35:BA:1196:C:H6	1.74	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1227:G:OP2	51:BU:16:LYS:HE3	2.10	0.52
35:BA:836:G:H2'	35:BA:837:C:H6	1.72	0.52
40:DF:7:TYR:HB3	40:DF:16:GLY:O	2.09	0.52
35:BA:910:A:H2'	35:BA:911:A:C8	2.44	0.52
39:BE:110:GLY:O	48:BR:2:ARG:NH2	2.43	0.52
3:AC:141:VAL:HG11	3:AC:202:ILE:HD12	1.92	0.52
20:AT:14:LYS:HE3	20:AT:18:GLN:NE2	2.25	0.52
20:AT:41:ILE:O	20:AT:43:LEU:N	2.43	0.52
48:BR:28:LEU:C	48:BR:30:THR:H	2.13	0.52
27:D1:23:LYS:C	27:D1:37:ILE:HG12	2.30	0.52
56:BZ:146:ILE:O	56:BZ:148:ASP:N	2.43	0.52
15:CO:81:LEU:O	15:CO:84:LYS:HB2	2.09	0.52
2:CB:163:PHE:O	2:CB:164:VAL:HG23	2.10	0.52
2:CB:82:ARG:HB2	2:CB:94:ASN:ND2	2.24	0.52
35:DA:251:A:H2'	35:DA:252:G:O4'	2.09	0.52
35:DA:587:C:C5	35:DA:671:C:H1'	2.44	0.52
19:AS:36:ARG:CZ	19:AS:75:ALA:HB3	2.39	0.52
35:DA:109:G:O2'	35:DA:110:G:H5'	2.10	0.52
55:DY:14:LEU:CD1	55:DY:15:VAL:H	2.19	0.52
4:AD:13:ARG:HD3	4:AD:39:PRO:C	2.30	0.52
4:AD:61:LYS:HG2	4:AD:75:PHE:HE2	1.75	0.52
25:CY:117:ALA:O	25:CY:120:GLN:HB3	2.09	0.52
12:AL:85:ILE:HD11	12:AL:98:TYR:HB2	1.90	0.52
33:B7:8:ASN:HD22	33:B7:8:ASN:C	2.12	0.52
35:BA:104:U:O5'	35:BA:104:U:H6	1.92	0.52
1:AA:692:U:H5	11:AK:26:ASN:ND2	2.08	0.52
11:CK:60:ALA:O	11:CK:61:ALA:C	2.49	0.52
1:AA:1504:G:OP1	1:AA:1507:A:H4'	2.09	0.52
1:CA:806:C:O2'	1:CA:807:A:H5'	2.09	0.52
54:DX:25:LYS:O	54:DX:26:TYR:O	2.28	0.52
42:BH:35:VAL:HG12	42:BH:35:VAL:O	2.10	0.52
42:BH:40:GLU:O	42:BH:41:MET:HB2	2.10	0.52
19:AS:53:ASN:N	19:AS:53:ASN:HD22	2.06	0.52
16:CP:72:ARG:C	16:CP:74:LEU:N	2.63	0.52
46:BP:74:GLU:HA	46:BP:74:GLU:OE2	2.10	0.52
29:D3:54:VAL:HG12	29:D3:55:ARG:N	2.24	0.52
1:CA:444:C:H2'	1:CA:445:G:C8	2.41	0.52
40:DF:154:VAL:HB	40:DF:173:VAL:HG22	1.90	0.52
5:AE:79:GLU:N	5:AE:79:GLU:OE1	2.40	0.52
1:CA:328:C:C2'	1:CA:328:C:O2	2.58	0.52
1:CA:237:C:H5''	17:CQ:25:ARG:NH1	2.25	0.52
35:DA:188:G:H1'	35:DA:1365:A:N1	2.25	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:BD:112:GLN:N	38:BD:112:GLN:OE1	2.43	0.52
12:AL:21:LYS:CD	12:AL:21:LYS:H	2.10	0.52
33:B7:11:LYS:O	33:B7:14:LYS:N	2.41	0.52
1:AA:894:G:H2'	1:AA:895:G:H8	1.75	0.52
35:BA:970:C:H2'	35:BA:971:C:C6	2.44	0.52
46:DP:56:SER:C	46:DP:58:THR:H	2.13	0.52
9:AI:65:VAL:CG2	9:AI:66:ARG:N	2.72	0.52
35:BA:1289:C:H2'	35:BA:1290:C:H6	1.73	0.52
15:AO:39:LEU:HD12	15:AO:56:LEU:CD1	2.40	0.52
35:DA:1335:U:H2'	35:DA:1336:A:H8	1.74	0.52
29:D3:41:PRO:HD3	29:D3:44:ARG:CZ	2.40	0.52
27:B1:8:SER:HA	35:BA:1365:A:OP2	2.10	0.52
1:CA:1300:G:O2'	1:CA:1301:U:O5'	2.26	0.52
35:DA:174:C:O2	35:DA:174:C:H2'	2.09	0.52
55:DY:101:LYS:CG	55:DY:102:CYS:N	2.72	0.52
4:CD:190:ASP:O	4:CD:191:ARG:C	2.48	0.52
7:AG:25:ALA:HA	7:AG:28:ASN:HD22	1.75	0.52
35:DA:2875:C:C4'	50:DT:5:ALA:HB2	2.39	0.52
7:AG:49:ILE:HG22	7:AG:53:LYS:HG3	1.92	0.52
1:AA:764:C:H2'	1:AA:765:G:O4'	2.10	0.52
39:BE:2:LYS:CE	39:BE:95:ILE:HG22	2.39	0.52
1:CA:358:U:O2'	1:CA:359:U:H5'	2.10	0.52
1:AA:1354:C:O2'	1:AA:1355:G:H5'	2.10	0.52
46:DP:100:LEU:H	46:DP:100:LEU:CD2	2.23	0.52
35:BA:1014:U:H2'	35:BA:1015:G:O4'	2.09	0.52
35:DA:1695:G:H2'	35:DA:1696:G:C5'	2.40	0.52
22:CV:35:A:H2'	22:CV:36:A:O4'	2.10	0.52
35:BA:2785:C:H2'	35:BA:2786:U:C6	2.45	0.52
1:AA:44:G:C2	1:AA:45:U:H1'	2.44	0.52
35:DA:2768:C:O2'	35:DA:2769:C:H5'	2.10	0.52
12:AL:20:LYS:H	12:AL:20:LYS:HD3	1.75	0.52
35:DA:197:A:H5'	35:DA:197:A:C8	2.45	0.52
35:BA:335:C:H4'	55:BY:73:ARG:CZ	2.40	0.52
35:DA:2846:G:H2'	35:DA:2847:U:C6	2.44	0.51
50:DT:108:ARG:O	50:DT:112:ARG:HG3	2.10	0.51
50:DT:32:TYR:O	50:DT:33:LYS:CB	2.57	0.51
50:DT:40:THR:O	50:DT:41:ARG:CB	2.48	0.51
50:DT:28:VAL:HB	50:DT:88:ILE:HG12	1.91	0.51
50:DT:91:ARG:HB3	50:DT:115:ARG:O	2.10	0.51
1:CA:972:C:C5'	10:CJ:57:LYS:HG3	2.40	0.51
5:CE:127:ASN:O	5:CE:131:ILE:HG12	2.10	0.51
38:DD:209:ALA:O	38:DD:210:GLY:O	2.28	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
16:CP:22:THR:CG2	16:CP:32:TYR:HA	2.39	0.51
10:CJ:34:VAL:HG12	10:CJ:35:SER:H	1.75	0.51
42:DH:117:PRO:HB3	42:DH:123:PHE:HD1	1.75	0.51
42:DH:148:ILE:N	42:DH:148:ILE:HD13	2.25	0.51
54:BX:55:ASN:C	54:BX:77:LYS:CG	2.75	0.51
54:BX:83:VAL:O	54:BX:84:ALA:CB	2.58	0.51
41:BG:16:ARG:HH11	41:BG:16:ARG:HG3	1.76	0.51
42:BH:163:TYR:CD1	42:BH:163:TYR:N	2.78	0.51
35:DA:2467:C:O2'	35:DA:2468:G:H5'	2.11	0.51
56:DZ:18:LEU:HG	56:DZ:23:LYS:CB	2.40	0.51
52:DV:69:LYS:HB2	52:DV:93:GLU:OE2	2.10	0.51
3:CC:3:ASN:O	3:CC:4:LYS:C	2.48	0.51
36:BB:52:A:HO2'	36:BB:53:A:H8	1.52	0.51
4:CD:110:PHE:HD1	4:CD:110:PHE:H	1.58	0.51
4:CD:110:PHE:HD1	4:CD:110:PHE:N	2.08	0.51
27:D1:72:GLU:O	27:D1:76:ARG:NH2	2.43	0.51
35:DA:2393:A:O2'	35:DA:2394:C:H5'	2.11	0.51
35:BA:1190:G:C4'	46:BP:35:HIS:HB3	2.40	0.51
48:DR:16:HIS:O	48:DR:17:ARG:C	2.49	0.51
3:AC:109:PRO:O	3:AC:115:LEU:HD12	2.10	0.51
1:AA:385:C:H2'	1:AA:386:C:H6	1.75	0.51
49:DS:83:LYS:O	49:DS:85:VAL:HG22	2.10	0.51
44:BN:17:ASP:OD2	44:BN:55:VAL:O	2.27	0.51
34:D8:49:VAL:CB	34:D8:53:PRO:HD3	2.40	0.51
55:DY:68:HIS:HB3	55:DY:71:LYS:HZ3	1.75	0.51
6:AF:39:LYS:HG2	6:AF:40:VAL:N	2.23	0.51
18:AR:25:THR:O	18:AR:26:LEU:HG	2.10	0.51
16:AP:60:LEU:C	16:AP:62:VAL:N	2.64	0.51
25:CY:16:LYS:C	25:CY:18:LEU:N	2.63	0.51
11:AK:102:GLY:O	11:AK:103:LEU:C	2.47	0.51
11:AK:21:ILE:CB	11:AK:84:VAL:HG12	2.39	0.51
11:AK:58:PRO:HD3	11:AK:89:ALA:CB	2.40	0.51
33:B7:16:HIS:CE1	35:BA:684:G:OP1	2.63	0.51
35:DA:2425:A:O4'	35:DA:2427:C:C6	2.63	0.51
35:BA:2280:G:N3	35:BA:2388:A:H2	2.08	0.51
55:BY:10:GLY:HA2	55:BY:27:VAL:CG1	2.31	0.51
55:BY:39:VAL:O	55:BY:40:GLU:HG2	2.10	0.51
13:AM:86:CYS:O	13:AM:89:GLY:N	2.44	0.51
11:CK:103:LEU:CD2	11:CK:103:LEU:N	2.69	0.51
5:AE:31:LEU:CD1	5:AE:129:ILE:HA	2.40	0.51
5:AE:127:ASN:O	5:AE:131:ILE:HG12	2.10	0.51
35:DA:1658:C:OP1	39:DE:132:HIS:O	2.28	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
31:B5:30:LEU:HD23	31:B5:41:PRO:CA	2.40	0.51
33:D7:29:LYS:NZ	33:D7:32:LYS:HZ2	2.08	0.51
46:DP:97:PRO:C	46:DP:99:LEU:H	2.13	0.51
1:CA:376:G:H2'	1:CA:377:G:C8	2.46	0.51
35:DA:1301:A:O2'	35:DA:1302:A:C2'	2.56	0.51
17:AQ:43:LEU:HD12	17:AQ:68:ARG:HG3	1.91	0.51
53:DW:17:VAL:C	53:DW:19:LEU:N	2.63	0.51
1:AA:1112:C:C4	3:AC:178:LEU:HD23	2.45	0.51
35:BA:1710:C:O2'	35:BA:1711:C:H5'	2.10	0.51
35:DA:290:G:C2'	35:DA:291:C:H5'	2.40	0.51
13:AM:3:ARG:HA	13:AM:9:ILE:CG1	2.37	0.51
35:BA:1300:U:O2'	35:BA:1301:A:P	2.68	0.51
15:AO:81:LEU:O	15:AO:84:LYS:HB2	2.11	0.51
35:DA:554:U:C2'	35:DA:555:U:H5'	2.41	0.51
1:AA:498:U:C2'	1:AA:499:A:H5'	2.40	0.51
10:AJ:78:ASN:C	10:AJ:80:LYS:N	2.63	0.51
35:DA:1531:C:H3'	35:DA:1532:C:O4'	2.10	0.51
35:BA:2875:C:C4'	50:BT:5:ALA:HB2	2.39	0.51
35:BA:2870:C:O2'	35:BA:2871:C:H5'	2.10	0.51
1:CA:1261:A:H62	1:CA:1274:G:N2	2.07	0.51
53:BW:59:VAL:O	53:BW:61:ASN:N	2.43	0.51
1:CA:1332:A:H2'	1:CA:1333:A:H8	1.75	0.51
35:DA:2359:C:H6	35:DA:2359:C:O5'	1.93	0.51
34:D8:51:ALA:HA	34:D8:54:GLU:OE1	2.10	0.51
51:DU:38:THR:O	51:DU:41:ALA:HB3	2.09	0.51
1:AA:594:G:O2'	1:AA:595:G:H5'	2.09	0.51
1:AA:1333:A:C2	1:AA:1334:G:H1'	2.45	0.51
48:DR:104:ARG:O	48:DR:106:GLY:N	2.43	0.51
49:BS:11:LYS:N	49:BS:11:LYS:HD3	2.24	0.51
35:DA:2511:U:O3'	39:DE:123:ALA:HB3	2.10	0.51
25:AY:105:PRO:O	25:AY:106:LEU:HD23	2.10	0.51
35:BA:2553:G:H2'	35:BA:2554:U:H4'	1.92	0.51
15:AO:75:PRO:O	15:AO:79:ARG:HG3	2.10	0.51
17:AQ:23:VAL:O	17:AQ:39:SER:HB2	2.09	0.51
35:DA:2759:G:H5'	35:DA:2759:G:C8	2.45	0.51
35:DA:2562:U:H2'	35:DA:2563:U:C5'	2.40	0.51
39:DE:9:VAL:HG23	50:DT:8:LYS:HB2	1.92	0.51
50:DT:100:TYR:C	50:DT:102:ILE:N	2.63	0.51
50:DT:28:VAL:CG2	50:DT:46:GLU:HA	2.40	0.51
38:BD:92:ILE:HA	38:BD:107:ALA:HB2	1.92	0.51
47:DQ:20:ALA:O	47:DQ:23:GLY:N	2.34	0.51
50:BT:43:GLN:HG2	50:BT:44:ASP:O	2.11	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
56:BZ:156:LYS:O	56:BZ:156:LYS:HG2	2.10	0.51
35:DA:2056:G:N2	35:DA:2057:A:C1'	2.72	0.51
35:BA:998:C:N4	35:BA:1158:C:H42	2.07	0.51
51:BU:92:ARG:NH1	52:BV:11:GLN:O	2.42	0.51
42:DH:147:ASN:O	42:DH:150:ALA:HB3	2.10	0.51
3:AC:24:ALA:HB1	3:AC:28:GLN:O	2.10	0.51
54:BX:29:TRP:HA	54:BX:29:TRP:CE3	2.44	0.51
27:B1:10:LYS:C	27:B1:13:ILE:HG22	2.28	0.51
27:B1:47:GLN:HE21	27:B1:64:ALA:HB2	1.74	0.51
27:B1:87:PRO:HG2	27:B1:88:LYS:N	2.26	0.51
28:D2:48:HIS:CE1	35:DA:75:G:H4'	2.45	0.51
35:DA:1600:C:C2'	35:DA:1601:G:H5'	2.40	0.51
54:DX:7:VAL:HB	54:DX:8:ILE:HD12	1.92	0.51
41:BG:24:GLY:O	41:BG:25:TYR:C	2.48	0.51
42:BH:117:PRO:HB3	42:BH:123:PHE:HD1	1.75	0.51
42:BH:85:LYS:HZ3	42:BH:145:ALA:HA	1.74	0.51
42:BH:89:ILE:CG1	42:BH:90:LYS:H	2.22	0.51
47:DQ:66:ILE:HG22	47:DQ:104:PHE:HE2	1.73	0.51
56:DZ:45:ASP:O	56:DZ:46:LYS:C	2.49	0.51
51:DU:92:ARG:NH2	52:DV:10:LYS:HA	2.25	0.51
3:CC:141:VAL:HG11	3:CC:202:ILE:CD1	2.40	0.51
4:CD:10:ARG:C	4:CD:13:ARG:HB3	2.30	0.51
47:BQ:34:LEU:HD22	47:BQ:121:ALA:HB3	1.92	0.51
35:DA:2413:G:H21	46:DP:70:GLN:NE2	2.08	0.51
44:DN:97:ARG:HB3	44:DN:101:HIS:HD2	1.76	0.51
35:BA:244:A:O2'	46:BP:73:GLY:HA3	2.10	0.51
35:BA:959:A:H2'	35:BA:960:A:C8	2.44	0.51
48:DR:10:LEU:HB3	48:DR:17:ARG:NE	2.24	0.51
3:AC:109:PRO:HG2	3:AC:110:ASN:H	1.73	0.51
20:AT:32:ALA:C	20:AT:36:LEU:HD23	2.31	0.51
2:AB:41:ILE:HD12	2:AB:41:ILE:N	2.24	0.51
44:BN:52:VAL:O	44:BN:120:LEU:HD22	2.10	0.51
35:DA:589:C:O2'	35:DA:590:A:H5'	2.10	0.51
4:AD:202:LEU:O	4:AD:205:GLU:N	2.42	0.51
1:CA:1530:G:OP1	1:CA:1530:G:H4'	2.10	0.51
17:CQ:29:HIS:CA	17:CQ:36:ILE:HD11	2.40	0.51
44:BN:78:TYR:CG	44:BN:79:PRO:HD3	2.45	0.51
26:D0:41:ARG:HH21	35:DA:2387:U:H1'	1.73	0.51
12:AL:60:LEU:O	12:AL:62:SER:N	2.44	0.51
8:CH:114:THR:HG23	8:CH:116:LYS:O	2.10	0.51
35:BA:2248:C:O2'	35:BA:2249:U:H5'	2.11	0.51
55:BY:28:LYS:CD	55:BY:37:VAL:HG12	2.40	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
11:AK:22:HIS:C	11:AK:28:THR:HG23	2.30	0.51
35:DA:1246:A:OP1	46:DP:18:ARG:HG3	2.11	0.51
1:AA:199:G:H2'	1:AA:200:G:H8	1.75	0.51
1:AA:1392:G:O2'	1:AA:1393:U:H5'	2.10	0.51
43:DI:4:ILE:O	43:DI:36:ALA:HB1	2.10	0.51
43:DI:5:LEU:O	43:DI:6:LEU:HG	2.11	0.51
1:AA:1148:U:OP1	9:AI:7:THR:HG21	2.10	0.51
1:CA:1170:A:H2'	1:CA:1171:G:H5'	1.91	0.51
38:BD:131:LEU:N	38:BD:131:LEU:HD12	2.26	0.51
2:AB:175:ARG:O	2:AB:177:ALA:N	2.43	0.51
35:DA:149:A:H2'	35:DA:150:C:O4'	2.09	0.51
35:DA:271(U):G:O2'	35:DA:271(V):G:H5'	2.10	0.51
1:CA:235:C:H5'	17:CQ:70:ARG:HG2	1.92	0.51
1:AA:267:C:P	17:AQ:67:LYS:HB2	2.50	0.51
35:BA:1248:G:H2'	51:BU:2:PRO:O	2.11	0.51
1:CA:325:A:N6	1:CA:326:G:C6	2.78	0.51
35:DA:1771:C:H1'	35:DA:1786:A:H8	1.74	0.51
19:CS:50:ALA:HB1	19:CS:57:HIS:HB3	1.91	0.51
13:AM:35:GLU:HG3	13:AM:36:LYS:N	2.24	0.51
1:AA:895:G:H2'	1:AA:896:C:C6	2.45	0.51
35:DA:289:A:H3'	35:DA:290:G:H8	1.75	0.51
35:DA:1153:C:N4	35:DA:1154:G:C2	2.79	0.51
28:D2:30:ARG:O	28:D2:34:GLU:HB3	2.10	0.51
2:CB:28:PHE:HD1	2:CB:28:PHE:O	1.94	0.51
35:BA:1112:G:C1'	35:BA:1113:U:OP1	2.57	0.51
6:AF:12:PRO:HG3	6:AF:57:GLN:O	2.10	0.51
1:CA:1388:C:H2'	1:CA:1389:C:H6	1.70	0.51
35:BA:2007:C:H6	35:BA:2007:C:O5'	1.93	0.51
29:D3:22:ALA:CB	29:D3:46:ASN:HD22	2.23	0.51
35:BA:1531:C:H3'	35:BA:1532:C:O4'	2.10	0.51
45:BO:47:ILE:HG23	45:BO:48:PRO:CD	2.40	0.51
35:BA:1434:A:O2'	35:BA:1435:G:H5'	2.10	0.51
1:CA:702:A:H3'	1:CA:703:G:C5'	2.39	0.51
17:AQ:56:VAL:CG2	17:AQ:78:GLU:HG3	2.41	0.51
35:DA:271(F):C:H2'	35:DA:271(G):C:H6	1.74	0.51
35:BA:52:A:C2'	35:BA:53:A:H5'	2.40	0.51
1:CA:788:U:O2'	1:CA:789:U:H5'	2.10	0.51
6:AF:100:ASN:O	6:AF:101:ALA:O	2.27	0.51
35:BA:824:A:H2'	35:BA:825:C:C6	2.45	0.51
35:BA:1931:U:O2'	35:BA:1932:A:H5'	2.11	0.51
3:CC:40:ARG:HB3	3:CC:44:GLU:OE2	2.10	0.51
4:AD:87:GLY:C	4:AD:89:THR:H	2.12	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:23:C:O2'	1:AA:24:U:H5'	2.10	0.51
36:DB:87:G:H2'	36:DB:88:C:H5''	1.91	0.51
35:DA:2692:C:H2'	35:DA:2693:A:H8	1.75	0.51
45:DO:104:ARG:C	45:DO:106:LEU:N	2.61	0.51
45:DO:35:VAL:CG2	45:DO:69:ILE:HG12	2.39	0.51
41:DG:21:ARG:HD3	41:DG:21:ARG:C	2.31	0.51
1:CA:1397:C:H5''	1:CA:1398:A:O5'	2.10	0.51
1:CA:865:A:H2'	1:CA:866:C:H6	1.75	0.51
1:CA:922:G:H4'	5:CE:20:GLN:HG2	1.91	0.51
38:DD:158:ALA:O	38:DD:159:ALA:C	2.49	0.51
41:DG:108:ASN:C	41:DG:112:PRO:HD2	2.31	0.51
41:DG:130:ASN:HA	41:DG:161:THR:OG1	2.10	0.51
32:B6:10:LEU:HD22	32:B6:10:LEU:H	1.76	0.51
45:BO:105:GLU:HA	45:BO:108:GLU:HG3	1.92	0.51
42:DH:85:LYS:NZ	42:DH:145:ALA:HA	2.25	0.51
14:AN:37:PHE:HE1	14:AN:53:LEU:HD22	1.75	0.51
14:AN:40:CYS:SG	14:AN:43:CYS:N	2.75	0.51
39:DE:78:LEU:O	39:DE:79:ARG:HD2	2.10	0.51
39:DE:49:LEU:HD23	39:DE:81:ILE:HG12	1.91	0.51
28:D2:23:LYS:HB2	54:DX:5:TYR:CE1	2.46	0.51
56:DZ:59:LEU:H	56:DZ:59:LEU:CD2	2.23	0.51
1:AA:1051:C:O2'	1:AA:1052:U:H5'	2.11	0.51
1:AA:994:A:H2	14:AN:4:LYS:HG3	1.74	0.51
38:DD:14:ARG:CG	38:DD:14:ARG:HH11	2.23	0.51
4:CD:120:LEU:HA	4:CD:125:HIS:CD2	2.45	0.51
14:CN:3:ARG:NH1	14:CN:3:ARG:HB3	2.26	0.51
46:BP:21:ARG:NH1	46:BP:21:ARG:HG3	2.24	0.51
27:D1:47:GLN:HA	27:D1:47:GLN:OE1	2.10	0.51
46:BP:70:GLN:HA	46:BP:70:GLN:OE1	2.10	0.51
35:BA:2079:U:H2'	35:BA:2080:G:C8	2.45	0.51
35:BA:27:G:H1'	35:BA:513:A:H62	1.76	0.51
35:BA:675:A:O2'	35:BA:676:A:H5'	2.09	0.51
55:BY:74:PRO:HG2	55:BY:80:GLY:O	2.10	0.51
35:DA:1277:G:O2'	35:DA:1278:A:H5'	2.11	0.51
35:BA:2821:A:OP2	35:BA:2822:G:OP2	2.28	0.51
48:BR:2:ARG:NE	48:BR:5:LYS:HE3	2.25	0.51
3:AC:141:VAL:HG11	3:AC:202:ILE:CD1	2.41	0.51
49:DS:62:LYS:O	49:DS:65:VAL:N	2.43	0.51
4:AD:196:LEU:HD12	4:AD:196:LEU:H	1.75	0.51
34:D8:55:ALA:O	34:D8:59:LYS:NZ	2.36	0.51
34:D8:56:GLU:O	34:D8:58:ILE:N	2.43	0.51
40:DF:65:TRP:O	40:DF:67:GLN:N	2.44	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:402:A:O2'	35:BA:403:U:H5'	2.10	0.51
47:BQ:53:ALA:O	47:BQ:56:ARG:HB3	2.10	0.51
1:CA:794:A:H2'	1:CA:795:C:C6	2.45	0.51
3:AC:172:ARG:HH11	3:AC:172:ARG:HB3	1.74	0.51
35:DA:514:A:H2'	35:DA:515:A:H8	1.74	0.51
25:CY:129:ILE:O	25:CY:132:ILE:HG13	2.10	0.51
25:CY:2:THR:O	25:CY:3:LEU:C	2.49	0.51
35:BA:1213:A:N3	35:BA:1238:G:H1'	2.25	0.51
7:CG:106:GLN:HA	7:CG:109:ASN:HD22	1.76	0.51
7:CG:104:LEU:O	7:CG:107:ALA:HB3	2.10	0.51
12:AL:38:THR:HG23	12:AL:39:VAL:N	2.26	0.51
7:AG:145:ALA:O	7:AG:146:GLU:HB2	2.09	0.51
40:DF:39:TRP:HA	40:DF:99:TYR:CE1	2.45	0.51
8:AH:83:ILE:HD13	8:AH:137:VAL:CG2	2.34	0.51
5:AE:71:LEU:HD11	5:AE:114:GLY:C	2.30	0.51
25:CY:38:LEU:C	25:CY:40:HIS:H	2.14	0.51
8:AH:64:LYS:O	8:AH:79:VAL:CG2	2.59	0.51
35:DA:2886:G:N2	35:DA:2887:U:C2	2.79	0.51
9:CI:24:GLY:HA2	9:CI:59:PHE:O	2.11	0.51
54:DX:65:ARG:CZ	54:DX:66:LEU:N	2.68	0.51
38:BD:132:PRO:O	38:BD:136:ILE:HG13	2.10	0.51
35:BA:1612:C:H2'	35:BA:1613:G:O5'	2.11	0.51
1:CA:390:C:O3'	16:CP:28:ARG:NH2	2.43	0.51
5:AE:102:ALA:HB1	5:AE:106:PRO:HG2	1.92	0.51
1:AA:835:U:OP1	18:AR:61:LYS:HB2	2.10	0.51
35:DA:1772:G:N2	35:DA:1979:C:O2	2.38	0.51
38:BD:111:LEU:HD13	38:BD:112:GLN:N	2.25	0.51
13:CM:23:TYR:HE1	13:CM:71:ARG:CB	2.19	0.51
25:CY:108:GLU:HG2	25:CY:111:ARG:NH2	2.25	0.51
13:AM:68:GLY:O	13:AM:71:ARG:N	2.43	0.51
15:AO:66:LEU:H	15:AO:66:LEU:HD12	1.75	0.51
53:BW:48:ALA:O	53:BW:51:LEU:N	2.43	0.51
10:AJ:22:LYS:NZ	10:AJ:23:ILE:HG12	2.25	0.51
43:DI:58:LEU:HD23	43:DI:58:LEU:C	2.30	0.51
53:DW:66:GLU:HG2	53:DW:66:GLU:O	2.10	0.51
35:BA:1515:G:O2'	35:BA:1516:C:H5'	2.11	0.51
30:B4:29:PRO:C	30:B4:31:ILE:N	2.63	0.51
1:CA:651:C:H2'	1:CA:652:U:C6	2.45	0.51
29:B3:22:ALA:CB	29:B3:46:ASN:HD22	2.23	0.51
1:CA:119:A:H4'	1:CA:120:A:O5'	2.10	0.51
23:AW:29:C:H2'	23:AW:30:G:C8	2.43	0.51
18:CR:32:ARG:HA	18:CR:69:THR:HG21	1.92	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1332:A:H2'	1:AA:1333:A:H8	1.75	0.51
35:DA:2550:G:H2'	35:DA:2551:C:H6	1.75	0.51
55:DY:54:LYS:O	55:DY:55:TYR:O	2.29	0.51
35:BA:1572:A:O2'	35:BA:1573:G:H5'	2.10	0.51
9:CI:6:GLY:HA3	9:CI:84:ALA:N	2.26	0.51
50:DT:102:ILE:HG12	50:DT:103:ARG:N	2.25	0.51
10:CJ:64:GLU:N	14:CN:59:ALA:HB2	2.25	0.51
41:DG:12:TYR:HA	41:DG:16:ARG:HG3	1.92	0.51
38:BD:16:MET:HG3	38:BD:206:LEU:O	2.10	0.51
35:BA:782:A:C2	38:BD:226:MET:CE	2.92	0.51
5:CE:12:LEU:O	5:CE:12:LEU:HD22	2.10	0.51
35:DA:2314:C:O2'	35:DA:2315:G:H5'	2.10	0.51
35:BA:2420:C:O2'	35:BA:2421:G:H5'	2.10	0.51
35:BA:873:G:H1	35:BA:904:C:H42	1.58	0.51
56:BZ:121:HIS:C	56:BZ:123:ASP:N	2.64	0.51
35:DA:2491:U:C5'	35:DA:2570:G:H5''	2.22	0.51
39:BE:47:VAL:CG2	39:BE:84:PHE:O	2.59	0.51
52:BV:63:GLY:O	52:BV:64:HIS:HB3	2.11	0.51
14:AN:29:ARG:HG3	14:AN:29:ARG:HH11	1.75	0.51
27:B1:47:GLN:NE2	27:B1:48:LYS:O	2.43	0.51
41:BG:77:ILE:HD12	41:BG:82:LEU:O	2.10	0.51
28:D2:26:ARG:NH2	54:DX:7:VAL:N	2.56	0.51
35:DA:873:G:H1	35:DA:904:C:H42	1.58	0.51
36:DB:104:U:H4'	56:DZ:72:ARG:HH11	1.74	0.51
51:DU:88:ILE:HA	51:DU:90:VAL:HG23	1.92	0.51
52:DV:19:LYS:CE	52:DV:19:LYS:HA	2.41	0.51
49:BS:29:PHE:HB3	49:BS:36:TYR:HB2	1.92	0.51
49:BS:32:LEU:O	49:BS:33:LYS:HB2	2.09	0.51
49:BS:62:LYS:O	49:BS:65:VAL:N	2.44	0.51
4:CD:105:VAL:CG2	4:CD:126:ILE:HD13	2.37	0.51
4:CD:13:ARG:HD3	4:CD:39:PRO:C	2.30	0.51
4:CD:13:ARG:HG2	4:CD:14:ARG:H	1.74	0.51
43:DI:88:ILE:HG23	43:DI:89:TYR:H	1.75	0.51
40:BF:21:ALA:O	40:BF:23:ASP:N	2.44	0.51
46:DP:71:VAL:HG22	46:DP:72:PRO:CD	2.40	0.51
35:BA:836:G:C5	35:BA:837:C:C4	2.98	0.51
35:BA:1225:G:OP1	52:BV:88:ARG:HD2	2.10	0.51
35:DA:2821:A:OP2	48:DR:2:ARG:NH1	2.43	0.51
1:AA:1429:C:O2'	1:AA:1430:C:H5'	2.10	0.51
35:BA:2718:G:H2'	35:BA:2719:G:H8	1.76	0.51
49:DS:92:TYR:HD1	49:DS:93:LYS:N	2.06	0.51
1:CA:656:C:H4'	15:CO:62:GLN:NE2	2.25	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:D8:58:ILE:HG22	34:D8:58:ILE:O	2.11	0.51
35:DA:1190:G:C4'	46:DP:35:HIS:HB3	2.40	0.51
52:DV:89:GLN:HE21	52:DV:89:GLN:HA	1.74	0.51
35:DA:685:A:C5	35:DA:774:A:C2	2.98	0.51
17:AQ:29:HIS:CE1	17:AQ:31:LEU:HB3	2.45	0.51
4:AD:22:LYS:HB3	4:AD:22:LYS:NZ	2.25	0.51
1:CA:1405:G:H21	1:CA:1517:G:H22	1.55	0.51
16:CP:23:ASP:HB3	16:CP:26:ARG:HG3	1.93	0.51
1:CA:692:U:H5	11:CK:26:ASN:ND2	2.08	0.51
7:CG:92:SER:OG	7:CG:94:ARG:NE	2.43	0.51
40:DF:39:TRP:CE3	40:DF:40:GLN:HG2	2.45	0.51
9:CI:13:ALA:HA	9:CI:67:GLY:C	2.30	0.51
9:AI:3:GLN:CG	9:AI:20:ARG:HH21	2.23	0.51
12:CL:60:LEU:HD23	12:CL:64:TYR:C	2.31	0.51
1:AA:1349:A:H2'	1:AA:1350:A:H8	1.74	0.51
1:CA:522:C:N4	1:CA:528:C:N4	2.56	0.51
9:CI:53:VAL:HG12	9:CI:95:LYS:HE3	1.92	0.51
9:CI:28:VAL:HA	9:CI:63:ILE:O	2.11	0.51
35:DA:1608:A:O3'	35:DA:1609:A:H3'	2.10	0.51
31:D5:20:ARG:NH1	53:DW:15:ARG:NH2	2.50	0.51
35:BA:2119:A:C3'	35:BA:2120:G:C5'	2.89	0.51
17:CQ:47:PRO:HG2	17:CQ:48:GLU:OE2	2.11	0.51
1:AA:969:A:H2'	1:AA:970:C:O4'	2.10	0.51
32:B6:15:GLU:O	32:B6:15:GLU:CG	2.58	0.51
5:CE:89:ILE:HG12	5:CE:90:VAL:N	2.25	0.51
39:DE:171:GLU:O	39:DE:173:VAL:HG23	2.10	0.51
29:B3:40:THR:HG23	29:B3:43:ILE:H	1.75	0.51
1:CA:1255:G:H2'	1:CA:1255:G:N3	2.24	0.51
46:DP:57:THR:C	46:DP:59:LEU:H	2.13	0.51
9:AI:13:ALA:HA	9:AI:67:GLY:C	2.30	0.51
9:AI:65:VAL:HG22	9:AI:66:ARG:H	1.74	0.51
1:AA:1298:C:H1'	1:AA:1299:A:C2	2.45	0.51
35:DA:1352:U:O2'	35:DA:1353:A:H5'	2.11	0.51
53:BW:20:VAL:O	53:BW:23:LEU:HB2	2.10	0.51
28:D2:36:ARG:HH12	54:DX:92:LEU:HD22	1.74	0.51
54:DX:88:LYS:C	54:DX:90:GLU:N	2.63	0.51
35:DA:1708:C:O2'	35:DA:1709:U:H5'	2.09	0.51
2:AB:19:HIS:CA	2:AB:39:ILE:HD13	2.39	0.51
31:D5:15:ARG:HA	31:D5:18:ALA:CB	2.40	0.51
24:AX:20:A:O2'	24:AX:21:G:H5'	2.10	0.51
35:BA:2407:G:C2	35:BA:2408:U:C4	2.99	0.51
56:DZ:9:TYR:HE1	56:DZ:61:LEU:HD13	1.76	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:CF:38:GLU:HG3	6:CF:65:VAL:HA	1.92	0.51
43:DI:29:TYR:HD1	43:DI:33:ARG:HE	1.56	0.51
35:DA:1227:G:O2'	35:DA:1228:G:H5'	2.10	0.51
57:DC:86:ALA:O	57:DC:94:VAL:HG21	2.11	0.51
35:BA:2379:G:H2'	35:BA:2380:C:C6	2.46	0.51
37:BC:214:VAL:O	37:BC:216:THR:N	2.43	0.51
35:BA:391:G:O2'	35:BA:392:C:H5'	2.11	0.51
1:CA:997:U:H2'	1:CA:998:G:C8	2.45	0.51
35:DA:2553:G:H2'	35:DA:2554:U:H4'	1.91	0.51
35:DA:1166:C:H2'	35:DA:1167:U:H6	1.75	0.51
6:AF:42:GLU:C	6:AF:44:GLY:N	2.64	0.51
1:CA:139:G:O2'	1:CA:140:A:H5'	2.11	0.51
1:CA:1442(A):G:C3'	1:CA:1442(B):A:C5'	2.81	0.51
45:DO:20:MET:HE3	45:DO:44:LYS:HG3	1.91	0.51
45:DO:63:VAL:HG11	45:DO:85:VAL:HG23	1.92	0.51
50:DT:96:ARG:CZ	50:DT:96:ARG:HB3	2.40	0.51
38:BD:158:ALA:O	38:BD:159:ALA:C	2.49	0.51
38:BD:35:LYS:CG	38:BD:64:ILE:H	2.13	0.51
35:DA:1788:C:O5'	35:DA:1788:C:H6	1.93	0.51
35:DA:1568:G:H4'	38:DD:59:LYS:CG	2.41	0.51
34:B8:34:TRP:CZ3	34:B8:41:ILE:HG23	2.46	0.51
56:BZ:94:GLU:OE2	56:BZ:95:PRO:HG2	2.10	0.51
39:BE:197:ILE:CG1	39:BE:199:ARG:HH12	2.23	0.51
39:BE:1:MET:HB3	39:BE:200:GLU:OE1	2.10	0.51
39:BE:68:ALA:C	39:BE:70:ALA:H	2.14	0.51
44:BN:46:VAL:CG1	44:BN:48:MET:HG3	2.40	0.51
52:BV:4:ILE:CG1	52:BV:40:LEU:HD11	2.40	0.51
42:DH:98:LEU:HD12	42:DH:102:ALA:O	2.10	0.51
10:AJ:50:ILE:HD11	14:AN:41:ARG:CD	2.35	0.51
54:BX:55:ASN:ND2	54:BX:55:ASN:N	2.57	0.51
54:BX:77:LYS:CD	54:BX:78:LYS:H	2.24	0.51
28:D2:12:GLU:O	28:D2:14:ARG:NH1	2.43	0.51
47:DQ:119:ARG:HG3	47:DQ:119:ARG:HH11	1.76	0.51
1:CA:1220:G:O2'	1:CA:1221:G:H5'	2.10	0.51
4:CD:163:GLU:C	4:CD:165:MET:N	2.61	0.51
40:BF:114:VAL:O	40:BF:115:ALA:C	2.48	0.51
34:B8:58:ILE:HG22	34:B8:58:ILE:O	2.11	0.51
40:BF:65:TRP:CZ3	40:BF:72:ARG:HB3	2.46	0.51
47:BQ:17:LEU:HD21	47:BQ:41:TRP:HE1	1.76	0.51
20:AT:38:LYS:O	20:AT:39:LYS:C	2.49	0.51
20:AT:41:ILE:C	20:AT:43:LEU:N	2.63	0.51
35:BA:1755:A:H2	35:BA:2716:U:C1'	2.20	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
50:BT:100:TYR:O	50:BT:103:ARG:N	2.43	0.51
2:CB:80:ILE:HD11	2:CB:215:LEU:HD12	1.92	0.51
2:AB:69:LEU:HB3	2:AB:162:ILE:CG2	2.40	0.51
27:D1:37:ILE:O	27:D1:38:SER:HB2	2.11	0.51
44:BN:24:GLY:HA2	44:BN:27:ALA:HB3	1.92	0.51
44:BN:34:LEU:CD2	44:BN:120:LEU:HD23	2.41	0.51
15:CO:82:ILE:C	15:CO:82:ILE:HD13	2.31	0.51
2:CB:165:VAL:O	2:CB:187:LEU:O	2.28	0.51
34:D8:53:PRO:C	34:D8:55:ALA:N	2.64	0.51
4:AD:176:LEU:CG	4:AD:177:ASP:N	2.63	0.51
6:AF:26:ILE:O	6:AF:29:ALA:HB3	2.11	0.51
6:AF:61:LEU:O	6:AF:62:TRP:CB	2.58	0.51
18:AR:36:ASN:O	18:AR:39:VAL:HG23	2.10	0.51
1:CA:1516:G:H22	1:CA:1518:A:H3'	1.76	0.51
35:DA:2617:C:O2'	35:DA:2618:G:H5'	2.11	0.51
25:CY:142:LYS:O	25:CY:145:LYS:HB3	2.10	0.51
1:CA:551:U:C2	1:CA:552:U:C5	2.99	0.51
1:CA:552:U:H4'	12:CL:87:GLY:H	1.75	0.51
16:AP:74:LEU:O	16:AP:79:VAL:HG23	2.11	0.51
1:CA:880:C:OP2	12:CL:6:THR:HG21	2.11	0.51
1:CA:691:G:H1	11:CK:52:GLY:HA2	1.75	0.51
35:BA:1569:A:O2'	38:BD:38:LYS:HE2	2.11	0.51
35:DA:261:G:C2	35:DA:262:A:C8	2.98	0.51
1:AA:223:U:H2'	1:AA:224:C:H6	1.76	0.51
5:AE:8:GLU:N	5:AE:34:VAL:HG13	2.25	0.51
52:DV:78:LYS:CD	52:DV:79:VAL:N	2.66	0.51
8:CH:11:THR:HG23	8:CH:14:ARG:NH1	2.21	0.51
54:BX:65:ARG:NE	54:BX:66:LEU:N	2.58	0.51
1:AA:1116:C:H3'	1:AA:1117:G:H5''	1.90	0.51
56:BZ:109:ALA:C	56:BZ:110:GLY:O	2.46	0.51
1:CA:707:C:O2'	1:CA:708:C:H5'	2.10	0.51
1:CA:1409:C:H2'	1:CA:1410:G:H8	1.76	0.51
35:DA:2200:C:N4	35:DA:2223:G:H1	2.07	0.51
7:CG:47:CYS:O	7:CG:58:PRO:HG3	2.10	0.51
35:DA:2097:C:O2'	35:DA:2098:U:H5'	2.09	0.51
31:D5:25:LEU:HD12	53:DW:23:LEU:CD1	2.41	0.51
5:CE:102:ALA:HB1	5:CE:106:PRO:HG2	1.91	0.51
1:AA:1255:G:H2'	1:AA:1255:G:N3	2.24	0.51
1:AA:1418:A:H2	35:BA:1948:G:N3	2.09	0.51
15:AO:70:LEU:HG	15:AO:78:TYR:HB2	1.93	0.51
38:BD:165:ILE:CD1	38:BD:165:ILE:N	2.70	0.51
35:DA:1112:G:C1'	35:DA:1113:U:OP2	2.56	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:481:G:C2'	35:BA:482:A:OP2	2.59	0.51
11:AK:123:LYS:O	11:AK:124:LYS:C	2.49	0.51
35:DA:1829:A:H2'	35:DA:1830:C:O4'	2.10	0.51
35:BA:921:G:H2'	35:BA:922:U:C6	2.45	0.51
7:CG:21:VAL:HG23	7:CG:22:LEU:N	2.25	0.51
35:BA:2839:G:H2'	35:BA:2840:C:C6	2.45	0.51
45:DO:47:ILE:HG23	45:DO:48:PRO:CD	2.39	0.51
35:BA:2875:C:O2'	50:BT:5:ALA:HB3	2.10	0.51
35:BA:1829:A:H2'	35:BA:1830:C:O4'	2.10	0.51
38:BD:203:ASN:O	38:BD:204:ILE:O	2.29	0.51
57:DC:89:ALA:HA	57:DC:153:ILE:CB	2.41	0.51
35:BA:644:A:O2'	35:BA:645:C:H5''	2.10	0.51
38:DD:201:HIS:C	38:DD:203:ASN:H	2.13	0.51
35:BA:2552:U:C2	35:BA:2554:U:H5'	2.46	0.51
35:DA:2663:G:O2'	35:DA:2664:G:H5'	2.10	0.51
35:DA:453:C:H1'	35:DA:457:A:C2	2.45	0.51
50:BT:54:ARG:HA	50:BT:59:THR:OG1	2.09	0.51
35:DA:1272:A:OP2	35:DA:1647:G:OP1	2.28	0.51
42:DH:60:ARG:O	42:DH:64:LEU:HG	2.10	0.51
25:AY:20:VAL:O	25:AY:23:HIS:HB3	2.11	0.51
1:AA:509:A:H2'	1:AA:510:A:C8	2.46	0.51
35:DA:2441:C:H2'	35:DA:2441:C:O2	2.10	0.51
35:BA:516:C:O2'	35:BA:517:C:H5'	2.11	0.51
1:AA:1178:G:N2	1:AA:1180:A:H3'	2.26	0.51
45:DO:1:MET:CE	45:DO:1:MET:H3	2.21	0.51
45:DO:44:LYS:O	45:DO:45:GLU:HB3	2.09	0.51
50:DT:27:THR:HG1	50:DT:87:ASP:HA	1.74	0.51
43:BI:92:VAL:HG12	43:BI:119:PRO:O	2.11	0.51
38:DD:213:ARG:O	38:DD:215:LEU:N	2.43	0.51
41:DG:106:LEU:O	41:DG:108:ASN:N	2.44	0.51
10:CJ:16:LEU:HA	10:CJ:19:SER:OG	2.10	0.51
34:B8:31:HIS:O	34:B8:32:LEU:C	2.48	0.51
47:DQ:20:ALA:CB	47:DQ:98:LYS:HB3	2.40	0.51
1:AA:1440:C:O2'	1:AA:1441:G:H5'	2.10	0.51
39:BE:8:LYS:HD2	39:BE:189:PRO:O	2.10	0.51
50:BT:28:VAL:HG11	50:BT:46:GLU:OE1	2.11	0.51
16:AP:19:ILE:CG2	16:AP:36:ILE:HG13	2.39	0.51
16:AP:9:PHE:HE2	16:AP:18:ARG:NE	2.08	0.51
39:BE:47:VAL:HG23	39:BE:84:PHE:O	2.09	0.51
35:BA:528:A:OP2	44:BN:114:ARG:HD2	2.10	0.51
52:BV:61:VAL:HG23	52:BV:100:ARG:HG2	1.91	0.51
1:AA:950:U:H1'	1:AA:971:G:N7	2.26	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
54:BX:7:VAL:HA	54:BX:31:HIS:HB2	1.92	0.51
27:B1:10:LYS:HG3	27:B1:11:ARG:N	2.25	0.51
27:B1:87:PRO:HA	27:B1:90:ILE:HG12	1.93	0.51
41:BG:57:ALA:O	41:BG:60:LEU:HB3	2.10	0.51
41:BG:93:THR:CG2	41:BG:95:ARG:HG3	2.39	0.51
54:DX:77:LYS:CD	54:DX:78:LYS:H	2.23	0.51
42:BH:85:LYS:O	42:BH:132:ARG:CA	2.56	0.51
56:DZ:141:VAL:O	56:DZ:144:LEU:HD23	2.11	0.51
56:DZ:96:VAL:CG2	56:DZ:97:GLU:N	2.74	0.51
49:BS:29:PHE:CD1	49:BS:29:PHE:C	2.84	0.51
4:CD:68:TYR:CZ	4:CD:97:LEU:HD22	2.46	0.51
40:BF:43:LYS:HA	40:BF:98:SER:HA	1.92	0.51
1:AA:324:G:N2	1:AA:327:A:C8	2.79	0.51
35:BA:2692:C:O2'	35:BA:2693:A:H5'	2.11	0.51
50:BT:96:ARG:CG	50:BT:96:ARG:NH1	2.71	0.51
49:DS:29:PHE:HB3	49:DS:36:TYR:HB2	1.92	0.51
2:AB:167:PRO:O	2:AB:168:THR:C	2.48	0.51
44:DN:126:PRO:O	44:DN:127:ASP:CB	2.58	0.51
6:CF:67:MET:CE	6:CF:72:VAL:H	2.24	0.51
8:CH:69:ARG:HB2	8:CH:74:PRO:HA	1.93	0.51
1:AA:410:G:N1	1:AA:429:U:O2	2.44	0.51
17:AQ:29:HIS:HE1	17:AQ:31:LEU:HB3	1.74	0.51
17:AQ:31:LEU:HG	17:AQ:32:TYR:CD2	2.46	0.51
1:AA:908:A:C4	1:AA:909:A:N7	2.79	0.51
35:DA:1131:G:H1'	35:DA:1132:A:C8	2.46	0.51
1:CA:1325:C:H4'	21:CU:17:THR:HG21	1.93	0.51
1:CA:1307:U:H2'	1:CA:1308:U:H6	1.71	0.51
25:AY:64:ARG:CZ	25:AY:64:ARG:N	2.74	0.51
12:AL:32:PHE:HE1	12:AL:86:ARG:HG3	1.76	0.51
25:AY:3:LEU:HB3	25:AY:7:TYR:CE1	2.45	0.51
1:AA:707:C:O2'	1:AA:708:C:H5'	2.11	0.51
7:CG:88:PRO:O	7:CG:89:MET:HB3	2.09	0.51
35:DA:1410:G:C6	35:DA:1411:C:N4	2.79	0.51
55:BY:37:VAL:O	55:BY:38:ILE:CB	2.59	0.51
1:AA:601:C:H2'	1:AA:602:A:C8	2.43	0.51
8:AH:114:THR:HG23	8:AH:116:LYS:O	2.11	0.51
1:AA:192:U:H4'	20:AT:102:GLY:O	2.11	0.51
8:AH:9:MET:O	8:AH:12:ARG:N	2.42	0.51
46:DP:90:ARG:HH11	46:DP:91:PHE:HB3	1.75	0.51
1:CA:874:G:H2'	1:CA:875:C:H6	1.76	0.51
35:BA:272(C):G:H2'	35:BA:272(D):G:C8	2.40	0.51
35:BA:1050:A:C4	35:BA:2751:G:C2	2.99	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:CI:4:TYR:HD1	9:CI:4:TYR:N	2.08	0.51
35:DA:1604:C:O2'	35:DA:1605:C:H5'	2.10	0.51
5:CE:146:ALA:C	5:CE:148:VAL:N	2.61	0.51
38:BD:173:VAL:HG12	38:BD:185:VAL:O	2.11	0.51
16:CP:72:ARG:O	16:CP:74:LEU:N	2.43	0.51
38:DD:132:PRO:O	38:DD:136:ILE:HG13	2.10	0.51
35:BA:2590:A:O3'	38:BD:239:ARG:HG3	2.10	0.51
35:BA:2119:A:C2'	35:BA:2120:G:H5''	2.40	0.51
39:BE:103:ASP:OD1	39:BE:168:MET:HG2	2.11	0.51
35:DA:323:G:O2'	35:DA:1205:U:N3	2.44	0.51
1:AA:1054:C:H2'	1:AA:1054:C:O2	2.11	0.51
1:AA:1054:C:P	1:AA:1197:G:OP2	2.68	0.51
35:BA:1486:A:N6	35:BA:1504:C:H42	2.09	0.51
1:CA:59:A:C5'	1:CA:60:A:C5'	2.86	0.51
5:CE:72:GLN:HE22	5:CE:77:PRO:CD	2.22	0.51
35:DA:2187:G:O2'	35:DA:2188:C:H5'	2.11	0.51
1:CA:1253:G:O2'	1:CA:1254:C:H5'	2.10	0.51
13:AM:74:VAL:HA	13:AM:77:ASN:HD22	1.75	0.51
35:BA:1338:G:H5'	35:BA:1339:G:OP2	2.10	0.51
53:BW:17:VAL:O	53:BW:18:ARG:C	2.49	0.51
35:BA:1367:A:H3'	35:BA:1368:G:O4'	2.11	0.51
6:AF:83:ASP:O	6:AF:85:VAL:N	2.43	0.51
22:CV:31:U:H2'	22:CV:31:U:O2	2.09	0.51
7:CG:15:ASP:OD2	7:CG:16:LEU:N	2.43	0.51
30:D4:43:TYR:C	30:D4:45:GLY:H	2.14	0.51
35:BA:2842:G:O2'	35:BA:2843:G:H5'	2.11	0.51
1:AA:525:C:H2'	1:AA:526:C:H6	1.76	0.51
35:DA:1015:G:H2'	35:DA:1015:G:N3	2.24	0.51
35:BA:838:C:O2'	35:BA:839:U:H5'	2.11	0.51
1:AA:1416:G:H2'	1:AA:1417:G:C8	2.45	0.51
1:CA:1131:G:H2'	1:CA:1132:C:C5	2.45	0.51
1:AA:651:C:H2'	1:AA:652:U:C6	2.46	0.51
35:DA:179:G:O2'	35:DA:180:G:H5'	2.11	0.51
17:AQ:99:SER:C	17:AQ:100:LYS:HE2	2.31	0.51
8:CH:112:LEU:C	8:CH:112:LEU:HD12	2.30	0.51
34:D8:48:PHE:HD1	34:D8:48:PHE:H	1.54	0.51
3:CC:30:ARG:HD2	14:CN:38:GLY:HA3	1.93	0.51
1:CA:1430:C:H2'	1:CA:1431:C:C6	2.45	0.51
35:BA:1904:G:N2	35:BA:1905:C:H1'	2.25	0.51
38:BD:24:ILE:O	38:BD:26:LYS:N	2.43	0.51
1:CA:19:C:P	5:CE:127:ASN:HD22	2.34	0.51
1:CA:774:G:OP1	38:DD:202:LYS:NZ	2.40	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2315:G:H2'	35:DA:2316:C:H6	1.69	0.51
36:DB:41:U:N3	41:DG:70:VAL:O	2.43	0.51
56:BZ:129:SER:O	56:BZ:131:ARG:N	2.42	0.51
39:BE:47:VAL:HG12	39:BE:49:LEU:CD2	2.40	0.51
51:BU:98:LEU:O	51:BU:101:ARG:O	2.28	0.51
10:AJ:45:ARG:HH11	10:AJ:45:ARG:HG3	1.75	0.51
39:DE:4:ILE:HD12	39:DE:31:CYS:SG	2.51	0.51
57:DC:49:ILE:C	57:DC:51:PRO:HD3	2.31	0.51
27:B1:11:ARG:NE	27:B1:61:ARG:H	2.09	0.51
27:B1:76:ARG:HA	27:B1:78:LYS:HZ3	1.75	0.51
27:B1:83:GLU:HG2	27:B1:86:SER:H	1.76	0.51
28:D2:53:LEU:HB2	35:DA:76:C:O3'	2.10	0.51
54:DX:31:HIS:CG	54:DX:32:PRO:HD2	2.46	0.51
54:DX:35:THR:HG23	54:DX:36:LYS:H	1.74	0.51
54:DX:52:VAL:O	54:DX:53:LYS:HB3	2.11	0.51
56:DZ:144:LEU:CD1	56:DZ:149:SER:HA	2.40	0.51
51:DU:90:VAL:HG13	52:DV:39:LEU:CB	2.36	0.51
1:CA:985:C:H2'	1:CA:986:A:H8	1.74	0.51
49:BS:65:VAL:CG1	49:BS:69:VAL:HB	2.41	0.51
4:CD:13:ARG:CG	4:CD:14:ARG:H	2.24	0.51
14:CN:4:LYS:HA	14:CN:7:ILE:CD1	2.40	0.51
35:BA:1245:G:H3'	46:BP:16:ARG:NH2	2.22	0.51
39:BE:142:GLY:C	39:BE:143:ASN:HD22	2.14	0.51
27:D1:10:LYS:O	27:D1:13:ILE:CG2	2.53	0.51
1:AA:1478:C:H2'	1:AA:1479:C:H6	1.72	0.51
35:BA:2713:A:C2'	35:BA:2714:G:H5'	2.41	0.51
48:BR:17:ARG:CG	48:BR:17:ARG:HH11	2.17	0.51
49:DS:99:LYS:O	49:DS:100:ALA:C	2.49	0.51
27:D1:25:LYS:CG	27:D1:37:ILE:HG21	2.32	0.51
47:BQ:110:THR:OG1	47:BQ:113:GLN:HG3	2.10	0.51
47:BQ:119:ARG:HH11	47:BQ:119:ARG:HG3	1.76	0.51
6:CF:61:LEU:O	6:CF:62:TRP:CB	2.59	0.51
6:CF:66:GLU:O	6:CF:67:MET:HB3	2.11	0.51
15:CO:78:TYR:C	15:CO:80:ALA:N	2.64	0.51
2:CB:58:ILE:O	2:CB:61:LEU:HB3	2.11	0.51
52:DV:72:VAL:HG13	52:DV:88:ARG:HH22	1.75	0.51
1:AA:406:G:C2	1:AA:407:G:C8	2.99	0.51
4:AD:25:ARG:C	4:AD:27:TYR:H	2.13	0.51
19:AS:16:LEU:N	19:AS:16:LEU:CD1	2.74	0.51
35:DA:104:U:H6	35:DA:104:U:O5'	1.94	0.51
35:DA:911:A:C4	47:DQ:9:TYR:OH	2.61	0.51
35:DA:871:U:H4'	47:DQ:69:PHE:CE2	2.46	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
18:AR:44:LEU:O	18:AR:45:SER:CB	2.59	0.51
35:DA:1131:G:H1'	35:DA:1132:A:H8	1.75	0.51
25:CY:25:LEU:O	25:CY:179:LYS:HE2	2.11	0.51
1:AA:1325:C:H4'	21:AU:17:THR:HG21	1.93	0.51
35:BA:2128:C:H5'	35:BA:2173:A:C2	2.45	0.51
25:AY:137:LEU:O	25:AY:140:LEU:HB3	2.11	0.51
11:AK:20:TYR:C	11:AK:21:ILE:HD12	2.31	0.51
35:BA:1378:A:C4'	35:BA:1379:A:OP1	2.55	0.51
35:DA:598:G:C5'	46:DP:15:ARG:HD2	2.37	0.51
1:AA:185:A:H61	1:AA:192:U:H3	1.58	0.51
12:AL:117:ARG:O	12:AL:119:LYS:O	2.29	0.51
8:AH:40:ALA:HB2	8:AH:45:ILE:CD1	2.41	0.51
9:AI:82:ALA:O	9:AI:96:LEU:HD21	2.11	0.51
8:CH:10:LEU:H	8:CH:10:LEU:CD2	2.18	0.51
5:AE:146:ALA:C	5:AE:148:VAL:N	2.64	0.51
35:DA:272(C):G:O2'	35:DA:272(D):G:H5'	2.10	0.51
46:DP:79:ARG:O	46:DP:111:ARG:HB2	2.10	0.51
42:DH:12:PRO:N	42:DH:15:VAL:HG21	2.26	0.51
31:D5:16:ARG:CG	31:D5:16:ARG:NH1	2.74	0.51
35:DA:2012:G:O3'	53:DW:96:ILE:HD11	2.10	0.51
1:CA:378:G:P	16:CP:3:LYS:HZ1	2.33	0.51
35:BA:1612:C:C2'	35:BA:1613:G:O5'	2.59	0.51
29:D3:4:LEU:HD12	29:D3:39:ASP:OD1	2.10	0.51
1:CA:309:G:O2'	1:CA:310:G:H5'	2.10	0.51
1:CA:309:G:H2'	1:CA:310:G:H8	1.76	0.51
14:CN:8:GLU:C	14:CN:12:ARG:HD3	2.31	0.51
47:DQ:81:VAL:CG2	47:DQ:82:ARG:HG2	2.41	0.51
35:BA:17:G:O2'	51:BU:25:TRP:HZ3	1.93	0.51
1:CA:199:G:H2'	1:CA:200:G:C8	2.46	0.51
3:CC:106:VAL:HG12	3:CC:108:ASN:H	1.75	0.51
16:AP:82:GLN:NE2	16:AP:82:GLN:N	2.44	0.51
8:CH:107:LEU:HD23	8:CH:107:LEU:C	2.31	0.51
1:CA:1277:C:O2'	1:CA:1278:U:H5'	2.10	0.51
35:BA:460:A:C6	35:BA:470:A:C8	2.98	0.51
35:DA:1686:C:H42	35:DA:1702:G:H1	1.59	0.51
25:AY:73:GLN:O	25:AY:77:LYS:HG2	2.10	0.51
15:AO:17:ARG:NH1	15:AO:77:ARG:NH1	2.58	0.51
35:DA:863:A:H4'	36:DB:101:G:N2	2.25	0.51
35:BA:876:C:H2'	35:BA:877:U:C6	2.46	0.51
35:BA:154(A):C:C5	35:BA:171:G:N1	2.78	0.51
27:B1:20:ARG:CD	27:B1:20:ARG:N	2.71	0.51
43:BI:48:GLU:O	43:BI:51:ILE:HB	2.10	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:70:G:H2'	1:AA:71:C:C6	2.45	0.51
4:AD:192:GLU:OE2	4:AD:192:GLU:N	2.44	0.51
1:AA:1046:A:H3'	1:AA:1047:G:C8	2.44	0.51
41:BG:13:GLU:O	41:BG:14:GLU:HB3	2.10	0.51
38:DD:125:ILE:H	38:DD:125:ILE:HD12	1.76	0.51
35:BA:305:U:O2'	35:BA:306:U:H5'	2.11	0.51
24:CX:19:U:C2'	24:CX:19:U:O2	2.59	0.51
1:CA:859:A:O2'	1:CA:860:A:H5'	2.10	0.51
35:DA:1766:U:O2'	35:DA:1767:C:H5'	2.11	0.51
5:AE:26:PHE:O	5:AE:27:ARG:HB2	2.11	0.51
57:DC:214:VAL:C	57:DC:216:THR:N	2.63	0.51
55:DY:83:THR:HG22	55:DY:84:ARG:H	1.76	0.51
1:AA:1261:A:H62	1:AA:1274:G:N2	2.09	0.51
35:BA:785:G:H2'	35:BA:786:C:H6	1.75	0.51
1:CA:914:A:O2'	1:CA:915:A:H5'	2.11	0.51
35:DA:2712(A):A:OP2	35:DA:2714:G:OP2	2.28	0.51
35:DA:2850:A:H5'	35:DA:2868:A:H2	1.75	0.51
43:BI:91:SER:H	43:BI:121:LYS:HE3	1.75	0.51
38:BD:35:LYS:HG2	38:BD:64:ILE:HG22	1.92	0.51
38:BD:65:ILE:C	38:BD:65:ILE:CD1	2.77	0.51
41:DG:142:PRO:C	41:DG:144:ILE:H	2.14	0.51
35:BA:2393:A:O2'	35:BA:2394:C:H5'	2.10	0.51
45:BO:76:ALA:HB3	50:BT:75:ILE:HD13	1.92	0.51
56:BZ:52:SER:HB3	56:BZ:54:HIS:CD2	2.45	0.51
35:BA:2892:A:C4	35:BA:2893:G:H1'	2.46	0.51
39:BE:5:LEU:CD2	39:BE:197:ILE:HG22	2.41	0.51
35:BA:2039:C:C2	35:BA:2040:C:C5	2.99	0.51
52:BV:32:THR:CG2	52:BV:33:VAL:N	2.73	0.51
42:DH:88:LEU:O	42:DH:89:ILE:CG2	2.59	0.51
35:BA:61:G:C2'	35:BA:62:C:H5'	2.41	0.51
2:AB:234:PRO:O	2:AB:236:TYR:N	2.44	0.51
41:BG:16:ARG:NH1	41:BG:16:ARG:HG3	2.26	0.51
41:BG:57:ALA:HB2	41:BG:90:LEU:CD2	2.40	0.51
28:D2:12:GLU:O	28:D2:12:GLU:CD	2.49	0.51
54:DX:33:LYS:O	54:DX:35:THR:N	2.44	0.51
54:DX:55:ASN:HB2	54:DX:77:LYS:CD	2.41	0.51
42:BH:97:ARG:O	42:BH:125:VAL:HG21	2.11	0.51
56:DZ:27:VAL:CG1	56:DZ:85:HIS:HE2	2.23	0.51
40:BF:155:LEU:CD1	40:BF:174:VAL:HB	2.40	0.51
27:D1:87:PRO:C	27:D1:89:GLU:OE2	2.50	0.51
27:D1:87:PRO:C	27:D1:90:ILE:HG12	2.30	0.51
44:DN:62:VAL:CG2	44:DN:66:LYS:HB2	2.41	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:DN:70:LYS:HB3	44:DN:87:LEU:HB2	1.91	0.51
3:CC:8:ILE:O	3:CC:10:PHE:N	2.44	0.51
35:BA:1259:G:H2'	35:BA:1260:G:H8	1.75	0.51
35:BA:2431:U:H2'	35:BA:2433:A:OP2	2.10	0.51
35:BA:563:G:C6	35:BA:564:C:N4	2.79	0.51
35:BA:587:C:H3'	46:BP:33:ARG:NH1	2.20	0.51
47:BQ:74:TYR:HB3	47:BQ:91:GLU:CD	2.32	0.51
35:DA:2821:A:P	48:DR:2:ARG:NH2	2.63	0.51
39:DE:110:GLY:O	48:DR:2:ARG:NH2	2.44	0.51
1:AA:328:C:O2'	1:AA:329:A:OP2	2.28	0.51
50:BT:108:ARG:O	50:BT:112:ARG:HG3	2.09	0.51
2:AB:70:PHE:O	2:AB:92:TYR:HA	2.11	0.51
35:DA:201:C:C2'	35:DA:202:U:H5'	2.39	0.51
44:BN:26:LEU:CD1	44:BN:30:ILE:HD11	2.41	0.51
15:CO:87:ILE:HG22	15:CO:88:ARG:N	2.26	0.51
18:CR:29:PHE:HD1	18:CR:39:VAL:HG11	1.76	0.51
18:CR:44:LEU:O	18:CR:45:SER:CB	2.58	0.51
35:DA:587:C:O2'	35:DA:588:U:OP2	2.24	0.51
35:DA:675:A:C8	35:DA:804:A:C6	2.98	0.51
35:DA:1202:C:C2'	35:DA:1203:G:H5'	2.41	0.51
4:AD:119:GLN:HB3	4:AD:120:LEU:HD12	1.91	0.51
18:AR:65:ILE:HD12	18:AR:66:LEU:H	1.75	0.51
2:AB:111:ARG:O	2:AB:115:LEU:N	2.44	0.51
25:CY:116:ARG:O	25:CY:117:ALA:C	2.49	0.51
35:DA:2699:C:O2'	35:DA:2700:C:H5'	2.11	0.51
1:CA:939:G:H5''	7:CG:102:ARG:NH1	2.25	0.51
25:AY:143:LEU:HD23	25:AY:143:LEU:C	2.31	0.51
11:AK:21:ILE:HD13	11:AK:84:VAL:CG1	2.38	0.51
43:BI:94:ALA:HA	43:BI:97:ILE:CB	2.41	0.51
1:CA:603:U:H2'	1:CA:604:G:H8	1.76	0.51
8:CH:119:LEU:HD12	8:CH:123:GLU:C	2.31	0.51
13:AM:91:ARG:NH1	19:AS:81:ARG:HH22	1.90	0.51
8:AH:114:THR:HG22	8:AH:117:GLY:O	2.11	0.51
2:CB:115:LEU:HD21	2:CB:153:ARG:HE	1.76	0.51
5:AE:129:ILE:O	5:AE:130:ASN:C	2.49	0.51
35:DA:2889:C:H2'	35:DA:2889:C:O2	2.09	0.51
1:CA:1166:G:H2'	1:CA:1169:A:OP2	2.11	0.51
33:D7:29:LYS:NZ	33:D7:32:LYS:NZ	2.59	0.51
46:DP:106:LEU:C	46:DP:107:LYS:HG2	2.31	0.51
46:DP:80:TYR:CZ	46:DP:111:ARG:HG2	2.45	0.51
1:CA:626:U:H5''	16:CP:38:TYR:CD2	2.46	0.51
35:DA:494:G:O2'	35:DA:495:G:H5'	2.11	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:DD:127:VAL:HA	38:DD:193:VAL:HG13	1.93	0.51
1:CA:705:U:C5	1:CA:706:A:C5	2.98	0.51
35:BA:1268:A:C6	35:BA:2013:A:C8	2.99	0.51
35:BA:1615:C:O2	53:BW:87:PRO:HG2	2.10	0.51
32:B6:47:THR:HG22	32:B6:48:VAL:N	2.25	0.51
35:DA:1485:G:H2'	35:DA:1486:A:C8	2.45	0.51
3:AC:180:ALA:O	3:AC:205:GLY:O	2.28	0.51
29:B3:45:GLY:HA3	35:BA:852:G:H5'	1.93	0.51
5:CE:79:GLU:OE1	5:CE:79:GLU:N	2.39	0.51
35:BA:1914:C:H3'	35:BA:1914:C:O2	2.10	0.51
1:AA:645:C:H2'	1:AA:646:U:H6	1.76	0.51
26:B0:23:VAL:HG12	26:B0:24:LYS:N	2.24	0.51
1:CA:1256:A:N6	1:CA:1278:U:H1'	2.26	0.51
31:B5:25:LEU:HD12	53:BW:23:LEU:CD1	2.41	0.51
35:DA:1707:G:H1'	35:DA:1756:G:N3	2.25	0.51
35:DA:1387:C:H4'	35:DA:1469:A:O4'	2.11	0.51
35:BA:132:G:O2'	35:BA:133:C:H5'	2.11	0.51
1:CA:1264:C:H2'	1:CA:1265:G:C8	2.39	0.51
1:CA:556:C:C2'	1:CA:557:G:H5'	2.41	0.51
26:D0:72:ARG:HB3	26:D0:75:LEU:HB3	1.91	0.51
4:CD:80:GLU:C	4:CD:84:LYS:HZ3	2.14	0.51
15:CO:43:LEU:C	15:CO:45:VAL:H	2.14	0.51
40:DF:62:ARG:NH2	40:DF:64:ILE:HA	2.26	0.51
11:AK:125:PHE:N	11:AK:125:PHE:HD1	2.08	0.51
1:CA:627:G:O2'	1:CA:628:G:H5'	2.10	0.51
43:DI:29:TYR:CE1	43:DI:33:ARG:NE	2.79	0.51
36:DB:15:A:C3'	36:DB:16:G:H5'	2.40	0.51
35:BA:1387:C:H4'	35:BA:1469:A:O4'	2.11	0.51
54:BX:88:LYS:C	54:BX:90:GLU:N	2.63	0.51
3:CC:60:ALA:CB	3:CC:63:ASN:HD21	2.24	0.51
57:DC:214:VAL:O	57:DC:216:THR:N	2.44	0.51
35:BA:950:G:O2'	35:BA:951:C:H5'	2.11	0.51
50:BT:57:PHE:O	50:BT:59:THR:HG22	2.10	0.51
39:DE:73:GLU:OE2	39:DE:73:GLU:N	2.36	0.51
3:CC:186:PHE:HD1	3:CC:198:VAL:O	1.93	0.51
35:BA:2251:G:N3	35:BA:2450:A:H1'	2.25	0.51
43:DI:127:VAL:O	43:DI:127:VAL:HG12	2.11	0.51
53:BW:80:PRO:HD2	53:BW:100:THR:HG21	1.93	0.51
20:AT:90:GLN:C	20:AT:93:GLU:OE2	2.49	0.51
35:DA:483:A:H3'	35:DA:484:C:H6	1.76	0.51
35:DA:2678:C:O2'	35:DA:2679:A:H5'	2.11	0.51
35:DA:2696:U:H2'	35:DA:2697:G:H8	1.74	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
50:DT:109:GLU:CB	50:DT:113:LYS:HE3	2.24	0.51
50:DT:66:VAL:HG13	50:DT:71:GLY:N	2.26	0.51
43:BI:87:LYS:HZ3	43:BI:121:LYS:HG2	1.76	0.51
41:DG:9:ARG:HG2	41:DG:13:GLU:OE1	2.11	0.51
38:BD:21:PHE:O	38:BD:23:GLU:N	2.44	0.51
38:BD:271:ILE:N	38:BD:271:ILE:HD12	2.25	0.51
1:CA:922:G:O2'	1:CA:1398:A:N1	2.42	0.51
41:DG:101:ILE:HG23	41:DG:102:PHE:N	2.26	0.51
41:DG:45:GLU:C	41:DG:47:LYS:N	2.64	0.51
35:BA:2415:G:O3'	46:BP:66:GLY:CA	2.49	0.51
35:BA:631:A:C4'	46:BP:65:ARG:HA	2.41	0.51
50:BT:26:ASP:O	50:BT:88:ILE:HB	2.11	0.51
16:AP:18:ARG:O	16:AP:20:VAL:HG12	2.11	0.51
56:BZ:44:PHE:HE1	56:BZ:48:PHE:CG	2.28	0.51
35:DA:1496:A:H8	35:DA:1577:C:HO2'	1.57	0.51
52:BV:38:LEU:O	52:BV:39:LEU:HD22	2.11	0.51
42:DH:84:SER:O	42:DH:85:LYS:CB	2.59	0.51
14:AN:33:VAL:HG12	14:AN:34:TYR:N	2.26	0.51
39:DE:199:ARG:HB3	39:DE:200:GLU:OE2	2.11	0.51
27:B1:47:GLN:NE2	27:B1:64:ALA:HB2	2.25	0.51
2:AB:77:ALA:O	2:AB:80:ILE:HG23	2.11	0.51
41:BG:31:VAL:CG2	41:BG:32:PRO:HD2	2.41	0.51
56:DZ:122:ARG:HG3	56:DZ:123:ASP:OD2	2.11	0.51
56:DZ:48:PHE:CZ	56:DZ:52:SER:HA	2.45	0.51
56:DZ:48:PHE:O	56:DZ:52:SER:N	2.44	0.51
35:DA:534:U:H2'	35:DA:535:C:C6	2.46	0.51
52:DV:22:VAL:HG21	52:DV:96:ILE:HB	1.93	0.51
52:DV:39:LEU:HD11	52:DV:53:GLU:CA	2.41	0.51
52:DV:38:LEU:O	52:DV:53:GLU:O	2.28	0.51
35:DA:2598:A:H5''	38:DD:236:GLY:CA	2.41	0.51
1:CA:428:G:O4'	1:CA:430:A:C8	2.64	0.51
4:CD:64:LEU:HD23	4:CD:203:VAL:HG21	1.93	0.51
43:DI:92:VAL:CG1	43:DI:120:ILE:HD12	2.36	0.51
43:DI:92:VAL:O	43:DI:92:VAL:HG13	2.11	0.51
35:BA:1141:U:H5''	35:BA:1142(A):A:O4'	2.11	0.51
40:BF:125:LEU:HD12	40:BF:196:LEU:CD2	2.41	0.51
35:BA:2579:C:H4'	39:BE:134:ILE:HG13	1.92	0.51
27:D1:11:ARG:HG3	27:D1:61:ARG:O	2.11	0.51
35:BA:1250:G:H3'	35:BA:1251:C:H5'	1.92	0.51
46:BP:40:SER:C	46:BP:41:ARG:HD2	2.32	0.51
51:BU:47:TYR:HA	51:BU:50:ARG:NH2	2.26	0.51
40:DF:7:TYR:HB3	40:DF:16:GLY:C	2.31	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:DF:25:PRO:HG3	40:DF:119:ARG:HA	1.91	0.51
48:DR:55:ALA:CB	48:DR:79:LEU:HD12	2.41	0.51
48:BR:34:ILE:HG22	48:BR:35:THR:N	2.26	0.51
41:DG:27:ASN:O	41:DG:30:GLU:HG2	2.11	0.51
49:DS:92:TYR:HB3	49:DS:97:ARG:HH11	1.75	0.51
2:CB:12:GLU:C	2:CB:14:GLY:N	2.61	0.51
35:DA:203:C:H2'	35:DA:204:A:C8	2.46	0.51
6:CF:7:ASN:C	6:CF:8:ILE:HG13	2.31	0.51
18:CR:40:LEU:O	18:CR:42:ARG:N	2.44	0.51
18:CR:74:ARG:HH11	18:CR:74:ARG:HG3	1.76	0.51
35:DA:1186:G:C2'	35:DA:1187:G:H5'	2.40	0.51
4:AD:110:PHE:N	4:AD:110:PHE:HD1	2.09	0.51
4:AD:121:VAL:HA	4:AD:126:ILE:HD12	1.91	0.51
19:AS:72:GLY:C	19:AS:74:PHE:H	2.14	0.51
43:DI:71:ILE:HG13	43:DI:72:LEU:HD22	1.92	0.51
1:CA:1404:C:H2'	1:CA:1405:G:H8	1.73	0.51
1:CA:777:A:H2'	1:CA:778:G:C8	2.45	0.51
35:DA:2018:G:C6	35:DA:2019:A:C5	2.99	0.51
35:DA:570:G:H2'	35:DA:2030:A:C5	2.46	0.51
35:DA:2735:G:H2'	35:DA:2736:G:H8	1.76	0.51
25:CY:124:GLU:O	25:CY:125:GLY:C	2.50	0.51
25:CY:12:SER:O	25:CY:13:HIS:C	2.49	0.51
25:CY:30:THR:OG1	25:CY:34:ASN:HB2	2.10	0.51
25:AY:61:PRO:HG3	25:AY:67:VAL:HG13	1.92	0.51
7:CG:105:VAL:HG12	7:CG:109:ASN:HD21	1.73	0.51
1:CA:693:G:H2'	1:CA:694:A:O4'	2.11	0.51
25:AY:144:ALA:C	25:AY:147:LEU:O	2.49	0.51
35:DA:848:G:C2	35:DA:933:A:H1'	2.46	0.51
43:BI:111:PRO:HA	43:BI:114:LEU:HD11	1.93	0.51
55:BY:28:LYS:NZ	55:BY:37:VAL:HG12	2.24	0.51
35:BA:926:A:H2'	35:BA:927:G:C8	2.43	0.51
35:DA:256:A:H2'	35:DA:257:A:C8	2.46	0.51
40:DF:34:TRP:O	40:DF:37:VAL:N	2.43	0.51
3:CC:172:ARG:HH11	3:CC:172:ARG:HB3	1.76	0.51
42:BH:19:VAL:CG2	42:BH:44:VAL:HA	2.33	0.51
46:DP:85:LEU:HD23	46:DP:85:LEU:N	2.12	0.51
8:CH:40:ALA:HB2	8:CH:45:ILE:HD11	1.92	0.51
8:CH:28:ALA:CB	8:CH:57:PRO:O	2.59	0.51
35:DA:2175:C:C3'	35:DA:2176:A:H5''	2.41	0.51
35:BA:272(C):G:O2'	35:BA:272(D):G:H5'	2.11	0.51
5:CE:146:ALA:O	5:CE:148:VAL:N	2.44	0.51
54:BX:25:LYS:HZ1	54:BX:87:GLN:H	1.56	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1298:C:H3'	35:DA:1299:G:H8	1.76	0.51
35:DA:1688:U:H2'	35:DA:1688:U:O2	2.11	0.51
45:DO:40:VAL:HA	45:DO:58:VAL:O	2.11	0.51
35:BA:1947:C:O2'	35:BA:1948:G:H5'	2.10	0.51
13:CM:48:LEU:HD11	13:CM:53:VAL:HG22	1.93	0.51
35:BA:862:G:H2'	35:BA:863:A:O4'	2.11	0.51
1:AA:666:G:H2'	1:AA:667:G:H8	1.76	0.51
1:AA:740:U:O2'	1:AA:741:G:H5'	2.11	0.51
53:BW:17:VAL:O	53:BW:20:VAL:HG23	2.10	0.51
35:BA:1643:G:H2'	35:BA:1644:C:C6	2.46	0.51
53:BW:51:LEU:O	53:BW:51:LEU:HD22	2.11	0.51
1:AA:355:C:C2	1:AA:356:A:C8	2.99	0.51
35:BA:1532:C:O2	35:BA:1532:C:H2'	2.10	0.51
11:CK:123:LYS:O	11:CK:124:LYS:C	2.50	0.51
29:B3:3:ARG:HG2	29:B3:38:GLU:OE2	2.11	0.51
25:CY:55:ILE:CD1	25:CY:55:ILE:N	2.74	0.51
37:BC:86:ALA:O	37:BC:94:VAL:HG21	2.10	0.51
3:CC:35:GLU:HA	3:CC:38:ARG:HG2	1.93	0.51
35:DA:271(L):U:H4'	35:DA:271(M):G:N7	2.26	0.51
35:BA:179:G:O2'	35:BA:180:G:H5'	2.11	0.51
1:AA:751:U:C2'	1:AA:752:G:H5'	2.40	0.51
35:DA:2870:C:H2'	35:DA:2871:C:H5'	1.93	0.51
5:AE:93:PRO:HA	5:AE:118:ILE:HD12	1.92	0.51
35:DA:2090:G:H2'	35:DA:2091:U:O4'	2.10	0.51
1:AA:1332:A:H2'	1:AA:1333:A:C8	2.45	0.51
37:BC:40:THR:HG21	37:BC:215:THR:CB	2.40	0.51
1:CA:594:G:O2'	1:CA:595:G:H5'	2.11	0.51
3:AC:18:TRP:HE3	3:AC:18:TRP:H	1.54	0.51
45:DO:105:GLU:HA	45:DO:108:GLU:HG3	1.93	0.51
50:DT:120:ARG:HA	50:DT:123:GLN:HG2	1.92	0.51
50:DT:81:PRO:C	50:DT:82:LEU:HD12	2.31	0.51
35:BA:1800:C:OP1	38:BD:264:LYS:NZ	2.44	0.51
38:BD:25:THR:HG23	38:BD:27:THR:HB	1.93	0.51
38:BD:43:ARG:CB	38:BD:54:ARG:HB2	2.40	0.51
1:CA:18:C:C5'	5:CE:127:ASN:HD21	2.24	0.51
35:DA:1827:C:OP2	38:DD:222:ARG:NH1	2.44	0.51
38:DD:21:PHE:O	38:DD:23:GLU:N	2.43	0.51
35:DA:2303:G:H2'	35:DA:2304:G:O4'	2.11	0.51
35:DA:2313:C:H5'	35:DA:2313:C:C6	2.46	0.51
41:DG:104:GLU:C	41:DG:106:LEU:N	2.64	0.51
41:DG:44:GLY:O	41:DG:46:ALA:N	2.44	0.51
32:B6:30:THR:O	32:B6:31:PRO:C	2.49	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
45:BO:77:ILE:HD13	50:BT:74:ARG:HG3	1.92	0.51
56:BZ:54:HIS:HB3	56:BZ:101:PRO:HD3	1.93	0.51
35:BA:2811:G:H8	35:BA:2811:G:H5'	1.76	0.51
51:BU:55:ARG:HA	51:BU:58:ARG:CG	2.40	0.51
52:BV:61:VAL:CG2	52:BV:99:ILE:HB	2.39	0.51
35:DA:1863:G:H1	35:DA:1879:C:N4	2.09	0.51
27:B1:10:LYS:HB2	27:B1:13:ILE:C	2.31	0.51
35:BA:394:A:H2'	35:BA:395:U:H5'	1.91	0.51
34:B8:62:LEU:N	34:B8:63:PRO:HD2	2.26	0.51
42:BH:98:LEU:HD12	42:BH:102:ALA:O	2.11	0.51
42:BH:125:VAL:HG12	42:BH:125:VAL:O	2.11	0.51
35:DA:558:G:OP1	44:DN:111:PRO:HD2	2.10	0.51
35:BA:1495:A:H2'	35:BA:1495:A:N3	2.26	0.51
35:DA:1885:A:H3'	35:DA:1886:C:H6	1.74	0.51
35:DA:2481:G:HO2'	35:DA:2482:G:P	2.33	0.51
19:CS:6:LYS:CD	19:CS:6:LYS:H	2.22	0.51
19:CS:9:VAL:O	19:CS:11:VAL:N	2.44	0.51
32:D6:12:GLU:HB2	32:D6:23:THR:HG22	1.92	0.51
43:DI:83:ALA:HA	43:DI:89:TYR:CD1	2.46	0.51
40:BF:117:ARG:CZ	46:BP:5:ASP:N	2.74	0.51
46:BP:21:ARG:HG2	46:BP:21:ARG:O	2.11	0.51
35:DA:631:A:H4'	46:DP:65:ARG:HA	1.93	0.51
35:BA:2241:A:H2'	35:BA:2242:G:H8	1.73	0.51
46:BP:48:PRO:CD	46:BP:49:ARG:H	2.24	0.51
40:DF:114:VAL:O	40:DF:117:ARG:N	2.44	0.51
55:BY:99:CYS:O	55:BY:100:ALA:HB2	2.11	0.51
1:AA:1433:A:N7	1:AA:1468:A:C6	2.78	0.51
1:AA:1479:C:H2'	1:AA:1480:G:O4'	2.10	0.51
36:DB:28:C:O2'	36:DB:29:A:H5'	2.11	0.51
2:CB:234:PRO:O	2:CB:236:TYR:N	2.44	0.51
2:AB:92:TYR:CD2	2:AB:151:GLY:HA3	2.45	0.51
35:DA:2534:A:H2'	35:DA:2535:G:O4'	2.11	0.51
44:DN:27:ALA:O	44:DN:28:THR:C	2.48	0.51
6:CF:30:LEU:HB3	6:CF:35:ALA:HB3	1.92	0.51
18:CR:37:VAL:O	18:CR:38:GLU:C	2.48	0.51
18:CR:66:LEU:HG	18:CR:70:ILE:HD11	1.92	0.51
35:DA:585:G:H2'	35:DA:586:A:N7	2.26	0.51
46:DP:34:GLY:O	46:DP:35:HIS:C	2.49	0.51
1:AA:503:C:O2'	1:AA:504:C:H5'	2.11	0.51
1:AA:542:G:C4	1:AA:543:C:C5	2.99	0.51
47:DQ:9:TYR:C	47:DQ:9:TYR:CD2	2.84	0.51
18:AR:74:ARG:HE	18:AR:81:PHE:CA	2.21	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
47:BQ:59:ARG:HG3	47:BQ:59:ARG:HH11	1.74	0.51
1:CA:819:A:N7	1:CA:1529:G:C6	2.79	0.51
13:CM:82:MET:HB3	13:CM:93:ARG:NH1	2.26	0.51
1:AA:1268:A:H4'	21:AU:20:LYS:N	2.25	0.51
1:AA:376:G:H5''	16:AP:5:ARG:CD	2.41	0.51
20:CT:32:ALA:C	20:CT:36:LEU:HD23	2.31	0.51
1:AA:1216:G:O3'	14:AN:5:ALA:HB1	2.11	0.51
7:AG:92:SER:OG	7:AG:93:PRO:HD2	2.11	0.51
11:AK:62:GLN:C	11:AK:64:ALA:H	2.14	0.51
35:BA:1424:G:OP1	38:BD:33:LEU:HD21	2.11	0.51
1:CA:638:G:O2'	1:CA:639:G:H5'	2.11	0.51
1:CA:640:A:O2'	1:CA:641:U:H5'	2.10	0.51
42:BH:44:VAL:CG1	42:BH:45:VAL:H	2.23	0.51
1:AA:18:C:H4'	1:AA:1078:U:O2	2.11	0.51
1:AA:522:C:N4	1:AA:528:C:N4	2.57	0.51
5:AE:149:GLU:C	5:AE:151:LEU:H	2.12	0.51
5:CE:95:ALA:O	5:CE:96:PRO:C	2.50	0.51
31:D5:11:THR:O	31:D5:12:SER:C	2.49	0.51
46:BP:135:LEU:CD1	46:BP:139:LYS:HD2	2.42	0.51
7:CG:119:ARG:O	7:CG:120:ILE:C	2.50	0.51
35:BA:1771:C:H1'	35:BA:1786:A:C8	2.45	0.51
5:AE:95:ALA:O	5:AE:96:PRO:C	2.50	0.51
17:AQ:92:ARG:O	17:AQ:94:ASN:N	2.44	0.51
38:DD:54:ARG:H	38:DD:218:ARG:HG3	1.76	0.51
35:BA:17:G:H2'	35:BA:18:C:C6	2.45	0.51
17:CQ:15:MET:HG2	17:CQ:16:GLN:H	1.75	0.51
35:BA:679:C:O2	35:BA:680:G:C8	2.64	0.51
20:CT:72:LEU:HB3	20:CT:76:ALA:HB1	1.91	0.51
35:DA:1952:A:C4	45:DO:22:ILE:HD12	2.46	0.51
8:CH:104:ARG:O	8:CH:107:LEU:HB3	2.10	0.51
35:BA:290:G:C2'	35:BA:291:C:H5'	2.41	0.51
13:CM:2:ALA:O	13:CM:9:ILE:HG13	2.11	0.51
1:AA:66:G:N2	1:AA:172:A:H2	2.08	0.51
15:AO:82:ILE:HG12	15:AO:87:ILE:HB	1.92	0.51
35:DA:1465:G:C4'	35:DA:1528:A:H8	2.24	0.51
35:BA:132:G:C8	35:BA:132:G:H5'	2.41	0.51
2:AB:28:PHE:O	2:AB:28:PHE:HD1	1.92	0.51
36:BB:65:C:H2'	36:BB:66:A:H5'	1.92	0.51
38:DD:247:ALA:CA	38:DD:254:THR:HG22	2.39	0.51
27:D1:16:ASN:N	27:D1:16:ASN:ND2	2.51	0.51
1:AA:285:G:O2'	1:AA:286:G:H5'	2.11	0.51
35:BA:2840:C:H2'	35:BA:2841:C:H6	1.76	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2056:G:N2	35:BA:2057:A:C1'	2.74	0.51
53:BW:69:LEU:HA	53:BW:109:GLU:HA	1.93	0.51
35:DA:519:U:H4'	53:DW:25:ARG:HH22	1.75	0.51
35:BA:2886:G:N2	35:BA:2887:U:C2	2.79	0.51
3:AC:91:LEU:HB2	3:AC:99:VAL:HG21	1.93	0.51
35:DA:1181:C:H2'	35:DA:1182:A:C8	2.46	0.51
1:CA:882:C:O2'	1:CA:883:C:H5'	2.10	0.51
35:DA:178:G:O2'	35:DA:179:G:H5'	2.11	0.51
35:BA:1382:G:O2'	35:BA:1383:C:H5'	2.10	0.51
35:BA:823:G:H2'	35:BA:824:A:C8	2.46	0.51
35:BA:2064:C:H1'	35:BA:2450:A:C6	2.46	0.51
40:BF:80:ALA:HB3	40:BF:83:PHE:CD1	2.46	0.51
1:CA:1419:G:N2	1:CA:1482:G:C1'	2.74	0.51
1:AA:1146:A:H2'	1:AA:1147:C:O5'	2.11	0.51
1:AA:1420:C:H3'	1:AA:1420:C:H6	1.76	0.51
35:DA:2758:A:C3'	35:DA:2759:G:H5''	2.41	0.50
35:DA:1678:G:OP2	35:DA:1678:G:C8	2.64	0.50
1:CA:346:G:P	45:DO:107:ARG:HH22	2.33	0.50
50:DT:22:PHE:O	50:DT:23:ARG:HB3	2.11	0.50
9:CI:126:SER:C	9:CI:128:ARG:H	2.14	0.50
38:BD:24:ILE:HD13	38:BD:24:ILE:O	2.11	0.50
35:DA:1828:G:O6	38:DD:222:ARG:HD3	2.10	0.50
38:DD:12:SER:HB2	38:DD:208:LYS:HB3	1.94	0.50
16:CP:20:VAL:HG22	16:CP:21:VAL:N	2.26	0.50
35:BA:2850:A:H5'	35:BA:2868:A:H2	1.76	0.50
45:BO:104:ARG:C	45:BO:106:LEU:N	2.59	0.50
45:BO:104:ARG:HG2	45:BO:105:GLU:OE1	2.12	0.50
39:BE:34:VAL:O	39:BE:35:GLN:HB2	2.11	0.50
35:DA:1578:U:C2'	35:DA:1579:A:H5''	2.41	0.50
35:BA:996:A:O4'	51:BU:92:ARG:NH2	2.44	0.50
52:BV:22:VAL:CG2	52:BV:96:ILE:HB	2.42	0.50
42:DH:85:LYS:O	42:DH:132:ARG:CA	2.58	0.50
9:AI:126:SER:C	9:AI:128:ARG:H	2.14	0.50
34:D8:60:LEU:HD23	34:D8:60:LEU:N	2.26	0.50
28:B2:22:GLU:HB3	54:BX:5:TYR:CD1	2.46	0.50
28:B2:51:ARG:O	28:B2:52:ASP:HB2	2.11	0.50
54:BX:51:VAL:CG1	54:BX:80:ILE:N	2.75	0.50
27:B1:93:GLU:N	27:B1:93:GLU:CD	2.65	0.50
2:AB:81:VAL:HG22	2:AB:215:LEU:HG	1.92	0.50
41:BG:55:LYS:C	41:BG:57:ALA:H	2.14	0.50
54:DX:52:VAL:H	54:DX:80:ILE:CG2	2.23	0.50
54:DX:85:PRO:O	54:DX:86:GLY:C	2.47	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:BH:130:ARG:NH1	42:BH:130:ARG:HB2	2.27	0.50
47:DQ:132:VAL:HG12	47:DQ:133:ARG:N	2.25	0.50
56:DZ:89:PHE:HE1	56:DZ:96:VAL:HG21	1.75	0.50
35:DA:2777:G:H4'	35:DA:2778:A:H5'	1.92	0.50
44:DN:46:VAL:CG1	44:DN:48:MET:HG3	2.40	0.50
51:DU:66:ASN:OD1	51:DU:76:TYR:HB2	2.11	0.50
51:DU:91:ASP:OD2	51:DU:96:ALA:HB2	2.11	0.50
45:DO:119:PRO:HB2	50:DT:68:TYR:HE1	1.72	0.50
4:CD:153:ARG:CB	4:CD:153:ARG:HH11	2.24	0.50
4:CD:14:ARG:C	4:CD:16:GLY:H	2.15	0.50
47:BQ:20:ALA:HB2	47:BQ:99:PRO:CD	2.41	0.50
35:BA:619:G:O5'	35:BA:620:G:N2	2.44	0.50
35:BA:662:G:H2'	35:BA:663:G:H8	1.74	0.50
40:BF:3:GLU:HG3	40:BF:19:GLU:HB2	1.92	0.50
35:DA:1024:G:N2	35:DA:1142(A):A:H2	2.09	0.50
46:BP:48:PRO:O	46:BP:49:ARG:C	2.49	0.50
35:DA:442:G:O4'	40:DF:46:ARG:HG2	2.11	0.50
55:BY:87:LYS:CG	55:BY:88:LYS:N	2.73	0.50
36:DB:56:G:H4'	36:DB:57:A:H8	1.75	0.50
27:D1:23:LYS:O	27:D1:37:ILE:HG12	2.11	0.50
56:BZ:146:ILE:HG13	56:BZ:147:GLY:N	2.26	0.50
1:CA:740:U:O3'	15:CO:39:LEU:HD23	2.11	0.50
6:CF:88:VAL:HG12	6:CF:89:MET:N	2.25	0.50
35:DA:576:U:OP1	35:DA:2503:A:OP1	2.30	0.50
35:DA:587:C:H3'	46:DP:33:ARG:NH1	2.23	0.50
35:DA:669:G:O2'	35:DA:670:A:OP1	2.27	0.50
35:BA:1885:A:H3'	35:BA:1886:C:C6	2.46	0.50
47:DQ:74:TYR:HB3	47:DQ:91:GLU:CD	2.31	0.50
18:AR:30:ASP:C	18:AR:32:ARG:H	2.13	0.50
7:AG:26:PHE:CE1	7:AG:105:VAL:HG22	2.46	0.50
1:CA:552:U:H4'	12:CL:86:ARG:HG2	1.92	0.50
43:BI:6:LEU:O	43:BI:8:PRO:N	2.44	0.50
11:AK:57:THR:O	11:AK:60:ALA:HB3	2.11	0.50
55:BY:37:VAL:CG2	55:BY:38:ILE:N	2.71	0.50
40:DF:99:TYR:CG	40:DF:99:TYR:O	2.64	0.50
46:DP:21:ARG:HG2	46:DP:21:ARG:O	2.09	0.50
11:CK:32:ILE:HD12	11:CK:72:ALA:HB2	1.92	0.50
1:AA:599:C:H2'	1:AA:600:C:C6	2.47	0.50
1:AA:512:U:H2'	1:AA:513:C:H6	1.76	0.50
12:AL:89:ARG:HD3	12:AL:89:ARG:C	2.31	0.50
8:AH:85:ARG:HG3	8:AH:85:ARG:HH11	1.76	0.50
18:AR:59:SER:OG	18:AR:60:ALA:N	2.44	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:AI:47:LEU:N	9:AI:47:LEU:HD12	2.24	0.50
12:AL:54:LYS:O	12:AL:70:ILE:HD13	2.11	0.50
35:DA:1177:A:H3'	35:DA:1177:A:P	2.50	0.50
9:CI:3:GLN:CG	9:CI:20:ARG:HH21	2.24	0.50
33:D7:34:ARG:HE	33:D7:39:ARG:HE	1.58	0.50
38:BD:118:VAL:CG2	38:BD:119:ALA:N	2.73	0.50
31:D5:20:ARG:O	31:D5:23:HIS:CD2	2.65	0.50
38:DD:112:GLN:N	38:DD:112:GLN:OE1	2.44	0.50
11:CK:96:ARG:HA	11:CK:99:GLN:CG	2.40	0.50
1:CA:1409:C:H2'	1:CA:1410:G:C8	2.46	0.50
51:DU:3:ARG:CG	51:DU:3:ARG:NH1	2.69	0.50
35:DA:681:G:H2'	35:DA:682:G:O4'	2.11	0.50
1:CA:390:C:H2'	1:CA:391:G:H8	1.76	0.50
35:DA:2830:G:H5'	39:DE:58:ARG:CZ	2.40	0.50
17:AQ:15:MET:HG2	17:AQ:16:GLN:H	1.76	0.50
1:AA:665:A:C2'	1:AA:725:G:N2	2.73	0.50
15:AO:87:ILE:HG22	15:AO:88:ARG:N	2.26	0.50
35:BA:1390:U:H6	35:BA:1390:U:OP2	1.93	0.50
7:CG:145:ALA:O	7:CG:147:ALA:N	2.36	0.50
1:CA:227:G:H2'	1:CA:228:A:C8	2.46	0.50
1:AA:819:A:N7	1:AA:1529:G:N1	2.58	0.50
44:DN:13:TRP:O	44:DN:135:PRO:HG2	2.11	0.50
35:BA:604:G:H2'	35:BA:605:C:H6	1.75	0.50
43:BI:33:ARG:O	43:BI:35:LEU:HG	2.11	0.50
35:DA:305:U:O2'	35:DA:306:U:H5'	2.10	0.50
35:BA:426:C:C2'	35:BA:427:U:H5'	2.41	0.50
25:AY:78:ALA:HA	25:AY:81:LYS:HG3	1.93	0.50
35:BA:2264:C:H2'	35:BA:2265:U:H6	1.77	0.50
1:CA:1251:A:H2'	1:CA:1252:A:C8	2.46	0.50
50:DT:130:ALA:O	50:DT:131:ALA:C	2.49	0.50
35:DA:1487:G:N2	35:DA:1488:G:H1'	2.25	0.50
1:AA:397:A:H5'	1:AA:398:C:OP1	2.11	0.50
35:BA:1669:A:H5''	35:BA:2550:G:OP1	2.10	0.50
13:AM:87:TYR:N	19:AS:73:GLU:O	2.34	0.50
51:BU:38:THR:O	51:BU:41:ALA:HB3	2.12	0.50
35:DA:1357:U:O2'	35:DA:1358:G:H5'	2.11	0.50
2:CB:221:LEU:HD13	2:CB:221:LEU:O	2.10	0.50
34:B8:5:LYS:N	34:B8:5:LYS:HD2	2.27	0.50
35:DA:1676:A:H2'	35:DA:1677:A:O4'	2.12	0.50
50:DT:23:ARG:HB2	50:DT:24:PRO:HD2	1.93	0.50
39:DE:12:THR:HG23	50:DT:8:LYS:HE2	1.92	0.50
1:CA:979:C:OP1	1:CA:1223:C:N4	2.44	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:CC:24:ALA:HB1	3:CC:28:GLN:O	2.10	0.50
35:BA:1825:A:H2'	35:BA:1826:G:C8	2.47	0.50
38:BD:211:ARG:HG2	38:BD:211:ARG:HH11	1.75	0.50
1:CA:1077:G:N2	1:CA:1079:G:H3'	2.26	0.50
5:CE:33:VAL:CG2	5:CE:43:LEU:HD13	2.38	0.50
35:DA:1804:C:O2'	35:DA:1805:U:H5'	2.11	0.50
38:DD:245:PRO:O	38:DD:246:PRO:C	2.48	0.50
41:DG:120:LEU:H	41:DG:179:PRO:HG2	1.75	0.50
45:BO:80:ASP:HB2	50:BT:71:GLY:O	2.10	0.50
56:BZ:137:ILE:HD11	56:BZ:156:LYS:O	2.11	0.50
39:DE:117:MET:SD	39:DE:136:ARG:NH1	2.85	0.50
39:BE:32:PRO:O	39:BE:34:VAL:HG13	2.11	0.50
35:DA:1576:U:H2'	35:DA:1577:C:H6	1.76	0.50
51:BU:68:ALA:O	51:BU:71:GLN:N	2.44	0.50
42:DH:85:LYS:HZ1	42:DH:144:VAL:C	2.13	0.50
35:DA:2810:A:O2'	39:DE:61:ARG:NE	2.43	0.50
27:B1:18:ILE:CG2	27:B1:42:GLN:O	2.58	0.50
55:DY:98:VAL:O	55:DY:99:CYS:SG	2.68	0.50
42:BH:89:ILE:CG1	42:BH:90:LYS:N	2.74	0.50
44:DN:42:TRP:CD2	44:DN:44:PRO:HD3	2.45	0.50
19:CS:72:GLY:C	19:CS:74:PHE:H	2.15	0.50
49:BS:92:TYR:CD2	49:BS:97:ARG:NH1	2.79	0.50
27:D1:68:PRO:O	27:D1:70:VAL:HG23	2.12	0.50
46:BP:39:LYS:C	46:BP:41:ARG:N	2.65	0.50
40:DF:184:TYR:HD2	40:DF:185:ASP:N	2.09	0.50
48:DR:116:LEU:O	48:DR:117:VAL:CB	2.58	0.50
20:AT:24:LEU:O	20:AT:27:LYS:HB3	2.11	0.50
48:BR:21:TYR:OH	48:BR:43:GLU:HG2	2.11	0.50
48:BR:73:VAL:HG23	48:BR:74:LYS:HD2	1.93	0.50
36:DB:28:C:N4	36:DB:56:G:H1	2.10	0.50
43:BI:72:LEU:O	43:BI:138:ILE:HG12	2.10	0.50
2:CB:92:TYR:CD2	2:CB:151:GLY:HA3	2.46	0.50
19:AS:12:ASP:CB	19:AS:15:LEU:HD23	2.41	0.50
1:AA:540:G:C2	1:AA:541:G:C4	2.99	0.50
47:DQ:88:GLY:C	47:DQ:90:VAL:H	2.12	0.50
6:AF:21:LEU:C	6:AF:25:ILE:HG12	2.31	0.50
3:AC:171:GLY:O	3:AC:172:ARG:O	2.29	0.50
16:AP:58:TYR:O	16:AP:61:SER:OG	2.22	0.50
13:CM:91:ARG:HD3	19:CS:81:ARG:NH2	2.26	0.50
11:CK:28:THR:CG2	11:CK:29:ILE:N	2.73	0.50
43:BI:109:ILE:O	43:BI:109:ILE:HD12	2.10	0.50
26:B0:41:ARG:HH21	35:BA:2387:U:H1'	1.76	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
7:AG:86:GLN:HG2	23:AW:33:C:C4'	2.41	0.50
1:AA:957:U:H1'	1:AA:960:U:C4	2.45	0.50
3:CC:172:ARG:HB3	3:CC:174:PRO:HD3	1.94	0.50
42:BH:17:VAL:HB	42:BH:45:VAL:HG22	1.92	0.50
1:AA:1505:G:H4'	1:AA:1506:U:C5'	2.34	0.50
1:AA:1501:C:OP1	1:AA:1508:G:H4'	2.12	0.50
12:AL:89:ARG:HH11	12:AL:89:ARG:CB	2.24	0.50
9:AI:4:TYR:CE1	9:AI:21:PRO:HD3	2.47	0.50
31:D5:30:LEU:HD23	31:D5:41:PRO:CA	2.41	0.50
46:DP:96:THR:HB	46:DP:97:PRO:CD	2.41	0.50
46:BP:106:LEU:C	46:BP:107:LYS:HG2	2.32	0.50
15:AO:10:LYS:HG3	15:AO:11:VAL:N	2.26	0.50
35:BA:1269:A:H2'	35:BA:1270:C:C6	2.46	0.50
53:BW:10:VAL:HB	53:BW:101:SER:O	2.11	0.50
38:DD:117:VAL:CG2	38:DD:118:VAL:N	2.74	0.50
32:B6:20:ASN:ND2	32:B6:21:TYR:N	2.51	0.50
38:BD:113:VAL:O	38:BD:115:GLN:N	2.32	0.50
35:BA:1707:G:H2'	35:BA:1708:C:H6	1.76	0.50
13:AM:49:THR:HB	13:AM:52:GLU:CG	2.37	0.50
13:AM:69:GLU:HA	13:AM:70:LEU:N	2.25	0.50
1:AA:1277:C:O2'	1:AA:1278:U:H5'	2.12	0.50
1:AA:277:C:P	17:AQ:41:LYS:HZ1	2.33	0.50
17:CQ:86:GLU:HA	17:CQ:89:LEU:HB3	1.93	0.50
23:CW:9:G:H3'	23:CW:10:G:C8	2.47	0.50
35:DA:2545:G:N2	35:DA:2546:U:H1'	2.26	0.50
35:DA:184:C:O2'	35:DA:185:U:H5'	2.10	0.50
23:CW:55:5MU:H73	23:CW:56:U:O4	2.11	0.50
38:BD:167:GLY:O	38:BD:168:ARG:HG2	2.12	0.50
2:CB:157:ARG:CG	2:CB:158:LEU:H	2.24	0.50
3:CC:56:ASP:O	3:CC:57:ILE:HG13	2.10	0.50
40:BF:22:ALA:HA	40:BF:26:ALA:HB2	1.92	0.50
35:DA:38:A:H2'	35:DA:39:C:C6	2.46	0.50
1:CA:622:A:C8	1:CA:623:C:C6	3.00	0.50
11:CK:48:ILE:N	11:CK:48:ILE:HD13	2.26	0.50
35:BA:948:G:H2'	35:BA:949:C:H6	1.75	0.50
2:CB:118:LEU:HD11	2:CB:141:GLU:OE1	2.10	0.50
1:AA:838:G:O2'	1:AA:839:U:H5''	2.11	0.50
28:B2:38:GLN:O	28:B2:39:ALA:C	2.49	0.50
35:DA:1910:G:C6	35:DA:1921:G:C6	2.98	0.50
17:CQ:80:GLY:O	17:CQ:81:ARG:HG2	2.11	0.50
15:AO:4:THR:OG1	15:AO:7:GLU:HB2	2.12	0.50
12:CL:20:LYS:H	12:CL:20:LYS:HD3	1.76	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:AY:184:LEU:C	25:AY:184:LEU:HD23	2.31	0.50
56:DZ:137:ILE:CD1	56:DZ:157:LEU:HD23	2.41	0.50
35:DA:1991:U:C2'	35:DA:1992:G:C5'	2.90	0.50
35:BA:779:U:H2'	35:BA:780:G:H8	1.76	0.50
38:DD:223:GLY:HA2	38:DD:226:MET:SD	2.52	0.50
38:DD:35:LYS:CG	38:DD:64:ILE:H	2.10	0.50
35:BA:2759:G:H5'	35:BA:2759:G:C8	2.46	0.50
41:DG:114:ILE:CG2	41:DG:115:ARG:H	2.17	0.50
41:DG:46:ALA:HA	41:DG:51:ARG:HD3	1.93	0.50
46:BP:68:GLN:HG3	46:BP:68:GLN:O	2.11	0.50
45:BO:104:ARG:NH2	50:BT:33:LYS:HE3	2.26	0.50
45:BO:68:GLU:OE2	45:BO:68:GLU:N	2.44	0.50
56:BZ:3:TYR:O	56:BZ:58:VAL:N	2.44	0.50
56:BZ:58:VAL:HA	56:BZ:68:PRO:CA	2.41	0.50
47:BQ:141:GLN:HG2	56:BZ:72:ARG:HG2	1.93	0.50
35:DA:1495:A:N3	35:DA:1495:A:H2'	2.26	0.50
42:DH:140:LYS:O	42:DH:144:VAL:HG23	2.11	0.50
14:AN:36:PHE:CD1	14:AN:36:PHE:O	2.64	0.50
28:B2:55:ARG:C	28:B2:57:ILE:H	2.14	0.50
54:BX:31:HIS:ND1	54:BX:32:PRO:HD2	2.26	0.50
39:DE:197:ILE:CG1	39:DE:199:ARG:HH12	2.22	0.50
35:BA:2221:G:H5'	35:BA:2222:G:OP2	2.12	0.50
35:DA:1348:G:H2'	35:DA:1349:A:C5'	2.28	0.50
35:BA:2597:G:H2'	35:BA:2598:A:C8	2.47	0.50
56:DZ:47:VAL:HG12	56:DZ:51:ALA:HB2	1.93	0.50
51:DU:88:ILE:O	51:DU:90:VAL:N	2.44	0.50
51:DU:98:LEU:C	51:DU:100:VAL:H	2.14	0.50
52:DV:18:LEU:CD2	52:DV:19:LYS:H	2.11	0.50
52:DV:98:GLU:N	52:DV:98:GLU:OE1	2.44	0.50
10:AJ:96:ILE:HD13	10:AJ:96:ILE:N	2.26	0.50
47:DQ:57:HIS:C	47:DQ:57:HIS:ND1	2.64	0.50
35:DA:2639:A:C2'	35:DA:2640:G:C5'	2.82	0.50
35:BA:261:G:C1'	35:BA:609:A:H2	2.24	0.50
35:BA:1195:G:H2'	35:BA:1196:C:C6	2.46	0.50
40:DF:185:ASP:HA	40:DF:188:ARG:CB	2.40	0.50
40:DF:125:LEU:HD12	40:DF:196:LEU:CD2	2.41	0.50
48:DR:35:THR:HG23	48:DR:112:ALA:O	2.11	0.50
35:BA:1278:A:C5'	48:BR:36:THR:HG22	2.42	0.50
50:BT:100:TYR:CD1	50:BT:100:TYR:N	2.79	0.50
50:BT:108:ARG:NH1	50:BT:108:ARG:HB3	2.27	0.50
49:DS:66:ALA:HA	49:DS:69:VAL:CG1	2.41	0.50
49:DS:90:GLY:HA2	49:DS:92:TYR:CE2	2.47	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:BN:126:PRO:O	44:BN:127:ASP:CB	2.60	0.50
35:DA:818:G:N2	35:DA:1190:G:C6	2.80	0.50
46:DP:34:GLY:O	46:DP:36:LYS:HG3	2.11	0.50
46:DP:48:PRO:O	46:DP:49:ARG:C	2.49	0.50
52:DV:88:ARG:HG3	52:DV:88:ARG:NH1	2.26	0.50
35:DA:1215:G:H2'	35:DA:1216:G:O4'	2.11	0.50
19:AS:20:LEU:O	19:AS:23:ASN:HB3	2.11	0.50
43:DI:102:SER:HB2	43:DI:109:ILE:CG2	2.40	0.50
35:DA:956:G:H22	35:DA:959:A:H3'	1.75	0.50
18:AR:26:LEU:HD21	18:AR:42:ARG:CZ	2.41	0.50
35:DA:566:U:H2'	35:DA:567:A:C8	2.46	0.50
7:AG:103:TRP:O	7:AG:104:LEU:C	2.49	0.50
25:CY:64:ARG:HA	25:CY:103:ILE:HG13	1.91	0.50
43:BI:2:LYS:O	43:BI:3:VAL:HG13	2.11	0.50
1:CA:989:C:O2'	1:CA:990:C:H5'	2.11	0.50
16:AP:6:LEU:HD23	16:AP:17:TYR:CD2	2.47	0.50
39:BE:132:HIS:O	39:BE:135:HIS:CD2	2.64	0.50
25:AY:63:PRO:HB2	25:AY:64:ARG:NH2	2.27	0.50
1:CA:940:C:H2'	1:CA:941:G:C8	2.47	0.50
11:AK:69:ALA:O	11:AK:70:LYS:C	2.50	0.50
55:BY:2:ARG:N	55:BY:5:MET:CE	2.74	0.50
1:AA:15:G:H4'	5:AE:24:ARG:HH21	1.77	0.50
9:CI:102:LEU:O	9:CI:103:THR:OG1	2.22	0.50
1:AA:1368:G:OP2	9:AI:112:LYS:HE3	2.11	0.50
12:CL:89:ARG:NE	12:CL:91:LYS:HE2	2.27	0.50
35:DA:456:C:N3	54:DX:66:LEU:HD22	2.26	0.50
7:CG:122:HIS:O	7:CG:125:MET:N	2.44	0.50
38:DD:111:LEU:HD13	38:DD:112:GLN:N	2.26	0.50
38:DD:111:LEU:HD22	38:DD:115:GLN:OE1	2.12	0.50
35:BA:614:U:H4'	35:BA:614(C):A:H62	1.76	0.50
1:CA:1486:G:H2'	1:CA:1487:G:C8	2.47	0.50
39:DE:167:VAL:CG2	39:DE:168:MET:H	2.21	0.50
1:AA:255:G:H2'	1:AA:256:U:C6	2.45	0.50
5:AE:121:LYS:HD2	5:AE:122:GLU:H	1.77	0.50
16:AP:28:ARG:HG2	16:AP:28:ARG:NH1	2.24	0.50
16:AP:82:GLN:O	16:AP:84:ALA:N	2.45	0.50
35:DA:2591:C:P	38:DD:239:ARG:HG3	2.51	0.50
3:CC:84:ILE:CA	3:CC:87:LEU:HD12	2.38	0.50
13:AM:74:VAL:O	13:AM:78:ILE:HG13	2.11	0.50
35:BA:447:A:C4	35:BA:473:G:N7	2.80	0.50
4:CD:128:VAL:CG1	4:CD:129:ASN:H	2.14	0.50
17:AQ:40:LYS:HG2	17:AQ:41:LYS:N	2.26	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1682:G:O2'	35:DA:1683:C:H5'	2.11	0.50
35:BA:1714:G:H2'	35:BA:1717:G:H8	1.75	0.50
7:AG:50:ILE:HG13	7:AG:58:PRO:HB3	1.94	0.50
1:AA:740:U:O3'	15:AO:39:LEU:HD23	2.11	0.50
38:BD:176:ARG:HG2	38:BD:176:ARG:NH1	2.26	0.50
43:DI:45:LYS:O	43:DI:48:GLU:HB3	2.12	0.50
6:CF:85:VAL:HG12	6:CF:85:VAL:O	2.11	0.50
52:DV:1:MET:HE1	52:DV:46:VAL:HG23	1.93	0.50
52:BV:1:MET:CE	52:BV:45:THR:H	2.24	0.50
1:AA:167:G:O2'	1:AA:168:G:H5'	2.11	0.50
7:CG:152:ALA:C	7:CG:154:TYR:N	2.65	0.50
12:CL:76:ASN:O	12:CL:77:LEU:HD23	2.10	0.50
39:BE:173:VAL:O	39:BE:174:ASP:C	2.49	0.50
3:CC:127:ARG:NH1	3:CC:127:ARG:HG2	2.23	0.50
15:AO:64:ARG:O	15:AO:65:ARG:C	2.49	0.50
6:AF:43:LEU:N	6:AF:43:LEU:HD12	2.26	0.50
35:DA:939:G:O2'	35:DA:940:G:H5'	2.11	0.50
35:BA:2065:C:H2'	35:BA:2066:C:H6	1.76	0.50
40:BF:7:TYR:HB3	40:BF:16:GLY:O	2.11	0.50
35:DA:2368:C:H2'	35:DA:2369:A:C8	2.43	0.50
37:BC:89:ALA:HA	37:BC:153:ILE:CB	2.40	0.50
35:BA:2025:C:H2'	35:BA:2026:C:C6	2.46	0.50
35:BA:382:G:H1	35:BA:392:C:H42	1.58	0.50
35:BA:501:A:H2'	35:BA:502:A:C8	2.46	0.50
35:DA:1649:G:O2'	35:DA:1650:G:H5'	2.11	0.50
1:AA:189(B):C:H2'	1:AA:189(C):C:C6	2.46	0.50
15:CO:4:THR:OG1	15:CO:7:GLU:HB2	2.12	0.50
35:DA:1990:C:H2'	35:DA:1991:U:O4'	2.12	0.50
39:DE:8:LYS:HE3	39:DE:188:VAL:HG13	1.93	0.50
39:DE:9:VAL:CG1	39:DE:25:VAL:HG12	2.40	0.50
35:DA:2726:U:H6	45:DO:67:LYS:HZ3	1.58	0.50
45:DO:86:ILE:O	45:DO:93:PRO:HA	2.11	0.50
1:CA:972:C:C2'	10:CJ:55:LYS:HD3	2.42	0.50
38:BD:267:SER:O	38:BD:269:PHE:CD1	2.65	0.50
35:DA:1778:U:H5	35:DA:1784:A:N3	2.09	0.50
35:DA:1792:G:OP2	38:DD:206:LEU:HD12	2.11	0.50
38:DD:260:ARG:HG2	38:DD:260:ARG:NH1	2.26	0.50
38:DD:27:THR:O	38:DD:29:PRO:HD2	2.11	0.50
50:BT:53:ARG:NE	50:BT:60:THR:OG1	2.44	0.50
47:BQ:28:ALA:HB3	47:BQ:105:GLU:OE2	2.11	0.50
56:BZ:67:LEU:O	56:BZ:69:THR:N	2.43	0.50
35:BA:2805:G:H22	35:BA:2893:G:H1	1.59	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:BN:42:TRP:CH2	44:BN:44:PRO:HA	2.46	0.50
52:BV:4:ILE:HB	52:BV:40:LEU:HD11	1.93	0.50
52:BV:5:VAL:HB	52:BV:37:VAL:O	2.11	0.50
1:AA:973:G:O4'	10:AJ:55:LYS:HG2	2.11	0.50
39:DE:52:LEU:HB3	39:DE:76:ARG:H	1.76	0.50
57:DC:203:GLY:O	57:DC:204:ALA:HB2	2.12	0.50
54:DX:73:ARG:O	54:DX:73:ARG:HG3	2.11	0.50
42:BH:103:LEU:HD22	42:BH:123:PHE:CE2	2.46	0.50
42:BH:103:LEU:HG	42:BH:105:LEU:CD1	2.42	0.50
42:BH:85:LYS:HB3	42:BH:133:VAL:O	2.12	0.50
42:BH:149:ARG:CB	42:BH:162:ILE:HD11	2.41	0.50
51:DU:98:LEU:O	51:DU:100:VAL:N	2.44	0.50
3:CC:182:ILE:HG23	3:CC:202:ILE:O	2.11	0.50
49:BS:79:ALA:C	49:BS:80:LEU:HD12	2.31	0.50
49:BS:90:GLY:HA2	49:BS:92:TYR:CE2	2.46	0.50
46:DP:70:GLN:CG	46:DP:71:VAL:H	2.24	0.50
44:DN:70:LYS:HG3	44:DN:72:TYR:HE1	1.76	0.50
35:BA:992:C:O3'	52:BV:75:PHE:CE2	2.64	0.50
48:DR:16:HIS:O	48:DR:19:ALA:N	2.45	0.50
48:DR:82:GLU:OE1	48:DR:83:ILE:HD13	2.11	0.50
35:BA:2821:A:P	48:BR:2:ARG:NH2	2.62	0.50
50:BT:114:LEU:N	50:BT:114:LEU:HD23	2.26	0.50
49:DS:92:TYR:HD2	49:DS:97:ARG:CZ	2.25	0.50
2:AB:196:LEU:O	2:AB:196:LEU:HD12	2.11	0.50
2:AB:58:ILE:O	2:AB:61:LEU:HB3	2.11	0.50
6:CF:72:VAL:CG1	6:CF:73:ASN:H	2.21	0.50
6:CF:75:LEU:HD23	6:CF:79:LEU:HD21	1.93	0.50
15:CO:67:LEU:HD22	15:CO:78:TYR:HE1	1.76	0.50
35:DA:990:A:C6	35:DA:1186:G:H1'	2.46	0.50
52:DV:85:LYS:O	52:DV:87:HIS:N	2.41	0.50
1:AA:429:U:C1'	1:AA:430:A:H5''	2.41	0.50
4:AD:101:LEU:HD23	4:AD:121:VAL:CG1	2.40	0.50
4:AD:119:GLN:NE2	4:AD:123:HIS:NE2	2.59	0.50
4:AD:96:LEU:HD13	4:AD:96:LEU:N	2.27	0.50
4:AD:29:PRO:C	4:AD:30:LYS:HG2	2.32	0.50
43:DI:94:ALA:HA	43:DI:97:ILE:CB	2.42	0.50
51:DU:40:PHE:HD2	51:DU:40:PHE:N	2.10	0.50
25:CY:171:LYS:O	25:CY:175:LEU:HB2	2.11	0.50
1:CA:1226:C:OP1	19:CS:81:ARG:NH1	2.45	0.50
12:CL:9:GLN:O	12:CL:10:LEU:C	2.48	0.50
35:BA:1411:C:O2'	35:BA:1412:A:H8	1.93	0.50
35:DA:2247:A:H2'	35:DA:2248:C:H6	1.76	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2280:G:N3	35:DA:2388:A:H2	2.08	0.50
40:DF:132:VAL:HG13	40:DF:133:ASN:N	2.27	0.50
35:BA:2425:A:O4'	35:BA:2427:C:C6	2.65	0.50
55:BY:16:ALA:CA	55:BY:21:LYS:HD2	2.42	0.50
55:BY:28:LYS:HA	55:BY:38:ILE:HG22	1.93	0.50
7:AG:152:ALA:C	7:AG:154:TYR:N	2.65	0.50
23:AW:32:G:N3	23:AW:32:G:H2'	2.26	0.50
1:AA:199:G:H2'	1:AA:200:G:C8	2.45	0.50
12:AL:46:LYS:CG	12:AL:47:LYS:N	2.70	0.50
8:AH:4:ASP:OD2	8:AH:7:ALA:N	2.33	0.50
8:AH:63:LEU:HG	8:AH:65:TYR:OH	2.11	0.50
9:AI:4:TYR:HD1	9:AI:4:TYR:N	2.09	0.50
35:DA:778:G:C5	35:DA:779:U:C4	3.00	0.50
35:BA:1986:A:C2'	35:BA:1987:G:H5''	2.41	0.50
46:BP:124:LYS:HA	46:BP:143:GLY:HA3	1.92	0.50
15:AO:9:GLN:O	15:AO:10:LYS:C	2.50	0.50
35:BA:2119:A:C3'	35:BA:2120:G:H5''	2.42	0.50
1:CA:932:C:H5''	7:CG:3:ARG:CD	2.35	0.50
35:DA:2298:A:H62	35:DA:2318:G:H8	1.57	0.50
7:AG:66:VAL:O	7:AG:69:VAL:N	2.39	0.50
1:CA:678:U:H2'	1:CA:679:C:H6	1.72	0.50
1:AA:251:G:N2	1:AA:253:U:C4	2.80	0.50
35:DA:1006:C:N3	35:DA:1138:G:C2	2.79	0.50
38:BD:130:ALA:CB	38:BD:192:THR:HA	2.42	0.50
35:DA:1613:G:C6	35:DA:1619:G:C6	2.99	0.50
7:AG:50:ILE:HG21	7:AG:61:VAL:HG21	1.93	0.50
1:AA:658:G:O2'	1:AA:659:U:H5'	2.10	0.50
1:CA:279:A:OP2	17:CQ:95:TYR:OH	2.30	0.50
25:AY:118:VAL:C	25:AY:120:GLN:N	2.64	0.50
1:CA:1483:A:H3'	1:CA:1484:C:H6	1.75	0.50
7:CG:27:ILE:HD11	7:CG:43:PHE:CD2	2.46	0.50
30:B4:43:TYR:C	30:B4:45:GLY:H	2.14	0.50
23:AW:8:U:O2'	23:AW:47:G:N2	2.45	0.50
35:BA:1964:G:H3'	35:BA:1965:C:C5'	2.42	0.50
53:BW:66:GLU:HA	53:BW:69:LEU:HD21	1.94	0.50
42:BH:30:LYS:NZ	42:BH:81:GLU:HA	2.27	0.50
35:DA:426:C:C2'	35:DA:427:U:H5'	2.41	0.50
29:B3:23:LEU:O	29:B3:28:LEU:HB2	2.10	0.50
29:B3:28:LEU:HA	29:B3:33:GLN:OE1	2.12	0.50
50:BT:130:ALA:O	50:BT:131:ALA:C	2.49	0.50
35:DA:948:G:H2'	35:DA:949:C:H6	1.77	0.50
1:AA:1251:A:O2'	1:AA:1252:A:H5'	2.12	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:CB:9:GLU:O	2:CB:13:ALA:CB	2.60	0.50
35:DA:1433:U:H3	35:DA:1560:G:H1	1.59	0.50
35:DA:435:C:H2'	35:DA:436:C:H5'	1.94	0.50
57:DC:74:VAL:H	57:DC:91:ALA:HB1	1.77	0.50
35:BA:1563:G:O2'	35:BA:1564:C:H5'	2.12	0.50
1:AA:1029:C:H1'	1:AA:1033:G:N1	2.26	0.50
2:CB:21:ARG:O	2:CB:23:ARG:N	2.44	0.50
35:BA:1848:A:H2'	35:BA:1849:G:H8	1.75	0.50
35:BA:1267:U:H2'	35:BA:1267:U:O2	2.11	0.50
1:AA:90:U:H6	1:AA:90:U:O5'	1.94	0.50
46:DP:138:LEU:CD2	46:DP:142:GLY:HA3	2.41	0.50
45:DO:104:ARG:NH2	50:DT:33:LYS:HE3	2.27	0.50
43:BI:88:ILE:HG13	43:BI:122:GLU:HA	1.94	0.50
38:BD:94:LEU:HD12	38:BD:94:LEU:N	2.14	0.50
35:DA:1819:A:O2'	35:DA:1820:U:OP2	2.24	0.50
47:BQ:141:GLN:HE21	56:BZ:72:ARG:HG2	1.76	0.50
35:DA:2050:C:H2'	35:DA:2051:A:O4'	2.12	0.50
35:DA:2574:G:O2'	39:DE:143:ASN:HB3	2.12	0.50
51:BU:76:TYR:CZ	51:BU:80:ILE:HG13	2.46	0.50
1:AA:1222:G:H5''	19:AS:78:ARG:HH11	1.74	0.50
1:AA:963:G:H2'	1:AA:964:A:H8	1.75	0.50
39:DE:199:ARG:NH1	39:DE:199:ARG:HG3	2.26	0.50
39:DE:31:CYS:HB3	39:DE:49:LEU:HB3	1.94	0.50
28:D2:56:GLN:HE21	28:D2:56:GLN:HA	1.72	0.50
54:DX:57:LEU:O	54:DX:58:HIS:CG	2.64	0.50
42:BH:92:ILE:HG22	42:BH:93:GLY:H	1.76	0.50
56:DZ:141:VAL:HG22	56:DZ:141:VAL:O	2.12	0.50
56:DZ:169:GLU:HG2	56:DZ:170:THR:H	1.76	0.50
52:DV:2:PHE:HB2	52:DV:42:GLY:O	2.12	0.50
14:AN:4:LYS:HA	14:AN:7:ILE:CD1	2.42	0.50
47:DQ:50:ALA:O	47:DQ:54:MET:HB2	2.11	0.50
35:BA:1860:G:H2'	35:BA:1861:G:H8	1.77	0.50
49:BS:17:ARG:NE	49:BS:89:ARG:NH2	2.60	0.50
49:BS:17:ARG:HG3	49:BS:18:ILE:HD13	1.92	0.50
49:BS:26:LEU:HD23	49:BS:28:VAL:HG22	1.92	0.50
49:BS:34:HIS:CE1	49:BS:55:ALA:HB2	2.45	0.50
49:BS:92:TYR:HD2	49:BS:97:ARG:CZ	2.24	0.50
4:CD:173:TRP:O	4:CD:186:LEU:HB2	2.12	0.50
4:CD:56:VAL:C	4:CD:58:LEU:N	2.64	0.50
39:BE:116:VAL:HG22	39:BE:117:MET:H	1.74	0.50
34:D8:29:LYS:HZ3	34:D8:44:LYS:HB2	1.76	0.50
44:DN:72:TYR:N	44:DN:85:ILE:O	2.41	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:DN:87:LEU:O	44:DN:88:GLU:C	2.50	0.50
40:DF:28:ILE:HA	40:DF:112:MET:HG2	1.94	0.50
55:BY:96:ILE:HG13	55:BY:100:ALA:H	1.75	0.50
35:BA:869:G:H1'	47:BQ:8:LYS:HZ3	1.74	0.50
39:BE:113:PHE:CE2	39:BE:158:GLY:HA2	2.47	0.50
44:DN:54:VAL:HB	44:DN:122:VAL:HG22	1.94	0.50
1:CA:658:G:H1'	15:CO:22:THR:CB	2.38	0.50
1:CA:740:U:O2'	1:CA:741:G:H5'	2.10	0.50
2:CB:196:LEU:HD12	2:CB:196:LEU:O	2.11	0.50
46:DP:48:PRO:CD	46:DP:49:ARG:H	2.24	0.50
4:AD:100:ARG:O	4:AD:103:ASN:HB3	2.12	0.50
55:DY:29:GLU:N	55:DY:29:GLU:OE1	2.43	0.50
55:DY:37:VAL:CG2	55:DY:38:ILE:H	2.04	0.50
35:BA:366:C:H5''	35:BA:403:U:H3	1.76	0.50
47:BQ:57:HIS:C	47:BQ:57:HIS:ND1	2.64	0.50
51:DU:7:GLY:O	51:DU:8:VAL:HG22	2.11	0.50
20:CT:29:LYS:O	20:CT:32:ALA:HB3	2.10	0.50
26:B0:32:ARG:N	26:B0:35:ASN:HD22	1.89	0.50
11:AK:30:VAL:CG2	11:AK:68:ALA:HB2	2.42	0.50
35:BA:1430:C:H2'	35:BA:1431:U:H6	1.77	0.50
35:DA:2745:C:H1'	42:DH:143:GLN:HG2	1.93	0.50
35:BA:307:G:H21	35:BA:330:A:H62	1.59	0.50
1:AA:183:G:H1	1:AA:194:C:H42	1.59	0.50
1:AA:865:A:H2'	1:AA:866:C:H6	1.74	0.50
1:CA:380:G:N1	1:CA:384:G:C6	2.79	0.50
9:AI:28:VAL:HA	9:AI:63:ILE:O	2.11	0.50
9:CI:82:ALA:O	9:CI:96:LEU:HD21	2.12	0.50
35:DA:272(B):G:H2'	35:DA:272(C):G:H8	1.77	0.50
33:D7:9:ARG:NH1	35:DA:1310:G:OP2	2.44	0.50
35:BA:2321:G:H2'	35:BA:2321:G:N3	2.26	0.50
46:BP:128:HIS:O	46:BP:129:ALA:HB2	2.11	0.50
23:AW:27:G:H2'	23:AW:28:U:C6	2.46	0.50
38:DD:186:HIS:CD2	38:DD:188:GLU:HG2	2.46	0.50
35:BA:1786:A:C6	35:BA:1938:A:N7	2.79	0.50
38:BD:239:ARG:NH2	38:BD:239:ARG:HG3	2.21	0.50
1:AA:714:G:H2'	1:AA:715:A:C8	2.47	0.50
50:DT:13:ARG:NH1	50:DT:15:VAL:HG12	2.26	0.50
35:DA:1233:C:C2'	35:DA:1234:U:H5'	2.42	0.50
1:CA:1409:C:H4'	35:DA:1915:U:O4	2.11	0.50
35:DA:1299:G:H5''	35:DA:1300:U:OP1	2.11	0.50
17:AQ:48:GLU:O	17:AQ:50:LYS:N	2.44	0.50
1:AA:112:G:C2'	1:AA:113:G:H5'	2.41	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:CE:80:ILE:HD11	5:CE:91:LEU:HB2	1.94	0.50
5:CE:41:VAL:HG13	5:CE:113:ALA:HA	1.94	0.50
26:B0:43:THR:HG23	26:B0:43:THR:O	2.12	0.50
46:DP:59:LEU:CA	46:DP:61:ARG:CZ	2.88	0.50
1:AA:1497:G:C2'	1:AA:1498:U:H5'	2.41	0.50
54:DX:12:VAL:HG13	54:DX:17:ALA:HB1	1.94	0.50
35:DA:1720:U:H2'	35:DA:1721:G:H5'	1.92	0.50
35:BA:2545:G:N3	35:BA:2565:A:H2	2.09	0.50
35:DA:694:U:C2'	35:DA:695:G:O5'	2.59	0.50
35:DA:694:U:H2'	35:DA:695:G:O5'	2.11	0.50
35:BA:2559:C:H2'	35:BA:2559:C:O2	2.12	0.50
1:CA:300:A:H2	1:CA:566:G:O6	1.94	0.50
40:DF:32:LEU:C	40:DF:32:LEU:CD2	2.80	0.50
55:BY:101:LYS:CG	55:BY:102:CYS:N	2.72	0.50
35:BA:215:G:H4'	35:BA:216:A:O5'	2.11	0.50
3:AC:19:GLU:O	3:AC:56:ASP:HA	2.11	0.50
1:CA:1287:A:H2	1:CA:1353:G:N3	2.10	0.50
1:AA:119:A:H4'	1:AA:120:A:O5'	2.12	0.50
1:AA:358:U:H2'	1:AA:359:U:H6	1.76	0.50
1:CA:441:A:C6	1:CA:494:U:C2	2.99	0.50
35:BA:703:U:H2'	35:BA:704:G:C5'	2.41	0.50
52:BV:52:VAL:C	52:BV:54:GLY:N	2.64	0.50
56:DZ:115:GLY:N	56:DZ:177:PRO:HD3	2.26	0.50
2:AB:135:GLN:O	2:AB:139:LYS:HB2	2.12	0.50
6:AF:28:ARG:NH1	6:AF:28:ARG:HG3	2.27	0.50
1:CA:473:G:H2'	1:CA:474:G:C8	2.45	0.50
35:DA:271(H):G:O2'	35:DA:271(I):G:H8	1.94	0.50
1:AA:1132:C:O2'	1:AA:1133:G:H5'	2.11	0.50
1:AA:1517:G:H1'	35:BA:1919:A:O3'	2.12	0.50
1:CA:1333:A:H3'	1:CA:1334:G:H8	1.76	0.50
52:DV:66:ARG:HB2	52:DV:95:LEU:H	1.76	0.50
37:BC:64:LEU:HD12	37:BC:66:HIS:HB2	1.94	0.50
31:D5:7:PRO:HA	35:DA:2615:U:C2	2.47	0.50
35:BA:1956:U:H2'	35:BA:1957:C:H5'	1.93	0.50
35:BA:2441:C:H2'	35:BA:2441:C:O2	2.10	0.50
5:CE:47:LYS:HD3	5:CE:47:LYS:N	2.26	0.50
9:CI:97:LYS:HB3	9:CI:98:PRO:HD3	1.94	0.50
30:D4:17:GLY:O	30:D4:19:GLY:N	2.41	0.50
1:AA:25:C:O2'	1:AA:26:A:H5'	2.11	0.50
19:AS:18:LYS:HA	19:AS:21:GLU:HG2	1.92	0.50
2:AB:17:PHE:C	2:AB:17:PHE:CD2	2.83	0.50
1:CA:963:G:H2'	1:CA:964:A:H8	1.75	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
19:CS:77:THR:OG1	19:CS:78:ARG:HD2	2.12	0.50
38:DD:39:LYS:HB2	38:DD:62:TYR:HB2	1.94	0.50
38:DD:94:LEU:N	38:DD:94:LEU:CD1	2.72	0.50
41:DG:114:ILE:CG1	41:DG:117:PHE:HB2	2.42	0.50
32:B6:12:GLU:HB2	32:B6:23:THR:HG22	1.94	0.50
45:BO:1:MET:CG	45:BO:32:TYR:HD2	2.23	0.50
45:BO:104:ARG:CZ	50:BT:33:LYS:HD2	2.42	0.50
47:BQ:32:TYR:CD1	47:BQ:32:TYR:N	2.80	0.50
56:BZ:166:SER:CB	56:BZ:167:PRO:CA	2.86	0.50
56:BZ:42:VAL:HG13	56:BZ:43:GLU:N	2.26	0.50
39:BE:60:ASN:O	39:BE:61:ARG:C	2.50	0.50
42:DH:97:ARG:O	42:DH:125:VAL:HG21	2.12	0.50
54:BX:37:THR:C	54:BX:39:ILE:H	2.14	0.50
42:BH:85:LYS:HZ1	42:BH:144:VAL:C	2.15	0.50
35:BA:2639:A:H3'	35:BA:2640:G:H5'	1.93	0.50
47:DQ:25:ASP:CB	47:DQ:67:ARG:HH22	2.24	0.50
56:DZ:24:LEU:HD21	56:DZ:86:VAL:HG21	1.93	0.50
35:DA:528:A:C2	35:DA:2043:C:H5'	2.30	0.50
35:DA:528:A:OP2	44:DN:114:ARG:HD2	2.12	0.50
51:DU:78:THR:O	51:DU:80:ILE:N	2.44	0.50
52:DV:8:GLY:C	52:DV:10:LYS:H	2.15	0.50
52:DV:96:ILE:HG23	52:DV:97:LYS:H	1.76	0.50
36:BB:29:A:H2'	36:BB:30:C:C6	2.47	0.50
35:BA:224:G:O2'	35:BA:225:A:H5'	2.11	0.50
40:BF:32:LEU:O	40:BF:33:LEU:C	2.50	0.50
46:BP:19:VAL:HG23	46:BP:19:VAL:O	2.11	0.50
35:BA:577:G:H2'	35:BA:578:A:H8	1.76	0.50
35:BA:587:C:C5	35:BA:671:C:H1'	2.47	0.50
47:BQ:73:PRO:HG3	47:BQ:93:TYR:CD2	2.47	0.50
35:DA:2820:A:H8	39:DE:191:PRO:CB	2.24	0.50
48:DR:9:LYS:HZ1	48:DR:42:LYS:HB3	1.76	0.50
3:AC:182:ILE:HG23	3:AC:202:ILE:O	2.12	0.50
3:AC:52:LEU:CD2	3:AC:52:LEU:H	2.20	0.50
1:AA:324:G:N2	1:AA:326:G:H3'	2.27	0.50
35:BA:1652:A:N6	35:BA:1653:G:N2	2.60	0.50
35:BA:2697:G:C2	35:BA:2711:A:C2	2.99	0.50
48:BR:10:LEU:HB3	48:BR:17:ARG:NE	2.27	0.50
48:BR:26:LYS:NZ	48:BR:71:GLN:HB3	2.27	0.50
49:DS:24:LEU:HD22	49:DS:24:LEU:H	1.77	0.50
2:CB:80:ILE:HG12	2:CB:211:ILE:HG21	1.93	0.50
2:CB:74:LYS:HG3	2:CB:77:ALA:HB3	1.93	0.50
27:D1:32:LYS:O	27:D1:33:LYS:O	2.30	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:DN:34:LEU:HD11	44:DN:116:LEU:O	2.11	0.50
15:CO:67:LEU:HD22	15:CO:78:TYR:CE1	2.47	0.50
35:DA:1186:G:H2'	35:DA:1187:G:C5'	2.41	0.50
4:AD:170:VAL:HG13	4:AD:174:LEU:HB2	1.94	0.50
18:AR:25:THR:HG22	18:AR:25:THR:O	2.11	0.50
7:AG:29:LYS:HG3	7:AG:101:LEU:HB3	1.93	0.50
25:CY:136:ALA:O	25:CY:139:LYS:HB2	2.12	0.50
1:CA:939:G:H2'	1:CA:940:C:H6	1.76	0.50
39:BE:152:LYS:HZ3	44:BN:78:TYR:CB	2.24	0.50
11:AK:32:ILE:HD12	11:AK:72:ALA:HB2	1.94	0.50
35:DA:1590:U:H2'	35:DA:1591:G:C5'	2.30	0.50
7:AG:143:ARG:NH1	7:AG:143:ARG:HB2	2.27	0.50
13:AM:108:ARG:NH2	13:AM:114:ARG:HG2	2.27	0.50
46:DP:16:ARG:HD3	46:DP:18:ARG:N	2.21	0.50
5:AE:41:VAL:O	5:AE:67:VAL:N	2.44	0.50
1:CA:1250:A:H4'	9:CI:68:GLY:O	2.12	0.50
8:CH:4:ASP:OD1	8:CH:6:ILE:HB	2.11	0.50
9:AI:118:LYS:H	9:AI:121:ARG:HB3	1.76	0.50
46:DP:126:VAL:HG22	46:DP:145:PRO:HB3	1.94	0.50
35:BA:1177:A:H3'	35:BA:1177:A:P	2.51	0.50
40:BF:168:ARG:HA	40:BF:175:THR:HG21	1.92	0.50
54:BX:25:LYS:O	54:BX:26:TYR:O	2.29	0.50
1:AA:677:U:H2'	1:AA:678:U:C6	2.46	0.50
1:CA:706:A:C5	1:CA:707:C:C5	2.94	0.50
31:B5:20:ARG:NH1	53:BW:15:ARG:NH2	2.53	0.50
35:DA:2732:G:C3'	35:DA:2733:A:C5'	2.90	0.50
39:BE:201:THR:CG2	39:BE:202:LYS:N	2.75	0.50
2:AB:101:MET:O	2:AB:105:PHE:CA	2.57	0.50
1:AA:1379:G:C4	1:AA:1380:U:H5	2.30	0.50
8:AH:107:LEU:C	8:AH:107:LEU:HD23	2.31	0.50
35:DA:1486:A:N6	35:DA:1504:C:H42	2.08	0.50
4:AD:128:VAL:O	4:AD:130:GLY:N	2.41	0.50
3:CC:180:ALA:O	3:CC:205:GLY:O	2.29	0.50
53:DW:18:ARG:HG2	53:DW:18:ARG:HH11	1.75	0.50
11:AK:96:ARG:HA	11:AK:99:GLN:CG	2.36	0.50
32:D6:32:ASN:CG	32:D6:33:LYS:N	2.64	0.50
35:BA:1948:G:H2'	35:BA:1949:G:H8	1.76	0.50
35:BA:289:A:H3'	35:BA:290:G:H8	1.75	0.50
1:AA:728:A:C2	1:AA:729:A:C5	2.99	0.50
13:CM:49:THR:HB	13:CM:52:GLU:CG	2.37	0.50
13:AM:13:LYS:HB2	13:AM:18:ALA:HB2	1.93	0.50
15:AO:85:LEU:HB2	15:AO:87:ILE:HD11	1.93	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
53:BW:20:VAL:O	53:BW:23:LEU:N	2.45	0.50
1:AA:1090:U:O2'	1:AA:1091:U:H5'	2.10	0.50
35:DA:182:A:H2	35:DA:433:C:H1'	1.77	0.50
1:CA:854:G:OP2	1:CA:871:U:C5	2.65	0.50
44:BN:13:TRP:O	44:BN:135:PRO:HG2	2.12	0.50
1:CA:439:A:C4	1:CA:496:A:C2	3.00	0.50
1:CA:285:G:O2'	1:CA:286:G:H5'	2.11	0.50
50:DT:3:ARG:O	50:DT:5:ALA:N	2.45	0.50
36:DB:60:C:O2'	36:DB:61:G:H5'	2.12	0.50
16:CP:80:PHE:H	16:CP:80:PHE:HD1	1.57	0.50
50:DT:122:ASP:O	50:DT:126:ALA:HB2	2.12	0.50
51:DU:15:LYS:O	51:DU:19:LYS:HG3	2.12	0.50
35:DA:845:G:HO2'	35:DA:846:C:H5	1.56	0.50
35:DA:2828:C:O2'	35:DA:2829:C:H5'	2.12	0.50
35:BA:1543:C:O2	35:BA:1543:C:C2'	2.60	0.50
35:BA:2699:C:O2'	35:BA:2700:C:H5'	2.10	0.50
39:BE:16:ARG:O	39:BE:17:ASP:HB3	2.11	0.50
45:BO:12:ASP:N	45:BO:12:ASP:OD2	2.43	0.50
38:BD:40:THR:HG22	38:BD:41:GLY:O	2.12	0.50
13:AM:112:GLY:C	13:AM:113:PRO:HG2	2.32	0.50
3:CC:69:HIS:CD2	3:CC:69:HIS:N	2.78	0.50
8:CH:50:ARG:HH11	8:CH:50:ARG:HG2	1.77	0.50
35:DA:1267:U:H2'	35:DA:1267:U:O2	2.10	0.50
5:AE:47:LYS:HD3	5:AE:47:LYS:N	2.26	0.50
1:CA:1069:C:O2'	1:CA:1192:C:H1'	2.11	0.50
35:DA:2678:C:C2	35:DA:2679:A:C8	3.00	0.50
50:DT:108:ARG:NH1	50:DT:108:ARG:HB3	2.27	0.50
50:DT:53:ARG:CG	50:DT:53:ARG:HH11	2.19	0.50
35:DA:2683:C:H5"	50:DT:53:ARG:HH22	1.77	0.50
14:CN:33:VAL:HG12	14:CN:34:TYR:N	2.27	0.50
35:BA:729:G:N7	38:BD:208:LYS:HB2	2.25	0.50
38:BD:106:ILE:O	38:BD:106:ILE:HG23	2.11	0.50
35:DA:2313:C:H5'	35:DA:2313:C:H6	1.77	0.50
41:DG:181:ARG:O	41:DG:182:LYS:C	2.50	0.50
50:BT:23:ARG:HB2	50:BT:24:PRO:HD2	1.93	0.50
50:BT:50:ILE:H	50:BT:50:ILE:HD12	1.76	0.50
56:BZ:137:ILE:O	56:BZ:137:ILE:HG23	2.12	0.50
56:BZ:136:PHE:HD1	56:BZ:137:ILE:N	2.10	0.50
51:BU:95:LEU:O	51:BU:98:LEU:HG	2.11	0.50
52:BV:60:GLU:HA	52:BV:100:ARG:O	2.12	0.50
42:DH:92:ILE:C	42:DH:94:TYR:H	2.15	0.50
54:BX:46:ALA:C	54:BX:47:PHE:CD1	2.85	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
54:BX:47:PHE:CD1	54:BX:47:PHE:N	2.80	0.50
54:BX:56:THR:O	54:BX:57:LEU:HG	2.11	0.50
39:DE:52:LEU:HD12	39:DE:53:PRO:CD	2.40	0.50
27:B1:47:GLN:NE2	27:B1:47:GLN:O	2.44	0.50
27:B1:83:GLU:C	27:B1:85:LEU:H	2.13	0.50
2:AB:87:ARG:O	2:AB:88:ALA:HB2	2.12	0.50
35:BA:2313:C:H5'	35:BA:2313:C:H6	1.75	0.50
41:BG:132:ASN:ND2	41:BG:158:ALA:HB1	2.27	0.50
34:D8:34:TRP:HZ3	34:D8:41:ILE:HG23	1.76	0.50
56:DZ:56:VAL:C	56:DZ:57:ILE:HD12	2.32	0.50
44:DN:46:VAL:CG1	44:DN:47:ALA:N	2.64	0.50
51:DU:65:ILE:HD12	51:DU:65:ILE:N	2.26	0.50
32:D6:30:THR:O	32:D6:31:PRO:C	2.50	0.50
36:BB:4:C:H2'	36:BB:5:C:O4'	2.12	0.50
36:BB:56:G:H4'	36:BB:57:A:H8	1.76	0.50
49:BS:89:ARG:NE	49:BS:89:ARG:CA	2.73	0.50
4:CD:154:ASN:CA	4:CD:159:ARG:HH21	2.24	0.50
44:BN:97:ARG:O	44:BN:98:VAL:C	2.50	0.50
35:BA:442:G:O4'	40:BF:46:ARG:HG2	2.11	0.50
40:BF:185:ASP:O	40:BF:189:THR:HG23	2.11	0.50
40:BF:25:PRO:HG3	40:BF:119:ARG:HA	1.93	0.50
25:AY:37:LEU:CD1	25:AY:38:LEU:HG	2.42	0.50
35:DA:631:A:C4'	46:DP:65:ARG:HA	2.42	0.50
35:BA:2030:A:H5''	35:BA:2031:A:OP1	2.10	0.50
40:BF:89:VAL:HG12	40:BF:90:PHE:H	1.77	0.50
52:BV:72:VAL:HG13	52:BV:88:ARG:HH22	1.76	0.50
55:BY:96:ILE:HG13	55:BY:99:CYS:HB2	1.93	0.50
1:AA:1428:A:H61	1:AA:1473:A:N6	2.10	0.50
49:DS:95:HIS:O	49:DS:96:GLY:C	2.49	0.50
35:DA:199:A:C6	35:DA:2434:A:C6	3.00	0.50
44:BN:34:LEU:HD11	44:BN:116:LEU:O	2.12	0.50
44:BN:126:PRO:O	44:BN:127:ASP:HB2	2.12	0.50
18:CR:72:ARG:O	18:CR:75:ILE:N	2.44	0.50
35:DA:1251:C:H2'	35:DA:1251:C:OP2	2.12	0.50
40:DF:80:ALA:HB3	40:DF:83:PHE:CD1	2.47	0.50
33:D7:11:LYS:HE2	35:DA:686:G:H5''	1.94	0.50
4:AD:153:ARG:CB	4:AD:153:ARG:HH11	2.24	0.50
55:DY:13:VAL:HG12	55:DY:14:LEU:N	2.27	0.50
1:AA:582:U:H2'	1:AA:583:A:C8	2.46	0.50
16:AP:65:GLN:N	16:AP:65:GLN:OE1	2.45	0.50
25:AY:15:GLN:OE1	25:AY:168:PHE:HZ	1.95	0.50
42:BH:18:GLU:CB	42:BH:25:LYS:HD2	2.42	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
16:CP:65:GLN:N	16:CP:65:GLN:OE1	2.45	0.50
35:DA:2246:G:H2'	35:DA:2247:A:C8	2.47	0.50
1:CA:640:A:H4'	8:CH:116:LYS:HZ1	1.76	0.50
8:CH:128:GLY:O	8:CH:129:VAL:HG13	2.12	0.50
55:BY:28:LYS:CE	55:BY:37:VAL:HA	2.42	0.50
11:AK:23:ALA:HA	11:AK:28:THR:CG2	2.42	0.50
1:AA:1226:C:OP1	13:AM:96:LEU:HD13	2.10	0.50
35:DA:260:G:N2	35:DA:261:G:H1'	2.26	0.50
40:BF:132:VAL:HG13	40:BF:133:ASN:N	2.26	0.50
40:BF:132:VAL:CG2	40:BF:133:ASN:H	2.04	0.50
20:AT:53:LEU:O	20:AT:54:LYS:C	2.50	0.50
43:DI:9:LEU:H	43:DI:13:GLY:HA2	1.76	0.50
8:CH:6:ILE:O	8:CH:10:LEU:HG	2.11	0.50
35:BA:363(F):A:O2'	35:BA:364:C:H5	1.94	0.50
35:DA:2536:G:C6	35:DA:2537:U:N3	2.80	0.50
35:DA:758:C:O2'	35:DA:759:G:H5'	2.12	0.50
15:CO:16:ALA:HB1	15:CO:21:ASP:HB3	1.94	0.50
40:BF:170:LEU:HD23	40:BF:173:VAL:CG2	2.42	0.50
1:CA:33:A:H2'	1:CA:34:C:C6	2.47	0.50
7:AG:121:ALA:N	7:AG:124:LEU:HD12	2.27	0.50
1:AA:267:C:OP1	17:AQ:67:LYS:HB2	2.10	0.50
35:DA:1937:A:N7	35:DA:1939:U:H2'	2.27	0.50
38:BD:111:LEU:HD22	38:BD:115:GLN:OE1	2.11	0.50
13:AM:70:LEU:O	13:AM:74:VAL:HG23	2.11	0.50
13:AM:69:GLU:CB	13:AM:72:ALA:HB3	2.41	0.50
26:B0:29:GLN:HB2	26:B0:67:VAL:CG2	2.41	0.50
26:B0:24:LYS:NZ	35:BA:2355:C:O2'	2.45	0.50
36:BB:78:A:O2'	36:BB:79:C:H5'	2.12	0.50
15:AO:78:TYR:C	15:AO:80:ALA:N	2.65	0.50
35:DA:2009:G:C6	35:DA:2010:G:N7	2.80	0.50
1:CA:668:G:O2'	1:CA:669:U:H5'	2.12	0.50
35:BA:1221:C:H2'	35:BA:1221(A):C:C6	2.45	0.50
35:BA:2841:C:C2	35:BA:2877:G:C2	3.00	0.50
32:D6:40:CYS:HB2	32:D6:46:HIS:CE1	2.43	0.50
35:BA:1681:G:O2'	35:BA:1762:A:H2'	2.12	0.50
1:AA:1030(A):G:H2'	1:AA:1030(C):G:OP2	2.11	0.50
35:DA:304:G:H2'	35:DA:305:U:C6	2.47	0.50
35:DA:304:G:H1	35:DA:313:C:N4	2.10	0.50
35:DA:1628:G:O2'	35:DA:1629:U:H5'	2.12	0.50
1:AA:789:U:O2	1:AA:789:U:H2'	2.12	0.50
1:AA:1518:A:C2	1:AA:1519:A:C2	2.99	0.50
35:DA:2460:U:H2'	35:DA:2461:C:O4'	2.11	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:419:C:C2	35:BA:420:C:C6	2.99	0.50
35:DA:52:A:C2'	35:DA:53:A:H5'	2.42	0.50
7:AG:126:ASP:O	7:AG:130:GLY:N	2.34	0.50
35:BA:451:C:H41	35:BA:453:C:H3'	1.77	0.50
3:AC:40:ARG:HH11	3:AC:40:ARG:HG3	1.77	0.50
33:D7:37:LYS:HG3	35:DA:458:G:C8	2.46	0.50
35:BA:830:G:C4	35:BA:2448:A:C5	3.00	0.50
35:DA:2447:G:O6	35:DA:2504:U:O4	2.30	0.50
3:AC:69:HIS:N	3:AC:69:HIS:CD2	2.79	0.50
35:DA:822:U:H2'	35:DA:822:U:O2	2.12	0.50
7:AG:115:ARG:HB2	7:AG:118:VAL:HG21	1.93	0.50
1:CA:1420:C:H2'	1:CA:1421:G:H8	1.76	0.50
53:BW:76:VAL:HB	53:BW:103:ILE:HG22	1.93	0.50
1:CA:516:U:O2'	1:CA:517:G:H5'	2.12	0.50
35:DA:501:A:H2'	35:DA:502:A:C8	2.47	0.50
38:DD:24:ILE:HD13	38:DD:24:ILE:O	2.12	0.50
38:DD:260:ARG:CZ	38:DD:264:LYS:HD3	2.42	0.50
41:DG:132:ASN:CG	41:DG:158:ALA:HA	2.31	0.50
35:BA:2854:G:H1	35:BA:2863:C:H42	1.59	0.50
36:BB:75:G:N7	36:BB:76:G:N7	2.59	0.50
52:BV:3:ALA:O	52:BV:14:VAL:N	2.45	0.50
1:AA:1230:C:O2'	1:AA:1231:G:H5'	2.11	0.50
35:BA:70:G:H21	35:BA:71:A:H62	1.60	0.50
54:BX:35:THR:HG23	54:BX:36:LYS:H	1.76	0.50
54:BX:7:VAL:O	54:BX:31:HIS:N	2.43	0.50
27:B1:92:LYS:N	27:B1:93:GLU:OE2	2.45	0.50
2:AB:215:LEU:O	2:AB:219:VAL:HG23	2.12	0.50
2:AB:80:ILE:HG13	2:AB:81:VAL:HG23	1.93	0.50
41:BG:82:LEU:CD2	41:BG:86:MET:HB2	2.41	0.50
28:D2:41:ILE:C	28:D2:43:GLN:N	2.65	0.50
35:DA:141:A:H8	35:DA:1408:C:O2'	1.91	0.50
35:DA:71:A:H4'	35:DA:72:U:C5'	2.41	0.50
28:D2:41:ILE:HD13	35:DA:94(A):G:O2'	2.11	0.50
54:DX:32:PRO:HD3	54:DX:72:LYS:HZ2	1.76	0.50
52:DV:60:GLU:HA	52:DV:100:ARG:O	2.12	0.50
3:AC:150:LYS:HA	3:AC:169:ALA:HB2	1.94	0.50
1:CA:1065:U:O2'	1:CA:1066:C:OP2	2.25	0.50
4:CD:119:GLN:NE2	4:CD:123:HIS:NE2	2.60	0.50
4:CD:177:ASP:O	4:CD:180:GLY:N	2.43	0.50
4:CD:62:GLN:HB3	4:CD:66:ARG:HH22	1.77	0.50
43:DI:123:LEU:HG	43:DI:142:VAL:HB	1.93	0.50
43:DI:79:ILE:CG2	43:DI:81:VAL:HG23	2.42	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1246:A:P	46:BP:16:ARG:HH22	2.35	0.50
40:BF:110:LEU:HD21	40:BF:181:LEU:CD2	2.41	0.50
35:BA:2491:U:C5'	35:BA:2570:G:H5''	2.24	0.50
35:BA:579:G:H2'	35:BA:580:C:C6	2.46	0.50
48:DR:52:ILE:CD1	48:DR:79:LEU:HD21	2.42	0.50
48:DR:56:LYS:HE2	48:DR:94:TYR:CE2	2.47	0.50
50:BT:106:SER:CA	50:BT:110:ILE:HD13	2.32	0.50
35:BA:2847:U:OP1	50:BT:98:LYS:HD3	2.12	0.50
49:DS:26:LEU:O	49:DS:26:LEU:CD2	2.60	0.50
49:DS:74:ALA:CB	49:DS:103:GLU:HG3	2.41	0.50
2:CB:81:VAL:HG22	2:CB:215:LEU:CG	2.42	0.50
2:AB:73:THR:HB	2:AB:94:ASN:O	2.12	0.50
27:D1:41:ARG:NH1	35:DA:189:G:P	2.85	0.50
1:CA:836:G:C6	1:CA:851:G:C6	3.00	0.50
15:CO:78:TYR:O	15:CO:82:ILE:HG22	2.11	0.50
15:CO:82:ILE:HG12	15:CO:87:ILE:HB	1.93	0.50
4:AD:153:ARG:NH2	4:AD:181:MET:HG2	2.26	0.50
55:DY:2:ARG:N	55:DY:5:MET:CE	2.75	0.50
6:AF:7:ASN:C	6:AF:8:ILE:HG13	2.31	0.50
47:BQ:55:VAL:CG2	47:BQ:56:ARG:N	2.75	0.50
12:CL:55:VAL:O	12:CL:56:ALA:HB2	2.12	0.50
35:DA:2701:C:C3'	35:DA:2702:U:H5''	2.29	0.50
1:CA:575:G:N1	1:CA:821:G:C5	2.80	0.50
35:BA:1131:G:H1'	35:BA:1132:A:C8	2.47	0.50
11:AK:92:GLU:O	11:AK:95:ILE:HG12	2.10	0.50
33:B7:18:PHE:O	33:B7:21:ARG:N	2.45	0.50
43:BI:112:LYS:H	43:BI:114:LEU:HG	1.77	0.50
11:AK:28:THR:CG2	11:AK:29:ILE:N	2.74	0.50
1:AA:1226:C:OP1	19:AS:81:ARG:NH1	2.45	0.50
46:DP:21:ARG:NH1	46:DP:21:ARG:HG3	2.26	0.50
1:AA:527:G:O2'	1:AA:528:C:H5'	2.12	0.50
1:AA:528:C:O2'	1:AA:529:G:H5'	2.12	0.50
12:AL:91:LYS:O	12:AL:91:LYS:HG3	2.12	0.50
8:AH:40:ALA:HB2	8:AH:45:ILE:HD11	1.94	0.50
12:CL:60:LEU:CD2	12:CL:64:TYR:O	2.60	0.50
1:CA:1148:U:OP2	9:CI:7:THR:HG21	2.11	0.50
5:CE:149:GLU:C	5:CE:151:LEU:H	2.14	0.50
56:BZ:112:ARG:O	56:BZ:113:ALA:CB	2.60	0.50
1:CA:376:G:H2'	1:CA:377:G:H8	1.77	0.50
7:CG:119:ARG:O	7:CG:122:HIS:N	2.45	0.50
38:DD:73:VAL:HG13	38:DD:120:GLY:CA	2.42	0.50
11:CK:109:VAL:HG13	18:CR:85:LEU:O	2.11	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:614:U:O4'	35:BA:614:U:O2	2.30	0.50
35:DA:679:C:O2	35:DA:680:G:C8	2.65	0.50
26:D0:77:ARG:HH22	35:DA:857:C:C5'	2.24	0.50
5:AE:102:ALA:HB1	5:AE:106:PRO:HG3	1.93	0.50
5:AE:105:VAL:HB	5:AE:106:PRO:CD	2.41	0.50
1:CA:103:C:OP2	20:CT:14:LYS:HD2	2.11	0.50
35:DA:1982:C:OP1	35:DA:1982:C:H3'	2.12	0.50
35:DA:1938:A:N1	35:DA:2590:A:H1'	2.27	0.50
35:DA:2605:U:H2'	35:DA:2606:C:C6	2.47	0.50
38:BD:108:PRO:HB3	38:BD:143:HIS:CE1	2.47	0.50
5:CE:78:HIS:CD2	8:CH:104:ARG:HE	2.29	0.50
35:BA:29:U:O2'	35:BA:30:G:H5'	2.11	0.50
1:AA:894:G:H2'	1:AA:895:G:C8	2.47	0.50
29:B3:19:GLN:C	29:B3:21:ALA:N	2.64	0.50
35:DA:1338:G:H5'	35:DA:1339:G:OP2	2.10	0.50
16:CP:8:ARG:NH1	16:CP:8:ARG:HG2	2.24	0.50
46:BP:90:ARG:HH11	46:BP:91:PHE:HB3	1.75	0.50
1:CA:1340:A:OP1	23:CW:36:A:H4'	2.11	0.50
1:AA:1512:U:H3	1:AA:1523:G:H1	1.60	0.50
19:AS:43:GLU:C	19:AS:45:VAL:N	2.63	0.50
44:DN:3:THR:C	44:DN:5:VAL:H	2.14	0.50
35:DA:1407:C:O2	35:DA:1407:C:H2'	2.12	0.50
10:CJ:33:GLN:O	10:CJ:75:ILE:HG12	2.11	0.50
1:AA:1260:C:H4'	1:AA:1284:C:H5'	1.93	0.50
1:CA:769:G:O2'	1:CA:770:C:H5'	2.11	0.50
35:DA:1331:A:H2'	35:DA:1333:C:C5	2.46	0.50
1:CA:885:G:H2'	1:CA:886:G:H8	1.76	0.50
35:DA:2880:C:O3'	48:DR:90:ARG:NH1	2.44	0.50
35:DA:644:A:O2'	35:DA:645:C:H5"	2.12	0.50
45:BO:26:LYS:O	45:BO:27:GLY:O	2.30	0.50
56:DZ:93:ASP:OD1	56:DZ:94:GLU:HG2	2.12	0.50
10:AJ:39:PRO:HB3	10:AJ:70:ARG:NH1	2.26	0.50
35:BA:271(H):G:O2'	35:BA:271(I):G:H8	1.94	0.50
1:CA:525:C:H2'	1:CA:526:C:H6	1.76	0.50
35:BA:1695:G:H2'	35:BA:1696:G:C5'	2.42	0.50
35:DA:1382:G:O2'	35:DA:1383:C:H5'	2.11	0.50
36:BB:40:U:C4	36:BB:43:C:H5"	2.47	0.50
35:DA:2718:G:H2'	35:DA:2719:G:H8	1.76	0.50
11:AK:48:ILE:O	11:AK:50:TYR:N	2.41	0.50
4:CD:138:TYR:HD2	4:CD:139:ARG:N	2.09	0.50
35:BA:1027:A:O2'	35:BA:1028:A:H5'	2.12	0.50
47:DQ:77:LYS:O	47:DQ:79:LEU:N	2.38	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
43:DI:82:ARG:HH11	43:DI:82:ARG:HG3	1.77	0.50
40:BF:17:ARG:HG3	40:BF:17:ARG:HH11	1.77	0.50
35:DA:2417:C:H2'	35:DA:2418:A:H8	1.77	0.50
12:CL:104:VAL:O	12:CL:105:TYR:HB2	2.11	0.50
55:BY:54:LYS:O	55:BY:55:TYR:O	2.29	0.50
53:BW:29:LEU:HD21	53:BW:33:ARG:CZ	2.40	0.50
45:DO:6:THR:CG2	45:DO:7:TYR:N	2.69	0.50
50:DT:45:PHE:CZ	50:DT:74:ARG:HB2	2.46	0.50
43:BI:92:VAL:CG1	43:BI:120:ILE:HD12	2.32	0.50
38:DD:183:ARG:HG2	38:DD:183:ARG:NH1	2.27	0.50
38:DD:222:ARG:O	38:DD:224:ALA:N	2.44	0.50
38:DD:34:VAL:CG1	38:DD:34:VAL:O	2.60	0.50
38:DD:92:ILE:CA	38:DD:107:ALA:HB2	2.41	0.50
35:BA:2678:C:C2	35:BA:2679:A:C8	3.00	0.50
45:BO:63:VAL:HB	45:BO:102:VAL:HG12	1.94	0.50
45:BO:62:VAL:CG1	45:BO:65:THR:HG22	2.42	0.50
56:BZ:29:TYR:HE2	56:BZ:87:ASP:HB3	1.77	0.50
35:DA:1578:U:O2	35:DA:1578:U:H2'	2.11	0.50
35:BA:995:C:C2	51:BU:57:PHE:CE2	2.99	0.50
51:BU:78:THR:C	51:BU:80:ILE:N	2.65	0.50
52:BV:19:LYS:CE	52:BV:19:LYS:HA	2.40	0.50
52:BV:23:GLU:O	52:BV:24:LYS:O	2.30	0.50
42:DH:125:VAL:O	42:DH:125:VAL:HG12	2.11	0.50
42:DH:85:LYS:HB3	42:DH:133:VAL:O	2.12	0.50
35:BA:90:U:O2'	35:BA:92:A:H5''	2.12	0.50
54:BX:33:LYS:C	54:BX:35:THR:H	2.14	0.50
54:BX:57:LEU:CB	54:BX:76:ARG:HD2	2.39	0.50
35:DA:2892:A:C4	35:DA:2893:G:H1'	2.47	0.50
27:B1:53:VAL:HG13	27:B1:54:ALA:N	2.26	0.50
27:B1:61:ARG:O	27:B1:62:VAL:O	2.30	0.50
27:B1:85:LEU:C	27:B1:87:PRO:CD	2.69	0.50
41:BG:167:GLU:O	41:BG:171:ALA:N	2.41	0.50
28:D2:26:ARG:NE	54:DX:5:TYR:HB3	2.27	0.50
34:D8:35:GLN:NE2	34:D8:36:LYS:HZ2	2.10	0.50
56:DZ:14:LYS:C	56:DZ:16:SER:H	2.15	0.50
35:DA:2637:U:H1'	35:DA:2782:G:N2	2.27	0.50
44:DN:113:GLY:O	44:DN:114:ARG:C	2.51	0.50
44:DN:33:LEU:HD23	44:DN:38:HIS:CE1	2.47	0.50
51:DU:55:ARG:HA	51:DU:58:ARG:CG	2.42	0.50
51:DU:66:ASN:ND2	51:DU:70:ARG:NH2	2.39	0.50
52:DV:2:PHE:O	52:DV:3:ALA:HB2	2.12	0.50
52:DV:34:GLU:HB3	52:DV:62:LEU:CD1	2.37	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2284:C:H42	35:DA:2384:G:H1	1.59	0.50
1:CA:408:A:C6	1:CA:409:G:C5	3.00	0.50
35:BA:1141:U:C5'	35:BA:1142(A):A:O4'	2.60	0.50
35:BA:261:G:C2	35:BA:262:A:C8	3.00	0.50
40:BF:28:ILE:HD13	40:BF:28:ILE:H	1.74	0.50
34:D8:30:ARG:HH21	46:DP:62:LEU:CB	2.20	0.50
40:DF:41:LEU:HA	40:DF:44:ARG:HD3	1.93	0.50
47:BQ:9:TYR:C	47:BQ:9:TYR:CD2	2.84	0.50
20:AT:26:ASN:ND2	20:AT:26:ASN:H	2.10	0.50
48:BR:118:GLU:HA	48:BR:118:GLU:OE1	2.12	0.50
48:BR:41:ALA:O	48:BR:44:LEU:N	2.44	0.50
49:DS:46:VAL:HG12	49:DS:47:THR:N	2.26	0.50
49:DS:85:VAL:CG2	49:DS:86:ALA:H	2.16	0.50
2:AB:164:VAL:HB	2:AB:186:ALA:HB2	1.93	0.50
27:D1:34:THR:HG23	27:D1:34:THR:O	2.10	0.50
44:DN:103:VAL:O	44:DN:106:MET:HB2	2.12	0.50
44:DN:34:LEU:CD2	44:DN:120:LEU:HD23	2.41	0.50
35:BA:1747:G:O2'	35:BA:1747(A):G:H5'	2.12	0.50
6:CF:67:MET:HE2	6:CF:72:VAL:H	1.77	0.50
2:CB:69:LEU:HD13	2:CB:91:PRO:O	2.12	0.50
52:DV:72:VAL:HA	52:DV:88:ARG:HH22	1.77	0.50
52:DV:72:VAL:HG13	52:DV:88:ARG:NH2	2.27	0.50
4:AD:103:ASN:O	4:AD:106:TYR:N	2.45	0.50
47:BQ:51:ARG:C	47:BQ:54:MET:HB3	2.31	0.50
1:CA:1499:A:H2'	1:CA:1500:A:C8	2.43	0.50
25:CY:32:ARG:C	25:CY:103:ILE:HD13	2.32	0.50
25:CY:130:ARG:HH21	35:DA:1942:C:C2'	2.25	0.50
1:CA:1305:G:H5''	21:CU:5:ASP:N	2.27	0.50
13:CM:108:ARG:H	13:CM:108:ARG:CD	2.12	0.50
1:AA:1323:G:H2'	1:AA:1324:A:C8	2.47	0.50
35:BA:1658:C:OP1	39:BE:132:HIS:O	2.29	0.50
39:BE:125:GLY:N	39:BE:135:HIS:O	2.44	0.50
1:CA:183:G:H1	1:CA:194:C:H42	1.59	0.50
25:AY:16:LYS:O	25:AY:19:GLU:HB2	2.11	0.50
17:CQ:31:LEU:HG	17:CQ:32:TYR:CD2	2.47	0.50
11:CK:22:HIS:HB3	11:CK:29:ILE:CG1	2.35	0.50
40:DF:34:TRP:CZ3	46:DP:12:ALA:HA	2.47	0.50
11:CK:57:THR:O	11:CK:60:ALA:HB3	2.12	0.50
5:AE:41:VAL:HG13	5:AE:113:ALA:HA	1.93	0.50
1:AA:19:C:P	5:AE:127:ASN:HD22	2.35	0.50
25:CY:38:LEU:HA	25:CY:41:LEU:HD11	1.92	0.50
43:DI:36:ALA:O	43:DI:37:VAL:HG23	2.12	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:AH:28:ALA:CB	8:AH:57:PRO:O	2.60	0.50
31:D5:41:PRO:HG2	31:D5:44:THR:HG1	1.76	0.50
56:DZ:76:LEU:N	56:DZ:84:GLU:HB2	2.25	0.50
33:D7:18:PHE:O	33:D7:19:ARG:C	2.49	0.50
46:DP:101:VAL:HA	46:DP:107:LYS:H	1.77	0.50
46:DP:84:ASN:CG	46:DP:116:GLY:HA3	2.31	0.50
16:CP:40:ASP:HB3	16:CP:48:TRP:HB3	1.93	0.50
1:CA:709:G:H2'	1:CA:710:G:H8	1.77	0.50
1:CA:1379:G:C4	1:CA:1380:U:H5	2.30	0.50
35:DA:1926:U:H2'	35:DA:1928:A:OP2	2.11	0.50
1:CA:1423:G:H2'	1:CA:1424:C:H6	1.77	0.50
17:AQ:45:HIS:HB2	17:AQ:69:LYS:CE	2.42	0.50
35:BA:1485:G:H2'	35:BA:1486:A:C8	2.46	0.50
53:DW:18:ARG:HG2	53:DW:18:ARG:NH1	2.27	0.50
26:D0:42:GLY:HA3	35:DA:2331:G:O4'	2.11	0.50
26:B0:51:VAL:HG13	26:B0:60:PHE:O	2.12	0.50
2:CB:22:LYS:HZ3	2:CB:22:LYS:HA	1.72	0.50
35:DA:1682:G:H2'	35:DA:1683:C:C6	2.46	0.50
48:DR:4:LEU:C	48:DR:6:SER:H	2.16	0.50
35:DA:1643:G:H2'	35:DA:1644:C:C6	2.42	0.50
56:BZ:61:LEU:HB2	56:BZ:65:GLN:CB	2.40	0.50
53:BW:31:GLU:O	53:BW:32:ALA:C	2.50	0.50
39:DE:38:THR:CG2	39:DE:39:PRO:HD2	2.41	0.50
35:DA:2010:G:H5''	53:DW:42:ARG:HB2	1.93	0.50
4:CD:192:GLU:OE2	4:CD:192:GLU:N	2.45	0.50
40:DF:30:PRO:O	40:DF:33:LEU:HB3	2.11	0.50
40:DF:197:ASP:OD1	40:DF:198:ALA:N	2.44	0.50
17:CQ:10:VAL:HG12	17:CQ:53:LEU:HD12	1.94	0.50
1:CA:286:G:H2'	1:CA:287:U:C6	2.47	0.50
38:DD:125:ILE:O	38:DD:125:ILE:HG22	2.11	0.50
35:BA:2881:C:H2'	35:BA:2882:A:C8	2.45	0.50
35:DA:1195:G:H2'	35:DA:1196:C:C6	2.47	0.50
52:DV:52:VAL:C	52:DV:54:GLY:N	2.65	0.50
4:CD:24:GLU:O	4:CD:27:TYR:HB2	2.12	0.50
2:CB:224:GLN:HG3	2:CB:229:VAL:CG2	2.42	0.50
35:BA:2090:G:H2'	35:BA:2091:U:O4'	2.11	0.50
35:DA:363(A):A:C2	35:DA:363(B):G:C8	3.00	0.50
1:AA:1333:A:H3'	1:AA:1334:G:H8	1.77	0.50
35:DA:1904:G:N2	35:DA:1905:C:H1'	2.27	0.50
25:CY:143:LEU:HD23	25:CY:143:LEU:C	2.32	0.50
22:CV:32:U:O5'	22:CV:32:U:H6	1.95	0.50
6:CF:42:GLU:C	6:CF:44:GLY:N	2.65	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1691:C:O2'	35:DA:1692:U:H5'	2.12	0.50
35:DA:2678:C:O2	35:DA:2678:C:H2'	2.12	0.49
35:DA:2714:G:O2'	35:DA:2715:C:H5'	2.11	0.49
39:DE:11:MET:HB2	39:DE:23:VAL:O	2.11	0.49
35:BA:778:G:C6	35:BA:779:U:N3	2.80	0.49
38:BD:211:ARG:NH1	38:BD:211:ARG:HG2	2.26	0.49
38:BD:63:ARG:CZ	38:BD:86:PRO:HD2	2.42	0.49
5:CE:126:ARG:O	5:CE:127:ASN:C	2.48	0.49
5:CE:43:LEU:CD2	5:CE:132:ALA:HB1	2.33	0.49
50:BT:88:ILE:HG22	50:BT:89:VAL:H	1.76	0.49
39:BE:59:VAL:HG13	39:BE:60:ASN:N	2.25	0.49
42:DH:113:VAL:HG21	42:DH:151:ILE:HG21	1.94	0.49
42:DH:163:TYR:N	42:DH:163:TYR:CD1	2.80	0.49
35:BA:71:A:H8	35:BA:71:A:H5'	1.77	0.49
54:BX:53:LYS:NZ	54:BX:55:ASN:ND2	2.60	0.49
41:BG:116:ASP:CG	41:BG:117:PHE:N	2.65	0.49
55:DY:76:CYS:HB3	55:DY:96:ILE:HD11	1.93	0.49
42:BH:92:ILE:C	42:BH:94:TYR:H	2.15	0.49
35:DA:1011:G:OP2	51:DU:70:ARG:NH2	2.45	0.49
35:DA:1885:A:H3'	35:DA:1886:C:C6	2.47	0.49
35:BA:1863:G:H1	35:BA:1879:C:N4	2.09	0.49
49:BS:18:ILE:C	49:BS:20:ARG:H	2.15	0.49
49:BS:74:ALA:CB	49:BS:103:GLU:HG3	2.42	0.49
35:BA:1141:U:OP2	44:BN:63:THR:HG21	2.11	0.49
40:BF:21:ALA:C	40:BF:23:ASP:H	2.16	0.49
46:DP:71:VAL:HG22	46:DP:72:PRO:HG3	1.94	0.49
25:AY:51:PRO:HB2	25:AY:53:ASN:ND2	2.27	0.49
35:DA:271(R):G:O2'	35:DA:271(S):G:H5'	2.12	0.49
44:DN:97:ARG:O	44:DN:101:HIS:N	2.40	0.49
35:BA:2406:U:C4	46:BP:72:PRO:HD2	2.47	0.49
35:BA:833:U:H2'	35:BA:834:C:H6	1.75	0.49
35:BA:833:U:P	46:BP:45:LEU:HD11	2.52	0.49
40:BF:65:TRP:HH2	40:BF:75:HIS:HD2	1.60	0.49
40:DF:46:ARG:HA	40:DF:46:ARG:NH1	2.22	0.49
48:DR:75:LEU:O	48:DR:79:LEU:HB2	2.12	0.49
44:DN:31:ALA:O	44:DN:34:LEU:N	2.45	0.49
6:CF:88:VAL:CG1	6:CF:89:MET:N	2.75	0.49
34:D8:58:ILE:C	34:D8:61:LEU:HG	2.32	0.49
35:DA:2069:G:C2	35:DA:2070:G:C8	3.00	0.49
1:AA:1234:C:H4'	1:AA:1364:U:H1'	1.93	0.49
43:DI:98:ALA:HB1	43:DI:109:ILE:CG1	2.42	0.49
6:AF:75:LEU:HD23	6:AF:79:LEU:HD21	1.94	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
18:AR:43:PHE:HD1	18:AR:43:PHE:H	1.58	0.49
35:DA:2025:C:H2'	35:DA:2026:C:C6	2.47	0.49
35:DA:510:C:O2'	35:DA:511:U:H5'	2.12	0.49
1:CA:1312:G:H1	1:CA:1325:C:H42	1.60	0.49
13:CM:89:GLY:O	13:CM:92:HIS:HB2	2.12	0.49
35:BA:295:G:C2	35:BA:296:C:C6	3.00	0.49
25:AY:29:ARG:HB3	25:AY:32:ARG:NE	2.26	0.49
7:CG:29:LYS:HG3	7:CG:101:LEU:HB3	1.93	0.49
12:AL:85:ILE:CD1	12:AL:98:TYR:HB3	2.42	0.49
25:AY:156:ARG:HH22	47:BQ:80:GLU:CB	2.25	0.49
33:B7:25:PRO:HA	33:B7:28:ARG:CZ	2.42	0.49
26:D0:11:ARG:O	26:D0:11:ARG:HG2	2.12	0.49
35:BA:2282:G:C4	35:BA:2425:A:N6	2.80	0.49
35:BA:106:C:H1'	55:BY:2:ARG:CZ	2.42	0.49
35:BA:927:G:O6	35:BA:928:G:C2	2.64	0.49
35:BA:848:G:C2	35:BA:933:A:H1'	2.47	0.49
1:AA:603:U:H2'	1:AA:604:G:H8	1.76	0.49
1:AA:640:A:C2'	1:AA:641:U:H5'	2.42	0.49
12:AL:119:LYS:C	12:AL:120:TYR:CD1	2.85	0.49
8:CH:85:ARG:HA	8:CH:135:CYS:HB3	1.94	0.49
35:DA:2119:A:C3'	35:DA:2120:G:C5'	2.90	0.49
35:DA:2119:A:C2'	35:DA:2120:G:H5''	2.42	0.49
35:BA:271(R):G:O2'	35:BA:271(S):G:H5'	2.12	0.49
9:CI:28:VAL:CG1	9:CI:29:ASN:N	2.75	0.49
56:BZ:144:LEU:HD22	56:BZ:144:LEU:N	2.26	0.49
1:CA:375:U:OP1	16:CP:69:THR:HG21	2.12	0.49
38:DD:113:VAL:O	38:DD:115:GLN:N	2.35	0.49
31:B5:20:ARG:O	31:B5:23:HIS:CD2	2.64	0.49
35:BA:2732:G:C3'	35:BA:2733:A:C5'	2.88	0.49
1:CA:676:A:O2'	1:CA:677:U:H5'	2.12	0.49
1:AA:237:C:C4'	17:AQ:25:ARG:HH12	2.18	0.49
35:DA:2115:G:O2'	35:DA:2116:G:H5''	2.12	0.49
20:CT:26:ASN:ND2	20:CT:26:ASN:H	2.09	0.49
35:DA:2189:U:H2'	35:DA:2190:G:O4'	2.13	0.49
19:AS:50:ALA:HB1	19:AS:57:HIS:HB3	1.94	0.49
5:CE:80:ILE:HD11	5:CE:91:LEU:HD22	1.94	0.49
35:BA:2777:G:H4'	35:BA:2778:A:H5'	1.94	0.49
35:DA:1948:G:H2'	35:DA:1949:G:H8	1.77	0.49
26:B0:37:LEU:C	26:B0:38:VAL:CG2	2.81	0.49
26:B0:29:GLN:O	26:B0:66:VAL:HA	2.12	0.49
13:CM:11:ARG:O	13:CM:13:LYS:HG3	2.12	0.49
15:AO:74:ASP:OD2	15:AO:77:ARG:HG2	2.12	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:860:U:O2	35:DA:860:U:O4'	2.29	0.49
35:BA:359:A:H2'	35:BA:360:G:C8	2.47	0.49
35:DA:1467:C:H42	35:DA:1525:G:H1	1.60	0.49
1:CA:338:A:H2'	1:CA:339:C:C6	2.47	0.49
9:AI:45:ALA:O	9:AI:49:PRO:HD2	2.12	0.49
7:CG:15:ASP:HB2	7:CG:23:VAL:HB	1.94	0.49
1:CA:903:G:H2'	1:CA:904:C:C6	2.46	0.49
35:DA:1964:G:H3'	35:DA:1965:C:C5'	2.42	0.49
56:BZ:33:LEU:HD12	56:BZ:34:ASN:N	2.26	0.49
56:DZ:115:GLY:CA	56:DZ:175:VAL:O	2.59	0.49
10:CJ:39:PRO:HB3	10:CJ:70:ARG:NH1	2.27	0.49
39:BE:115:GLY:HA2	39:BE:157:ALA:CB	2.42	0.49
17:AQ:57:VAL:HA	17:AQ:77:VAL:HG23	1.94	0.49
35:DA:820:A:O2'	35:DA:821:A:H5'	2.12	0.49
35:BA:939:G:O2'	35:BA:940:G:H5'	2.12	0.49
51:BU:15:LYS:O	51:BU:19:LYS:HG3	2.11	0.49
1:CA:23:C:O2'	1:CA:24:U:H5'	2.12	0.49
1:CA:25:C:O2'	1:CA:26:A:H5'	2.12	0.49
38:DD:152:GLY:O	38:DD:154:LYS:HG3	2.12	0.49
14:CN:57:ARG:HG2	14:CN:58:LYS:N	2.27	0.49
50:DT:109:GLU:HA	50:DT:112:ARG:HD2	1.93	0.49
35:DA:1778:U:H5	35:DA:1784:A:C2	2.30	0.49
35:DA:1816:G:N7	38:DD:62:TYR:CE1	2.80	0.49
38:DD:226:MET:CB	38:DD:230:ASP:HB2	2.40	0.49
38:DD:25:THR:O	38:DD:25:THR:HG23	2.10	0.49
16:CP:20:VAL:CG2	16:CP:21:VAL:N	2.74	0.49
34:B8:39:LYS:O	34:B8:42:ARG:HB3	2.12	0.49
47:DQ:101:ARG:HH11	47:DQ:101:ARG:HG3	1.76	0.49
50:BT:61:PHE:CE2	50:BT:76:PHE:HB3	2.47	0.49
39:BE:105:THR:HB	39:BE:197:ILE:HG12	1.93	0.49
35:DA:2667:C:H1'	42:DH:109:PHE:CE2	2.47	0.49
54:BX:7:VAL:HB	54:BX:8:ILE:HD12	1.94	0.49
39:DE:4:ILE:HD11	39:DE:28:ALA:HB1	1.94	0.49
27:B1:83:GLU:C	27:B1:85:LEU:N	2.65	0.49
2:AB:74:LYS:O	2:AB:74:LYS:HG3	2.11	0.49
41:BG:169:ALA:O	41:BG:170:ARG:C	2.49	0.49
41:BG:80:PHE:O	41:BG:81:LYS:O	2.29	0.49
55:DY:87:LYS:CG	55:DY:88:LYS:N	2.74	0.49
28:D2:20:GLU:C	28:D2:22:GLU:H	2.15	0.49
42:BH:113:VAL:HG21	42:BH:151:ILE:HG21	1.94	0.49
51:DU:95:LEU:O	51:DU:98:LEU:HG	2.11	0.49
52:DV:61:VAL:HG23	52:DV:100:ARG:HG2	1.93	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:DV:63:GLY:O	52:DV:64:HIS:HB3	2.11	0.49
10:AJ:16:LEU:HA	10:AJ:19:SER:OG	2.12	0.49
3:CC:47:LEU:HG	3:CC:52:LEU:HD22	1.94	0.49
19:CS:12:ASP:CB	19:CS:15:LEU:HD23	2.41	0.49
49:BS:99:LYS:O	49:BS:100:ALA:C	2.50	0.49
1:CA:429:U:H4'	1:CA:430:A:O5'	2.12	0.49
27:D1:76:ARG:HE	27:D1:76:ARG:HA	1.76	0.49
27:D1:75:GLU:CB	27:D1:76:ARG:NH2	2.70	0.49
35:BA:583:G:OP2	51:BU:10:ARG:NH1	2.45	0.49
40:DF:155:LEU:HD13	40:DF:174:VAL:HB	1.94	0.49
47:BQ:88:GLY:C	47:BQ:90:VAL:H	2.14	0.49
3:AC:47:LEU:HG	3:AC:52:LEU:HD22	1.95	0.49
1:AA:1464:G:O2'	1:AA:1465:C:H5'	2.12	0.49
44:BN:27:ALA:O	44:BN:28:THR:C	2.50	0.49
2:CB:167:PRO:CD	2:CB:188:ALA:HB2	2.42	0.49
1:AA:542:G:C6	1:AA:543:C:N4	2.81	0.49
35:DA:910:A:C4	47:DQ:13:GLN:OE1	2.65	0.49
18:AR:37:VAL:O	18:AR:38:GLU:C	2.50	0.49
1:CA:1405:G:H21	1:CA:1517:G:N2	2.09	0.49
51:DU:28:ARG:HA	51:DU:34:LYS:HB3	1.94	0.49
1:AA:940:C:H2'	1:AA:941:G:H8	1.77	0.49
1:CA:959:A:C2'	1:CA:960:U:H4'	2.42	0.49
13:CM:83:ASP:OD1	13:CM:86:CYS:HB2	2.12	0.49
16:AP:39:TYR:OH	16:AP:41:PRO:HB3	2.13	0.49
25:AY:171:LYS:HA	25:AY:174:GLN:HE22	1.75	0.49
12:AL:66:VAL:HG21	12:AL:98:TYR:CD1	2.47	0.49
35:BA:1428:C:H41	35:BA:1569:A:H3'	1.76	0.49
8:CH:83:ILE:HB	8:CH:137:VAL:CG1	2.38	0.49
35:BA:2247:A:O2'	35:BA:2248:C:H5'	2.12	0.49
8:AH:119:LEU:HD12	8:AH:123:GLU:C	2.32	0.49
39:DE:125:GLY:N	39:DE:135:HIS:O	2.45	0.49
8:CH:9:MET:O	8:CH:12:ARG:N	2.45	0.49
31:D5:51:TYR:C	31:D5:56:LYS:HG2	2.32	0.49
29:B3:54:VAL:CG1	29:B3:55:ARG:N	2.75	0.49
35:DA:542:C:C2'	35:DA:543:C:OP1	2.59	0.49
46:BP:79:ARG:O	46:BP:111:ARG:HB2	2.11	0.49
38:DD:133:LEU:O	38:DD:136:ILE:HG13	2.12	0.49
56:BZ:19:ARG:HH11	56:BZ:19:ARG:CB	2.25	0.49
35:BA:2589:A:H2'	35:BA:2590:A:C8	2.46	0.49
1:CA:707:C:H2'	1:CA:707:C:O2	2.12	0.49
6:CF:55:ASP:OD2	6:CF:86:ARG:NH2	2.45	0.49
11:CK:20:TYR:CE2	11:CK:83:ILE:HB	2.47	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
31:B5:21:SER:O	31:B5:23:HIS:N	2.45	0.49
35:BA:1615:C:H5	35:BA:1617:C:C2	2.30	0.49
35:DA:1233:C:H2'	35:DA:1234:U:H5'	1.93	0.49
35:DA:769:G:H4'	35:DA:1379:A:N1	2.27	0.49
35:DA:1914:C:H3'	35:DA:1914:C:O2	2.12	0.49
35:DA:2732:G:O2'	35:DA:2733:A:H5'	2.11	0.49
35:BA:336:C:H4'	55:BY:7:VAL:HG13	1.94	0.49
35:DA:1312:U:OP2	54:DX:62:LYS:HE2	2.13	0.49
1:AA:236:G:H2'	1:AA:237:C:C6	2.48	0.49
17:AQ:47:PRO:HG2	17:AQ:48:GLU:OE1	2.12	0.49
1:AA:661:G:H1	1:AA:744:C:H42	1.59	0.49
1:AA:833:U:H2'	1:AA:834:C:C6	2.47	0.49
35:DA:2606:C:C2'	35:DA:2607:G:H5'	2.42	0.49
5:CE:135:THR:O	5:CE:139:LEU:HG	2.13	0.49
35:DA:1269:A:H2'	35:DA:1270:C:C6	2.47	0.49
15:AO:56:LEU:O	15:AO:57:LEU:C	2.50	0.49
27:D1:94:LEU:CD1	27:D1:95:LEU:N	2.74	0.49
53:BW:18:ARG:HG2	53:BW:18:ARG:NH1	2.26	0.49
1:CA:337:C:O2'	1:CA:338:A:H5'	2.11	0.49
1:AA:556:C:C2'	1:AA:557:G:H5'	2.42	0.49
4:CD:194:LEU:O	4:CD:195:ALA:HB3	2.12	0.49
35:BA:1324:G:H3'	35:BA:1325:G:C4'	2.42	0.49
1:CA:1030(A):G:H2'	1:CA:1030(C):G:OP2	2.12	0.49
29:D3:27:GLY:O	29:D3:35:ARG:HD2	2.12	0.49
1:CA:189(I):G:H2'	1:CA:189(J):G:C8	2.47	0.49
17:CQ:56:VAL:HG23	17:CQ:78:GLU:O	2.11	0.49
30:D4:29:PRO:C	30:D4:31:ILE:N	2.65	0.49
6:CF:28:ARG:HG3	6:CF:28:ARG:NH1	2.26	0.49
35:BA:658:C:H2'	35:BA:659:C:C6	2.47	0.49
3:AC:35:GLU:HA	3:AC:38:ARG:HG2	1.93	0.49
35:BA:2417:C:H2'	35:BA:2418:A:H8	1.77	0.49
35:DA:2847:U:OP1	50:DT:98:LYS:HD3	2.12	0.49
45:DO:43:VAL:C	45:DO:45:GLU:H	2.15	0.49
35:BA:1903:G:C2	35:BA:1904:G:C8	3.00	0.49
41:DG:38:VAL:CB	41:DG:158:ALA:HB3	2.42	0.49
47:DQ:34:LEU:HD22	47:DQ:121:ALA:HB3	1.94	0.49
45:BO:86:ILE:O	45:BO:93:PRO:HA	2.13	0.49
50:BT:62:THR:CG2	50:BT:75:ILE:HA	2.23	0.49
36:BB:103:G:H2'	36:BB:104:U:C6	2.47	0.49
47:BQ:141:GLN:OXT	56:BZ:98:MET:HE1	2.12	0.49
35:BA:559:G:N2	51:BU:49:HIS:HD2	2.09	0.49
42:DH:105:LEU:CD2	42:DH:105:LEU:N	2.75	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:DH:124:GLU:HB2	42:DH:132:ARG:O	2.13	0.49
35:DA:336:C:H4'	55:DY:7:VAL:HG13	1.93	0.49
28:D2:25:VAL:HA	28:D2:28:LYS:HB2	1.95	0.49
54:DX:56:THR:O	54:DX:57:LEU:HG	2.12	0.49
42:BH:89:ILE:HD13	42:BH:90:LYS:N	2.24	0.49
56:DZ:33:LEU:HD11	56:DZ:35:ARG:CB	2.42	0.49
56:DZ:33:LEU:HD11	56:DZ:35:ARG:HB2	1.93	0.49
35:DA:1040:C:H5''	56:DZ:46:LYS:NZ	2.26	0.49
56:DZ:47:VAL:HG12	56:DZ:51:ALA:CB	2.42	0.49
51:DU:105:VAL:HG12	51:DU:109:LEU:HD11	1.92	0.49
51:DU:86:ALA:HB2	51:DU:116:ALA:CB	2.42	0.49
19:CS:16:LEU:C	19:CS:20:LEU:HG	2.31	0.49
49:BS:92:TYR:C	49:BS:92:TYR:CD1	2.86	0.49
43:DI:79:ILE:CB	43:DI:81:VAL:HG23	2.42	0.49
40:BF:114:VAL:HG21	40:BF:202:PHE:CE2	2.47	0.49
35:BA:1246:A:P	46:BP:16:ARG:HH12	2.35	0.49
35:BA:2049:G:O2'	35:BA:2050:C:H5'	2.12	0.49
44:DN:84:LYS:O	44:DN:85:ILE:HD13	2.12	0.49
35:BA:2030:A:H4'	35:BA:2031:A:C8	2.47	0.49
35:BA:2242:G:H2'	35:BA:2243:U:O4'	2.12	0.49
46:DP:5:ASP:OD2	46:DP:6:LEU:HD22	2.12	0.49
39:BE:161:GLY:O	39:BE:163:GLU:HG2	2.12	0.49
1:AA:1421:G:H2'	1:AA:1422:G:H8	1.76	0.49
48:BR:116:LEU:O	48:BR:117:VAL:CB	2.60	0.49
49:DS:18:ILE:C	49:DS:20:ARG:H	2.15	0.49
49:DS:34:HIS:CE1	49:DS:55:ALA:HB2	2.45	0.49
49:DS:86:ALA:C	49:DS:106:ARG:HG3	2.33	0.49
2:CB:74:LYS:O	2:CB:74:LYS:HG3	2.13	0.49
35:DA:201:C:O2'	35:DA:202:U:H5'	2.12	0.49
44:DN:126:PRO:O	44:DN:127:ASP:HB2	2.11	0.49
44:DN:26:LEU:CD2	44:DN:99:LEU:HD11	2.40	0.49
1:CA:666:G:H2'	1:CA:667:G:H8	1.77	0.49
2:CB:50:GLU:O	2:CB:51:LEU:C	2.51	0.49
4:AD:120:LEU:HA	4:AD:125:HIS:CD2	2.47	0.49
4:AD:150:GLU:HG2	4:AD:151:LYS:H	1.78	0.49
4:AD:68:TYR:N	4:AD:68:TYR:CD1	2.80	0.49
1:CA:1234:C:C4'	1:CA:1364:U:H1'	2.41	0.49
4:AD:199:ASN:OD1	4:AD:201:GLN:HB2	2.12	0.49
1:AA:502:G:OP1	12:AL:118:SER:N	2.43	0.49
6:AF:71:ARG:O	6:AF:72:VAL:C	2.49	0.49
1:CA:781:A:C2'	1:CA:782:A:H5'	2.41	0.49
2:AB:145:LEU:HD22	2:AB:149:LEU:HD12	1.94	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
7:AG:106:GLN:HA	7:AG:109:ASN:HD22	1.78	0.49
35:DA:16:G:H2'	35:DA:17:G:C8	2.48	0.49
1:AA:376:G:H2'	1:AA:377:G:H8	1.76	0.49
1:AA:377:G:O2'	1:AA:378:G:H5'	2.11	0.49
7:AG:92:SER:OG	7:AG:94:ARG:NE	2.45	0.49
35:BA:2018:G:C6	35:BA:2019:A:C5	3.00	0.49
16:CP:60:LEU:C	16:CP:62:VAL:N	2.66	0.49
25:AY:156:ARG:NH2	26:B0:6:ALA:HB2	2.27	0.49
11:AK:20:TYR:CE2	11:AK:83:ILE:HB	2.47	0.49
11:AK:58:PRO:HA	11:AK:90:GLY:CA	2.43	0.49
33:B7:8:ASN:ND2	33:B7:9:ARG:N	2.58	0.49
35:BA:685:A:C5	35:BA:774:A:C2	3.00	0.49
35:DA:2259:G:H1'	35:DA:2427:C:O2	2.11	0.49
35:BA:2282:G:O2'	35:BA:2283:C:OP2	2.25	0.49
35:BA:309:G:H4'	55:BY:18:GLY:HA3	1.93	0.49
2:CB:101:MET:O	2:CB:105:PHE:CA	2.58	0.49
11:AK:87:THR:HG22	11:AK:88:GLY:N	2.28	0.49
35:DA:1246:A:P	46:DP:16:ARG:HH22	2.35	0.49
25:CY:84:ARG:C	25:CY:86:SER:H	2.15	0.49
9:CI:118:LYS:H	9:CI:121:ARG:HB3	1.77	0.49
57:DC:40:THR:HG21	57:DC:215:THR:CB	2.42	0.49
33:D7:15:THR:HG22	33:D7:16:HIS:NE2	2.27	0.49
31:D5:21:SER:O	31:D5:23:HIS:N	2.46	0.49
46:BP:106:LEU:CD1	46:BP:112:LEU:HB2	2.42	0.49
40:BF:9:ILE:HG12	40:BF:14:PRO:CA	2.42	0.49
40:DF:152:GLU:OE1	40:DF:191:ARG:HD2	2.12	0.49
1:AA:472:A:H4'	16:AP:82:GLN:HE22	1.78	0.49
42:DH:156:ALA:O	42:DH:158:HIS:N	2.36	0.49
13:CM:69:GLU:HA	13:CM:70:LEU:N	2.27	0.49
13:AM:64:TRP:NE1	13:AM:66:LEU:HD12	2.26	0.49
11:CK:127:LYS:O	11:CK:129:SER:N	2.44	0.49
17:AQ:85:VAL:O	17:AQ:89:LEU:HB2	2.12	0.49
1:CA:1480:G:N2	1:CA:1481:U:H1'	2.28	0.49
35:DA:876:C:H2'	35:DA:877:U:C6	2.47	0.49
35:DA:2463:C:O2'	35:DA:2464:C:H5'	2.12	0.49
43:BI:55:ALA:O	43:BI:59:ALA:HB2	2.12	0.49
1:CA:243:A:O2'	1:CA:244:U:OP2	2.29	0.49
43:DI:55:ALA:O	43:DI:59:ALA:HB2	2.12	0.49
35:BA:2009:G:H1'	48:BR:107:ASP:C	2.32	0.49
35:DA:2379:G:H2'	35:DA:2380:C:C6	2.47	0.49
35:DA:2203:U:H4'	38:DD:151:LYS:HE3	1.94	0.49
35:DA:754:C:H2'	35:DA:755:C:C6	2.47	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1435:G:H2'	35:DA:1436:G:O4'	2.12	0.49
29:D3:26:LEU:O	29:D3:27:GLY:C	2.51	0.49
35:DA:1136:G:N3	35:DA:2038:G:H4'	2.28	0.49
1:CA:1152:A:H2'	1:CA:1153:C:C6	2.46	0.49
35:BA:892:G:H3'	35:BA:892:G:N3	2.28	0.49
43:BI:25:TYR:HE2	43:BI:29:TYR:CD2	2.30	0.49
35:DA:1195:G:H2'	35:DA:1196:C:H6	1.76	0.49
1:CA:1251:A:O2'	1:CA:1252:A:H5'	2.13	0.49
3:CC:91:LEU:HB2	3:CC:99:VAL:HG21	1.93	0.49
1:CA:1132:C:O2'	1:CA:1133:G:H5'	2.11	0.49
53:DW:59:VAL:O	53:DW:61:ASN:N	2.45	0.49
35:DA:1490:A:H5'	35:DA:1491:G:OP1	2.11	0.49
1:AA:1131:G:H2'	1:AA:1132:C:C5	2.46	0.49
35:DA:335:C:H4'	55:DY:73:ARG:CZ	2.42	0.49
28:B2:58:ALA:O	28:B2:60:LEU:N	2.46	0.49
35:DA:1922:G:O2'	35:DA:1923:U:H5'	2.12	0.49
14:AN:57:ARG:HG2	14:AN:58:LYS:N	2.27	0.49
35:DA:2519:U:H3'	35:DA:2519:U:OP1	2.12	0.49
35:BA:733:G:H8	35:BA:733:G:O5'	1.96	0.49
35:DA:1317:A:C2	35:DA:1318:C:C2	3.00	0.49
2:AB:21:ARG:O	2:AB:23:ARG:N	2.45	0.49
35:DA:2675:A:OP1	45:DO:31:LYS:HB2	2.12	0.49
45:DO:35:VAL:H	45:DO:65:THR:HG21	1.77	0.49
14:CN:29:ARG:HH11	14:CN:29:ARG:HG3	1.78	0.49
41:DG:7:LEU:O	41:DG:11:TYR:N	2.45	0.49
35:BA:1819:A:H1'	35:BA:1821:A:C5	2.47	0.49
10:CJ:16:LEU:O	10:CJ:16:LEU:HD13	2.12	0.49
35:BA:2728:U:H2'	35:BA:2728:U:O2	2.12	0.49
39:BE:52:LEU:HB2	39:BE:76:ARG:CB	2.36	0.49
52:BV:8:GLY:C	52:BV:10:LYS:H	2.14	0.49
35:DA:2666:C:O2'	35:DA:2667:C:H5'	2.13	0.49
10:AJ:55:LYS:O	10:AJ:56:HIS:CG	2.65	0.49
34:D8:6:THR:O	34:D8:8:LYS:N	2.46	0.49
28:B2:32:LEU:CG	28:B2:33:MET:N	2.75	0.49
54:BX:82:GLN:HG3	54:BX:83:VAL:H	1.72	0.49
27:B1:18:ILE:HG12	27:B1:43:TYR:HD1	1.78	0.49
41:BG:110:ALA:HB1	41:BG:140:ILE:HD13	1.93	0.49
41:BG:174:GLU:CA	41:BG:178:PHE:HB2	2.41	0.49
42:BH:130:ARG:HB2	42:BH:130:ARG:HH11	1.76	0.49
35:DA:875:G:HO2'	56:DZ:151:HIS:CD2	2.29	0.49
36:DB:103:G:H2'	36:DB:104:U:C6	2.47	0.49
47:DQ:120:ILE:HA	47:DQ:123:HIS:HD2	1.77	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
51:DU:112:ARG:HG2	51:DU:112:ARG:HH11	1.77	0.49
52:DV:96:ILE:HG23	52:DV:97:LYS:N	2.26	0.49
1:CA:405:U:H5''	1:CA:406:G:O4'	2.11	0.49
44:BN:96:GLU:O	44:BN:97:ARG:C	2.51	0.49
35:BA:234:C:H2'	35:BA:235:U:C6	2.46	0.49
3:AC:8:ILE:O	3:AC:10:PHE:N	2.45	0.49
35:BA:576:U:OP1	35:BA:2503:A:OP1	2.30	0.49
46:BP:47:ASP:CB	46:BP:51:PHE:HB2	2.33	0.49
52:BV:88:ARG:NH1	52:BV:88:ARG:HG3	2.28	0.49
40:DF:45:ARG:HG2	40:DF:97:TYR:CG	2.47	0.49
35:DA:1276:A:H1'	48:DR:16:HIS:HE1	1.76	0.49
48:DR:41:ALA:C	48:DR:43:GLU:N	2.65	0.49
1:AA:1431:C:H42	1:AA:1469:G:H1	1.60	0.49
1:AA:1480:G:C2	1:AA:1481:U:C2	3.00	0.49
49:DS:72:ALA:O	49:DS:73:LEU:C	2.50	0.49
2:AB:69:LEU:HB2	2:AB:159:PRO:CG	2.42	0.49
44:BN:26:LEU:HG	44:BN:30:ILE:CD1	2.42	0.49
44:BN:61:ARG:HG3	44:BN:61:ARG:HH11	1.77	0.49
6:CF:10:LEU:HD21	6:CF:22:GLU:HB3	1.94	0.49
18:CR:37:VAL:CG2	18:CR:38:GLU:H	2.05	0.49
18:CR:43:PHE:H	18:CR:43:PHE:HD1	1.54	0.49
34:D8:2:PRO:C	34:D8:4:MET:H	2.15	0.49
35:DA:776:G:H4'	35:DA:777:A:O5'	2.11	0.49
35:DA:992:C:O3'	52:DV:75:PHE:CE2	2.65	0.49
35:DA:1190:G:O3'	46:DP:35:HIS:HB3	2.12	0.49
46:DP:47:ASP:HB2	46:DP:51:PHE:CD2	2.48	0.49
17:AQ:29:HIS:CA	17:AQ:36:ILE:HD11	2.42	0.49
4:AD:14:ARG:C	4:AD:16:GLY:H	2.16	0.49
1:CA:1494:G:C2	1:CA:1495:U:C6	3.01	0.49
35:DA:2019:A:N6	35:DA:2020:A:C6	2.81	0.49
44:DN:79:PRO:HG2	44:DN:80:GLY:H	1.77	0.49
25:CY:32:ARG:CB	25:CY:103:ILE:HD13	2.42	0.49
25:CY:140:LEU:HD21	25:CY:157:ALA:HB1	1.94	0.49
13:CM:117:VAL:CG1	13:CM:118:ALA:N	2.76	0.49
13:CM:97:PRO:O	13:CM:98:VAL:N	2.45	0.49
25:AY:29:ARG:HG3	25:AY:114:LEU:HD13	1.94	0.49
1:CA:564:C:C5	17:CQ:31:LEU:HD11	2.48	0.49
42:BH:18:GLU:HB3	42:BH:25:LYS:HD2	1.95	0.49
1:CA:640:A:C2'	1:CA:641:U:H5'	2.42	0.49
1:AA:1307:U:H2'	1:AA:1308:U:H6	1.74	0.49
13:AM:89:GLY:O	13:AM:92:HIS:HB2	2.13	0.49
25:CY:84:ARG:HE	25:CY:92:PRO:HD2	1.77	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:AH:21:LYS:CG	8:AH:22:GLU:N	2.75	0.49
8:CH:11:THR:CA	8:CH:14:ARG:HH12	2.25	0.49
35:DA:2319:G:OP1	35:DA:2319:G:H4'	2.12	0.49
35:DA:2206:G:H21	35:DA:2207:G:C5'	2.21	0.49
29:D3:54:VAL:CG1	29:D3:55:ARG:N	2.75	0.49
35:BA:1496:A:H8	35:BA:1577:C:O2'	1.95	0.49
40:DF:167:ALA:HB1	40:DF:173:VAL:CG1	2.42	0.49
17:AQ:47:PRO:HG2	17:AQ:48:GLU:OE2	2.12	0.49
13:AM:37:THR:O	13:AM:39:ILE:HG13	2.12	0.49
35:BA:2354:G:O2'	35:BA:2355:C:H5'	2.12	0.49
2:CB:24:TRP:O	2:CB:25:ASN:HB2	2.13	0.49
11:AK:127:LYS:O	11:AK:129:SER:N	2.42	0.49
35:BA:2814:C:H2'	35:BA:2815:C:C6	2.42	0.49
35:BA:202:U:O2'	35:BA:203:C:H5'	2.11	0.49
35:BA:203:C:H2'	35:BA:204:A:H8	1.78	0.49
53:DW:37:ARG:HG3	53:DW:37:ARG:NH1	2.25	0.49
57:DC:83:ILE:O	57:DC:83:ILE:HG22	2.12	0.49
37:BC:65:PRO:HG2	37:BC:189:ILE:CB	2.43	0.49
1:CA:1029:C:H1'	1:CA:1033:G:N1	2.28	0.49
8:AH:80:ILE:O	8:AH:80:ILE:HG22	2.12	0.49
50:DT:75:ILE:CD1	50:DT:75:ILE:N	2.76	0.49
38:BD:25:THR:CG2	38:BD:82:ILE:N	2.70	0.49
1:CA:865:A:H2	1:CA:918:A:H4'	1.77	0.49
35:DA:1824:G:OP1	38:DD:52:ARG:HD3	2.12	0.49
35:DA:1795:C:H1'	35:DA:1901:A:OP1	2.12	0.49
41:DG:160:VAL:CG1	41:DG:161:THR:N	2.74	0.49
41:DG:32:PRO:O	41:DG:172:LEU:HD11	2.13	0.49
34:B8:21:LYS:O	34:B8:23:VAL:HG23	2.12	0.49
47:DQ:20:ALA:CB	47:DQ:99:PRO:O	2.60	0.49
35:BA:2689:U:H4'	35:BA:2690:C:H6	1.77	0.49
45:BO:107:ARG:NH1	50:BT:36:GLU:N	2.60	0.49
39:BE:6:GLY:CA	39:BE:27:LEU:O	2.60	0.49
42:DH:113:VAL:HG21	42:DH:151:ILE:CG2	2.42	0.49
42:DH:89:ILE:CG1	42:DH:90:LYS:N	2.75	0.49
41:BG:55:LYS:O	41:BG:57:ALA:N	2.45	0.49
54:DX:30:VAL:O	54:DX:31:HIS:C	2.50	0.49
47:DQ:110:THR:OG1	47:DQ:113:GLN:HG3	2.12	0.49
56:DZ:71:VAL:HG13	56:DZ:88:PHE:CE2	2.48	0.49
51:DU:92:ARG:HG2	51:DU:92:ARG:O	2.12	0.49
49:BS:107:GLU:HG3	49:BS:108:GLY:N	2.27	0.49
49:BS:15:ARG:C	49:BS:17:ARG:N	2.65	0.49
49:BS:34:HIS:CD2	49:BS:53:SER:CB	2.94	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:CD:18:LYS:CE	4:CD:31:CYS:SG	3.01	0.49
47:BQ:101:ARG:HG3	47:BQ:101:ARG:HH11	1.76	0.49
35:BA:1227:G:O2'	35:BA:1228:G:H5'	2.12	0.49
35:BA:671:C:H5	46:BP:36:LYS:NZ	2.11	0.49
35:BA:795:C:H2'	35:BA:796:C:H6	1.74	0.49
40:BF:53:THR:O	40:BF:54:ARG:C	2.49	0.49
40:DF:125:LEU:HD12	40:DF:196:LEU:HD22	1.95	0.49
40:DF:1:MET:O	40:DF:2:LYS:C	2.50	0.49
35:BA:871:U:H4'	47:BQ:69:PHE:CE2	2.47	0.49
35:DA:2822:G:H2'	35:DA:2823:A:H5''	1.94	0.49
1:AA:59:A:H5'	1:AA:60:A:H5'	1.94	0.49
48:BR:49:ASP:O	48:BR:52:ILE:N	2.46	0.49
48:BR:56:LYS:NZ	48:BR:88:ARG:O	2.43	0.49
2:AB:157:ARG:HG2	2:AB:158:LEU:N	2.27	0.49
2:AB:165:VAL:O	2:AB:187:LEU:O	2.31	0.49
2:AB:187:LEU:HB2	2:AB:201:ILE:HB	1.95	0.49
44:BN:26:LEU:HD21	44:BN:30:ILE:HD11	1.94	0.49
46:DP:47:ASP:CB	46:DP:51:PHE:HB2	2.34	0.49
35:DA:686:G:N2	35:DA:788:A:N6	2.59	0.49
18:AR:76:LEU:HD22	18:AR:76:LEU:N	2.27	0.49
1:CA:1405:G:H1'	1:CA:1518:A:O2'	2.12	0.49
35:DA:2620:C:OP1	39:DE:152:LYS:O	2.30	0.49
3:AC:172:ARG:HB3	3:AC:174:PRO:HD3	1.93	0.49
16:AP:17:TYR:N	16:AP:17:TYR:CD1	2.80	0.49
1:CA:184:G:O4'	1:CA:224:C:H4'	2.13	0.49
35:BA:1410:G:C6	35:BA:1411:C:N4	2.80	0.49
35:BA:1608:A:O3'	35:BA:1609:A:H3'	2.13	0.49
8:CH:122:ARG:NH1	8:CH:122:ARG:HB2	2.27	0.49
55:BY:18:GLY:C	55:BY:20:TYR:H	2.15	0.49
11:AK:88:GLY:N	11:AK:91:ARG:HB2	2.27	0.49
5:AE:37:ARG:HG2	5:AE:37:ARG:HH11	1.77	0.49
25:CY:67:VAL:HB	25:CY:98:ALA:HB1	1.93	0.49
12:AL:119:LYS:H	12:AL:119:LYS:HD2	1.77	0.49
8:AH:86:ILE:CG1	8:AH:135:CYS:HA	2.39	0.49
9:AI:17:VAL:CG1	9:AI:81:ILE:HD13	2.43	0.49
1:CA:875:C:O2'	8:CH:14:ARG:NH1	2.46	0.49
48:BR:101:ALA:O	48:BR:102:GLU:HB2	2.12	0.49
35:DA:2119:A:C3'	35:DA:2120:G:H5''	2.43	0.49
35:BA:543:C:C4	35:BA:551:G:N1	2.81	0.49
35:BA:542:C:C2'	35:BA:543:C:OP1	2.60	0.49
35:BA:1613:G:C6	35:BA:1619:G:C6	3.00	0.49
38:DD:43:ARG:CB	38:DD:54:ARG:HB2	2.43	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:336:C:H4'	55:BY:7:VAL:CG1	2.42	0.49
38:DD:95:LEU:N	38:DD:95:LEU:HD12	2.27	0.49
32:B6:37:ARG:O	32:B6:48:VAL:O	2.30	0.49
35:DA:2014:A:C2	35:DA:2015:A:N1	2.81	0.49
35:BA:2704:C:H2'	35:BA:2705:A:O4'	2.13	0.49
7:CG:47:CYS:HB3	7:CG:58:PRO:HG3	1.95	0.49
32:B6:28:ARG:HG2	32:B6:28:ARG:HH11	1.77	0.49
29:D3:12:PRO:O	29:D3:14:GLY:N	2.45	0.49
1:CA:1469:G:H2'	1:CA:1470:G:C8	2.47	0.49
38:DD:176:ARG:HG2	38:DD:176:ARG:NH1	2.23	0.49
35:DA:1428:C:H41	35:DA:1569:A:H3'	1.76	0.49
17:AQ:82:MET:HA	17:AQ:85:VAL:CG2	2.43	0.49
35:BA:2545:G:N2	35:BA:2546:U:H1'	2.27	0.49
53:BW:20:VAL:HG21	53:BW:47:VAL:HG21	1.94	0.49
36:DB:83:G:C2	36:DB:84:C:C6	3.01	0.49
35:DA:1467:C:N4	35:DA:1525:G:H1	2.10	0.49
4:AD:80:GLU:HB3	4:AD:84:LYS:HZ1	1.77	0.49
35:DA:2408:U:C2	35:DA:2409:G:C8	3.00	0.49
36:BB:65:C:O2'	36:BB:66:A:H5'	2.12	0.49
35:BA:2762:G:H2'	35:BA:2763:G:C5'	2.42	0.49
1:AA:498:U:H2'	1:AA:499:A:C5'	2.41	0.49
1:CA:156:G:C2	1:CA:166:G:N1	2.80	0.49
1:AA:1287:A:H2	1:AA:1353:G:N3	2.10	0.49
35:DA:1434:A:O2'	35:DA:1435:G:H5'	2.13	0.49
36:BB:60:C:C2	36:BB:61:G:C8	3.00	0.49
35:BA:2838:G:N2	48:BR:93:GLY:HA3	2.27	0.49
35:DA:1854:A:H3'	35:DA:1855:G:C8	2.46	0.49
17:CQ:56:VAL:CG2	17:CQ:78:GLU:HG3	2.42	0.49
35:DA:737:C:C2'	35:DA:738:G:O5'	2.61	0.49
35:BA:820:A:O2'	35:BA:821:A:H5'	2.12	0.49
1:AA:788:U:C2	1:AA:789:U:C6	3.00	0.49
1:AA:1042:G:O2'	1:AA:1043:C:H5'	2.11	0.49
35:DA:2547:U:H2'	35:DA:2548:G:H8	1.77	0.49
4:CD:87:GLY:C	4:CD:89:THR:H	2.16	0.49
12:AL:104:VAL:O	12:AL:105:TYR:HB2	2.12	0.49
7:CG:133:GLY:O	7:CG:136:LYS:HB2	2.13	0.49
15:AO:43:LEU:C	15:AO:45:VAL:H	2.16	0.49
8:CH:80:ILE:HG22	8:CH:80:ILE:O	2.12	0.49
55:DY:45:VAL:HA	55:DY:62:GLU:CG	2.15	0.49
35:DA:2864:G:H2'	35:DA:2865:U:O4'	2.12	0.49
38:BD:211:ARG:O	38:BD:214:TRP:N	2.46	0.49
35:DA:1827:C:H2'	35:DA:1828:G:O4'	2.13	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:DD:262:ARG:O	38:DD:264:LYS:N	2.46	0.49
39:BE:9:VAL:HG23	39:BE:9:VAL:O	2.13	0.49
47:BQ:32:TYR:HA	47:BQ:132:VAL:O	2.12	0.49
39:BE:4:ILE:HD11	39:BE:28:ALA:HB1	1.94	0.49
51:BU:66:ASN:ND2	51:BU:70:ARG:NH2	2.38	0.49
51:BU:76:TYR:O	51:BU:80:ILE:HG12	2.13	0.49
19:AS:77:THR:OG1	19:AS:78:ARG:HD2	2.12	0.49
35:BA:2206:G:H21	35:BA:2207:G:C5'	2.22	0.49
2:AB:80:ILE:HG12	2:AB:211:ILE:HG21	1.95	0.49
41:BG:163:ALA:HB1	41:BG:168:GLU:HB2	1.95	0.49
41:BG:19:LEU:O	41:BG:23:PHE:N	2.45	0.49
28:D2:44:LEU:C	28:D2:46:GLN:N	2.61	0.49
54:DX:52:VAL:H	54:DX:80:ILE:HG22	1.77	0.49
47:DQ:134:ARG:C	47:DQ:136:ALA:H	2.16	0.49
19:CS:20:LEU:O	19:CS:23:ASN:HB3	2.12	0.49
4:CD:65:ARG:HH11	4:CD:72:GLU:CA	2.25	0.49
43:DI:77:LEU:HD21	43:DI:101:LEU:HD13	1.95	0.49
40:BF:45:ARG:HD2	40:BF:46:ARG:H	1.78	0.49
35:BA:598:G:C5'	46:BP:15:ARG:HD2	2.37	0.49
39:BE:133:LYS:N	39:BE:134:ILE:HD13	2.27	0.49
44:DN:97:ARG:O	44:DN:98:VAL:C	2.49	0.49
40:BF:62:ARG:NH2	40:BF:64:ILE:HA	2.28	0.49
40:DF:21:ALA:O	40:DF:23:ASP:N	2.46	0.49
35:BA:957:A:H5'	47:BQ:76:LYS:HG3	1.93	0.49
47:BQ:85:LYS:HG3	47:BQ:86:GLY:H	1.78	0.49
48:DR:21:TYR:OH	48:DR:43:GLU:HG2	2.12	0.49
35:BA:2822:G:OP2	39:BE:110:GLY:O	2.31	0.49
3:AC:52:LEU:O	3:AC:53:ALA:HB2	2.11	0.49
20:AT:26:ASN:HD22	20:AT:27:LYS:H	1.60	0.49
48:BR:44:LEU:HD13	48:BR:48:VAL:HG23	1.93	0.49
41:DG:28:VAL:O	41:DG:31:VAL:CG1	2.61	0.49
49:DS:17:ARG:HG3	49:DS:18:ILE:HD13	1.95	0.49
49:DS:90:GLY:C	49:DS:92:TYR:N	2.62	0.49
2:CB:164:VAL:HB	2:CB:186:ALA:HB2	1.95	0.49
35:DA:836:G:C5	35:DA:837:C:C4	2.99	0.49
40:DF:47:GLY:HA3	40:DF:95:ARG:O	2.12	0.49
46:DP:47:ASP:OD1	46:DP:50:ARG:HG3	2.12	0.49
55:DY:14:LEU:HD12	55:DY:15:VAL:N	2.18	0.49
35:DA:955:C:H5'	35:DA:956:G:OP2	2.13	0.49
35:BA:1214:A:H2'	35:BA:1215:G:C8	2.47	0.49
21:AU:18:TYR:HA	21:AU:22:ARG:HD3	1.94	0.49
16:AP:48:TRP:HE3	16:AP:49:LEU:HB3	1.76	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
51:BU:40:PHE:N	51:BU:40:PHE:HD2	2.08	0.49
25:AY:156:ARG:NH2	26:B0:6:ALA:CB	2.75	0.49
11:AK:62:GLN:O	11:AK:64:ALA:N	2.45	0.49
42:DH:41:MET:HE1	42:DH:55:PRO:HD2	1.95	0.49
12:AL:57:LYS:O	12:AL:58:VAL:HG23	2.13	0.49
8:CH:97:VAL:HG22	8:CH:98:LYS:N	2.28	0.49
55:BY:31:LEU:HB2	55:BY:36:ALA:N	2.23	0.49
11:AK:27:ASN:OD1	11:AK:28:THR:N	2.45	0.49
35:BA:848:G:H2'	35:BA:849:A:C8	2.47	0.49
8:AH:128:GLY:O	8:AH:129:VAL:HG13	2.12	0.49
1:AA:259:G:O2'	1:AA:260:G:H5'	2.13	0.49
1:CA:1342:C:H2'	1:CA:1343:G:C8	2.48	0.49
8:AH:7:ALA:O	8:AH:11:THR:N	2.32	0.49
12:CL:58:VAL:CG1	12:CL:59:ARG:N	2.76	0.49
31:D5:32:PRO:O	31:D5:33:CYS:CB	2.60	0.49
1:CA:1149:C:H2'	1:CA:1150:U:C6	2.43	0.49
33:D7:30:VAL:CG1	33:D7:33:ARG:HH22	2.25	0.49
1:AA:447:G:N2	1:AA:488:C:N4	2.59	0.49
38:DD:193:VAL:HG13	38:DD:193:VAL:O	2.12	0.49
11:CK:21:ILE:CD1	11:CK:21:ILE:N	2.70	0.49
11:CK:21:ILE:CD1	11:CK:82:VAL:HG13	2.37	0.49
35:DA:2321:G:N3	35:DA:2321:G:H2'	2.27	0.49
1:CA:1490:C:O2'	1:CA:1491:G:H5'	2.12	0.49
35:BA:2830:G:H5'	39:BE:58:ARG:CZ	2.43	0.49
39:DE:167:VAL:CG2	39:DE:168:MET:N	2.75	0.49
35:DA:2704:C:H2'	35:DA:2705:A:O4'	2.12	0.49
35:DA:1248:G:H2'	51:DU:2:PRO:O	2.12	0.49
35:DA:445:C:H5''	51:DU:3:ARG:HB3	1.94	0.49
35:BA:376:C:O2'	35:BA:377:C:H5'	2.12	0.49
35:BA:271(V):G:C2	35:BA:271(W):G:H1'	2.48	0.49
3:CC:105:GLU:CG	3:CC:106:VAL:H	2.17	0.49
1:AA:390:C:O5'	1:AA:390:C:H6	1.96	0.49
35:DA:1786:A:C6	35:DA:1938:A:N7	2.80	0.49
1:AA:645:C:H2'	1:AA:646:U:C6	2.47	0.49
38:DD:257:LEU:HD23	38:DD:258:LYS:O	2.12	0.49
24:CX:16:U:H2'	24:CX:17:U:C5	2.48	0.49
36:DB:79:C:C2'	36:DB:80:U:H5'	2.42	0.49
23:AW:23:G:O2'	23:AW:24:C:H5''	2.11	0.49
6:CF:83:ASP:O	6:CF:85:VAL:N	2.44	0.49
43:BI:58:LEU:O	43:BI:58:LEU:HD23	2.12	0.49
53:BW:26:GLY:H	53:BW:71:VAL:CG1	2.25	0.49
53:DW:70:TYR:CE2	53:DW:108:GLY:HA3	2.45	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:358:U:H2'	1:AA:359:U:C6	2.47	0.49
23:AW:53:G:N2	23:AW:54:G:N7	2.61	0.49
35:DA:1853:A:N6	35:DA:1889:A:C8	2.80	0.49
35:BA:1210:A:O2'	35:BA:1211:U:OP2	2.25	0.49
53:DW:34:ASN:HA	53:DW:37:ARG:HB3	1.93	0.49
29:B3:36:VAL:HG23	29:B3:36:VAL:O	2.12	0.49
51:DU:24:TYR:HB2	51:DU:29:SER:OG	2.13	0.49
35:BA:371:A:C4	35:BA:373:U:C4	3.01	0.49
1:AA:788:U:H2'	1:AA:789:U:H6	1.78	0.49
37:BC:56:GLN:HB2	37:BC:168:THR:HA	1.94	0.49
50:DT:58:ASN:N	50:DT:58:ASN:ND2	2.60	0.49
20:CT:58:LYS:HE3	20:CT:62:LEU:CD1	2.42	0.49
35:DA:2366:A:H2'	35:DA:2367:G:O4'	2.12	0.49
7:AG:133:GLY:O	7:AG:136:LYS:HB2	2.13	0.49
56:BZ:75:ASN:O	56:BZ:84:GLU:N	2.45	0.49
9:AI:6:GLY:HA3	9:AI:84:ALA:N	2.27	0.49
35:BA:11:G:O2'	35:BA:12:U:H5'	2.13	0.49
53:BW:29:LEU:HD23	53:BW:29:LEU:C	2.33	0.49
35:DA:2714:G:H5''	35:DA:2714:G:H8	1.77	0.49
35:BA:1788:C:C2	35:BA:1789:A:C8	3.01	0.49
35:BA:1791:A:OP2	35:BA:1791:A:H8	1.95	0.49
38:BD:92:ILE:C	38:BD:92:ILE:HD12	2.33	0.49
35:DA:1817:G:C2'	35:DA:1818:U:H5'	2.41	0.49
38:DD:96:HIS:HA	38:DD:102:LYS:HG2	1.93	0.49
35:DA:2306:C:H5'	35:DA:2307:G:O5'	2.12	0.49
32:B6:27:LYS:HG3	35:BA:2286:A:OP2	2.11	0.49
35:BA:2682:U:O2	39:BE:22:PRO:HB3	2.12	0.49
45:BO:43:VAL:C	45:BO:45:GLU:H	2.16	0.49
45:BO:44:LYS:O	45:BO:45:GLU:HB3	2.12	0.49
47:BQ:134:ARG:NH1	56:BZ:119:GLU:OE2	2.45	0.49
35:DA:2052:G:N2	39:DE:149:ARG:HA	2.28	0.49
52:BV:22:VAL:HB	52:BV:94:LEU:CB	2.39	0.49
28:B2:25:VAL:O	28:B2:29:LYS:HG3	2.12	0.49
28:B2:47:ASN:HA	28:B2:51:ARG:HB3	1.95	0.49
39:DE:60:ASN:O	39:DE:61:ARG:C	2.51	0.49
41:BG:37:VAL:HG13	41:BG:158:ALA:O	2.13	0.49
35:DA:2476:A:C2	35:DA:2477:C:C6	3.01	0.49
44:DN:41:ASP:N	51:DU:64:ARG:NH1	2.53	0.49
35:DA:2596:U:H2'	35:DA:2597:G:O4'	2.12	0.49
35:DA:2346:A:C2	35:DA:2383:G:N3	2.81	0.49
49:BS:66:ALA:O	49:BS:67:ARG:HB2	2.12	0.49
4:CD:149:ALA:O	4:CD:150:GLU:C	2.51	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:CD:154:ASN:HA	4:CD:159:ARG:HE	1.76	0.49
4:CD:158:ILE:O	4:CD:162:LEU:HG	2.13	0.49
4:CD:79:PHE:CD2	4:CD:79:PHE:C	2.86	0.49
40:BF:112:MET:O	40:BF:113:ALA:C	2.51	0.49
35:BA:442:G:C4'	40:BF:46:ARG:HD3	2.43	0.49
40:BF:31:HIS:HB2	46:BP:13:ASN:OD1	2.12	0.49
46:DP:70:GLN:HG3	46:DP:71:VAL:HG12	1.94	0.49
46:DP:70:GLN:HG3	46:DP:71:VAL:N	2.28	0.49
5:CE:50:GLU:CD	5:CE:51:VAL:H	2.16	0.49
34:D8:30:ARG:HG2	35:DA:2393:A:H5''	1.95	0.49
35:DA:1141:U:C5'	35:DA:1142(A):A:O4'	2.60	0.49
46:BP:51:PHE:O	46:BP:52:GLU:HB2	2.12	0.49
40:DF:41:LEU:HD11	40:DF:184:TYR:CE1	2.42	0.49
55:BY:87:LYS:C	55:BY:88:LYS:HD2	2.32	0.49
35:DA:1286:A:OP1	48:DR:105:ARG:HD2	2.13	0.49
48:DR:2:ARG:NE	48:DR:5:LYS:NZ	2.60	0.49
48:DR:34:ILE:HG22	48:DR:35:THR:N	2.28	0.49
3:AC:47:LEU:CD2	3:AC:52:LEU:HD13	2.43	0.49
35:BA:1278:A:OP1	48:BR:36:THR:HG22	2.12	0.49
35:BA:1639:U:H2'	35:BA:1640:C:C5'	2.40	0.49
2:AB:82:ARG:HA	2:AB:92:TYR:CE1	2.48	0.49
27:D1:37:ILE:HD12	35:DA:2080:G:OP1	2.12	0.49
44:DN:61:ARG:HH11	44:DN:61:ARG:HG3	1.76	0.49
44:BN:54:VAL:HB	44:BN:122:VAL:HG22	1.94	0.49
15:CO:37:ASN:N	15:CO:37:ASN:ND2	2.57	0.49
35:DA:1259:G:H2'	35:DA:1260:G:H8	1.76	0.49
35:DA:811:U:O2	35:DA:1251:C:C6	2.65	0.49
52:DV:72:VAL:O	52:DV:73:SER:CB	2.60	0.49
4:AD:104:VAL:O	4:AD:107:ARG:HB2	2.12	0.49
4:AD:96:LEU:C	4:AD:98:GLU:N	2.65	0.49
4:AD:202:LEU:O	4:AD:203:VAL:C	2.51	0.49
4:AD:62:GLN:O	4:AD:63:LYS:C	2.51	0.49
47:DQ:71:ASP:N	47:DQ:94:VAL:O	2.38	0.49
47:BQ:50:ALA:O	47:BQ:54:MET:HB2	2.12	0.49
25:CY:16:LYS:O	25:CY:18:LEU:N	2.45	0.49
25:CY:9:GLU:O	25:CY:13:HIS:ND1	2.45	0.49
25:AY:172:ALA:O	25:AY:173:ASP:C	2.50	0.49
35:DA:1591:G:C2'	35:DA:1592:C:H5'	2.43	0.49
35:BA:2246:G:N2	35:BA:2426:A:H1'	2.26	0.49
35:DA:623:G:H2'	35:DA:624:C:C6	2.47	0.49
46:DP:14:LYS:O	46:DP:15:ARG:HB2	2.13	0.49
43:DI:10:GLU:OE1	43:DI:11:ASN:N	2.46	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
18:AR:63:GLN:OE1	18:AR:63:GLN:HA	2.12	0.49
1:CA:586:C:H1'	1:CA:878:G:O2'	2.12	0.49
8:CH:8:ASP:O	8:CH:12:ARG:HG3	2.12	0.49
35:DA:2124:G:C2'	35:DA:2125:G:H5'	2.43	0.49
5:AE:149:GLU:C	5:AE:151:LEU:N	2.65	0.49
1:AA:1349:A:OP2	9:AI:118:LYS:NZ	2.45	0.49
12:CL:90:VAL:CG1	12:CL:93:LEU:HG	2.43	0.49
46:DP:83:VAL:HG13	46:DP:83:VAL:O	2.13	0.49
3:AC:107:GLN:N	3:AC:107:GLN:CD	2.65	0.49
35:BA:2732:G:O2'	35:BA:2733:A:H5'	2.11	0.49
39:BE:103:ASP:CG	39:BE:201:THR:HA	2.33	0.49
44:BN:93:THR:C	44:BN:94:HIS:CG	2.85	0.49
1:AA:1055:A:C2	1:AA:1056:U:H1'	2.48	0.49
35:BA:1504:C:O2'	35:BA:1505:C:C5'	2.61	0.49
5:AE:78:HIS:CD2	8:AH:104:ARG:NE	2.80	0.49
20:CT:14:LYS:HE3	20:CT:18:GLN:HE21	1.78	0.49
4:AD:128:VAL:CG1	4:AD:129:ASN:N	2.72	0.49
1:CA:472:A:H4'	16:CP:82:GLN:HE22	1.78	0.49
32:D6:28:ARG:HG2	32:D6:28:ARG:HH11	1.77	0.49
38:DD:31:LYS:HZ2	38:DD:31:LYS:HA	1.75	0.49
17:AQ:86:GLU:HB3	17:AQ:90:ILE:HG12	1.95	0.49
2:CB:20:GLU:OE1	2:CB:20:GLU:HA	2.13	0.49
35:DA:285:C:H2'	35:DA:286:C:C4'	2.42	0.49
41:DG:166:ASP:O	41:DG:170:ARG:N	2.44	0.49
45:DO:87:ILE:HG13	45:DO:91:LEU:CD1	2.42	0.49
35:DA:184:C:H2'	35:DA:185:U:H6	1.76	0.49
35:DA:2292:C:H2'	35:DA:2293:C:C6	2.48	0.49
1:CA:498:U:C2'	1:CA:499:A:H5'	2.41	0.49
4:CD:194:LEU:N	4:CD:194:LEU:CD2	2.75	0.49
20:CT:53:LEU:O	20:CT:54:LYS:C	2.50	0.49
10:CJ:78:ASN:C	10:CJ:80:LYS:N	2.63	0.49
1:AA:1293:G:O2'	1:AA:1294:G:H8	1.96	0.49
35:DA:1532:C:O2	35:DA:1532:C:H2'	2.12	0.49
35:BA:884:C:H4'	35:BA:892:G:N7	2.28	0.49
39:DE:2:LYS:NZ	39:DE:95:ILE:O	2.31	0.49
40:BF:7:TYR:HB3	40:BF:16:GLY:C	2.33	0.49
1:CA:447:G:N2	1:CA:488:C:N4	2.60	0.49
35:BA:2024:G:H2'	35:BA:2025:C:C6	2.47	0.49
35:BA:1910:G:O2'	35:BA:1911:U:H5'	2.12	0.49
57:DC:56:GLN:HB2	57:DC:168:THR:HA	1.95	0.49
35:BA:2650:U:H2'	35:BA:2651:C:C6	2.48	0.49
35:BA:151:C:H2'	35:BA:152:G:C8	2.48	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:782:A:N6	1:AA:801:U:C6	2.81	0.49
1:CA:163:C:O2'	1:CA:164:U:H5'	2.12	0.49
35:BA:859:G:H5'	35:BA:2268:A:O2'	2.12	0.49
35:DA:1166:C:H2'	35:DA:1167:U:C6	2.47	0.49
3:AC:30:ARG:HD2	14:AN:38:GLY:HA3	1.94	0.49
5:CE:60:TYR:HE2	5:CE:64:ARG:HE	1.60	0.49
1:AA:482:A:H3'	1:AA:483:C:C6	2.48	0.49
43:BI:120:ILE:O	43:BI:121:LYS:HB3	2.12	0.49
35:BA:1902:C:O2'	38:BD:244:ARG:HB2	2.12	0.49
38:BD:65:ILE:HD11	38:BD:67:PHE:CD1	2.47	0.49
35:DA:1790:C:H5''	35:DA:1791:A:OP1	2.13	0.49
35:DA:1814:G:H2'	35:DA:1815:A:C8	2.48	0.49
38:DD:25:THR:HG21	38:DD:82:ILE:N	2.27	0.49
41:DG:48:GLU:O	41:DG:49:ASP:CB	2.61	0.49
34:B8:34:TRP:HZ3	34:B8:41:ILE:HG23	1.78	0.49
35:BA:2677:G:C4	35:BA:2678:C:C5	3.00	0.49
35:BA:2684:U:H2'	35:BA:2685:G:O4'	2.12	0.49
35:BA:2864:G:H2'	35:BA:2865:U:O4'	2.13	0.49
39:BE:11:MET:N	50:BT:8:LYS:HE3	2.27	0.49
35:DA:2569:G:C2	35:DA:2570:G:C8	3.01	0.49
39:DE:116:VAL:HG22	39:DE:117:MET:H	1.78	0.49
35:BA:2892:A:N6	35:BA:2893:G:H21	2.11	0.49
51:BU:108:GLU:HA	51:BU:111:GLU:HG2	1.95	0.49
52:BV:18:LEU:HA	52:BV:97:LYS:NZ	2.28	0.49
28:B2:24:LEU:HD11	28:B2:28:LYS:NZ	2.28	0.49
35:BA:71:A:H4'	35:BA:72:U:C5'	2.42	0.49
39:DE:197:ILE:HG13	39:DE:199:ARG:NH1	2.24	0.49
2:AB:213:LEU:O	2:AB:217:ARG:HG2	2.12	0.49
56:DZ:14:LYS:C	56:DZ:16:SER:N	2.66	0.49
56:DZ:58:VAL:O	56:DZ:58:VAL:HG12	2.13	0.49
35:DA:998:C:H42	35:DA:1157:G:H1	1.60	0.49
51:DU:98:LEU:C	51:DU:100:VAL:N	2.65	0.49
4:CD:108:LEU:O	4:CD:110:PHE:HD1	1.95	0.49
47:BQ:20:ALA:CB	47:BQ:98:LYS:HB3	2.43	0.49
35:BA:1024:G:H8	35:BA:1024:G:O5'	1.95	0.49
3:CC:150:LYS:HA	3:CC:169:ALA:HB2	1.93	0.49
35:BA:612:C:H2'	35:BA:613:G:O4'	2.12	0.49
40:BF:184:TYR:HD2	40:BF:185:ASP:N	2.11	0.49
40:BF:117:ARG:NH2	40:BF:189:THR:O	2.46	0.49
40:BF:99:TYR:CG	40:BF:99:TYR:O	2.66	0.49
35:BA:2574:G:O2'	39:BE:143:ASN:HB3	2.13	0.49
44:DN:71:ILE:HD13	44:DN:86:PRO:HA	1.94	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:942:G:H1'	35:BA:1189:A:H2	1.78	0.49
35:BA:1255:U:H5''	35:BA:1256:G:H5''	1.92	0.49
35:BA:589:C:H42	35:BA:668:G:H1	1.60	0.49
35:BA:990:A:C6	35:BA:1186:G:H1'	2.48	0.49
35:BA:300:A:H5''	55:BY:97:ARG:NH1	2.27	0.49
35:BA:1276:A:H1'	48:BR:16:HIS:HE1	1.78	0.49
50:BT:106:SER:O	50:BT:107:ASP:CB	2.61	0.49
27:D1:23:LYS:HZ3	27:D1:23:LYS:HA	1.76	0.49
15:CO:85:LEU:HB2	15:CO:87:ILE:HD11	1.94	0.49
35:DA:814:C:H2'	35:DA:815:C:H6	1.78	0.49
1:AA:1320:C:H5'	19:AS:70:LYS:CE	2.43	0.49
35:DA:307:G:H21	35:DA:330:A:H62	1.61	0.49
17:AQ:32:TYR:O	17:AQ:34:LYS:N	2.45	0.49
1:CA:1401:G:H2'	1:CA:1402:C:C5'	2.43	0.49
1:CA:570:G:C6	1:CA:873:A:N1	2.81	0.49
42:DH:17:VAL:HB	42:DH:45:VAL:HG22	1.94	0.49
2:AB:112:VAL:C	2:AB:115:LEU:HB3	2.29	0.49
1:AA:939:G:H2'	1:AA:940:C:H6	1.77	0.49
25:CY:2:THR:CG2	25:CY:4:LYS:HB3	2.42	0.49
43:BI:38:LEU:N	43:BI:38:LEU:HD12	2.10	0.49
25:AY:29:ARG:HA	25:AY:32:ARG:NE	2.28	0.49
35:BA:1131:G:H1'	35:BA:1132:A:H8	1.77	0.49
35:DA:2248:C:H3'	35:DA:2249:U:H6	1.78	0.49
35:DA:1591:G:O2'	35:DA:1592:C:H5'	2.13	0.49
42:DH:40:GLU:O	42:DH:41:MET:HB2	2.12	0.49
42:DH:67:LEU:C	42:DH:71:LEU:HD22	2.32	0.49
7:AG:79:ARG:HH11	7:AG:79:ARG:HG3	1.78	0.49
1:CA:1108:G:N3	1:CA:1108:G:H2'	2.27	0.49
1:AA:1396:A:O4'	1:AA:1398:A:H1'	2.13	0.49
5:AE:33:VAL:CG2	5:AE:43:LEU:HD13	2.35	0.49
9:AI:87:GLN:C	9:AI:89:ASN:H	2.16	0.49
35:BA:2538:C:HO2'	35:BA:2539:C:H5'	1.76	0.49
31:D5:40:LYS:CE	31:D5:46:CYS:N	2.70	0.49
31:B5:40:LYS:NZ	31:B5:46:CYS:H	2.10	0.49
12:AL:55:VAL:O	12:AL:56:ALA:HB2	2.12	0.49
1:AA:1350:A:H2'	1:AA:1351:U:C6	2.48	0.49
35:BA:626:U:C2	46:BP:105:LEU:HG	2.47	0.49
44:DN:93:THR:C	44:DN:94:HIS:CG	2.85	0.49
23:AW:49:C:C2'	23:AW:60:A:H4'	2.43	0.49
12:AL:41:ARG:NH1	12:AL:41:ARG:HB3	2.20	0.49
26:D0:29:GLN:O	26:D0:66:VAL:HA	2.13	0.49
32:D6:15:GLU:CG	32:D6:15:GLU:O	2.58	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:CC:178:LEU:HD22	3:CC:178:LEU:H	1.78	0.49
5:CE:8:GLU:CA	5:CE:34:VAL:HG22	2.39	0.49
13:CM:54:VAL:O	13:CM:58:GLU:N	2.45	0.49
1:AA:338:A:H2'	1:AA:339:C:C6	2.47	0.49
15:AO:53:HIS:O	15:AO:56:LEU:N	2.45	0.49
35:DA:433:C:H2'	35:DA:434:U:C6	2.48	0.49
17:CQ:92:ARG:O	17:CQ:94:ASN:N	2.45	0.49
46:BP:59:LEU:HA	46:BP:61:ARG:CD	2.43	0.49
35:BA:1465:G:C4'	35:BA:1528:A:H8	2.25	0.49
35:BA:1465:G:H5'	35:BA:1528:A:H8	1.78	0.49
45:BO:13:ASN:HD21	45:BO:96:THR:H	1.59	0.49
56:BZ:139:VAL:HG12	56:BZ:141:VAL:H	1.78	0.49
44:BN:13:TRP:H	44:BN:13:TRP:HD1	1.59	0.49
7:AG:15:ASP:HB2	7:AG:23:VAL:HB	1.95	0.49
35:DA:602:G:H2'	35:DA:602:G:N3	2.27	0.49
7:AG:42:ILE:HG23	7:AG:117:ALA:CA	2.42	0.49
7:AG:42:ILE:HG23	7:AG:117:ALA:CB	2.43	0.49
35:DA:838:C:N4	35:DA:940:G:H1	2.10	0.49
1:AA:163:C:O2'	1:AA:164:U:H5'	2.13	0.49
57:DC:99:ILE:HG23	57:DC:103:ILE:CB	2.43	0.49
26:D0:20:ARG:CD	26:D0:20:ARG:N	2.76	0.49
2:AB:118:LEU:HD11	2:AB:141:GLU:OE1	2.13	0.49
33:B7:37:LYS:HG3	35:BA:458:G:C8	2.47	0.49
35:BA:2336:A:H3'	35:BA:2337:G:H8	1.78	0.49
34:D8:5:LYS:N	34:D8:5:LYS:HD2	2.27	0.49
1:AA:1338:G:O2'	1:AA:1339:A:H5'	2.13	0.49
35:DA:2676:C:O2'	35:DA:2677:G:H5'	2.13	0.49
38:BD:27:THR:HG21	38:BD:83:GLU:CG	2.28	0.49
1:CA:16:A:N1	1:CA:919:A:C2	2.81	0.49
1:CA:863:U:H2'	1:CA:865:A:OP2	2.13	0.49
38:DD:264:LYS:CE	38:DD:266:SER:HB2	2.43	0.49
45:BO:1:MET:HE2	45:BO:1:MET:H3	1.78	0.49
56:BZ:58:VAL:CA	56:BZ:68:PRO:HA	2.42	0.49
56:BZ:60:GLU:HA	56:BZ:66:SER:CB	2.41	0.49
1:AA:1069:C:O2'	1:AA:1192:C:H1'	2.12	0.49
52:BV:19:LYS:NZ	52:BV:20:LEU:N	2.56	0.49
42:DH:103:LEU:HG	42:DH:105:LEU:CD1	2.43	0.49
1:AA:972:C:C5'	10:AJ:57:LYS:HG3	2.43	0.49
28:D2:12:GLU:O	28:D2:14:ARG:CD	2.61	0.49
28:D2:32:LEU:HG	28:D2:33:MET:SD	2.52	0.49
35:DA:61:G:C2'	35:DA:62:C:H5'	2.43	0.49
54:DX:46:ALA:C	54:DX:47:PHE:CD1	2.86	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:BH:113:VAL:HG21	42:BH:151:ILE:CG2	2.43	0.49
47:DQ:141:GLN:HE21	56:DZ:72:ARG:CA	2.23	0.49
51:DU:79:PHE:O	51:DU:83:LEU:HD13	2.12	0.49
35:BA:1493:C:C2'	35:BA:1493:C:O2	2.61	0.49
49:BS:28:VAL:N	49:BS:89:ARG:HG2	2.28	0.49
49:BS:46:VAL:HG12	49:BS:47:THR:N	2.27	0.49
4:CD:150:GLU:HG2	4:CD:151:LYS:H	1.77	0.49
4:CD:65:ARG:HB2	4:CD:75:PHE:CZ	2.48	0.49
35:DA:2640:G:H5'	35:DA:2640:G:H8	1.78	0.49
40:BF:121:GLY:O	40:BF:123:LEU:N	2.46	0.49
25:AY:70:SER:CB	25:AY:76:LEU:HB2	2.42	0.49
27:D1:72:GLU:O	27:D1:76:ARG:NH1	2.46	0.49
27:D1:89:GLU:HG2	27:D1:90:ILE:CD1	2.42	0.49
27:D1:89:GLU:O	27:D1:93:GLU:CD	2.50	0.49
48:DR:28:LEU:C	48:DR:28:LEU:HD13	2.32	0.49
48:DR:60:LEU:O	48:DR:63:ARG:N	2.46	0.49
20:AT:73:HIS:C	20:AT:74:LYS:HD3	2.33	0.49
35:BA:1277:G:H2'	35:BA:1278:A:C8	2.48	0.49
48:BR:56:LYS:HE2	48:BR:94:TYR:CE2	2.48	0.49
49:DS:83:LYS:HA	49:DS:104:GLY:CA	2.40	0.49
44:DN:31:ALA:O	44:DN:32:THR:C	2.51	0.49
1:CA:659:U:H2'	1:CA:660:G:C8	2.48	0.49
35:DA:2442:C:O2'	35:DA:2443:C:H5'	2.12	0.49
46:DP:39:LYS:C	46:DP:41:ARG:N	2.66	0.49
35:DA:869:G:H1'	47:DQ:8:LYS:HZ3	1.75	0.49
18:AR:34:TYR:O	18:AR:35:ARG:HG2	2.12	0.49
1:CA:777:A:H2'	1:CA:778:G:H8	1.77	0.49
35:DA:2030:A:H5''	35:DA:2031:A:OP1	2.13	0.49
35:DA:32:C:H42	35:DA:473:G:H1	1.60	0.49
21:CU:18:TYR:HA	21:CU:22:ARG:HD3	1.95	0.49
43:BI:36:ALA:O	43:BI:37:VAL:HG23	2.13	0.49
13:CM:112:GLY:C	13:CM:113:PRO:HG2	2.33	0.49
42:DH:18:GLU:CB	42:DH:25:LYS:HD2	2.43	0.49
35:BA:1659:U:OP2	39:BE:132:HIS:CE1	2.66	0.49
25:AY:29:ARG:NH2	25:AY:88:LEU:HA	2.28	0.49
25:AY:126:ARG:HA	25:AY:169:ILE:CD1	2.43	0.49
37:BC:44:HIS:HD2	37:BC:175:VAL:CA	2.26	0.49
11:AK:58:PRO:HA	11:AK:90:GLY:HA3	1.95	0.49
35:BA:769:G:H4'	35:BA:1379:A:N1	2.27	0.49
8:CH:114:THR:HG21	8:CH:119:LEU:HD21	1.95	0.49
20:CT:73:HIS:C	20:CT:74:LYS:HD3	2.32	0.49
2:CB:97:TRP:HH2	2:CB:176:GLU:CB	2.25	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:613:G:C6	35:DA:615:G:O6	2.66	0.49
40:DF:39:TRP:CB	40:DF:101:LEU:HD22	2.42	0.49
20:AT:97:ALA:O	20:AT:99:LEU:N	2.42	0.49
2:CB:115:LEU:HA	2:CB:145:LEU:HD11	1.95	0.49
1:CA:1350:A:H2'	1:CA:1351:U:C6	2.48	0.49
8:AH:47:GLY:O	8:AH:62:TYR:N	2.36	0.49
8:CH:27:PRO:O	8:CH:32:LYS:NZ	2.41	0.49
48:BR:101:ALA:HB1	53:BW:38:TYR:HE1	1.78	0.49
35:DA:773:U:H4'	38:DD:47:GLY:HA2	1.94	0.49
1:CA:376:G:O2'	1:CA:377:G:H5'	2.13	0.49
54:BX:26:TYR:H	54:BX:26:TYR:HD1	1.61	0.49
35:BA:2591:C:P	38:BD:239:ARG:HG3	2.53	0.49
38:DD:117:VAL:CG2	38:DD:118:VAL:H	2.24	0.49
2:AB:100:GLY:O	2:AB:104:ASN:N	2.46	0.49
35:DA:2250:G:H8	35:DA:2496:C:H5''	1.77	0.49
35:DA:375:C:H2'	35:DA:376:C:C6	2.48	0.49
1:AA:1459:C:H2'	1:AA:1460:A:O4'	2.12	0.49
1:CA:199:G:H2'	1:CA:200:G:H8	1.77	0.49
35:BA:2170:A:H5'	35:BA:2171:A:OP2	2.13	0.49
5:AE:82:VAL:CG2	5:AE:138:ALA:HA	2.39	0.49
5:AE:72:GLN:HE22	5:AE:77:PRO:CD	2.24	0.49
5:AE:80:ILE:CD1	5:AE:91:LEU:HB2	2.43	0.49
5:AE:89:ILE:HG12	5:AE:90:VAL:N	2.26	0.49
7:CG:50:ILE:HG21	7:CG:61:VAL:HG21	1.94	0.49
43:DI:54:GLN:OE1	43:DI:54:GLN:C	2.51	0.49
54:BX:62:LYS:CB	54:BX:69:TYR:H	2.26	0.49
12:AL:21:LYS:HD2	12:AL:21:LYS:N	2.21	0.49
1:CA:665:A:C2'	1:CA:725:G:N2	2.72	0.49
1:AA:596:C:H2'	1:AA:596:C:O2	2.13	0.49
26:B0:36:ILE:HG13	26:B0:36:ILE:O	2.11	0.49
35:BA:862:G:H3'	35:BA:863:A:H8	1.78	0.49
35:BA:917:A:H2'	35:BA:918:A:O4'	2.12	0.49
25:AY:73:GLN:HG3	25:AY:74:ASN:OD1	2.12	0.49
54:BX:14:SER:O	54:BX:17:ALA:N	2.45	0.49
17:AQ:82:MET:HA	17:AQ:85:VAL:HG23	1.95	0.49
17:AQ:86:GLU:HA	17:AQ:89:LEU:HB3	1.94	0.49
35:BA:2543:G:H2'	35:BA:2544:G:H8	1.75	0.49
48:DR:6:SER:HA	48:DR:8:ARG:HH21	1.78	0.49
29:D3:52:HIS:CD2	36:DB:83:G:C4'	2.95	0.49
17:CQ:86:GLU:HB3	17:CQ:90:ILE:HG12	1.93	0.49
53:DW:5:ALA:HB1	53:DW:50:VAL:HG22	1.95	0.49
35:BA:2880:C:O3'	48:BR:90:ARG:NH1	2.44	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:334:C:C2'	1:CA:335:C:H5'	2.42	0.49
23:CW:43:G:C3'	23:CW:44:A:H5''	2.43	0.49
35:BA:694:U:C2'	35:BA:695:G:O5'	2.61	0.49
35:DA:1515:G:H2'	35:DA:1516:C:H5'	1.93	0.49
35:DA:1516:C:H2'	35:DA:1517:G:H8	1.77	0.49
1:AA:648:A:H2'	1:AA:649:G:C8	2.47	0.49
29:B3:26:LEU:O	29:B3:27:GLY:C	2.50	0.49
3:AC:60:ALA:CB	3:AC:63:ASN:HD21	2.25	0.49
46:BP:138:LEU:O	46:BP:138:LEU:HD22	2.12	0.49
43:BI:82:ARG:HG3	43:BI:82:ARG:NH1	2.27	0.49
35:DA:66:C:O2'	35:DA:67:U:H5'	2.12	0.49
1:AA:574:A:N3	1:AA:883:C:H1'	2.28	0.49
35:BA:1360:A:C6	35:BA:1372:U:C5	3.00	0.49
1:CA:189(B):C:H2'	1:CA:189(C):C:C6	2.48	0.49
1:CA:838:G:O2'	1:CA:839:U:H5''	2.13	0.49
4:AD:52:SER:OG	4:AD:55:ALA:N	2.38	0.49
57:DC:64:LEU:HD12	57:DC:66:HIS:HB2	1.95	0.49
35:DA:2854:G:H1	35:DA:2863:C:H42	1.61	0.49
10:CJ:50:ILE:HD11	14:CN:41:ARG:CD	2.38	0.49
10:CJ:55:LYS:O	10:CJ:56:HIS:CG	2.66	0.49
35:BA:1567:A:H3'	38:BD:86:PRO:HG3	1.94	0.49
38:BD:264:LYS:CE	38:BD:266:SER:HB2	2.43	0.49
5:CE:130:ASN:O	5:CE:131:ILE:C	2.49	0.49
35:DA:1800:C:C4	35:DA:1818:U:O2	2.66	0.49
41:DG:114:ILE:HD12	41:DG:117:PHE:CG	2.48	0.49
41:DG:131:TYR:CD1	41:DG:132:ASN:N	2.81	0.49
47:DQ:20:ALA:HA	47:DQ:98:LYS:HD3	1.94	0.49
45:BO:71:ARG:NH1	45:BO:71:ARG:HG3	2.28	0.49
45:BO:77:ILE:HD11	50:BT:72:VAL:HG13	1.95	0.49
47:BQ:25:ASP:CB	47:BQ:67:ARG:HH22	2.26	0.49
56:BZ:121:HIS:C	56:BZ:123:ASP:H	2.16	0.49
56:BZ:129:SER:C	56:BZ:131:ARG:H	2.15	0.49
56:BZ:73:GLN:O	56:BZ:87:ASP:OD1	2.31	0.49
39:BE:60:ASN:O	39:BE:63:LEU:N	2.45	0.49
51:BU:98:LEU:HD22	52:BV:2:PHE:HZ	1.78	0.49
52:BV:69:LYS:HB2	52:BV:93:GLU:OE2	2.13	0.49
1:AA:961:U:OP2	1:AA:1223:C:H4'	2.13	0.49
1:AA:972:C:OP2	10:AJ:57:LYS:HE2	2.13	0.49
28:B2:14:ARG:HD2	28:B2:57:ILE:HD12	1.95	0.49
28:B2:53:LEU:HA	28:B2:56:GLN:HG3	1.95	0.49
54:BX:83:VAL:C	54:BX:85:PRO:HD3	2.33	0.49
39:DE:181:LEU:O	39:DE:182:LEU:CB	2.60	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:DE:78:LEU:C	39:DE:79:ARG:HD2	2.34	0.49
57:DC:50:ASP:O	57:DC:52:ARG:N	2.45	0.49
27:B1:71:TYR:CE1	43:BI:27:ARG:HG3	2.48	0.49
41:BG:7:LEU:HG	41:BG:104:GLU:HG2	1.93	0.49
41:BG:73:ALA:CB	41:BG:87:PRO:HG2	2.38	0.49
28:D2:14:ARG:NE	28:D2:14:ARG:C	2.59	0.49
56:DZ:48:PHE:HE2	56:DZ:71:VAL:HG11	1.73	0.49
52:DV:15:GLU:CB	52:DV:16:PRO:HD2	2.41	0.49
19:CS:16:LEU:N	19:CS:16:LEU:CD1	2.75	0.49
49:BS:66:ALA:HB1	49:BS:98:VAL:O	2.13	0.49
49:BS:95:HIS:O	49:BS:97:ARG:N	2.46	0.49
4:CD:18:LYS:NZ	4:CD:31:CYS:CB	2.76	0.49
4:CD:96:LEU:HD13	4:CD:96:LEU:N	2.28	0.49
35:BA:1024:G:N2	35:BA:1142(A):A:H2	2.11	0.49
35:BA:256:A:H2'	35:BA:257:A:H8	1.77	0.49
40:BF:32:LEU:O	40:BF:35:GLU:N	2.46	0.49
25:AY:34:ASN:OD1	25:AY:35:PRO:HD2	2.12	0.49
25:AY:76:LEU:HD11	25:AY:98:ALA:C	2.33	0.49
35:DA:1141:U:OP2	44:DN:63:THR:HG21	2.13	0.49
35:BA:2406:U:N3	46:BP:72:PRO:HD2	2.27	0.49
46:BP:23:PRO:HB2	46:BP:33:ARG:NE	2.27	0.49
52:BV:72:VAL:HG13	52:BV:88:ARG:NH2	2.28	0.49
46:DP:6:LEU:O	46:DP:6:LEU:HD23	2.12	0.49
35:DA:1278:A:OP1	48:DR:36:THR:HG22	2.13	0.49
35:BA:1682:G:H2'	35:BA:1683:C:C6	2.48	0.49
35:BA:2708:G:H1'	48:BR:71:GLN:OE1	2.13	0.49
1:CA:908:A:C2	1:CA:909:A:N7	2.81	0.49
36:DB:29:A:H2'	36:DB:30:C:C6	2.48	0.49
36:DB:52:A:O2'	36:DB:53:A:H8	1.96	0.49
2:AB:69:LEU:HD13	2:AB:91:PRO:O	2.13	0.49
27:D1:34:THR:CG2	35:DA:387:U:O3'	2.61	0.49
44:DN:52:VAL:O	44:DN:120:LEU:HD22	2.12	0.49
15:CO:66:LEU:O	15:CO:69:TYR:HB3	2.12	0.49
15:CO:70:LEU:CD2	15:CO:78:TYR:HA	2.42	0.49
35:DA:1250:G:H3'	35:DA:1251:C:H5'	1.94	0.49
4:AD:108:LEU:O	4:AD:110:PHE:HD1	1.96	0.49
4:AD:110:PHE:H	4:AD:110:PHE:HD1	1.59	0.49
6:AF:10:LEU:HD21	6:AF:22:GLU:HB3	1.94	0.49
16:AP:60:LEU:O	16:AP:62:VAL:N	2.46	0.49
25:CY:173:ASP:C	25:CY:175:LEU:N	2.67	0.49
12:CL:84:LEU:HD22	12:CL:101:VAL:HG21	1.95	0.49
1:CA:1308:U:OP1	13:CM:98:VAL:N	2.46	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:CM:86:CYS:O	13:CM:89:GLY:N	2.45	0.49
12:CL:7:ILE:O	12:CL:10:LEU:HB2	2.13	0.49
51:BU:18:LEU:HD21	51:BU:22:LYS:HE2	1.95	0.49
35:DA:2247:A:O2'	35:DA:2248:C:H5'	2.13	0.49
42:DH:66:GLY:CA	42:DH:69:ARG:HB2	2.35	0.49
55:BY:14:LEU:O	55:BY:72:VAL:HA	2.13	0.49
55:BY:38:ILE:CG2	55:BY:39:VAL:N	2.76	0.49
23:AW:41:C:H2'	23:AW:42:C:H6	1.77	0.49
1:AA:1227:A:O2'	13:AM:115:LYS:HB2	2.13	0.49
35:DA:609:A:H2'	35:DA:610:G:O4'	2.13	0.49
35:DA:612:C:H2'	35:DA:613:G:O4'	2.13	0.49
1:CA:1104:G:H2'	1:CA:1105:A:C8	2.48	0.49
8:AH:27:PRO:O	8:AH:32:LYS:NZ	2.44	0.49
8:AH:6:ILE:N	8:AH:6:ILE:HD12	2.27	0.49
1:AA:1128:C:H5'	9:AI:16:ARG:NH1	2.28	0.49
35:BA:2225:A:H1'	35:BA:2226:C:OP2	2.13	0.49
8:CH:60:ARG:HH11	8:CH:60:ARG:HG3	1.78	0.49
1:AA:1168:A:C2	1:AA:1169:A:C4	3.01	0.49
35:DA:1310:G:H1	35:DA:1604:C:H42	1.60	0.49
46:BP:97:PRO:C	46:BP:99:LEU:N	2.67	0.49
7:CG:112:PRO:HD2	7:CG:113:GLU:OE2	2.12	0.49
18:CR:87:ARG:HH11	18:CR:87:ARG:HB3	1.77	0.49
35:DA:707:G:H3'	35:DA:708:C:H6	1.78	0.49
35:BA:1926:U:H2'	35:BA:1928:A:OP2	2.13	0.49
35:BA:49:A:C5	35:BA:177:G:C6	3.01	0.49
27:D1:19:GLN:OE1	27:D1:44:PRO:HB3	2.13	0.49
1:AA:645:C:O2'	1:AA:646:U:H5'	2.12	0.49
43:BI:54:GLN:HA	43:BI:57:ARG:HH11	1.77	0.49
27:B1:20:ARG:NH1	27:B1:41:ARG:CZ	2.72	0.49
48:DR:103:ARG:HB3	48:DR:109:ALA:O	2.13	0.49
1:CA:894:G:H2'	1:CA:895:G:H8	1.78	0.49
53:BW:5:ALA:HB1	53:BW:50:VAL:HG22	1.94	0.49
35:DA:1221:C:H2'	35:DA:1221(A):C:C6	2.42	0.49
1:CA:498:U:H2'	1:CA:499:A:C5'	2.42	0.49
1:AA:243:A:O2'	1:AA:244:U:OP2	2.30	0.49
7:AG:40:ALA:O	7:AG:44:TYR:HD1	1.96	0.49
35:DA:2843:G:C2	35:DA:2875:C:N3	2.81	0.49
35:DA:1681:G:O2'	35:DA:1762:A:H2'	2.13	0.49
1:AA:1163:C:H2'	1:AA:1164:G:C8	2.46	0.49
7:CG:11:GLN:HG3	7:CG:12:LEU:N	2.28	0.49
35:DA:1887:C:C3'	35:DA:1888:G:H5''	2.42	0.49
35:BA:2364:C:C2'	35:BA:2365:G:H5'	2.43	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
57:DC:76:ALA:C	57:DC:78:ALA:H	2.16	0.49
3:CC:91:LEU:CB	3:CC:99:VAL:HG21	2.43	0.49
1:AA:1416:G:C4	1:AA:1417:G:C8	3.00	0.49
37:BC:41:VAL:HB	37:BC:178:ALA:CB	2.42	0.49
1:AA:858:G:O6	1:AA:869:G:C8	2.66	0.49
11:AK:33:THR:C	11:AK:40:ILE:HG12	2.33	0.49
2:AB:9:GLU:O	2:AB:13:ALA:CB	2.60	0.49
1:AA:309:G:H2'	1:AA:310:G:H8	1.78	0.49
35:DA:2251:G:N3	35:DA:2450:A:H1'	2.28	0.49
1:AA:577:G:C4	1:AA:816:A:C2	3.00	0.49
35:DA:785:G:H2'	35:DA:786:C:H6	1.76	0.49
11:AK:15:ALA:HA	11:AK:76:GLY:O	2.13	0.49
1:CA:90:U:O5'	1:CA:90:U:H6	1.96	0.49
53:BW:92:ARG:HH11	53:BW:92:ARG:HG2	1.78	0.49
35:BA:2497:A:C8	35:BA:2497:A:O5'	2.66	0.49
35:DA:1637:A:H2'	35:DA:1638:C:C6	2.47	0.48
35:DA:2566:A:N6	45:DO:28:SER:HB2	2.28	0.48
50:DT:27:THR:HG23	50:DT:28:VAL:N	2.28	0.48
1:CA:1049:U:H1'	1:CA:1201:A:C8	2.48	0.48
35:BA:1788:C:O5'	35:BA:1788:C:H6	1.95	0.48
38:BD:267:SER:O	38:BD:269:PHE:HD1	1.95	0.48
38:BD:34:VAL:O	38:BD:34:VAL:CG1	2.61	0.48
35:DA:1567:A:N6	38:DD:21:PHE:CE2	2.81	0.48
35:BA:1953:A:H2	35:BA:2549:G:N3	2.11	0.48
35:BA:2562:U:H2'	35:BA:2563:U:C5'	2.43	0.48
50:BT:52:ILE:HG22	50:BT:61:PHE:HB3	1.95	0.48
45:BO:76:ALA:CB	50:BT:75:ILE:HD13	2.42	0.48
39:BE:55:ASN:ND2	39:BE:75:VAL:HG22	2.28	0.48
42:DH:138:LYS:HA	42:DH:141:VAL:HB	1.95	0.48
42:DH:85:LYS:HD3	42:DH:133:VAL:HB	1.94	0.48
39:DE:48:GLN:O	39:DE:49:LEU:HD13	2.13	0.48
39:DE:47:VAL:HG12	39:DE:49:LEU:CD2	2.43	0.48
27:B1:90:ILE:HD13	27:B1:90:ILE:N	2.27	0.48
35:BA:2303:G:H2'	35:BA:2304:G:O4'	2.13	0.48
35:BA:2305:A:N6	41:BG:43:LEU:HA	2.28	0.48
28:D2:51:ARG:CZ	35:DA:72:U:H5'	2.43	0.48
47:DQ:32:TYR:N	47:DQ:32:TYR:CD1	2.81	0.48
56:DZ:102:LEU:HD12	56:DZ:121:HIS:O	2.12	0.48
51:DU:74:LEU:CD1	51:DU:79:PHE:HB2	2.42	0.48
52:DV:18:LEU:HA	52:DV:97:LYS:NZ	2.28	0.48
52:DV:4:ILE:HB	52:DV:40:LEU:HD11	1.95	0.48
4:CD:34:GLU:O	4:CD:35:ARG:HG2	2.13	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:CD:59:ARG:NH2	4:CD:66:ARG:HH22	2.05	0.48
43:DI:91:SER:H	43:DI:121:LYS:HE2	1.77	0.48
47:BQ:38:GLU:HB2	47:BQ:127:ILE:CG2	2.43	0.48
40:BF:6:VAL:CG2	40:BF:124:LEU:HA	2.41	0.48
40:BF:1:MET:O	40:BF:2:LYS:C	2.50	0.48
27:D1:13:ILE:CG1	27:D1:14:VAL:H	2.04	0.48
27:D1:76:ARG:CA	27:D1:78:LYS:HZ3	2.25	0.48
35:DA:1021:A:C3'	35:DA:1021:A:C8	2.96	0.48
46:BP:23:PRO:HB2	46:BP:33:ARG:CG	2.42	0.48
46:BP:48:PRO:HG2	46:BP:49:ARG:N	2.28	0.48
52:BV:72:VAL:HA	52:BV:88:ARG:HH22	1.78	0.48
47:BQ:88:GLY:O	47:BQ:89:ASN:CB	2.61	0.48
48:DR:14:SER:O	48:DR:15:SER:C	2.52	0.48
48:DR:39:PRO:O	48:DR:40:LYS:C	2.51	0.48
35:DA:1453:U:OP1	48:DR:77:ARG:NH1	2.46	0.48
1:AA:1435:G:C2	1:AA:1436:U:N3	2.81	0.48
20:AT:29:LYS:O	20:AT:32:ALA:HB3	2.12	0.48
48:BR:16:HIS:O	48:BR:19:ALA:N	2.44	0.48
50:BT:100:TYR:CD2	50:BT:103:ARG:CZ	2.93	0.48
49:DS:87:PHE:HB2	49:DS:106:ARG:HD3	1.94	0.48
49:DS:13:ARG:O	49:DS:15:ARG:HD3	2.13	0.48
49:DS:92:TYR:CD2	49:DS:97:ARG:NH1	2.80	0.48
35:DA:199:A:N3	35:DA:2433:A:C2	2.81	0.48
35:DA:204:A:H5'	35:DA:206:U:O4'	2.13	0.48
44:BN:125:GLY:HA3	44:BN:126:PRO:O	2.12	0.48
44:BN:56:ASN:HA	44:BN:124:ALA:CA	2.40	0.48
8:CH:68:ARG:HG3	8:CH:69:ARG:N	2.23	0.48
52:DV:75:PHE:CE1	52:DV:89:GLN:HB2	2.48	0.48
35:DA:1213:A:N3	35:DA:1238:G:H1'	2.28	0.48
4:AD:173:TRP:O	4:AD:186:LEU:HB2	2.12	0.48
19:AS:9:VAL:O	19:AS:10:PHE:C	2.51	0.48
43:DI:94:ALA:CB	43:DI:114:LEU:HD12	2.43	0.48
1:CA:1516:G:N2	1:CA:1518:A:H3'	2.28	0.48
35:DA:2019:A:N1	35:DA:2020:A:C4	2.81	0.48
35:DA:2619:C:O2'	35:DA:2620:C:H5'	2.13	0.48
16:AP:60:LEU:HD23	16:AP:64:ALA:CB	2.30	0.48
25:CY:123:GLU:HA	25:CY:126:ARG:HH11	1.78	0.48
25:CY:26:ALA:HA	25:CY:179:LYS:NZ	2.28	0.48
12:CL:32:PHE:HD1	12:CL:86:ARG:HA	1.78	0.48
12:AL:32:PHE:CB	12:AL:84:LEU:HD21	2.43	0.48
26:B0:32:ARG:N	26:B0:35:ASN:ND2	2.47	0.48
51:BU:33:ARG:O	51:BU:36:ARG:N	2.46	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:847:U:C2'	35:DA:848:G:H5''	2.30	0.48
8:CH:114:THR:HG22	8:CH:117:GLY:O	2.13	0.48
55:BY:14:LEU:HD12	55:BY:15:VAL:N	2.24	0.48
23:AW:38:A:H2'	23:AW:39:A:H5''	1.95	0.48
1:AA:1308:U:OP1	13:AM:98:VAL:N	2.45	0.48
35:DA:239:U:O2'	35:DA:622:G:H4'	2.13	0.48
40:DF:103:LYS:O	40:DF:104:LYS:C	2.50	0.48
11:CK:66:LEU:O	11:CK:67:ASP:C	2.49	0.48
1:CA:1349:A:O2'	1:CA:1350:A:H5'	2.13	0.48
9:AI:28:VAL:CG1	9:AI:29:ASN:N	2.75	0.48
9:AI:53:VAL:HG12	9:AI:95:LYS:HE3	1.95	0.48
9:CI:17:VAL:CG1	9:CI:81:ILE:HD13	2.43	0.48
23:AW:26:C:H2'	23:AW:27:G:O4'	2.12	0.48
15:AO:11:VAL:HG21	15:AO:34:LEU:CD2	2.43	0.48
38:DD:133:LEU:HB2	38:DD:187:GLY:HA2	1.95	0.48
56:BZ:16:SER:O	56:BZ:19:ARG:HG2	2.13	0.48
35:BA:1937:A:H2'	35:BA:1938:A:H5'	1.94	0.48
35:BA:2673:G:HO2'	35:BA:2674:G:H5'	1.77	0.48
55:BY:7:VAL:HG23	55:BY:8:LYS:HD2	1.94	0.48
17:CQ:45:HIS:O	17:CQ:73:VAL:HG23	2.13	0.48
1:AA:235:C:H5'	17:AQ:70:ARG:HG2	1.94	0.48
35:BA:2115:G:H22	35:BA:2170:A:N6	2.11	0.48
1:CA:324:G:N2	1:CA:327:A:C8	2.81	0.48
1:AA:390:C:H2'	1:AA:391:G:H8	1.78	0.48
43:DI:54:GLN:HA	43:DI:57:ARG:HH11	1.77	0.48
38:DD:239:ARG:NH2	38:DD:239:ARG:HG3	2.26	0.48
53:DW:17:VAL:O	53:DW:18:ARG:C	2.52	0.48
5:CE:91:LEU:HD23	5:CE:110:LEU:HD11	1.95	0.48
53:DW:86:LEU:HD12	53:DW:87:PRO:CD	2.43	0.48
25:CY:108:GLU:HG2	25:CY:111:ARG:HH21	1.78	0.48
13:CM:10:PRO:CB	13:CM:18:ALA:HB1	2.42	0.48
1:AA:729:A:H2'	1:AA:730:G:H8	1.78	0.48
29:D3:13:ILE:HD12	35:DA:989:G:N7	2.28	0.48
13:AM:48:LEU:HD11	13:AM:53:VAL:HG22	1.95	0.48
48:BR:3:HIS:HB2	48:BR:4:LEU:H	1.47	0.48
15:AO:78:TYR:O	15:AO:82:ILE:HG22	2.13	0.48
1:CA:645:C:H2'	1:CA:646:U:C6	2.47	0.48
4:CD:2:GLY:O	4:CD:3:ARG:C	2.51	0.48
35:DA:286:C:O2	35:DA:286:C:C2'	2.58	0.48
36:BB:83:G:C2	36:BB:84:C:C6	3.01	0.48
35:BA:189:G:C4	35:BA:205:G:N2	2.80	0.48
6:AF:85:VAL:O	6:AF:85:VAL:HG12	2.13	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1445(A):C:H2'	35:DA:1446:C:C6	2.48	0.48
35:BA:285:C:H2'	35:BA:286:C:C4'	2.43	0.48
1:CA:895:G:C6	1:CA:896:C:N4	2.81	0.48
35:DA:154(A):C:H5	35:DA:171:G:H1	1.57	0.48
35:DA:2350:C:H2'	35:DA:2351:G:O4'	2.13	0.48
56:BZ:139:VAL:C	56:BZ:141:VAL:N	2.67	0.48
7:AG:16:LEU:CD1	9:AI:41:VAL:HG12	2.43	0.48
29:D3:26:LEU:HD21	29:D3:46:ASN:HB3	1.95	0.48
45:BO:4:PRO:HA	45:BO:21:CYS:SG	2.53	0.48
41:BG:9:ARG:HH11	41:BG:9:ARG:HG3	1.77	0.48
43:BI:29:TYR:CD2	43:BI:30:LEU:HD23	2.47	0.48
16:CP:80:PHE:O	16:CP:81:ARG:C	2.51	0.48
1:CA:1036:G:H2'	1:CA:1036:G:N3	2.27	0.48
38:BD:201:HIS:C	38:BD:203:ASN:N	2.66	0.48
41:BG:121:ASN:HB2	41:BG:181:ARG:NH2	2.28	0.48
35:DA:2517:C:H2'	35:DA:2542:A:H2	1.78	0.48
35:DA:1553:A:N7	35:DA:1555:G:C5	2.81	0.48
35:BA:66:C:O2'	35:BA:67:U:H5'	2.13	0.48
38:DD:201:HIS:C	38:DD:203:ASN:N	2.65	0.48
35:DA:1848:A:H2'	35:DA:1849:G:C8	2.47	0.48
23:CW:11:A:H2'	23:CW:12:G:C8	2.48	0.48
35:BA:2547:U:H2'	35:BA:2548:G:H8	1.78	0.48
35:BA:1916:A:H3'	35:BA:1917:U:H6	1.78	0.48
35:DA:2251:G:H2'	35:DA:2252:G:O4'	2.13	0.48
5:AE:60:TYR:HE2	5:AE:64:ARG:HE	1.60	0.48
36:DB:18:G:H2'	36:DB:19:G:H8	1.78	0.48
25:CY:93:SER:C	25:CY:95:LYS:H	2.16	0.48
8:AH:50:ARG:HG2	8:AH:50:ARG:HH11	1.77	0.48
35:DA:1992:G:N1	35:DA:1997:G:N1	2.60	0.48
35:DA:2695:C:H2'	35:DA:2696:U:C6	2.48	0.48
35:DA:2726:U:H6	45:DO:67:LYS:NZ	2.11	0.48
41:DG:14:GLU:O	41:DG:17:PRO:HD2	2.13	0.48
1:CA:15:G:O3'	5:CE:24:ARG:NH2	2.46	0.48
35:DA:1798:U:N3	35:DA:1819:A:C2	2.81	0.48
38:DD:210:GLY:O	38:DD:211:ARG:CB	2.58	0.48
38:DD:211:ARG:O	38:DD:214:TRP:N	2.47	0.48
41:DG:142:PRO:HG2	41:DG:143:GLU:HG2	1.95	0.48
45:BO:9:GLU:O	45:BO:83:ALA:HB1	2.13	0.48
35:BA:2631:G:H22	39:BE:61:ARG:NH1	2.10	0.48
51:BU:90:VAL:O	51:BU:92:ARG:N	2.44	0.48
51:BU:96:ALA:C	51:BU:98:LEU:H	2.17	0.48
42:DH:160:LYS:O	42:DH:163:TYR:HE1	1.96	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:AI:126:SER:O	9:AI:127:LYS:CB	2.61	0.48
14:AN:24:CYS:HB3	14:AN:27:CYS:O	2.12	0.48
35:BA:1348:G:H2'	35:BA:1349:A:C5'	2.30	0.48
2:AB:80:ILE:CD1	2:AB:215:LEU:HD12	2.43	0.48
41:BG:36:LYS:HE3	41:BG:160:VAL:HG21	1.94	0.48
28:D2:29:LYS:HA	28:D2:32:LEU:CB	2.39	0.48
55:BY:60:PHE:HD2	55:BY:60:PHE:O	1.95	0.48
51:DU:108:GLU:OE1	51:DU:112:ARG:NH2	2.43	0.48
49:BS:92:TYR:HD2	49:BS:97:ARG:NH1	2.11	0.48
4:CD:159:ARG:HH11	4:CD:159:ARG:HG3	1.77	0.48
14:CN:4:LYS:HA	14:CN:7:ILE:HD11	1.94	0.48
40:BF:28:ILE:HA	40:BF:112:MET:HG2	1.94	0.48
35:DA:244:A:O2'	46:DP:73:GLY:HA3	2.13	0.48
46:BP:71:VAL:HG22	46:BP:72:PRO:HG3	1.94	0.48
35:BA:578:A:OP1	35:BA:1255:U:O2'	2.29	0.48
40:BF:68:LYS:O	40:BF:69:HIS:CB	2.61	0.48
52:BV:75:PHE:HB2	52:BV:87:HIS:CB	2.43	0.48
40:DF:110:LEU:HA	40:DF:183:VAL:CG1	2.39	0.48
1:AA:321:A:N7	1:AA:328:C:O2	2.46	0.48
35:BA:2712:U:C1'	35:BA:2712(A):A:C8	2.95	0.48
49:DS:89:ARG:CA	49:DS:89:ARG:NE	2.74	0.48
35:DA:2431:U:H2'	35:DA:2433:A:OP2	2.13	0.48
6:CF:8:ILE:HD13	6:CF:26:ILE:HD13	1.94	0.48
35:DA:2065:C:H2'	35:DA:2066:C:H6	1.78	0.48
46:DP:47:ASP:HB2	46:DP:51:PHE:CB	2.32	0.48
4:AD:159:ARG:HH11	4:AD:159:ARG:HG3	1.78	0.48
35:BA:2534:A:H2'	35:BA:2535:G:O4'	2.13	0.48
47:DQ:16:ARG:HB3	47:DQ:16:ARG:HH11	1.75	0.48
1:AA:738:C:H5''	6:AF:69:GLU:CB	2.42	0.48
35:BA:2736:G:O2'	35:BA:2737:G:H5'	2.13	0.48
25:AY:61:PRO:HD3	25:AY:66:LEU:HA	1.95	0.48
7:CG:100:ALA:O	7:CG:101:LEU:C	2.50	0.48
12:AL:25:PRO:C	12:AL:27:LEU:H	2.15	0.48
26:D0:32:ARG:N	26:D0:35:ASN:HD22	1.93	0.48
35:BA:1354:A:C8	35:BA:1355:G:C8	3.01	0.48
19:AS:62:ILE:HD12	19:AS:63:THR:N	2.26	0.48
8:CH:120:THR:O	8:CH:122:ARG:N	2.46	0.48
35:BA:103:A:H2'	35:BA:104:U:C6	2.47	0.48
55:BY:14:LEU:O	55:BY:72:VAL:HG12	2.13	0.48
7:AG:85:TYR:CE1	7:AG:154:TYR:HE1	2.31	0.48
35:DA:238:C:H2'	35:DA:239:U:H6	1.78	0.48
8:AH:28:ALA:HB2	8:AH:57:PRO:O	2.13	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:CH:28:ALA:HB2	8:CH:57:PRO:O	2.13	0.48
18:CR:53:ARG:HH12	18:CR:59:SER:CA	2.22	0.48
7:CG:122:HIS:O	7:CG:125:MET:HB3	2.13	0.48
35:BA:1982:C:H2'	35:BA:1983:C:H6	1.79	0.48
35:DA:2220:G:H2'	35:DA:2221:G:C8	2.36	0.48
1:CA:113:G:H2'	1:CA:114:U:C6	2.49	0.48
1:CA:112:G:H5'	1:CA:389:A:H4'	1.95	0.48
48:BR:99:LYS:C	48:BR:100:LEU:HD22	2.34	0.48
53:BW:6:ILE:HG22	53:BW:6:ILE:O	2.13	0.48
4:CD:131:ARG:N	4:CD:131:ARG:HD3	2.29	0.48
35:BA:1274:A:N3	35:BA:1297:C:H1'	2.27	0.48
1:AA:1250:A:H4'	9:AI:68:GLY:O	2.13	0.48
35:BA:1399:C:H2'	35:BA:1400:G:C8	2.48	0.48
35:BA:1400:G:H2'	35:BA:1401:G:C8	2.47	0.48
1:CA:645:C:H2'	1:CA:646:U:H6	1.77	0.48
2:AB:19:HIS:CE1	2:AB:206:ASP:HB2	2.47	0.48
35:DA:2762:G:H2'	35:DA:2763:G:C5'	2.40	0.48
36:BB:90:A:C8	36:BB:91:C:H1'	2.48	0.48
35:BA:1446:C:O2'	35:BA:1447:G:H5'	2.12	0.48
44:BN:107:LEU:HB2	44:BN:108:PRO:CD	2.41	0.48
52:DV:45:THR:O	52:DV:45:THR:HG22	2.13	0.48
45:BO:13:ASN:HD22	45:BO:97:ARG:HG2	1.78	0.48
35:DA:2194:G:H5'	35:DA:2195:C:OP2	2.13	0.48
35:DA:2290:G:H2'	35:DA:2291:U:O4'	2.13	0.48
32:B6:40:CYS:HB2	32:B6:46:HIS:CE1	2.45	0.48
35:BA:449:A:C2'	35:BA:450:G:H5'	2.43	0.48
53:BW:64:MET:CE	53:BW:109:GLU:HG3	2.43	0.48
53:BW:64:MET:O	53:BW:65:LEU:CB	2.61	0.48
35:DA:828:U:H3'	35:DA:828:U:O2	2.12	0.48
35:DA:1127:A:H2'	35:DA:1128:A:H5''	1.94	0.48
35:BA:67:U:H2'	35:BA:68:G:C8	2.48	0.48
1:AA:788:U:C5	1:AA:789:U:C5	3.01	0.48
35:DA:1184:G:C2'	35:DA:1185:C:H5'	2.43	0.48
57:DC:41:VAL:HB	57:DC:178:ALA:CB	2.43	0.48
1:AA:997:U:H2'	1:AA:998:G:C8	2.48	0.48
35:BA:503:A:C6	35:BA:505:A:C6	3.02	0.48
1:AA:372:C:H4'	1:AA:373:A:OP1	2.14	0.48
2:CB:17:PHE:C	2:CB:17:PHE:CD2	2.84	0.48
9:CI:56:LEU:HD23	9:CI:56:LEU:O	2.13	0.48
1:AA:1447:A:OP2	1:AA:1452:C:C6	2.65	0.48
35:DA:2336:A:H3'	35:DA:2337:G:H8	1.77	0.48
37:BC:74:VAL:H	37:BC:91:ALA:HB1	1.77	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1678:G:OP2	35:BA:1678:G:C8	2.66	0.48
50:BT:32:TYR:HB2	50:BT:33:LYS:H	1.46	0.48
56:BZ:10:ARG:CZ	56:BZ:36:LYS:HB3	2.43	0.48
56:BZ:52:SER:OG	56:BZ:53:ILE:N	2.46	0.48
39:BE:4:ILE:HD11	39:BE:29:GLY:H	1.78	0.48
39:BE:60:ASN:O	39:BE:62:PRO:N	2.47	0.48
35:BA:998:C:P	51:BU:93:LYS:HE2	2.53	0.48
52:BV:36:PRO:HD2	52:BV:60:GLU:O	2.14	0.48
54:BX:72:LYS:O	54:BX:73:ARG:HB3	2.13	0.48
27:B1:86:SER:O	27:B1:86:SER:OG	2.29	0.48
41:BG:120:LEU:HB3	41:BG:131:TYR:OH	2.13	0.48
55:DY:74:PRO:HG2	55:DY:80:GLY:C	2.34	0.48
35:BA:2666:C:O2'	35:BA:2667:C:H5'	2.12	0.48
56:DZ:49:ARG:HB2	56:DZ:50:GLN:OE1	2.13	0.48
52:DV:61:VAL:CG2	52:DV:99:ILE:HB	2.39	0.48
3:AC:153:VAL:HG12	3:AC:154:SER:H	1.78	0.48
36:BB:28:C:O2'	36:BB:29:A:H5'	2.13	0.48
36:BB:52:A:O2'	36:BB:53:A:H8	1.96	0.48
49:BS:24:LEU:H	49:BS:24:LEU:HD22	1.78	0.48
1:CA:542:G:C6	1:CA:543:C:N4	2.82	0.48
4:CD:170:VAL:CG1	4:CD:174:LEU:HB2	2.43	0.48
43:DI:145:VAL:CG1	43:DI:146:ALA:N	2.76	0.48
35:BA:660:G:C6	35:BA:661:C:C4	3.01	0.48
35:BA:1186:G:H2'	35:BA:1187:G:H5'	1.94	0.48
35:BA:666:G:O2'	35:BA:667:U:H5'	2.12	0.48
40:BF:70:THR:O	40:BF:72:ARG:N	2.46	0.48
40:BF:74:ARG:O	40:BF:75:HIS:ND1	2.45	0.48
52:BV:75:PHE:HB2	52:BV:87:HIS:HB3	1.95	0.48
40:DF:157:VAL:HB	40:DF:194:MET:CB	2.43	0.48
40:DF:28:ILE:CD1	40:DF:28:ILE:H	2.26	0.48
39:DE:161:GLY:O	39:DE:163:GLU:HG2	2.13	0.48
48:BR:26:LYS:HG2	48:BR:70:LEU:HD22	1.95	0.48
49:DS:15:ARG:C	49:DS:17:ARG:N	2.65	0.48
2:AB:157:ARG:CG	2:AB:158:LEU:H	2.25	0.48
2:AB:68:ILE:HG22	2:AB:70:PHE:CD1	2.47	0.48
27:D1:23:LYS:CB	27:D1:23:LYS:HZ2	2.25	0.48
15:CO:33:THR:HG23	15:CO:63:ARG:HH11	1.78	0.48
18:CR:73:ALA:HB3	18:CR:79:LEU:HD12	1.96	0.48
4:AD:120:LEU:HB2	4:AD:126:ILE:HD11	1.94	0.48
4:AD:149:ALA:O	4:AD:150:GLU:C	2.51	0.48
17:AQ:34:LYS:O	17:AQ:36:ILE:HG12	2.13	0.48
43:DI:112:LYS:H	43:DI:114:LEU:HG	1.79	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
47:DQ:16:ARG:HG2	47:DQ:17:LEU:N	2.21	0.48
25:CY:122:ALA:O	25:CY:125:GLY:N	2.45	0.48
43:BI:10:GLU:OE1	43:BI:11:ASN:N	2.46	0.48
1:CA:955:U:O2'	1:CA:956:U:H5'	2.13	0.48
13:CM:91:ARG:O	13:CM:96:LEU:N	2.46	0.48
1:AA:376:G:O2'	1:AA:377:G:H5'	2.14	0.48
35:BA:1591:G:C2'	35:BA:1592:C:H5'	2.43	0.48
25:AY:143:LEU:CD2	25:AY:144:ALA:N	2.77	0.48
11:AK:66:LEU:O	11:AK:67:ASP:C	2.52	0.48
35:BA:1424:G:O2'	35:BA:1425:G:H5'	2.13	0.48
42:DH:65:HIS:CG	42:DH:66:GLY:N	2.81	0.48
35:BA:2388:A:H5'	35:BA:2389:G:OP2	2.13	0.48
35:DA:660:G:C6	35:DA:661:C:C4	3.01	0.48
1:AA:262:A:C6	1:AA:263:A:C6	3.01	0.48
12:AL:89:ARG:NE	12:AL:91:LYS:HE2	2.28	0.48
8:AH:15:ASN:O	8:AH:16:ALA:C	2.52	0.48
1:AA:1348:U:H2'	1:AA:1349:A:C8	2.49	0.48
38:BD:132:PRO:HG3	38:BD:190:TYR:CE1	2.48	0.48
35:DA:1268:A:C6	35:DA:2013:A:C8	3.02	0.48
16:CP:6:LEU:HD23	16:CP:17:TYR:CD2	2.48	0.48
39:BE:14:ILE:HB	50:BT:14:TYR:HE2	1.79	0.48
53:BW:86:LEU:HD12	53:BW:87:PRO:HD2	1.95	0.48
14:AN:8:GLU:C	14:AN:12:ARG:HD3	2.34	0.48
1:CA:1178:G:N2	1:CA:1180:A:H3'	2.28	0.48
3:AC:159:GLY:O	3:AC:160:ALA:C	2.51	0.48
51:BU:20:LEU:CD2	51:BU:20:LEU:H	2.21	0.48
17:AQ:45:HIS:O	17:AQ:73:VAL:HG23	2.12	0.48
5:AE:135:THR:O	5:AE:139:LEU:HG	2.14	0.48
32:D6:13:CYS:O	32:D6:21:TYR:HA	2.13	0.48
13:CM:67:GLU:O	13:CM:68:GLY:C	2.52	0.48
32:B6:32:ASN:O	32:B6:33:LYS:HB2	2.13	0.48
35:DA:132:G:H2'	35:DA:133:C:C6	2.48	0.48
13:AM:67:GLU:O	13:AM:68:GLY:C	2.52	0.48
39:BE:38:THR:CG2	39:BE:39:PRO:HD2	2.44	0.48
2:AB:24:TRP:O	2:AB:25:ASN:HB2	2.12	0.48
35:BA:1835:G:N3	35:BA:1835:G:H2'	2.28	0.48
29:D3:41:PRO:HB3	35:DA:852:G:O2'	2.13	0.48
36:DB:65:C:O2'	36:DB:66:A:H5'	2.12	0.48
53:BW:45:TYR:CD2	53:BW:45:TYR:C	2.86	0.48
35:DA:2814:C:H2'	35:DA:2815:C:C6	2.45	0.48
35:DA:797:C:OP2	40:DF:62:ARG:HG3	2.13	0.48
36:DB:25:A:H2'	36:DB:26:A:O4'	2.13	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
53:DW:64:MET:O	53:DW:65:LEU:CB	2.61	0.48
7:CG:40:ALA:O	7:CG:44:TYR:HD1	1.96	0.48
1:AA:241:C:H1'	1:AA:286:G:N2	2.28	0.48
35:DA:2882:A:OP1	48:DR:96:ARG:HD3	2.12	0.48
18:CR:19:LYS:O	18:CR:20:ALA:CB	2.61	0.48
1:AA:1163:C:N3	1:AA:1174:G:N2	2.60	0.48
35:DA:2841:C:C2	35:DA:2877:G:C2	3.01	0.48
35:DA:2364:C:C2'	35:DA:2365:G:H5'	2.43	0.48
35:DA:1514:U:C2	35:DA:1515:G:C8	3.02	0.48
35:BA:1759:A:H2'	35:BA:1760:A:H8	1.76	0.48
5:CE:26:PHE:O	5:CE:27:ARG:HB2	2.12	0.48
35:BA:407:G:H2'	35:BA:408:G:C8	2.46	0.48
1:AA:1519:A:N7	1:AA:1520:G:H1'	2.27	0.48
35:DA:785:G:H2'	35:DA:786:C:C6	2.48	0.48
28:B2:60:LEU:O	28:B2:62:THR:N	2.46	0.48
53:DW:76:VAL:HB	53:DW:103:ILE:HG22	1.95	0.48
1:CA:1001:A:H2	1:CA:1001(A):G:O6	1.96	0.48
35:DA:830:G:C4	35:DA:2448:A:C5	3.01	0.48
35:DA:1563:G:O2'	35:DA:1564:C:H5'	2.13	0.48
41:BG:45:GLU:HG2	41:BG:45:GLU:O	2.13	0.48
35:DA:134:C:O2'	35:DA:135:G:H5'	2.13	0.48
36:BB:18:G:H2'	36:BB:19:G:H8	1.78	0.48
35:DA:790:C:O2'	35:DA:791:C:C5'	2.61	0.48
35:DA:2711:A:OP1	35:DA:2712(A):A:OP1	2.32	0.48
39:DE:23:VAL:HA	39:DE:184:VAL:O	2.14	0.48
45:DO:65:THR:O	45:DO:79:PHE:HB2	2.13	0.48
43:BI:83:ALA:HB2	43:BI:88:ILE:HG23	1.94	0.48
35:BA:1795:C:N4	35:BA:1824:G:H1	2.11	0.48
38:BD:44:ASN:ND2	38:BD:47:GLY:O	2.46	0.48
35:DA:1785:A:N7	35:DA:1787:A:C5	2.81	0.48
35:BA:1991:U:C2'	35:BA:1992:G:C5'	2.91	0.48
45:BO:68:GLU:HB3	45:BO:78:ARG:CD	2.41	0.48
56:BZ:27:VAL:N	56:BZ:85:HIS:HE1	2.11	0.48
56:BZ:76:LEU:HB2	56:BZ:81:ARG:O	2.14	0.48
39:DE:117:MET:CE	39:DE:124:GLY:HA3	2.44	0.48
51:BU:108:GLU:HB3	51:BU:112:ARG:NH1	2.27	0.48
51:BU:86:ALA:HB2	51:BU:116:ALA:HB1	1.95	0.48
52:BV:18:LEU:HA	52:BV:97:LYS:HZ1	1.78	0.48
27:B1:89:GLU:C	27:B1:90:ILE:HD13	2.33	0.48
41:BG:76:SER:HB3	41:BG:84:LYS:N	2.21	0.48
54:DX:57:LEU:HD12	54:DX:76:ARG:CD	2.42	0.48
42:BH:160:LYS:O	42:BH:163:TYR:HE1	1.95	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2643:G:C2	35:BA:2772:C:N3	2.81	0.48
56:DZ:121:HIS:C	56:DZ:123:ASP:N	2.66	0.48
56:DZ:140:ASP:C	56:DZ:142:SER:H	2.16	0.48
51:DU:86:ALA:HB2	51:DU:116:ALA:HB1	1.94	0.48
35:BA:2378:A:O2'	49:BS:22:GLY:HA3	2.13	0.48
36:BB:5:C:H2'	36:BB:6:C:H6	1.78	0.48
49:BS:90:GLY:C	49:BS:92:TYR:H	2.17	0.48
1:CA:541:G:H2'	1:CA:542:G:H8	1.79	0.48
4:CD:176:LEU:HD12	4:CD:177:ASP:H	1.78	0.48
47:BQ:39:PRO:O	47:BQ:40:ALA:HB2	2.13	0.48
44:BN:71:ILE:HD13	44:BN:86:PRO:HA	1.94	0.48
55:BY:44:ILE:HG23	55:BY:45:VAL:N	2.28	0.48
39:BE:116:VAL:CG2	39:BE:122:PHE:HB2	2.38	0.48
35:BA:2052:G:H4'	39:BE:143:ASN:O	2.13	0.48
27:D1:49:VAL:O	27:D1:62:VAL:O	2.31	0.48
27:D1:90:ILE:O	27:D1:93:GLU:HG2	2.13	0.48
3:CC:7:PRO:O	3:CC:11:ARG:HG2	2.13	0.48
34:B8:4:MET:CE	34:B8:61:LEU:HD12	2.44	0.48
35:BA:580:C:H2'	35:BA:581:C:H6	1.78	0.48
35:BA:1247:A:OP1	40:BF:95:ARG:NH2	2.47	0.48
55:BY:88:LYS:NZ	55:BY:93:GLY:N	2.50	0.48
48:DR:94:TYR:CD1	48:DR:94:TYR:N	2.82	0.48
1:AA:1422:G:C2	1:AA:1479:C:N3	2.81	0.48
1:AA:1480:G:N1	1:AA:1481:U:C2	2.81	0.48
35:BA:2696:U:H2'	35:BA:2697:G:H8	1.78	0.48
48:BR:28:LEU:O	48:BR:30:THR:N	2.45	0.48
27:D1:41:ARG:NH2	35:DA:205:G:N1	2.58	0.48
6:CF:69:GLU:O	6:CF:70:ASP:C	2.52	0.48
18:CR:74:ARG:HE	18:CR:81:PHE:CA	2.22	0.48
35:DA:588:U:H1'	40:DF:90:PHE:HB3	1.95	0.48
4:AD:154:ASN:HA	4:AD:159:ARG:HE	1.78	0.48
4:AD:158:ILE:O	4:AD:162:LEU:HG	2.13	0.48
3:AC:7:PRO:O	3:AC:11:ARG:HG2	2.13	0.48
4:AD:56:VAL:C	4:AD:58:LEU:N	2.66	0.48
25:CY:64:ARG:HA	25:CY:103:ILE:CG1	2.44	0.48
12:CL:85:ILE:CD1	12:CL:98:TYR:HB3	2.42	0.48
20:CT:38:LYS:O	20:CT:39:LYS:C	2.51	0.48
1:CA:262:A:C6	1:CA:263:A:C6	3.02	0.48
25:AY:60:ALA:HB1	25:AY:65:THR:O	2.13	0.48
33:B7:8:ASN:C	33:B7:8:ASN:ND2	2.66	0.48
1:CA:601:C:H42	1:CA:637:G:H1	1.62	0.48
1:AA:955:U:O2'	1:AA:956:U:H5'	2.13	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:662:G:O2'	35:DA:663:G:H5'	2.13	0.48
35:DA:660:G:C5'	40:DF:99:TYR:CD2	2.95	0.48
1:AA:193:C:O2'	1:AA:194:C:H5'	2.14	0.48
1:CA:1104:G:H2'	1:CA:1105:A:H8	1.77	0.48
25:CY:92:PRO:HB3	25:CY:101:ILE:HG12	1.95	0.48
8:CH:6:ILE:CG2	8:CH:10:LEU:HD11	2.42	0.48
7:CG:79:ARG:HH11	7:CG:79:ARG:HG3	1.77	0.48
18:CR:63:GLN:OE1	18:CR:63:GLN:HA	2.13	0.48
35:DA:543:C:C4	35:DA:551:G:N1	2.80	0.48
5:CE:149:GLU:C	5:CE:151:LEU:N	2.66	0.48
16:CP:48:TRP:O	16:CP:49:LEU:C	2.51	0.48
7:CG:69:VAL:O	7:CG:69:VAL:HG12	2.12	0.48
35:DA:1230:C:O2'	35:DA:1231:G:H5'	2.13	0.48
7:AG:119:ARG:O	7:AG:120:ILE:C	2.52	0.48
1:CA:314:C:O2'	1:CA:315:A:H5'	2.12	0.48
35:DA:2250:G:C6	47:DQ:82:ARG:HD2	2.48	0.48
40:DF:171:PRO:HG2	40:DF:172:TRP:H	1.79	0.48
35:DA:2165:G:H3'	35:DA:2166:G:H8	1.78	0.48
35:DA:2170:A:H5'	35:DA:2171:A:OP2	2.13	0.48
35:BA:681:G:H2'	35:BA:682:G:O4'	2.12	0.48
35:BA:1927:A:C6	35:BA:1928:A:C6	3.02	0.48
1:AA:391:G:C6	1:AA:392:G:N7	2.81	0.48
35:DA:1369:G:N2	35:DA:1370:C:C2	2.82	0.48
5:CE:8:GLU:N	5:CE:34:VAL:HG13	2.28	0.48
35:BA:1688:U:O2	35:BA:1688:U:H2'	2.12	0.48
1:CA:1473:A:O2'	1:CA:1474:G:H5'	2.14	0.48
1:AA:66:G:N3	1:AA:66:G:H2'	2.28	0.48
1:AA:1236:A:H4'	1:AA:1304:G:H4'	1.95	0.48
38:BD:139:GLY:H	38:BD:165:ILE:HB	1.79	0.48
36:DB:66:A:N6	36:DB:108:U:H2'	2.25	0.48
26:B0:27:GLU:H	26:B0:69:PHE:HE1	1.58	0.48
35:DA:1400:G:H2'	35:DA:1401:G:C8	2.48	0.48
53:BW:70:TYR:CE2	53:BW:108:GLY:HA3	2.42	0.48
35:BA:2839:G:H1'	48:BR:93:GLY:H	1.77	0.48
1:AA:189(D):C:H1'	1:AA:189(H):G:N2	2.28	0.48
30:D4:45:GLY:C	30:D4:47:GLN:N	2.66	0.48
6:CF:3:ARG:NH1	6:CF:38:GLU:OE2	2.46	0.48
35:BA:2460:U:C2'	35:BA:2461:C:H5'	2.44	0.48
3:CC:92:ALA:C	3:CC:94:LEU:H	2.17	0.48
35:DA:37:C:H2'	35:DA:38:A:H8	1.78	0.48
1:CA:1042:G:O2'	1:CA:1043:C:H5'	2.14	0.48
7:AG:115:ARG:O	7:AG:118:VAL:HG23	2.13	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1360:A:C5	35:BA:1372:U:C4	3.01	0.48
21:CU:21:TYR:N	21:CU:21:TYR:CD1	2.80	0.48
1:AA:81:U:H2'	1:AA:82:U:C6	2.48	0.48
35:DA:2677:G:C4	35:DA:2678:C:H5	2.31	0.48
35:DA:2689:U:H4'	35:DA:2690:C:H6	1.77	0.48
45:DO:104:ARG:NH1	50:DT:35:LYS:HB3	2.28	0.48
45:DO:93:PRO:C	45:DO:95:GLY:N	2.67	0.48
10:CJ:56:HIS:O	10:CJ:58:ASP:O	2.32	0.48
35:BA:1902:C:H2'	35:BA:1903:G:O4'	2.13	0.48
38:BD:25:THR:HG21	38:BD:82:ILE:H	1.72	0.48
38:BD:27:THR:O	38:BD:29:PRO:HD2	2.12	0.48
34:B8:30:ARG:HG2	35:BA:2393:A:H5''	1.95	0.48
47:DQ:118:LEU:O	47:DQ:121:ALA:N	2.47	0.48
50:BT:80:SER:CB	50:BT:81:PRO:HD2	2.35	0.48
47:BQ:141:GLN:NE2	56:BZ:89:PHE:HB3	2.28	0.48
39:BE:199:ARG:NH1	39:BE:199:ARG:HG3	2.28	0.48
35:BA:538:G:N3	35:BA:538:G:H2'	2.29	0.48
35:BA:998:C:H42	35:BA:1157:G:H1	1.60	0.48
44:BN:38:HIS:CG	44:BN:39:ARG:H	2.31	0.48
44:BN:43:THR:O	44:BN:46:VAL:HG12	2.14	0.48
54:BX:84:ALA:O	54:BX:86:GLY:N	2.47	0.48
27:B1:87:PRO:HD2	27:B1:89:GLU:OE1	2.13	0.48
41:BG:91:ARG:HD2	41:BG:92:VAL:N	2.27	0.48
28:D2:14:ARG:HE	28:D2:14:ARG:CA	2.27	0.48
54:DX:47:PHE:N	54:DX:47:PHE:CD1	2.81	0.48
42:BH:123:PHE:HA	42:BH:133:VAL:CG2	2.36	0.48
56:DZ:30:ASN:C	56:DZ:32:HIS:N	2.65	0.48
56:DZ:3:TYR:N	56:DZ:56:VAL:O	2.46	0.48
35:DA:998:C:N4	35:DA:1158:C:H42	2.12	0.48
19:CS:36:ARG:CZ	19:CS:75:ALA:HB3	2.44	0.48
32:D6:51:GLU:CG	32:D6:52:VAL:H	2.00	0.48
47:BQ:118:LEU:O	47:BQ:121:ALA:N	2.46	0.48
35:BA:1024:G:P	35:BA:1025:G:H3'	2.53	0.48
40:BF:114:VAL:CG1	40:BF:202:PHE:HE2	2.25	0.48
40:BF:125:LEU:HD12	40:BF:196:LEU:HD22	1.95	0.48
40:BF:28:ILE:CD1	40:BF:28:ILE:H	2.26	0.48
27:D1:15:ALA:O	27:D1:46:LEU:CD2	2.61	0.48
27:D1:93:GLU:N	27:D1:93:GLU:OE2	2.47	0.48
34:B8:56:GLU:HA	34:B8:59:LYS:HZ1	1.78	0.48
40:BF:63:LYS:HZ3	40:BF:67:GLN:HB3	1.75	0.48
46:BP:41:ARG:CD	46:BP:41:ARG:N	2.76	0.48
48:DR:117:VAL:O	48:DR:118:GLU:HB2	2.13	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:332:G:H2'	1:AA:333:G:C8	2.43	0.48
35:BA:2692:C:N4	35:BA:2718:G:N1	2.62	0.48
48:BR:18:LEU:HD13	48:BR:18:LEU:C	2.33	0.48
48:BR:39:PRO:O	48:BR:40:LYS:C	2.52	0.48
48:BR:53:HIS:O	48:BR:56:LYS:CB	2.62	0.48
50:BT:96:ARG:HB3	50:BT:96:ARG:CZ	2.42	0.48
36:DB:115:G:H2'	36:DB:116:G:H8	1.78	0.48
35:DA:2378:A:O2'	49:DS:22:GLY:HA3	2.12	0.48
49:DS:79:ALA:C	49:DS:80:LEU:HD12	2.33	0.48
49:DS:89:ARG:HB3	49:DS:97:ARG:HH22	1.79	0.48
2:CB:80:ILE:HG12	2:CB:211:ILE:CG2	2.43	0.48
2:AB:42:ILE:CD1	2:AB:203:GLY:H	2.24	0.48
15:CO:56:LEU:HA	15:CO:59:MET:CE	2.43	0.48
35:DA:1260:G:H2'	35:DA:1261:C:C6	2.49	0.48
35:DA:802:A:N3	35:DA:802:A:H2'	2.28	0.48
1:AA:438:G:H4'	4:AD:123:HIS:ND1	2.29	0.48
1:AA:1234:C:C4'	1:AA:1364:U:H1'	2.43	0.48
4:AD:13:ARG:CG	4:AD:14:ARG:N	2.75	0.48
4:AD:15:GLU:CD	4:AD:15:GLU:H	2.17	0.48
35:DA:869:G:H2'	35:DA:870:A:C8	2.48	0.48
47:DQ:41:TRP:HB3	47:DQ:94:VAL:HG21	1.95	0.48
35:DA:869:G:O2'	47:DQ:8:LYS:HD3	2.13	0.48
35:DA:2736:G:O2'	35:DA:2737:G:H5'	2.13	0.48
2:AB:95:GLN:HB3	2:AB:148:TYR:HD1	1.78	0.48
25:CY:135:GLU:O	25:CY:138:ASP:HB2	2.13	0.48
25:CY:139:LYS:O	25:CY:140:LEU:C	2.51	0.48
25:CY:163:LYS:O	25:CY:164:ILE:C	2.52	0.48
25:CY:30:THR:HB	25:CY:182:GLU:OE2	2.14	0.48
7:CG:102:ARG:O	7:CG:103:TRP:C	2.50	0.48
12:AL:58:VAL:O	12:AL:60:LEU:HD22	2.14	0.48
7:AG:146:GLU:CA	7:AG:149:ARG:HB2	2.44	0.48
7:AG:149:ARG:HD3	11:AK:59:TYR:CZ	2.48	0.48
1:AA:640:A:H4'	8:AH:116:LYS:HZ1	1.79	0.48
25:CY:80:GLU:HG3	25:CY:94:ASN:OD1	2.14	0.48
1:CA:1348:U:H2'	1:CA:1349:A:C8	2.49	0.48
8:CH:65:TYR:HA	8:CH:79:VAL:HG23	1.95	0.48
1:AA:1349:A:O2'	1:AA:1350:A:H5'	2.13	0.48
31:B5:32:PRO:O	31:B5:33:CYS:CB	2.61	0.48
1:AA:1166:G:H2'	1:AA:1169:A:OP2	2.14	0.48
33:D7:41:ARG:O	33:D7:42:LEU:C	2.52	0.48
38:BD:118:VAL:HG22	38:BD:119:ALA:H	1.77	0.48
35:BA:2175:C:C3'	35:BA:2176:A:H5''	2.43	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2306:C:H5'	35:BA:2307:G:O5'	2.13	0.48
35:BA:2831:G:O4'	35:BA:2883:A:C2	2.66	0.48
35:DA:444:C:O2'	35:DA:445:C:H5'	2.13	0.48
1:CA:389:A:H2'	1:CA:390:C:C5'	2.43	0.48
12:AL:41:ARG:CG	12:AL:42:THR:H	2.26	0.48
32:D6:47:THR:HG22	32:D6:49:HIS:H	1.77	0.48
35:DA:1367:A:H3'	35:DA:1368:G:O4'	2.13	0.48
38:BD:113:VAL:C	38:BD:115:GLN:H	2.15	0.48
35:DA:469:G:O2'	35:DA:470:A:H5'	2.14	0.48
3:AC:178:LEU:N	3:AC:178:LEU:HD22	2.29	0.48
35:DA:745:G:C2'	35:DA:746:A:H5'	2.44	0.48
1:AA:893:C:H2'	1:AA:894:G:H8	1.75	0.48
11:CK:122:LYS:O	11:CK:126:ARG:HB3	2.14	0.48
1:AA:66:G:C4'	1:AA:173:U:C5	2.94	0.48
1:AA:1238:A:H62	1:AA:1301:U:H3	1.62	0.48
7:AG:47:CYS:HB3	7:AG:58:PRO:CG	2.44	0.48
1:AA:666:G:H1'	1:AA:741:G:H22	1.79	0.48
2:CB:95:GLN:HB3	2:CB:148:TYR:HD1	1.77	0.48
35:DA:917:A:H2'	35:DA:918:A:O4'	2.13	0.48
31:D5:19:ARG:HG3	35:DA:2046:G:H5'	1.95	0.48
6:AF:16:GLN:O	6:AF:19:LEU:N	2.47	0.48
35:DA:2642:G:N2	35:DA:2773:C:C2	2.81	0.48
53:BW:12:ILE:HD12	53:BW:42:ARG:HH11	1.78	0.48
35:DA:481:G:C2'	35:DA:482:A:OP2	2.61	0.48
44:BN:128:HIS:C	44:BN:130:HIS:HD1	2.17	0.48
17:AQ:11:VAL:CA	17:AQ:53:LEU:HD11	2.43	0.48
1:CA:1289:A:H3'	1:CA:1290:G:H8	1.79	0.48
35:DA:2505:G:H2'	35:DA:2576:G:C6	2.49	0.48
1:AA:1152:A:H2'	1:AA:1153:C:C6	2.47	0.48
35:DA:1196:C:H2'	35:DA:1197:G:H8	1.78	0.48
35:BA:314:A:O2'	35:BA:315:G:H5'	2.13	0.48
1:CA:1163:C:N3	1:CA:1174:G:N2	2.61	0.48
1:AA:473:G:H2'	1:AA:474:G:C8	2.47	0.48
37:BC:83:ILE:O	37:BC:83:ILE:HG22	2.14	0.48
35:BA:2460:U:H2'	35:BA:2461:C:O4'	2.13	0.48
35:DA:1305:C:O2'	35:DA:1306:C:H5'	2.14	0.48
35:DA:951:C:O2'	35:DA:952:G:H5'	2.12	0.48
47:BQ:42:ILE:HD12	47:BQ:42:ILE:N	2.28	0.48
35:BA:1500:G:C6	35:BA:1501:C:N3	2.82	0.48
35:DA:1543:C:O2	35:DA:1543:C:C2'	2.60	0.48
35:DA:733:G:O5'	35:DA:733:G:H8	1.96	0.48
1:AA:615:C:H2'	1:AA:616:G:O4'	2.12	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:DE:8:LYS:HD2	39:DE:189:PRO:O	2.14	0.48
30:D4:14:ILE:CB	41:DG:5:VAL:HG22	2.44	0.48
35:BA:1566:A:C4	38:BD:214:TRP:CE3	3.02	0.48
35:BA:778:G:H4'	38:BD:48:ARG:HD2	1.96	0.48
41:DG:49:ASP:O	41:DG:50:ALA:CB	2.62	0.48
34:B8:29:LYS:NZ	34:B8:44:LYS:CB	2.77	0.48
45:BO:104:ARG:O	45:BO:107:ARG:N	2.42	0.48
45:BO:11:ALA:HB2	45:BO:64:ARG:NH2	2.28	0.48
35:DA:2052:G:H4'	39:DE:143:ASN:O	2.14	0.48
39:BE:31:CYS:HB3	39:BE:49:LEU:HB3	1.95	0.48
42:DH:125:VAL:HG12	42:DH:127:GLU:O	2.14	0.48
42:DH:89:ILE:HG12	42:DH:90:LYS:N	2.28	0.48
54:BX:83:VAL:C	54:BX:85:PRO:CD	2.82	0.48
27:B1:47:GLN:O	27:B1:64:ALA:HB2	2.14	0.48
41:BG:105:LYS:HE2	41:BG:143:GLU:OE2	2.14	0.48
41:BG:19:LEU:HD21	41:BG:175:LEU:HD11	1.94	0.48
41:BG:73:ALA:O	41:BG:85:GLY:HA2	2.13	0.48
35:DA:1598:C:H5'	54:DX:37:THR:HB	1.96	0.48
35:BA:2639:A:C2'	35:BA:2640:G:C5'	2.85	0.48
51:DU:108:GLU:HA	51:DU:111:GLU:HG2	1.95	0.48
3:CC:182:ILE:HG12	3:CC:203:PHE:HD1	1.79	0.48
19:CS:36:ARG:HH12	19:CS:75:ALA:CB	2.24	0.48
43:DI:91:SER:H	43:DI:121:LYS:HE3	1.77	0.48
1:CA:1057:G:H5''	3:CC:154:SER:HG	1.77	0.48
40:BF:39:TRP:CE3	40:BF:40:GLN:HG2	2.48	0.48
34:D8:39:LYS:HZ2	34:D8:40:GLU:HA	1.78	0.48
34:D8:39:LYS:O	34:D8:42:ARG:HB3	2.13	0.48
44:DN:67:LEU:HD22	44:DN:88:GLU:HG2	1.96	0.48
35:BA:514:A:H2'	35:BA:515:A:H8	1.77	0.48
35:BA:674:G:H2'	35:BA:804:A:H61	1.77	0.48
46:BP:38:GLN:O	46:BP:39:LYS:HB2	2.13	0.48
47:BQ:87:LYS:O	47:BQ:87:LYS:CG	2.52	0.48
48:DR:52:ILE:HD12	48:DR:79:LEU:HD21	1.94	0.48
48:BR:63:ARG:C	48:BR:67:LEU:HD23	2.34	0.48
50:BT:109:GLU:HA	50:BT:112:ARG:HD2	1.95	0.48
49:DS:28:VAL:N	49:DS:89:ARG:HG2	2.29	0.48
35:DA:2239:G:C5	35:DA:2240:C:C5	3.02	0.48
35:DA:8:A:H2	35:DA:2896:C:O2	1.97	0.48
6:CF:68:PRO:HG3	6:CF:71:ARG:HE	1.79	0.48
15:CO:85:LEU:HD12	15:CO:87:ILE:HD11	1.94	0.48
34:D8:61:LEU:O	34:D8:64:TYR:HD1	1.95	0.48
35:DA:576:U:H2'	35:DA:577:G:C8	2.49	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:833:U:P	46:DP:45:LEU:HD11	2.54	0.48
4:AD:68:TYR:CZ	4:AD:97:LEU:HD22	2.48	0.48
19:AS:16:LEU:O	19:AS:20:LEU:N	2.44	0.48
35:DA:105:C:C5'	35:DA:106:C:OP2	2.61	0.48
1:AA:880:C:H2'	1:AA:881:G:H8	1.77	0.48
4:AD:13:ARG:O	4:AD:15:GLU:N	2.47	0.48
43:DI:111:PRO:HA	43:DI:114:LEU:HD11	1.94	0.48
35:DA:911:A:H5''	35:DA:912:C:H5''	1.96	0.48
6:AF:67:MET:HE2	6:AF:72:VAL:H	1.78	0.48
35:BA:2481:G:HO2'	35:BA:2482:G:P	2.35	0.48
1:CA:1323:G:H2'	1:CA:1324:A:C8	2.48	0.48
12:CL:25:PRO:O	12:CL:27:LEU:HD22	2.14	0.48
1:CA:1306:A:H2'	1:CA:1307:U:O4'	2.12	0.48
7:CG:92:SER:OG	7:CG:93:PRO:HD2	2.13	0.48
1:CA:599:C:H2'	1:CA:600:C:C6	2.47	0.48
35:BA:111:A:O2'	35:BA:112:U:H5'	2.13	0.48
13:AM:91:ARG:O	13:AM:96:LEU:N	2.47	0.48
35:DA:261:G:C1'	35:DA:609:A:H2	2.27	0.48
35:DA:1246:A:P	46:DP:16:ARG:HH12	2.36	0.48
2:CB:145:LEU:HD22	2:CB:149:LEU:HD12	1.94	0.48
3:CC:173:VAL:N	3:CC:174:PRO:CD	2.77	0.48
1:AA:1507:A:H2	1:AA:1530:G:C1'	2.24	0.48
5:CE:71:LEU:HD11	5:CE:114:GLY:C	2.33	0.48
1:AA:1343:G:H4'	9:AI:122:ALA:O	2.13	0.48
33:D7:16:HIS:ND1	35:DA:465:G:H4'	2.29	0.48
33:D7:24:THR:CG2	33:D7:27:GLY:HA3	2.35	0.48
11:CK:34:ASP:HB2	11:CK:35:PRO:CD	2.43	0.48
35:BA:494:G:O2'	35:BA:495:G:H5'	2.13	0.48
35:DA:1927:A:C6	35:DA:1928:A:C6	3.02	0.48
35:DA:271(V):G:C2	35:DA:271(W):G:H1'	2.48	0.48
1:CA:1054:C:P	1:CA:1197:G:OP2	2.71	0.48
3:AC:84:ILE:HA	3:AC:87:LEU:HB2	1.96	0.48
31:B5:3:LYS:HB2	35:BA:747:U:C5	2.48	0.48
35:DA:460:A:C6	35:DA:470:A:C8	3.01	0.48
1:CA:1279:A:H2'	1:CA:1279:A:N3	2.28	0.48
13:CM:3:ARG:HG2	13:CM:9:ILE:HD11	1.94	0.48
4:CD:3:ARG:HD3	4:CD:3:ARG:O	2.13	0.48
41:DG:4:ASP:HB3	41:DG:8:LYS:HE3	1.94	0.48
35:BA:1006:C:H2'	35:BA:1007:C:H6	1.77	0.48
35:DA:154:G:H1	35:DA:172:C:N4	2.09	0.48
29:B3:59:VAL:CG1	29:B3:60:GLU:N	2.71	0.48
1:AA:439:A:C4	1:AA:496:A:C2	3.01	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:BG:34:LEU:HD12	41:BG:100:TRP:CZ3	2.48	0.48
56:DZ:134:PRO:O	56:DZ:135:GLU:C	2.52	0.48
53:DW:69:LEU:HA	53:DW:109:GLU:HA	1.95	0.48
1:CA:1260:C:H4'	1:CA:1284:C:H5'	1.96	0.48
3:AC:116:VAL:O	3:AC:119:ARG:HB3	2.14	0.48
3:AC:91:LEU:CB	3:AC:99:VAL:HG21	2.43	0.48
4:CD:196:LEU:HB3	4:CD:197:PRO:HD2	1.94	0.48
35:DA:2552:U:C2	35:DA:2554:U:H5'	2.48	0.48
3:AC:40:ARG:O	3:AC:41:GLY:C	2.51	0.48
35:BA:2323:G:H2'	35:BA:2324:C:O4'	2.12	0.48
39:DE:16:ARG:O	39:DE:17:ASP:HB3	2.13	0.48
35:DA:1360:A:C6	35:DA:1372:U:C5	3.02	0.48
35:DA:1472:A:O2'	35:DA:1473:G:H5'	2.14	0.48
26:D0:56:ASP:CG	26:D0:58:THR:HG1	2.16	0.48
53:DW:92:ARG:NH1	53:DW:92:ARG:HG2	2.29	0.48
1:AA:516:U:O2'	1:AA:517:G:H5'	2.14	0.48
1:CA:615:C:H2'	1:CA:616:G:O4'	2.14	0.48
35:DA:1638:C:H2'	35:DA:1639:U:C6	2.49	0.48
50:DT:100:TYR:O	50:DT:103:ARG:N	2.47	0.48
50:DT:106:SER:O	50:DT:107:ASP:CB	2.62	0.48
38:BD:25:THR:HG23	38:BD:25:THR:O	2.12	0.48
38:DD:96:HIS:CE1	38:DD:102:LYS:HD2	2.49	0.48
35:DA:2314:C:H2'	35:DA:2315:G:C8	2.47	0.48
36:DB:40:U:C4	36:DB:43:C:H5''	2.47	0.48
41:DG:171:ALA:O	41:DG:172:LEU:C	2.52	0.48
41:DG:60:LEU:CA	41:DG:63:ILE:HG13	2.42	0.48
41:DG:85:GLY:O	41:DG:86:MET:HB2	2.13	0.48
41:DG:92:VAL:CG2	41:DG:93:THR:N	2.77	0.48
32:B6:52:VAL:HG12	32:B6:52:VAL:O	2.13	0.48
35:BA:2284:C:N3	35:BA:2384:G:N2	2.44	0.48
56:BZ:101:PRO:O	56:BZ:102:LEU:HD23	2.13	0.48
56:BZ:91:LEU:H	56:BZ:91:LEU:HD12	1.77	0.48
39:BE:3:GLY:O	39:BE:4:ILE:CB	2.62	0.48
51:BU:88:ILE:O	51:BU:90:VAL:N	2.47	0.48
42:DH:87:LEU:HD23	42:DH:164:TYR:HA	1.94	0.48
35:BA:143:G:O4'	54:BX:38:GLU:HG3	2.14	0.48
35:DA:2892:A:N6	35:DA:2893:G:H21	2.12	0.48
41:BG:138:GLN:C	41:BG:140:ILE:H	2.16	0.48
41:BG:77:ILE:CD1	41:BG:82:LEU:O	2.62	0.48
35:DA:142:A:C8	35:DA:1408:C:H1'	2.49	0.48
56:DZ:140:ASP:OD2	56:DZ:140:ASP:N	2.47	0.48
35:DA:998:C:OP2	51:DU:93:LYS:HE2	2.13	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
51:DU:95:LEU:HA	51:DU:97:ASP:OD1	2.13	0.48
4:CD:202:LEU:C	4:CD:204:ILE:N	2.66	0.48
27:D1:71:TYR:HA	27:D1:74:VAL:CG2	2.44	0.48
46:DP:68:GLN:O	46:DP:68:GLN:HG3	2.14	0.48
35:BA:1166:C:H2'	35:BA:1167:U:H6	1.78	0.48
35:BA:576:U:H2'	35:BA:577:G:C8	2.48	0.48
35:BA:677:A:N1	35:BA:802:A:C5	2.81	0.48
46:BP:34:GLY:O	46:BP:35:HIS:C	2.51	0.48
40:DF:117:ARG:CZ	46:DP:5:ASP:N	2.77	0.48
47:BQ:73:PRO:HA	47:BQ:93:TYR:CD2	2.48	0.48
35:BA:958:U:OP2	47:BQ:74:TYR:HE1	1.97	0.48
48:DR:63:ARG:C	48:DR:67:LEU:HD23	2.33	0.48
1:AA:1422:G:N2	1:AA:1479:C:N3	2.62	0.48
1:AA:329:A:C2	1:AA:332:G:C5	3.02	0.48
35:BA:1281:G:H1	35:BA:1286:A:H62	1.62	0.48
35:BA:1652:A:H62	48:BR:11:ASN:HD21	1.61	0.48
35:BA:2711:A:OP1	35:BA:2712(A):A:OP1	2.31	0.48
41:DG:28:VAL:O	41:DG:31:VAL:HG11	2.13	0.48
2:CB:77:ALA:O	2:CB:80:ILE:HG23	2.12	0.48
2:AB:193:ASP:O	2:AB:194:PRO:O	2.32	0.48
44:DN:120:LEU:HD13	44:DN:121:LYS:N	2.28	0.48
56:BZ:146:ILE:O	56:BZ:147:GLY:C	2.51	0.48
6:CF:21:LEU:C	6:CF:25:ILE:HG12	2.34	0.48
15:CO:74:ASP:OD2	15:CO:77:ARG:HG2	2.14	0.48
2:CB:85:ALA:HB1	2:CB:92:TYR:HB3	1.96	0.48
35:DA:1256:G:O2'	40:DF:82:ILE:HD12	2.14	0.48
4:AD:154:ASN:CA	4:AD:159:ARG:HH21	2.27	0.48
4:AD:92:VAL:O	4:AD:96:LEU:HD22	2.14	0.48
35:DA:78:A:O2'	35:DA:79:G:H5'	2.13	0.48
1:AA:575:G:N1	1:AA:821:G:C5	2.81	0.48
18:AR:71:LYS:O	18:AR:75:ILE:HG13	2.14	0.48
7:AG:104:LEU:CD2	7:AG:104:LEU:H	2.26	0.48
16:CP:25:ARG:HG3	16:CP:25:ARG:HH11	1.79	0.48
1:AA:705:U:C5	1:AA:706:A:C5	3.02	0.48
35:BA:1309:G:C2'	35:BA:1310:G:H5'	2.44	0.48
35:BA:768:G:O2'	35:BA:1379:A:N6	2.45	0.48
35:DA:2246:G:N2	35:DA:2426:A:H1'	2.29	0.48
42:DH:66:GLY:O	42:DH:69:ARG:N	2.47	0.48
35:BA:80:G:O2'	35:BA:81:G:H5'	2.13	0.48
5:AE:37:ARG:HA	5:AE:112:LEU:O	2.13	0.48
45:BO:119:PRO:HB2	50:BT:68:TYR:HE1	1.75	0.48
1:AA:1499:A:H2'	1:AA:1500:A:H5'	1.94	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:919:A:C2'	1:AA:920:U:O5'	2.62	0.48
43:DI:2:LYS:O	43:DI:3:VAL:HG13	2.14	0.48
35:BA:2472:G:C5'	35:BA:2473:U:H5''	2.42	0.48
56:DZ:76:LEU:N	56:DZ:76:LEU:HD23	2.26	0.48
12:AL:54:LYS:CD	12:AL:54:LYS:N	2.74	0.48
42:BH:13:LYS:C	42:BH:15:VAL:N	2.65	0.48
16:AP:8:ARG:NH1	16:AP:8:ARG:HG2	2.25	0.48
1:AA:1349:A:OP1	9:AI:120:ARG:HB3	2.13	0.48
9:CI:87:GLN:C	9:CI:89:ASN:H	2.17	0.48
35:DA:365:C:H5'	35:DA:365:C:H6	1.78	0.48
35:BA:1497:U:H3	35:BA:1578:U:P	2.37	0.48
17:CQ:47:PRO:HG2	17:CQ:48:GLU:CD	2.34	0.48
17:CQ:70:ARG:C	17:CQ:71:PHE:HD2	2.16	0.48
1:AA:389:A:H2'	1:AA:390:C:C5'	2.43	0.48
35:BA:2189:U:H2'	35:BA:2190:G:O4'	2.14	0.48
35:BA:1233:C:C2'	35:BA:1234:U:H5'	2.43	0.48
26:B0:43:THR:N	35:BA:2331:G:H4'	2.29	0.48
29:D3:11:SER:OG	29:D3:12:PRO:HD2	2.13	0.48
13:CM:49:THR:HG22	13:CM:50:GLU:N	2.29	0.48
1:AA:336:C:H2'	1:AA:337:C:H6	1.79	0.48
2:AB:39:ILE:HG22	2:AB:40:HIS:N	2.28	0.48
35:BA:2194:G:H5'	35:BA:2195:C:OP2	2.13	0.48
43:DI:48:GLU:O	43:DI:51:ILE:HB	2.12	0.48
35:BA:2102:U:H2'	35:BA:2103:C:C5	2.48	0.48
35:DA:1465:G:H5'	35:DA:1528:A:H8	1.79	0.48
43:BI:45:LYS:O	43:BI:48:GLU:HB3	2.13	0.48
35:DA:360:G:H2'	35:DA:361:G:C8	2.49	0.48
35:BA:2006:C:H2'	35:BA:2007:C:C6	2.48	0.48
35:DA:1390:U:H6	35:DA:1390:U:OP2	1.97	0.48
35:DA:795:C:H2'	35:DA:796:C:H6	1.78	0.48
7:CG:22:LEU:HD12	7:CG:22:LEU:O	2.13	0.48
23:CW:8:U:O2	23:CW:8:U:H2'	2.14	0.48
35:DA:2881:C:H2'	35:DA:2882:A:C8	2.43	0.48
35:BA:1516:C:H2'	35:BA:1517:G:C8	2.47	0.48
23:CW:43:G:C2'	23:CW:44:A:H5''	2.44	0.48
2:CB:135:GLN:O	2:CB:139:LYS:HB2	2.14	0.48
11:CK:86:GLY:N	11:CK:112:THR:OG1	2.47	0.48
35:BA:1127:A:H2'	35:BA:1128:A:H5''	1.94	0.48
35:DA:2650:U:H2'	35:DA:2651:C:C6	2.49	0.48
1:AA:652:U:H2'	1:AA:752:G:N1	2.28	0.48
35:DA:67:U:H2'	35:DA:68:G:C8	2.48	0.48
35:BA:2550:G:H2'	35:BA:2551:C:H6	1.79	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
23:CW:39:A:C2'	23:CW:40:C:H5'	2.44	0.48
1:AA:1237:C:H4'	1:AA:1334:G:N2	2.28	0.48
3:CC:40:ARG:HH11	3:CC:40:ARG:HG3	1.77	0.48
47:BQ:77:LYS:C	47:BQ:79:LEU:H	2.17	0.48
1:CA:1235:U:H5'	21:CU:14:TRP:CZ2	2.48	0.48
35:BA:2791:C:H6	35:BA:2793:G:O6	1.97	0.48
35:BA:2359:C:H6	35:BA:2359:C:O5'	1.97	0.48
4:AD:42:GLN:C	4:AD:42:GLN:OE1	2.52	0.48
36:DB:4:C:H2'	36:DB:5:C:O4'	2.13	0.48
37:BC:67:GLY:O	37:BC:69:GLY:N	2.46	0.48
29:D3:28:LEU:HA	29:D3:33:GLN:OE1	2.12	0.48
43:BI:20:ASP:O	43:BI:21:VAL:HG13	2.14	0.48
35:DA:2681:C:C4	35:DA:2724:C:C5	3.02	0.48
35:DA:2730:C:H2'	35:DA:2731:G:H8	1.78	0.48
45:DO:85:VAL:HG12	45:DO:86:ILE:N	2.28	0.48
50:DT:100:TYR:CD1	50:DT:100:TYR:N	2.81	0.48
14:CN:36:PHE:CD1	14:CN:36:PHE:O	2.66	0.48
38:BD:209:ALA:O	38:BD:210:GLY:O	2.31	0.48
35:DA:782:A:P	35:DA:782:A:H8	2.36	0.48
34:B8:25:MET:HB2	46:BP:62:LEU:CD1	2.42	0.48
47:DQ:20:ALA:CB	47:DQ:99:PRO:HG2	2.36	0.48
45:BO:98:VAL:HG22	45:BO:99:PHE:N	2.29	0.48
47:BQ:134:ARG:C	47:BQ:136:ALA:H	2.17	0.48
56:BZ:6:LYS:HG3	56:BZ:62:PRO:HG3	1.96	0.48
56:BZ:79:ARG:O	56:BZ:80:ARG:HB2	2.14	0.48
39:DE:120:TRP:O	39:DE:122:PHE:N	2.46	0.48
39:BE:44:TYR:CD1	39:BE:44:TYR:N	2.82	0.48
51:BU:98:LEU:C	51:BU:100:VAL:N	2.67	0.48
51:BU:110:VAL:O	51:BU:113:ALA:HB3	2.14	0.48
51:BU:87:GLY:O	51:BU:88:ILE:HG23	2.14	0.48
42:DH:153:LYS:O	42:DH:161:GLY:HA3	2.13	0.48
1:AA:971:G:C4'	1:AA:972:C:H5''	2.42	0.48
39:DE:105:THR:HB	39:DE:197:ILE:HG12	1.96	0.48
41:BG:43:LEU:CD2	41:BG:43:LEU:N	2.77	0.48
41:BG:86:MET:N	41:BG:87:PRO:CD	2.77	0.48
34:B8:10:ALA:C	34:B8:12:LYS:H	2.17	0.48
28:D2:29:LYS:HA	28:D2:32:LEU:CD2	2.37	0.48
35:DA:90:U:O2'	35:DA:92:A:H5''	2.13	0.48
54:DX:58:HIS:C	54:DX:59:VAL:HG22	2.34	0.48
54:DX:72:LYS:HE3	54:DX:74:PRO:CB	2.28	0.48
42:BH:153:LYS:O	42:BH:161:GLY:HA3	2.14	0.48
56:DZ:125:LEU:O	56:DZ:165:VAL:HG23	2.14	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:DN:36:GLY:HA3	44:DN:48:MET:CE	2.43	0.48
52:DV:4:ILE:CG1	52:DV:40:LEU:HD11	2.43	0.48
39:BE:117:MET:HE3	39:BE:124:GLY:HA3	1.95	0.48
27:D1:88:LYS:O	27:D1:92:LYS:HB2	2.13	0.48
27:D1:93:GLU:N	27:D1:93:GLU:CD	2.67	0.48
51:BU:7:GLY:O	51:BU:8:VAL:CG2	2.62	0.48
52:BV:71:LEU:CD1	52:BV:72:VAL:H	2.18	0.48
1:AA:327:A:C4	1:AA:329:A:C8	3.02	0.48
35:BA:2718:G:O2'	35:BA:2719:G:H5'	2.14	0.48
48:BR:26:LYS:HE2	48:BR:71:GLN:N	2.28	0.48
49:DS:87:PHE:CZ	49:DS:97:ARG:NH2	2.82	0.48
1:CA:833:U:H2'	1:CA:834:C:C5	2.49	0.48
2:CB:36:ARG:O	2:CB:37:ASN:C	2.52	0.48
35:DA:669:G:N2	35:DA:670:A:C4	2.82	0.48
35:DA:1203:G:O6	35:DA:1204:A:N6	2.47	0.48
1:AA:408:A:C6	1:AA:409:G:C5	3.02	0.48
35:DA:957:A:H5'	47:DQ:76:LYS:HG3	1.96	0.48
6:AF:40:VAL:HG23	6:AF:62:TRP:O	2.14	0.48
18:AR:66:LEU:HG	18:AR:70:ILE:HD11	1.96	0.48
47:BQ:48:GLU:O	47:BQ:52:VAL:HG12	2.13	0.48
47:BQ:58:PHE:O	47:BQ:59:ARG:C	2.52	0.48
1:AA:940:C:H2'	1:AA:941:G:C8	2.48	0.48
25:CY:10:THR:C	25:CY:12:SER:H	2.17	0.48
13:CM:84:ILE:HB	19:CS:66:MET:HE1	1.96	0.48
21:AU:12:LYS:HG2	21:AU:22:ARG:HB2	1.96	0.48
35:BA:745:G:C2'	35:BA:746:A:H5'	2.43	0.48
25:AY:14:MET:HA	25:AY:132:ILE:CD1	2.44	0.48
2:CB:175:ARG:O	2:CB:177:ALA:N	2.46	0.48
8:AH:27:PRO:HG3	8:AH:58:TYR:CE2	2.48	0.48
8:AH:4:ASP:OD1	8:AH:6:ILE:HB	2.14	0.48
35:BA:2475:C:N4	35:BA:2529:G:H22	1.96	0.48
31:D5:31:VAL:CB	31:D5:32:PRO:HD2	2.34	0.48
1:AA:625:G:H4'	16:AP:16:HIS:CD2	2.49	0.48
38:BD:117:VAL:HG21	38:BD:128:GLY:C	2.34	0.48
40:BF:12:LEU:O	40:BF:14:PRO:HD3	2.14	0.48
1:CA:1487:G:O2'	1:CA:1488:G:H5'	2.13	0.48
35:DA:2208:A:H1'	35:DA:2219:G:C5	2.49	0.48
1:CA:112:G:C2'	1:CA:113:G:H5'	2.44	0.48
27:B1:28:GLY:C	27:B1:30:VAL:N	2.52	0.48
40:DF:9:ILE:HG12	40:DF:14:PRO:CA	2.43	0.48
3:AC:156:ARG:O	3:AC:158:GLY:N	2.47	0.48
35:BA:444:C:O5'	51:BU:2:PRO:HD3	2.12	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
20:CT:22:ARG:O	20:CT:23:ARG:C	2.51	0.48
1:AA:836:G:C6	1:AA:851:G:C6	3.01	0.48
53:DW:20:VAL:O	53:DW:23:LEU:N	2.46	0.48
16:CP:82:GLN:O	16:CP:84:ALA:N	2.47	0.48
4:AD:3:ARG:O	4:AD:4:TYR:C	2.52	0.48
33:B7:11:LYS:HE2	35:BA:686:G:H5'	1.96	0.48
35:BA:860:U:O4'	35:BA:860:U:O2	2.30	0.48
36:BB:79:C:C2'	36:BB:80:U:H5'	2.43	0.48
1:AA:730:G:C5	1:AA:731:G:H1'	2.49	0.48
13:CM:37:THR:O	13:CM:39:ILE:HG13	2.13	0.48
13:AM:11:ARG:O	13:AM:13:LYS:HG3	2.14	0.48
43:BI:54:GLN:OE1	43:BI:54:GLN:C	2.52	0.48
15:AO:62:GLN:O	15:AO:63:ARG:C	2.51	0.48
15:AO:77:ARG:O	15:AO:80:ALA:HB3	2.14	0.48
35:BA:1361:G:O2'	35:BA:1362:C:H5'	2.13	0.48
2:CB:19:HIS:O	2:CB:20:GLU:O	2.32	0.48
2:CB:39:ILE:HG22	2:CB:40:HIS:N	2.29	0.48
35:DA:431:U:H6	35:DA:431:U:O5'	1.96	0.48
35:DA:1812:A:C1'	38:DD:46:GLN:HE22	2.27	0.48
35:DA:862:G:H2'	35:DA:863:A:O4'	2.12	0.48
35:DA:862:G:H3'	35:DA:863:A:H8	1.79	0.48
35:BA:2464:C:O2'	35:BA:2465:C:P	2.72	0.48
36:BB:64:C:H2'	36:BB:65:C:H6	1.77	0.48
1:AA:156:G:C2	1:AA:166:G:N1	2.81	0.48
7:CG:148:ASN:N	7:CG:148:ASN:HD22	2.11	0.48
45:DO:13:ASN:HD21	45:DO:96:THR:N	2.11	0.48
53:DW:65:LEU:HD23	53:DW:65:LEU:C	2.34	0.48
23:AW:53:G:N2	23:AW:64:G:H1	2.11	0.48
35:DA:1324:G:H3'	35:DA:1325:G:C4'	2.43	0.48
23:CW:43:G:H2'	23:CW:44:A:C4'	2.44	0.48
1:AA:764:C:C2'	1:AA:765:G:H8	2.27	0.48
51:BU:29:SER:O	51:BU:30:LYS:NZ	2.41	0.48
35:DA:1515:G:O2'	35:DA:1516:C:H5'	2.14	0.48
1:CA:359:U:H2'	1:CA:360:A:H8	1.79	0.48
35:BA:271(H):G:HO2'	35:BA:271(I):G:H8	1.62	0.48
29:D3:48:GLU:O	29:D3:51:ALA:HB2	2.14	0.48
1:AA:746:A:H2'	1:AA:747:C:C6	2.49	0.48
1:CA:1015:A:H2'	1:CA:1016:A:C8	2.48	0.48
1:AA:1133:G:H2'	1:AA:1134:G:C8	2.49	0.48
56:DZ:137:ILE:HD12	56:DZ:157:LEU:HA	1.95	0.48
37:BC:64:LEU:CD1	37:BC:66:HIS:HB2	2.43	0.48
3:AC:40:ARG:HB3	3:AC:44:GLU:OE2	2.14	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:830:G:N3	35:DA:2448:A:N6	2.62	0.48
1:AA:1383:C:O2'	1:AA:1384:C:H5'	2.13	0.48
1:CA:372:C:H4'	1:CA:373:A:OP1	2.13	0.48
35:BA:2253:G:C6	35:BA:2254:C:N3	2.82	0.48
9:CI:85:LEU:HD12	9:CI:85:LEU:C	2.33	0.48
39:BE:19:ARG:HG3	39:BE:19:ARG:O	2.13	0.48
35:DA:2759:G:H5'	35:DA:2759:G:H8	1.79	0.48
35:DA:2845:G:H5''	50:DT:55:ASN:HA	1.96	0.48
35:DA:2846:G:H2'	35:DA:2847:U:H6	1.79	0.48
45:DO:2:ILE:CD1	45:DO:6:THR:HG21	2.43	0.48
50:DT:52:ILE:CG2	50:DT:61:PHE:HB2	2.42	0.48
1:CA:961:U:OP2	1:CA:1223:C:H4'	2.14	0.48
35:BA:1803:A:H4'	38:BD:259:THR:CG2	2.44	0.48
35:BA:778:G:C5	35:BA:779:U:C4	3.02	0.48
45:BO:61:VAL:CG1	45:BO:85:VAL:HB	2.43	0.48
50:BT:53:ARG:NH1	50:BT:53:ARG:CG	2.75	0.48
50:BT:62:THR:CG2	50:BT:75:ILE:HG13	2.42	0.48
16:AP:32:TYR:CE2	16:AP:35:LYS:HB2	2.49	0.48
39:BE:52:LEU:HB3	39:BE:76:ARG:H	1.77	0.48
51:BU:113:ALA:O	51:BU:116:ALA:HB3	2.14	0.48
34:D8:10:ALA:C	34:D8:12:LYS:H	2.17	0.48
28:B2:46:GLN:HE21	28:B2:47:ASN:CA	2.26	0.48
54:BX:31:HIS:HD2	54:BX:33:LYS:O	1.97	0.48
54:BX:33:LYS:O	54:BX:34:ALA:C	2.52	0.48
27:B1:10:LYS:HB2	27:B1:14:VAL:N	2.29	0.48
41:BG:170:ARG:HH22	41:BG:182:LYS:HZ1	1.61	0.48
41:BG:3:LEU:O	41:BG:8:LYS:HE2	2.14	0.48
41:BG:77:ILE:CD1	41:BG:81:LYS:O	2.62	0.48
35:DA:143:G:C4'	54:DX:38:GLU:HG3	2.44	0.48
54:DX:83:VAL:O	54:DX:83:VAL:HG23	2.13	0.48
41:BG:29:TRP:C	41:BG:31:VAL:N	2.66	0.48
42:BH:102:ALA:HB2	42:BH:116:GLU:HA	1.96	0.48
56:DZ:150:LEU:HD23	56:DZ:171:ILE:CG1	2.44	0.48
51:DU:98:LEU:O	51:DU:101:ARG:O	2.32	0.48
51:DU:59:ARG:C	51:DU:61:TRP:N	2.66	0.48
51:DU:78:THR:C	51:DU:80:ILE:N	2.66	0.48
45:DO:112:MET:O	45:DO:113:LYS:C	2.51	0.48
49:BS:83:LYS:HA	49:BS:104:GLY:CA	2.40	0.48
4:CD:121:VAL:HA	4:CD:126:ILE:HD12	1.96	0.48
44:BN:67:LEU:HD22	44:BN:88:GLU:HG2	1.96	0.48
44:BN:70:LYS:HG3	44:BN:72:TYR:HE1	1.78	0.48
40:BF:125:LEU:HD11	40:BF:199:TRP:CG	2.48	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:DP:62:LEU:CD1	46:DP:62:LEU:N	2.64	0.48
44:DN:64:GLY:O	44:DN:65:LYS:HE3	2.13	0.48
46:BP:47:ASP:HB2	46:BP:51:PHE:HD2	1.78	0.48
40:DF:6:VAL:CG2	40:DF:124:LEU:HA	2.41	0.48
40:DF:186:ILE:HG23	40:DF:192:LEU:HD12	1.95	0.48
40:DF:202:PHE:CE1	40:DF:206:ILE:HD13	2.45	0.48
48:DR:118:GLU:HA	48:DR:118:GLU:OE1	2.12	0.48
49:DS:92:TYR:C	49:DS:92:TYR:CD1	2.87	0.48
2:AB:191:ASP:OD1	2:AB:192:SER:N	2.47	0.48
56:BZ:149:SER:CB	56:BZ:172:ALA:O	2.62	0.48
4:AD:196:LEU:HB3	4:AD:197:PRO:HD2	1.95	0.48
6:CF:12:PRO:HG3	6:CF:57:GLN:O	2.14	0.48
6:CF:19:LEU:HD23	6:CF:19:LEU:C	2.34	0.48
15:CO:37:ASN:N	15:CO:37:ASN:HD22	2.12	0.48
2:CB:187:LEU:HD23	2:CB:201:ILE:O	2.14	0.48
35:DA:810:U:C2	46:DP:31:ALA:O	2.66	0.48
52:DV:75:PHE:HB2	52:DV:87:HIS:CB	2.43	0.48
35:DA:692:C:N3	35:DA:771:G:C2	2.81	0.48
4:AD:96:LEU:O	4:AD:98:GLU:N	2.47	0.48
19:AS:16:LEU:C	19:AS:20:LEU:HG	2.32	0.48
4:AD:64:LEU:HG	4:AD:65:ARG:N	2.29	0.48
4:AD:59:ARG:NH2	4:AD:66:ARG:HH22	2.04	0.48
35:DA:958:U:OP2	47:DQ:74:TYR:HE1	1.97	0.48
35:BA:2740:A:C2'	35:BA:2741:A:C8	2.87	0.48
51:DU:33:ARG:O	51:DU:36:ARG:N	2.46	0.48
7:AG:100:ALA:O	7:AG:101:LEU:C	2.51	0.48
25:CY:144:ALA:O	25:CY:147:LEU:O	2.32	0.48
25:CY:166:ASP:O	25:CY:169:ILE:N	2.47	0.48
25:CY:171:LYS:CD	25:CY:175:LEU:HD13	2.41	0.48
1:AA:378:G:P	16:AP:3:LYS:HZ1	2.37	0.48
25:AY:16:LYS:HA	25:AY:19:GLU:CG	2.43	0.48
37:BC:35:ALA:O	37:BC:36:LYS:HE3	2.14	0.48
42:BH:43:VAL:CG1	42:BH:52:VAL:HA	2.29	0.48
44:BN:77:GLY:O	44:BN:78:TYR:CB	2.62	0.48
25:AY:149:LEU:HB3	25:AY:153:GLU:HB2	1.95	0.48
11:AK:21:ILE:CD1	11:AK:82:VAL:HG13	2.36	0.48
11:CK:57:THR:HG23	11:CK:58:PRO:HD2	1.96	0.48
2:CB:111:ARG:O	2:CB:115:LEU:N	2.47	0.48
5:AE:126:ARG:O	5:AE:128:PRO:N	2.47	0.48
1:CA:1347:G:O2'	1:CA:1348:U:OP2	2.28	0.48
35:DA:2472:G:C5'	35:DA:2473:U:H5''	2.41	0.48
8:CH:6:ILE:HD12	8:CH:6:ILE:N	2.28	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2747:G:C2	35:BA:2754:U:C4	3.02	0.48
35:DA:778:G:C6	35:DA:779:U:N3	2.81	0.48
46:DP:106:LEU:CD1	46:DP:112:LEU:HB2	2.42	0.48
38:BD:135:PHE:CD1	38:BD:135:PHE:N	2.72	0.48
38:BD:173:VAL:CG1	38:BD:185:VAL:O	2.62	0.48
38:BD:186:HIS:CD2	38:BD:188:GLU:HG2	2.49	0.48
53:DW:96:ILE:HG13	53:DW:97:LYS:H	1.79	0.48
46:BP:126:VAL:HG22	46:BP:145:PRO:HB3	1.96	0.48
1:CA:453:A:H2'	1:CA:454:C:C6	2.49	0.48
38:DD:172:TYR:CD1	38:DD:186:HIS:CA	2.95	0.48
7:AG:112:PRO:HD2	7:AG:113:GLU:OE2	2.13	0.48
32:B6:47:THR:HG22	32:B6:49:HIS:H	1.79	0.48
3:CC:105:GLU:HG2	3:CC:106:VAL:N	2.21	0.48
5:CE:93:PRO:HA	5:CE:118:ILE:HD12	1.96	0.48
39:DE:173:VAL:O	39:DE:174:ASP:C	2.52	0.48
32:B6:28:ARG:O	32:B6:29:ASN:C	2.52	0.48
35:DA:1615:C:O2	53:DW:87:PRO:HG2	2.14	0.48
13:AM:28:ALA:C	13:AM:30:ALA:N	2.67	0.48
35:DA:1456:G:C4	35:DA:1457:A:N7	2.82	0.48
20:AT:83:ARG:CA	20:AT:86:ARG:HB3	2.42	0.48
21:AU:5:ASP:OD1	21:AU:6:ARG:N	2.47	0.48
12:CL:119:LYS:H	12:CL:119:LYS:HD2	1.78	0.48
35:DA:1467:C:H2'	35:DA:1468:C:H6	1.79	0.48
35:DA:614:U:H4'	35:DA:614(C):A:H62	1.79	0.48
40:BF:126:VAL:O	40:BF:127:GLU:HB2	2.13	0.48
56:BZ:139:VAL:O	56:BZ:141:VAL:N	2.45	0.48
1:AA:441:A:C6	1:AA:494:U:C2	3.02	0.48
53:DW:64:MET:CE	53:DW:109:GLU:HG3	2.44	0.48
29:D3:36:VAL:O	29:D3:36:VAL:HG23	2.12	0.48
23:AW:17:C:H5''	23:AW:18:U:C6	2.48	0.48
25:AY:108:GLU:HA	25:AY:111:ARG:HG2	1.95	0.48
3:CC:116:VAL:O	3:CC:119:ARG:HB3	2.14	0.48
6:AF:3:ARG:NH1	6:AF:38:GLU:OE2	2.47	0.48
9:CI:45:ALA:O	9:CI:49:PRO:HD2	2.14	0.48
37:BC:75:LEU:HA	37:BC:94:VAL:HG22	1.95	0.48
57:DC:44:HIS:HD2	57:DC:175:VAL:CA	2.27	0.48
35:BA:1015:G:N3	35:BA:1015:G:H2'	2.28	0.48
1:CA:788:U:C5	1:CA:789:U:C5	3.02	0.48
35:DA:658:C:H2'	35:DA:659:C:C6	2.49	0.48
35:BA:1686:C:H42	35:BA:1702:G:H1	1.60	0.48
35:BA:1686:C:H3'	35:BA:1687:G:H8	1.78	0.48
37:BC:50:ASP:O	37:BC:52:ARG:N	2.46	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1419:G:N2	1:CA:1482:G:H1'	2.29	0.48
53:BW:92:ARG:HG2	53:BW:92:ARG:NH1	2.29	0.48
36:DB:5:C:H2'	36:DB:6:C:H6	1.79	0.48
1:CA:719:C:H2'	1:CA:720:C:H5'	1.96	0.48
19:AS:67:VAL:HG12	19:AS:68:GLY:N	2.28	0.48
35:DA:1479:G:H2'	35:DA:1480:G:O4'	2.13	0.48
20:CT:97:ALA:O	20:CT:99:LEU:N	2.39	0.48
35:BA:2511:U:O3'	39:BE:123:ALA:HB3	2.14	0.48
35:DA:1660:C:H5'	35:DA:2712(A):A:N6	2.27	0.48
39:DE:24:THR:HB	39:DE:186:GLY:HA2	1.95	0.48
50:DT:45:PHE:HE2	50:DT:63:VAL:HG23	1.79	0.48
43:BI:119:PRO:O	43:BI:120:ILE:HB	2.14	0.48
35:BA:2729:G:H2'	35:BA:2730:C:C6	2.49	0.48
39:BE:13:ARG:HA	39:BE:22:PRO:HA	1.96	0.48
50:BT:121:ILE:CG2	50:BT:122:ASP:N	2.77	0.48
56:BZ:126:VAL:HG12	56:BZ:162:GLU:O	2.14	0.48
42:DH:78:GLY:O	42:DH:136:ILE:HG23	2.14	0.48
57:DC:51:PRO:O	57:DC:52:ARG:HB2	2.14	0.48
35:BA:2312:U:H2'	35:BA:2313:C:C5'	2.43	0.48
41:BG:106:LEU:HD12	41:BG:110:ALA:HB3	1.94	0.48
28:D2:38:GLN:C	28:D2:40:SER:N	2.67	0.48
42:BH:105:LEU:CD2	42:BH:105:LEU:N	2.74	0.48
47:DQ:26:TYR:O	47:DQ:27:VAL:C	2.51	0.48
47:DQ:28:ALA:HB3	47:DQ:105:GLU:CD	2.34	0.48
35:DA:537:C:H3'	35:DA:538:G:H8	1.78	0.48
35:DA:998:C:OP2	51:DU:93:LYS:NZ	2.47	0.48
51:DU:113:ALA:O	51:DU:116:ALA:HB3	2.13	0.48
52:DV:36:PRO:HD2	52:DV:60:GLU:O	2.13	0.48
1:CA:978:A:O2'	1:CA:1322:C:N3	2.47	0.48
19:CS:36:ARG:NH1	19:CS:36:ARG:HB3	2.29	0.48
49:BS:24:LEU:O	49:BS:86:ALA:HB3	2.13	0.48
47:BQ:101:ARG:HG3	47:BQ:101:ARG:NH1	2.29	0.48
55:BY:45:VAL:HG22	55:BY:62:GLU:CB	2.36	0.48
5:CE:51:VAL:HB	5:CE:52:PRO:CD	2.37	0.48
27:D1:87:PRO:CD	27:D1:88:LYS:H	2.27	0.48
35:BA:1198:U:H2'	35:BA:1199:U:H6	1.79	0.48
35:BA:514:A:C2	35:BA:515:A:C4	3.02	0.48
48:BR:88:ARG:NH2	48:BR:89:ASP:OD1	2.47	0.48
49:DS:38:GLN:CD	49:DS:47:THR:HG23	2.33	0.48
2:CB:233:SER:C	2:CB:235:SER:H	2.18	0.48
2:AB:92:TYR:CE2	2:AB:151:GLY:HA3	2.49	0.48
8:AH:68:ARG:HG3	8:AH:69:ARG:N	2.24	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:D1:37:ILE:CD1	35:DA:2080:G:OP1	2.62	0.48
44:DN:26:LEU:HG	44:DN:27:ALA:N	2.27	0.48
47:BQ:119:ARG:HG2	47:BQ:120:ILE:CD1	2.41	0.48
1:CA:658:G:O2'	1:CA:659:U:H5'	2.14	0.48
15:CO:17:ARG:HG3	15:CO:17:ARG:NH1	2.24	0.48
18:CR:34:TYR:O	18:CR:35:ARG:HG2	2.14	0.48
2:CB:42:ILE:CD1	2:CB:203:GLY:H	2.27	0.48
40:DF:52:LYS:O	40:DF:88:VAL:HG12	2.14	0.48
46:DP:41:ARG:CD	46:DP:41:ARG:N	2.77	0.48
55:DY:18:GLY:C	55:DY:20:TYR:N	2.67	0.48
1:AA:1316:G:H2'	1:AA:1317:C:C5'	2.43	0.48
1:AA:542:G:H5'	4:AD:41:GLY:HA3	1.96	0.48
1:AA:673:G:H2'	1:AA:674:G:H8	1.71	0.48
1:CA:782:A:N6	1:CA:801:U:C6	2.81	0.48
35:DA:565:C:H2'	35:DA:566:U:H6	1.79	0.48
50:BT:10:VAL:O	50:BT:11:GLU:C	2.52	0.48
35:BA:1203:G:O6	35:BA:1204:A:N6	2.46	0.48
21:AU:20:LYS:HD3	21:AU:21:TYR:HE1	1.77	0.48
16:AP:25:ARG:HH11	16:AP:25:ARG:HG3	1.78	0.48
35:BA:2124:G:C2'	35:BA:2125:G:H5'	2.44	0.48
35:BA:1132:A:H2'	35:BA:1133:U:C6	2.48	0.48
35:BA:684:G:N2	35:BA:787:U:H2'	2.27	0.48
7:AG:143:ARG:CZ	23:AW:43:G:H5'	2.44	0.48
1:AA:956:U:H2'	1:AA:957:U:H6	1.79	0.48
11:CK:58:PRO:HA	11:CK:90:GLY:CA	2.43	0.48
35:DA:924:C:O2'	35:DA:925:C:H5'	2.14	0.48
9:CI:119:ALA:O	9:CI:120:ARG:HB2	2.14	0.48
8:AH:10:LEU:CD2	8:AH:10:LEU:H	2.17	0.48
9:CI:4:TYR:CE1	9:CI:21:PRO:HD3	2.48	0.48
35:DA:363(F):A:O2'	35:DA:364:C:H5	1.96	0.48
38:BD:117:VAL:CG2	38:BD:118:VAL:H	2.26	0.48
31:D5:16:ARG:HG2	31:D5:16:ARG:NH1	2.24	0.48
40:BF:9:ILE:HG23	40:BF:14:PRO:HA	1.96	0.48
31:B5:20:ARG:HH12	53:BW:15:ARG:HH21	1.55	0.48
7:AG:122:HIS:O	7:AG:125:MET:N	2.47	0.48
35:DA:374:A:C2	35:DA:375:C:H1'	2.49	0.48
35:BA:1496:A:H8	35:BA:1577:C:HO2'	1.62	0.48
35:BA:1578:U:OP2	35:BA:1578:U:H6	1.96	0.48
4:AD:131:ARG:HD3	4:AD:131:ARG:N	2.29	0.48
38:BD:130:ALA:HB2	38:BD:192:THR:HA	1.95	0.48
35:DA:467:G:H2'	35:DA:468:G:C8	2.42	0.48
35:DA:1613:G:H3'	35:DA:1614:A:H5''	1.95	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1233:C:H2'	35:BA:1234:U:H5'	1.95	0.48
25:CY:107:THR:O	25:CY:111:ARG:HG3	2.14	0.48
35:BA:1688:U:O2	35:BA:1700:A:H8	1.97	0.48
35:DA:968:G:H2'	35:DA:969:U:C6	2.48	0.48
35:DA:970:C:H2'	35:DA:971:C:C6	2.48	0.48
28:D2:30:ARG:HH11	28:D2:30:ARG:CG	2.27	0.48
6:AF:55:ASP:OD2	6:AF:86:ARG:NH2	2.47	0.48
17:CQ:82:MET:HA	17:CQ:85:VAL:CG2	2.44	0.48
36:DB:66:A:C2	36:DB:109:C:C2	3.02	0.48
35:BA:2291:U:H2'	35:BA:2292:C:C6	2.49	0.48
31:D5:42:PRO:C	31:D5:43:HIS:HD2	2.17	0.48
53:DW:31:GLU:O	53:DW:32:ALA:C	2.53	0.48
4:CD:192:GLU:O	4:CD:194:LEU:N	2.47	0.48
1:CA:689:C:H2'	1:CA:689:C:O2	2.13	0.48
1:CA:1293:G:O2'	1:CA:1294:G:H8	1.96	0.48
35:DA:449:A:C2'	35:DA:450:G:H5'	2.43	0.48
35:DA:2880:C:H1'	48:DR:92:GLY:O	2.14	0.48
1:CA:1164:G:H2'	1:CA:1165:C:H5'	1.96	0.48
35:DA:301:G:H1'	35:DA:302:C:C6	2.49	0.48
38:BD:199:ALA:O	38:BD:201:HIS:N	2.47	0.48
35:BA:1374:G:H2'	35:BA:1375:C:H6	1.77	0.48
1:AA:124:G:C6	1:AA:125:U:C4	3.01	0.48
35:DA:1490:A:H2	38:DD:75:ILE:HD12	1.79	0.48
11:AK:48:ILE:HD13	11:AK:48:ILE:N	2.29	0.48
1:CA:1237:C:H4'	1:CA:1334:G:N2	2.29	0.48
35:DA:1891:G:C2	35:DA:1892:C:C2	3.02	0.48
17:CQ:99:SER:C	17:CQ:100:LYS:HE2	2.35	0.48
40:DF:17:ARG:HH11	40:DF:17:ARG:HG3	1.78	0.48
1:CA:81:U:H2'	1:CA:82:U:C6	2.49	0.48
52:BV:66:ARG:HB2	52:BV:95:LEU:H	1.78	0.48
1:AA:1235:U:H5'	21:AU:14:TRP:CZ2	2.49	0.48
35:DA:2694:G:O2'	35:DA:2695:C:H5'	2.14	0.47
35:DA:2851:A:H2'	35:DA:2852:G:C8	2.48	0.47
43:BI:79:ILE:CB	43:BI:81:VAL:HG23	2.43	0.47
35:BA:779:U:OP1	38:BD:49:ILE:HG23	2.14	0.47
1:CA:1396:A:C4'	1:CA:1398:A:H1'	2.44	0.47
35:DA:1817:G:O2'	35:DA:1818:U:H5'	2.13	0.47
35:DA:1902:C:H2'	35:DA:1903:G:O4'	2.13	0.47
38:DD:106:ILE:HG23	38:DD:106:ILE:O	2.13	0.47
35:DA:1971:A:C4	38:DD:241:PRO:HB3	2.48	0.47
41:DG:122:PRO:O	41:DG:124:SER:N	2.47	0.47
32:B6:11:LEU:O	32:B6:24:GLU:N	2.47	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
45:BO:59:LYS:O	45:BO:86:ILE:HG23	2.14	0.47
50:BT:78:LEU:O	50:BT:78:LEU:HD23	2.14	0.47
56:BZ:23:LYS:O	56:BZ:41:LEU:HD21	2.14	0.47
39:BE:4:ILE:HD12	39:BE:31:CYS:SG	2.54	0.47
29:B3:32:GLN:HA	29:B3:32:GLN:OE1	2.13	0.47
51:BU:86:ALA:HB2	51:BU:116:ALA:CB	2.43	0.47
28:B2:14:ARG:H	28:B2:14:ARG:HE	1.59	0.47
35:BA:58:G:OP1	54:BX:72:LYS:HA	2.14	0.47
39:DE:179:GLU:O	39:DE:180:ASN:HB3	2.13	0.47
39:DE:79:ARG:NH1	39:DE:79:ARG:HG2	2.29	0.47
27:B1:9:GLY:O	27:B1:10:LYS:HB3	2.14	0.47
2:AB:81:VAL:HG22	2:AB:215:LEU:CG	2.44	0.47
35:DA:58:G:OP1	54:DX:72:LYS:HA	2.13	0.47
54:DX:29:TRP:HE3	54:DX:76:ARG:HB3	1.79	0.47
41:BG:25:TYR:CE2	41:BG:31:VAL:HA	2.49	0.47
56:DZ:24:LEU:HD21	56:DZ:86:VAL:CG2	2.44	0.47
51:DU:52:ARG:O	51:DU:53:ARG:C	2.53	0.47
52:DV:3:ALA:O	52:DV:13:ARG:HA	2.14	0.47
14:AN:4:LYS:HA	14:AN:7:ILE:HD11	1.96	0.47
19:CS:9:VAL:O	19:CS:10:PHE:C	2.52	0.47
32:D6:27:LYS:HE2	35:DA:2285:C:H5	1.78	0.47
49:BS:103:GLU:O	49:BS:105:ALA:N	2.46	0.47
49:BS:95:HIS:O	49:BS:98:VAL:HG23	2.14	0.47
4:CD:202:LEU:O	4:CD:205:GLU:N	2.47	0.47
4:CD:30:LYS:O	4:CD:32:ALA:N	2.47	0.47
44:BN:64:GLY:O	44:BN:65:LYS:HE3	2.13	0.47
35:BA:238:C:H2'	35:BA:239:U:H6	1.79	0.47
40:BF:34:TRP:HA	40:BF:37:VAL:HG23	1.95	0.47
27:D1:86:SER:N	27:D1:87:PRO:CD	2.75	0.47
27:D1:85:LEU:C	27:D1:87:PRO:CD	2.81	0.47
35:BA:197:A:C8	35:BA:197:A:H5'	2.49	0.47
40:DF:125:LEU:HD11	40:DF:199:TRP:CD1	2.48	0.47
48:DR:55:ALA:HA	48:DR:80:PHE:CZ	2.48	0.47
35:DA:2708:G:H1'	48:DR:71:GLN:OE1	2.13	0.47
50:BT:108:ARG:HH11	50:BT:108:ARG:HB3	1.79	0.47
50:BT:102:ILE:HB	50:BT:110:ILE:HD11	1.95	0.47
49:DS:103:GLU:O	49:DS:105:ALA:N	2.47	0.47
43:BI:69:LYS:C	43:BI:71:ILE:H	2.18	0.47
44:DN:17:ASP:OD2	44:DN:17:ASP:O	2.32	0.47
44:BN:120:LEU:HD13	44:BN:121:LYS:N	2.29	0.47
35:DA:1260:G:H2'	35:DA:1261:C:H6	1.79	0.47
35:DA:806:C:O2'	35:DA:807:U:H5'	2.14	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AD:101:LEU:CD2	4:AD:121:VAL:HG13	2.44	0.47
4:AD:68:TYR:CE2	4:AD:97:LEU:HD22	2.48	0.47
55:DY:2:ARG:C	55:DY:4:LYS:N	2.65	0.47
47:DQ:76:LYS:N	47:DQ:88:GLY:HA3	2.29	0.47
1:CA:1519:A:H3'	1:CA:1520:G:O4'	2.13	0.47
42:DH:19:VAL:CG1	42:DH:44:VAL:HG22	2.44	0.47
35:DA:297:C:H2'	35:DA:298:G:O4'	2.13	0.47
35:BA:1202:C:C2'	35:BA:1203:G:H5'	2.44	0.47
12:CL:32:PHE:HE1	12:CL:86:ARG:HG3	1.79	0.47
16:AP:23:ASP:OD2	16:AP:25:ARG:NH2	2.47	0.47
25:AY:65:THR:CG2	25:AY:66:LEU:N	2.77	0.47
25:AY:10:THR:HG21	25:AY:164:ILE:HG21	1.96	0.47
7:CG:105:VAL:O	7:CG:108:ALA:HB3	2.13	0.47
26:D0:17:GLN:HG2	35:DA:2261:C:P	2.54	0.47
42:DH:61:HIS:C	42:DH:63:SER:N	2.67	0.47
55:BY:68:HIS:HB3	55:BY:71:LYS:HZ3	1.79	0.47
22:AV:29:G:N1	22:AV:30:A:C5	2.82	0.47
22:AV:29:G:C2	22:AV:30:A:C8	3.02	0.47
1:AA:959:A:C2'	1:AA:960:U:H4'	2.44	0.47
1:AA:636:U:H2'	1:AA:637:G:H8	1.72	0.47
8:AH:110:ALA:HA	8:AH:136:GLU:HA	1.96	0.47
3:CC:173:VAL:O	3:CC:173:VAL:CG1	2.61	0.47
42:BH:38:SER:C	42:BH:40:GLU:H	2.18	0.47
46:DP:101:VAL:HG13	46:DP:102:ARG:N	2.21	0.47
16:CP:17:TYR:N	16:CP:17:TYR:CD1	2.82	0.47
40:BF:178:PRO:CG	40:BF:179:GLU:N	2.76	0.47
35:DA:120:U:H1'	35:DA:149:A:N7	2.28	0.47
1:CA:1422:G:H2'	1:CA:1423:G:H8	1.79	0.47
3:CC:156:ARG:O	3:CC:158:GLY:N	2.47	0.47
35:DA:1484:G:H3'	35:DA:1485:G:C5'	2.44	0.47
35:DA:1504:C:O2'	35:DA:1505:C:C5'	2.62	0.47
5:CE:121:LYS:HD2	5:CE:122:GLU:H	1.79	0.47
1:CA:767:A:H2'	1:CA:768:A:H8	1.79	0.47
32:D6:32:ASN:O	32:D6:33:LYS:HB2	2.14	0.47
2:CB:19:HIS:CA	2:CB:39:ILE:HD13	2.39	0.47
35:DA:1806:C:N4	35:DA:1812:A:N6	2.62	0.47
23:AW:23:G:H2'	23:AW:24:C:C5'	2.44	0.47
35:BA:1550:C:O2'	35:BA:1551:C:H5'	2.14	0.47
35:DA:1446:C:O2'	35:DA:1447:G:H5'	2.14	0.47
35:BA:184:C:O2'	35:BA:185:U:H5'	2.13	0.47
13:CM:14:ARG:HG3	13:CM:17:VAL:CG2	2.43	0.47
7:AG:27:ILE:HD12	7:AG:27:ILE:H	1.78	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1146:A:H2'	1:CA:1147:C:O5'	2.13	0.47
47:DQ:131:ILE:H	47:DQ:131:ILE:HD13	1.79	0.47
23:AW:8:U:H3'	23:AW:8:U:OP2	2.14	0.47
35:DA:892:G:N3	35:DA:892:G:H3'	2.29	0.47
35:DA:704:G:N3	35:DA:726:G:C2	2.82	0.47
7:CG:36:LYS:O	7:CG:39:ALA:HB3	2.14	0.47
35:BA:412:A:N6	35:BA:2411:A:H2'	2.29	0.47
35:BA:826:U:C2	35:BA:828:U:H1'	2.49	0.47
35:BA:1468:C:O2'	35:BA:1469:A:H5'	2.14	0.47
10:AJ:39:PRO:HB3	10:AJ:70:ARG:CZ	2.44	0.47
1:CA:1273:G:H2'	1:CA:1274:G:O4'	2.14	0.47
57:DC:65:PRO:HG2	57:DC:189:ILE:CB	2.44	0.47
3:CC:41:GLY:O	3:CC:45:LYS:HG3	2.15	0.47
35:DA:2658:C:H41	35:DA:2664:G:N2	2.12	0.47
42:BH:60:ARG:O	42:BH:64:LEU:HG	2.14	0.47
35:DA:11:G:O2'	35:DA:12:U:H5'	2.14	0.47
35:BA:1831:G:O2'	35:BA:1832:C:H5'	2.14	0.47
35:BA:750:A:H2'	35:BA:751:A:H5''	1.95	0.47
35:DA:271(A):A:H5''	35:DA:271(B):C:C5	2.49	0.47
7:CG:156:TRP:H	7:CG:156:TRP:HD1	1.62	0.47
15:AO:3:ILE:O	15:AO:3:ILE:HG13	2.13	0.47
35:BA:2581:G:N2	35:BA:2581:G:OP2	2.45	0.47
35:DA:2323:G:H2'	35:DA:2324:C:O4'	2.14	0.47
4:CD:52:SER:OG	4:CD:55:ALA:N	2.39	0.47
35:DA:2253:G:C6	35:DA:2254:C:N3	2.82	0.47
55:DY:60:PHE:HD2	55:DY:60:PHE:O	1.96	0.47
35:DA:1992:G:C2	35:DA:1997:G:C6	3.02	0.47
43:BI:77:LEU:HD21	43:BI:101:LEU:HD13	1.95	0.47
43:BI:145:VAL:CG1	43:BI:146:ALA:N	2.74	0.47
14:CN:39:LEU:CD1	14:CN:47:LEU:HD12	2.44	0.47
35:BA:1816:G:N7	38:BD:62:TYR:CE1	2.82	0.47
38:BD:267:SER:HA	38:BD:270:ILE:HG13	1.95	0.47
41:DG:130:ASN:HD22	41:DG:160:VAL:HA	1.79	0.47
41:DG:76:SER:C	41:DG:77:ILE:HG13	2.34	0.47
34:B8:39:LYS:HD3	34:B8:39:LYS:C	2.34	0.47
47:DQ:101:ARG:HG3	47:DQ:101:ARG:NH1	2.29	0.47
45:BO:64:ARG:CB	45:BO:64:ARG:HH11	2.27	0.47
50:BT:30:VAL:O	50:BT:31:SER:HB3	2.14	0.47
50:BT:79:HIS:O	50:BT:80:SER:HB2	2.14	0.47
36:BB:73:A:H2'	36:BB:74:U:O4'	2.14	0.47
56:BZ:138:GLU:OE2	56:BZ:138:GLU:N	2.47	0.47
39:BE:181:LEU:O	39:BE:182:LEU:CB	2.61	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2223:G:O2'	35:BA:2224:G:H5'	2.13	0.47
41:BG:7:LEU:CA	41:BG:10:LYS:HB2	2.37	0.47
41:BG:76:SER:HB2	41:BG:83:ARG:HB3	1.94	0.47
28:D2:22:GLU:HB3	54:DX:5:TYR:CD1	2.48	0.47
42:BH:125:VAL:HG12	42:BH:127:GLU:O	2.15	0.47
42:BH:109:PHE:HE1	42:BH:152:ARG:NE	2.12	0.47
1:CA:410:G:N1	1:CA:429:U:O2	2.46	0.47
1:CA:545:C:O2'	1:CA:546:G:H5'	2.15	0.47
47:BQ:34:LEU:HG	47:BQ:103:MET:HB2	1.96	0.47
35:BA:1022:G:N2	35:BA:1142(A):A:C2	2.82	0.47
3:CC:134:ILE:HG22	3:CC:168:ALA:CB	2.43	0.47
40:BF:24:LEU:CD2	40:BF:24:LEU:N	2.77	0.47
3:CC:11:ARG:NH1	3:CC:11:ARG:HG2	2.29	0.47
40:BF:65:TRP:CH2	40:BF:75:HIS:CD2	2.95	0.47
35:BA:993:G:H1'	52:BV:91:TYR:CE1	2.49	0.47
35:DA:1278:A:O2'	35:DA:1279:G:H5'	2.14	0.47
1:AA:1438:G:N1	1:AA:1464:G:C2	2.82	0.47
20:AT:71:THR:HB	20:AT:72:LEU:H	1.55	0.47
35:BA:1682:G:O2'	35:BA:1683:C:H5'	2.14	0.47
50:BT:110:ILE:CG2	50:BT:111:ARG:N	2.77	0.47
2:CB:80:ILE:HG13	2:CB:81:VAL:HG23	1.95	0.47
8:AH:69:ARG:HB2	8:AH:74:PRO:HA	1.96	0.47
6:CF:62:TRP:CH2	6:CF:64:GLN:HB2	2.49	0.47
2:CB:170:GLU:C	2:CB:172:ILE:N	2.68	0.47
2:CB:191:ASP:OD1	2:CB:192:SER:N	2.47	0.47
2:CB:82:ARG:HA	2:CB:92:TYR:CE1	2.49	0.47
35:DA:2069:G:C2'	35:DA:2070:G:H5'	2.43	0.47
4:AD:79:PHE:CD2	4:AD:79:PHE:C	2.87	0.47
6:AF:62:TRP:CH2	6:AF:64:GLN:HB2	2.48	0.47
18:AR:66:LEU:O	18:AR:70:ILE:HG13	2.13	0.47
35:DA:2740:A:C6	35:DA:2764:A:C8	3.01	0.47
43:BI:47:LEU:O	43:BI:50:ARG:N	2.41	0.47
20:CT:56:MET:O	20:CT:60:GLU:HB2	2.13	0.47
1:AA:989:C:O2'	1:AA:990:C:H5'	2.13	0.47
7:CG:104:LEU:H	7:CG:104:LEU:CD2	2.27	0.47
1:CA:880:C:H2'	1:CA:881:G:H8	1.79	0.47
51:BU:28:ARG:HA	51:BU:34:LYS:HB3	1.96	0.47
26:B0:7:LEU:CA	47:BQ:83:MET:SD	3.02	0.47
8:CH:127:LEU:HD12	8:CH:129:VAL:HG13	1.97	0.47
55:BY:2:ARG:C	55:BY:4:LYS:N	2.67	0.47
55:BY:31:LEU:HD12	55:BY:34:LYS:H	1.77	0.47
1:AA:693:G:H2'	1:AA:694:A:O4'	2.12	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
7:AG:150:ALA:C	7:AG:152:ALA:N	2.68	0.47
13:AM:117:VAL:CG1	13:AM:118:ALA:N	2.77	0.47
35:DA:259:G:C2	35:DA:260:G:C8	3.02	0.47
35:DA:1659:U:OP2	39:DE:132:HIS:CE1	2.67	0.47
1:CA:872:A:C2	1:CA:874:G:C6	3.02	0.47
8:CH:49:GLU:HG2	8:CH:62:TYR:HE2	1.79	0.47
9:CI:37:PHE:HB3	9:CI:43:ALA:HB2	1.96	0.47
9:CI:7:THR:H	9:CI:83:ARG:HD2	1.79	0.47
33:D7:19:ARG:HG2	33:D7:19:ARG:NH1	2.29	0.47
38:BD:95:LEU:HD12	38:BD:95:LEU:N	2.29	0.47
16:CP:74:LEU:O	16:CP:79:VAL:HG23	2.14	0.47
56:BZ:20:ARG:HG3	56:BZ:20:ARG:NH1	2.29	0.47
35:BA:1613:G:N1	35:BA:1619:G:C5	2.82	0.47
29:D3:4:LEU:C	29:D3:4:LEU:HD23	2.34	0.47
1:CA:313:A:H2'	1:CA:314:C:H6	1.76	0.47
17:CQ:45:HIS:NE2	17:CQ:47:PRO:HB3	2.29	0.47
40:DF:139:PHE:HB3	40:DF:166:ALA:HB1	1.95	0.47
40:DF:164:ARG:HG3	40:DF:175:THR:HG1	1.76	0.47
42:BH:155:SER:OG	42:BH:156:ALA:N	2.44	0.47
42:BH:157:TYR:CD1	42:BH:170:ARG:O	2.66	0.47
3:CC:84:ILE:HA	3:CC:87:LEU:HB2	1.95	0.47
26:D0:43:THR:O	26:D0:43:THR:HG23	2.13	0.47
13:AM:54:VAL:O	13:AM:58:GLU:N	2.46	0.47
35:DA:290:G:N2	35:DA:291:C:H1'	2.29	0.47
1:AA:343:U:O2'	1:AA:344:A:H2'	2.15	0.47
12:CL:117:ARG:O	12:CL:119:LYS:O	2.31	0.47
11:AK:122:LYS:O	11:AK:126:ARG:HB3	2.13	0.47
35:BA:705:A:C2	35:BA:706:A:C4	3.03	0.47
17:CQ:92:ARG:O	17:CQ:95:TYR:N	2.37	0.47
35:DA:1450:G:H1	35:DA:1462:C:H42	1.61	0.47
35:DA:1444:G:N2	35:DA:1548:C:C2	2.82	0.47
56:BZ:61:LEU:CD1	56:BZ:65:GLN:HB3	2.43	0.47
36:BB:66:A:N6	36:BB:108:U:H2'	2.25	0.47
1:CA:1338:G:H21	22:CV:40:C:H1'	1.80	0.47
7:CG:148:ASN:O	7:CG:150:ALA:N	2.47	0.47
13:AM:14:ARG:HG3	13:AM:17:VAL:CG2	2.44	0.47
36:BB:25:A:H2'	36:BB:26:A:O4'	2.13	0.47
1:CA:241:C:O2'	1:CA:242:C:H5'	2.14	0.47
35:BA:602:G:N3	35:BA:602:G:H2'	2.29	0.47
1:CA:1120:G:H1	1:CA:1153:C:H42	1.61	0.47
35:DA:1441:G:H2'	35:DA:1442:G:H8	1.80	0.47
10:CJ:39:PRO:HB3	10:CJ:70:ARG:CZ	2.44	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:668:G:O2'	1:AA:669:U:H5'	2.14	0.47
45:DO:26:LYS:O	45:DO:27:GLY:O	2.32	0.47
1:CA:1016:A:H2'	1:CA:1017:G:H5'	1.96	0.47
35:BA:1184:G:C2'	35:BA:1185:C:H5'	2.44	0.47
57:DC:64:LEU:CD1	57:DC:66:HIS:HB2	2.44	0.47
4:AD:45:GLN:O	4:AD:46:LYS:HG3	2.14	0.47
1:CA:55:A:N7	1:CA:56:U:C5	2.82	0.47
35:DA:283:A:O2'	35:DA:284:U:OP1	2.25	0.47
35:DA:982:C:O5'	35:DA:982:C:H6	1.97	0.47
57:DC:67:GLY:O	57:DC:69:GLY:N	2.46	0.47
35:DA:2850:A:C2'	35:DA:2851:A:H8	2.21	0.47
45:DO:63:VAL:HG22	45:DO:84:ALA:CA	2.32	0.47
45:DO:71:ARG:HG3	45:DO:71:ARG:NH1	2.28	0.47
38:BD:268:ARG:HB2	38:BD:268:ARG:CZ	2.44	0.47
38:DD:270:ILE:O	38:DD:271:ILE:HG13	2.13	0.47
38:DD:94:LEU:CD1	38:DD:94:LEU:O	2.61	0.47
41:DG:102:PHE:CD1	41:DG:106:LEU:HD22	2.49	0.47
41:DG:111:LEU:O	41:DG:114:ILE:HG12	2.14	0.47
35:BA:2415:G:C4'	46:BP:66:GLY:HA3	2.43	0.47
35:BA:2678:C:O2'	35:BA:2679:A:H5'	2.14	0.47
35:BA:874:G:H2'	35:BA:875:G:H8	1.78	0.47
51:BU:52:ARG:O	51:BU:53:ARG:C	2.52	0.47
51:BU:92:ARG:CZ	52:BV:11:GLN:HG2	2.44	0.47
51:BU:98:LEU:O	51:BU:100:VAL:N	2.47	0.47
42:DH:103:LEU:HD22	42:DH:123:PHE:CE2	2.49	0.47
54:BX:75:ASP:O	54:BX:76:ARG:HG3	2.14	0.47
39:DE:179:GLU:O	39:DE:180:ASN:CB	2.63	0.47
39:DE:44:TYR:CD1	39:DE:44:TYR:N	2.83	0.47
39:DE:55:ASN:ND2	39:DE:75:VAL:HG22	2.28	0.47
41:BG:38:VAL:O	41:BG:158:ALA:CB	2.62	0.47
41:BG:76:SER:CA	41:BG:84:LYS:H	2.26	0.47
55:DY:7:VAL:HG23	55:DY:8:LYS:HD2	1.95	0.47
28:D2:17:SER:O	28:D2:20:GLU:N	2.47	0.47
19:CS:15:LEU:HD22	19:CS:15:LEU:N	2.28	0.47
19:CS:36:ARG:NH2	19:CS:72:GLY:HA2	2.29	0.47
49:BS:25:ARG:NH2	49:BS:89:ARG:NH1	2.60	0.47
49:BS:83:LYS:O	49:BS:85:VAL:N	2.48	0.47
40:BF:107:LYS:O	40:BF:108:LYS:C	2.52	0.47
27:D1:13:ILE:HG13	27:D1:14:VAL:HG12	1.95	0.47
35:DA:631:A:H4'	46:DP:65:ARG:HG3	1.96	0.47
44:DN:72:TYR:HB2	44:DN:85:ILE:HB	1.96	0.47
34:B8:58:ILE:C	34:B8:61:LEU:HG	2.34	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2069:G:C2	35:BA:2070:G:C8	3.01	0.47
40:DF:24:LEU:CD2	40:DF:24:LEU:N	2.78	0.47
48:DR:18:LEU:HD13	48:DR:18:LEU:C	2.34	0.47
48:DR:32:GLY:O	48:DR:116:LEU:HB2	2.14	0.47
1:AA:1438:G:C2	1:AA:1464:G:C2	3.01	0.47
48:BR:20:LEU:CD1	48:BR:20:LEU:C	2.75	0.47
6:CF:80:ARG:CG	6:CF:88:VAL:HB	2.44	0.47
35:DA:942:G:H1'	35:DA:1189:A:H2	1.78	0.47
55:DY:18:GLY:O	55:DY:20:TYR:N	2.46	0.47
1:AA:975:A:H4'	1:AA:976:G:C5'	2.28	0.47
6:AF:68:PRO:HG3	6:AF:71:ARG:HE	1.79	0.47
18:AR:74:ARG:NH1	18:AR:74:ARG:HG3	2.29	0.47
1:CA:1401:G:C2	1:CA:1402:C:H1'	2.49	0.47
35:DA:1917:U:H2'	35:DA:1918:A:H8	1.80	0.47
25:CY:150:SER:C	25:CY:152:ASP:H	2.17	0.47
25:CY:3:LEU:CD1	25:CY:3:LEU:H	2.12	0.47
12:CL:54:LYS:N	12:CL:54:LYS:CD	2.75	0.47
13:CM:107:ALA:H	13:CM:108:ARG:HD2	1.79	0.47
50:DT:10:VAL:O	50:DT:11:GLU:C	2.52	0.47
53:BW:106:ILE:HG13	53:BW:106:ILE:O	2.13	0.47
7:CG:99:LEU:O	7:CG:100:ALA:C	2.52	0.47
11:CK:87:THR:HG22	11:CK:88:GLY:N	2.29	0.47
47:BQ:82:ARG:CG	47:BQ:82:ARG:HH11	2.22	0.47
43:BI:94:ALA:CB	43:BI:114:LEU:HD12	2.44	0.47
7:AG:148:ASN:N	7:AG:148:ASN:HD22	2.12	0.47
13:AM:114:ARG:C	13:AM:116:THR:H	2.17	0.47
9:AI:50:LEU:HB3	9:AI:55:ALA:CB	2.44	0.47
35:BA:2225:A:H4'	35:BA:2226:C:C5'	2.43	0.47
31:B5:40:LYS:HZ3	31:B5:50:GLY:HA2	1.79	0.47
12:AL:76:ASN:O	12:AL:77:LEU:HD23	2.14	0.47
1:CA:1129:C:H4'	1:CA:1130:A:H5'	1.96	0.47
33:D7:29:LYS:HZ3	33:D7:32:LYS:HZ2	1.62	0.47
35:DA:778:G:H4'	38:DD:48:ARG:HD2	1.96	0.47
46:DP:97:PRO:C	46:DP:99:LEU:N	2.68	0.47
15:AO:15:PHE:O	15:AO:16:ALA:O	2.31	0.47
28:D2:60:LEU:HG	28:D2:61:LEU:N	2.17	0.47
38:DD:118:VAL:HG22	38:DD:119:ALA:H	1.76	0.47
38:DD:117:VAL:HG21	38:DD:128:GLY:C	2.34	0.47
1:CA:35:G:H2'	1:CA:36:C:C6	2.49	0.47
1:AA:1072:G:H2'	1:AA:1073:U:H6	1.78	0.47
1:CA:255:G:H2'	1:CA:256:U:C6	2.49	0.47
17:AQ:59:ILE:CD1	17:AQ:73:VAL:HA	2.44	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2354:G:O2'	35:DA:2355:C:H5'	2.14	0.47
1:CA:332:G:H2'	1:CA:333:G:C8	2.46	0.47
48:BR:4:LEU:C	48:BR:6:SER:H	2.16	0.47
35:DA:1707:G:C4	35:DA:1708:C:C5	3.02	0.47
38:DD:46:GLN:N	38:DD:46:GLN:OE1	2.47	0.47
35:DA:2102:U:H2'	35:DA:2103:C:C5	2.49	0.47
52:BV:45:THR:HG22	52:BV:45:THR:O	2.13	0.47
1:AA:1242:C:P	21:AU:10:ARG:HH12	2.37	0.47
40:DF:126:VAL:CG1	40:DF:193:VAL:HG13	2.45	0.47
17:AQ:10:VAL:HG11	17:AQ:53:LEU:HA	1.96	0.47
23:CW:55:5MU:H73	23:CW:56:U:C4	2.48	0.47
35:DA:1406:U:H3'	35:DA:1407:C:C6	2.47	0.47
10:CJ:33:GLN:O	10:CJ:75:ILE:HG23	2.13	0.47
30:B4:45:GLY:C	30:B4:47:GLN:N	2.66	0.47
1:CA:425:G:H2'	1:CA:426:G:C8	2.46	0.47
50:DT:6:LEU:HD23	50:DT:6:LEU:O	2.14	0.47
1:CA:695:A:O2'	1:CA:696:A:H5'	2.14	0.47
1:CA:352:C:O2	1:CA:352:C:H2'	2.13	0.47
35:DA:2838:G:N2	48:DR:93:GLY:HA3	2.29	0.47
35:DA:1767:C:O2	35:DA:1985:G:N2	2.44	0.47
1:CA:93:G:C6	1:CA:96:U:C4	3.02	0.47
1:CA:746:A:H2'	1:CA:747:C:C6	2.50	0.47
1:AA:619:U:C2	4:AD:135:LEU:HD23	2.49	0.47
53:BW:37:ARG:HG3	53:BW:37:ARG:NH1	2.29	0.47
35:BA:118:A:OP2	35:BA:119:A:H5''	2.14	0.47
36:BB:40:U:H2'	36:BB:41:U:OP1	2.14	0.47
37:BC:77:ILE:HG13	37:BC:96:GLY:O	2.15	0.47
35:DA:1459:G:H5''	35:DA:1460:A:OP1	2.14	0.47
13:CM:7:VAL:HG12	13:CM:7:VAL:O	2.14	0.47
14:CN:42:ILE:O	14:CN:45:ARG:N	2.48	0.47
38:BD:25:THR:O	38:BD:26:LYS:C	2.53	0.47
5:CE:126:ARG:O	5:CE:128:PRO:N	2.47	0.47
5:CE:131:ILE:CD1	5:CE:131:ILE:H	2.21	0.47
41:DG:134:GLY:HA3	41:DG:155:MET:O	2.15	0.47
10:CJ:8:LEU:HB2	10:CJ:16:LEU:HD11	1.95	0.47
1:AA:1442(A):G:N2	50:BT:119:LYS:H	2.12	0.47
35:BA:2726:U:H6	45:BO:67:LYS:NZ	2.12	0.47
56:BZ:66:SER:C	56:BZ:67:LEU:HD12	2.34	0.47
39:DE:143:ASN:N	39:DE:143:ASN:ND2	2.62	0.47
44:BN:9:VAL:HG21	44:BN:39:ARG:HH21	1.79	0.47
51:BU:98:LEU:C	51:BU:100:VAL:H	2.16	0.47
14:AN:37:PHE:CE1	14:AN:53:LEU:HD22	2.49	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:DE:4:ILE:HG12	39:DE:28:ALA:HB1	1.94	0.47
39:DE:60:ASN:O	39:DE:62:PRO:N	2.47	0.47
2:AB:222:ILE:C	2:AB:222:ILE:HD13	2.34	0.47
2:AB:83:MET:O	2:AB:86:GLU:N	2.47	0.47
41:BG:161:THR:HG22	41:BG:163:ALA:H	1.78	0.47
28:D2:25:VAL:HG13	28:D2:26:ARG:N	2.29	0.47
42:BH:86:GLU:N	42:BH:86:GLU:OE1	2.47	0.47
56:DZ:117:LEU:HD23	56:DZ:117:LEU:H	1.79	0.47
56:DZ:150:LEU:O	56:DZ:171:ILE:HG12	2.13	0.47
44:DN:40:PRO:CA	51:DU:64:ARG:HH22	2.27	0.47
51:DU:108:GLU:HB3	51:DU:112:ARG:NH1	2.29	0.47
51:DU:49:HIS:O	51:DU:52:ARG:N	2.48	0.47
51:DU:96:ALA:C	51:DU:98:LEU:H	2.18	0.47
52:DV:93:GLU:HG2	52:DV:94:LEU:N	2.28	0.47
45:DO:112:MET:O	45:DO:115:VAL:HG23	2.14	0.47
49:BS:101:LEU:HD21	49:BS:103:GLU:CG	2.45	0.47
49:BS:92:TYR:C	49:BS:92:TYR:HD1	2.17	0.47
1:CA:408:A:H2'	1:CA:409:G:O4'	2.15	0.47
36:DB:73:A:H2'	36:DB:74:U:O4'	2.15	0.47
40:BF:103:LYS:O	40:BF:104:LYS:C	2.51	0.47
40:BF:119:ARG:HG2	40:BF:119:ARG:HH11	1.79	0.47
40:BF:202:PHE:CE1	40:BF:206:ILE:HD13	2.47	0.47
34:B8:56:GLU:HA	34:B8:59:LYS:CE	2.44	0.47
35:BA:1166:C:H2'	35:BA:1167:U:C6	2.49	0.47
40:DF:28:ILE:HD13	40:DF:28:ILE:H	1.77	0.47
40:DF:43:LYS:HA	40:DF:98:SER:HA	1.95	0.47
35:DA:2822:G:OP2	39:DE:110:GLY:O	2.32	0.47
1:AA:1426:C:C2	1:AA:1427:U:C5	3.02	0.47
20:AT:22:ARG:O	20:AT:23:ARG:C	2.53	0.47
35:BA:1284:A:H2'	35:BA:1285:G:O4'	2.13	0.47
35:BA:1654:A:C2	39:BE:113:PHE:CD1	3.03	0.47
2:AB:163:PHE:O	2:AB:164:VAL:HG23	2.14	0.47
2:AB:50:GLU:O	2:AB:51:LEU:C	2.53	0.47
15:CO:77:ARG:O	15:CO:80:ALA:HB3	2.14	0.47
34:D8:59:LYS:HB2	34:D8:59:LYS:NZ	2.29	0.47
35:DA:576:U:H2'	35:DA:577:G:H8	1.80	0.47
35:DA:109:G:H2'	35:DA:110:G:H8	1.78	0.47
55:DY:28:LYS:HZ2	55:DY:37:VAL:HA	1.77	0.47
35:DA:571:A:O2'	35:DA:573:G:O5'	2.32	0.47
35:DA:296:C:N4	35:DA:343:C:H42	2.12	0.47
1:AA:939:G:C4	1:AA:940:C:C5	3.02	0.47
7:AG:102:ARG:O	7:AG:103:TRP:C	2.50	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
21:AU:13:ILE:HA	21:AU:22:ARG:NH1	2.29	0.47
1:CA:259:G:O2'	1:CA:260:G:H5'	2.13	0.47
1:AA:1015:A:O5'	1:AA:1015:A:H8	1.98	0.47
35:BA:2127:G:H5'	37:BC:36:LYS:NZ	2.30	0.47
35:BA:2701:C:H2'	35:BA:2702:U:H6	1.79	0.47
35:BA:2034:U:H2'	35:BA:2035:G:H5'	1.96	0.47
11:CK:88:GLY:N	11:CK:91:ARG:HB2	2.30	0.47
33:B7:34:ARG:NE	33:B7:39:ARG:HD2	2.28	0.47
35:BA:768:G:H2'	35:BA:769:G:C8	2.49	0.47
26:D0:16:SER:HB3	35:DA:2262:U:OP2	2.14	0.47
55:BY:37:VAL:CG2	55:BY:67:LEU:HG	2.43	0.47
55:BY:67:LEU:HD12	55:BY:68:HIS:N	2.29	0.47
35:DA:619:G:O5'	35:DA:620:G:N2	2.43	0.47
1:AA:603:U:H2'	1:AA:604:G:C8	2.50	0.47
1:AA:922:G:C6	1:AA:923:A:C6	3.02	0.47
8:AH:60:ARG:HG3	8:AH:60:ARG:HH11	1.80	0.47
9:AI:4:TYR:HA	9:AI:88:TYR:CE1	2.49	0.47
8:CH:87:SER:HB3	8:CH:132:GLU:OE2	2.15	0.47
5:AE:147:ASP:HA	5:AE:150:ARG:CB	2.42	0.47
46:BP:83:VAL:HG11	46:BP:112:LEU:HD21	1.96	0.47
12:CL:41:ARG:HH11	12:CL:41:ARG:CB	2.19	0.47
35:DA:2495:G:C6	35:DA:2496:C:C4	3.02	0.47
1:CA:251:G:N2	1:CA:253:U:C4	2.83	0.47
35:DA:2115:G:H22	35:DA:2170:A:N6	2.12	0.47
35:DA:1930:G:N2	35:DA:1968:G:C2'	2.74	0.47
35:DA:1037:G:H1	35:DA:1118:C:N4	2.06	0.47
11:AK:99:GLN:NE2	11:AK:105:VAL:HG11	2.29	0.47
32:D6:28:ARG:O	32:D6:29:ASN:C	2.51	0.47
29:B3:17:LYS:HG2	35:BA:969:U:OP1	2.14	0.47
1:AA:339:C:O2'	1:AA:340:U:H5'	2.14	0.47
38:DD:167:GLY:O	38:DD:168:ARG:HG2	2.14	0.47
35:BA:2203:U:H4'	38:BD:151:LYS:HE3	1.97	0.47
35:DA:2763:G:C8	35:DA:2763:G:H5'	2.49	0.47
1:AA:769:G:O2'	1:AA:770:C:H5'	2.14	0.47
1:AA:811:C:H4'	1:AA:900:A:H62	1.79	0.47
35:BA:154(A):C:H5	35:BA:171:G:H1	1.59	0.47
35:DA:1387:C:C5'	35:DA:1469:A:H4'	2.44	0.47
1:CA:1271:G:H2'	1:CA:1272:G:O4'	2.14	0.47
34:D8:17:THR:HG22	35:DA:650:C:O2'	2.14	0.47
1:CA:299:G:C6	1:CA:300:A:N1	2.83	0.47
53:BW:24:ILE:O	53:BW:71:VAL:HG11	2.14	0.47
7:CG:16:LEU:CD1	9:CI:41:VAL:HG12	2.43	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
53:DW:26:GLY:H	53:DW:71:VAL:CG1	2.27	0.47
35:BA:604:G:H2'	35:BA:605:C:C6	2.49	0.47
17:CQ:56:VAL:HG23	17:CQ:78:GLU:HG3	1.96	0.47
35:BA:828:U:O2	35:BA:828:U:H3'	2.14	0.47
35:BA:1467:C:H2'	35:BA:1468:C:H6	1.79	0.47
35:DA:2556:C:H2'	35:DA:2557:G:O4'	2.13	0.47
35:BA:1555:G:H2'	35:BA:1556:C:H6	1.79	0.47
51:DU:29:SER:O	51:DU:30:LYS:NZ	2.43	0.47
17:CQ:62:SER:CB	17:CQ:72:ARG:HG3	2.44	0.47
1:AA:1527:C:C2	1:AA:1528:U:C5	3.02	0.47
35:BA:951:C:O2'	35:BA:952:G:H5'	2.14	0.47
43:DI:20:ASP:O	43:DI:21:VAL:HG13	2.13	0.47
1:CA:1210:C:H4'	1:CA:1214:C:C4	2.49	0.47
35:BA:2228:G:P	38:BD:263:ARG:HH21	2.37	0.47
41:DG:55:LYS:HD3	41:DG:55:LYS:O	2.14	0.47
35:BA:2519:U:OP1	35:BA:2519:U:H3'	2.14	0.47
20:CT:90:GLN:C	20:CT:93:GLU:OE2	2.52	0.47
55:DY:44:ILE:HG23	55:DY:45:VAL:N	2.30	0.47
35:DA:2001:A:C2	35:DA:2002:G:C4	3.02	0.47
45:DO:105:GLU:HA	45:DO:108:GLU:CD	2.34	0.47
50:DT:108:ARG:HB3	50:DT:108:ARG:HH11	1.80	0.47
43:BI:79:ILE:CG2	43:BI:81:VAL:HG23	2.45	0.47
1:CA:972:C:H4'	10:CJ:57:LYS:HG2	1.93	0.47
38:DD:211:ARG:O	38:DD:212:SER:C	2.52	0.47
35:DA:1902:C:C4'	38:DD:244:ARG:HB2	2.43	0.47
36:DB:40:U:H2'	36:DB:41:U:OP1	2.14	0.47
41:DG:51:ARG:CA	41:DG:51:ARG:HE	2.21	0.47
32:B6:51:GLU:OE1	32:B6:51:GLU:N	2.45	0.47
47:DQ:35:VAL:HG22	47:DQ:100:GLY:O	2.14	0.47
35:BA:1997:G:C2	35:BA:1998:G:C5	3.03	0.47
35:BA:2730:C:H2'	35:BA:2731:G:H8	1.80	0.47
45:BO:65:THR:O	45:BO:79:PHE:HB2	2.14	0.47
1:AA:1442(B):A:N6	50:BT:118:ARG:NH2	2.63	0.47
50:BT:27:THR:HG23	50:BT:28:VAL:N	2.28	0.47
50:BT:50:ILE:HD11	50:BT:64:ARG:HB3	1.96	0.47
50:BT:61:PHE:CZ	50:BT:76:PHE:HB3	2.49	0.47
39:BE:181:LEU:CD2	39:BE:181:LEU:N	2.76	0.47
52:BV:30:GLY:HA2	52:BV:64:HIS:O	2.14	0.47
42:DH:109:PHE:HE1	42:DH:152:ARG:NE	2.12	0.47
14:AN:42:ILE:O	14:AN:45:ARG:N	2.45	0.47
35:BA:142:A:C8	35:BA:1408:C:H1'	2.49	0.47
35:BA:70:G:H21	35:BA:71:A:N6	2.12	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
54:BX:33:LYS:O	54:BX:35:THR:N	2.47	0.47
27:B1:85:LEU:CA	27:B1:87:PRO:HD3	2.43	0.47
27:B1:88:LYS:HG3	27:B1:89:GLU:OE2	2.15	0.47
2:AB:213:LEU:C	2:AB:213:LEU:CD2	2.83	0.47
41:BG:107:LEU:HD11	41:BG:178:PHE:CE1	2.48	0.47
41:BG:174:GLU:O	41:BG:176:LEU:N	2.47	0.47
41:BG:72:ARG:HB3	41:BG:86:MET:N	2.19	0.47
35:BA:2667:C:H1'	42:BH:109:PHE:CE2	2.50	0.47
56:DZ:125:LEU:CB	56:DZ:165:VAL:HG22	2.31	0.47
56:DZ:59:LEU:HD11	56:DZ:69:THR:OG1	2.15	0.47
29:D3:32:GLN:OE1	29:D3:32:GLN:HA	2.14	0.47
35:DA:996:A:N6	35:DA:1160:G:C6	2.82	0.47
52:DV:30:GLY:HA2	52:DV:64:HIS:O	2.14	0.47
52:DV:29:PRO:C	52:DV:31:ALA:H	2.18	0.47
19:CS:16:LEU:O	19:CS:20:LEU:N	2.44	0.47
49:BS:36:TYR:HA	49:BS:52:SER:HB2	1.96	0.47
49:BS:54:LEU:CD1	49:BS:58:LEU:O	2.61	0.47
49:BS:65:VAL:HG12	49:BS:69:VAL:HB	1.96	0.47
4:CD:148:VAL:O	4:CD:149:ALA:O	2.33	0.47
4:CD:98:GLU:C	4:CD:100:ARG:H	2.17	0.47
40:BF:185:ASP:HA	40:BF:188:ARG:CB	2.39	0.47
35:BA:660:G:C5'	40:BF:99:TYR:CD2	2.97	0.47
25:AY:76:LEU:O	25:AY:79:ILE:HB	2.13	0.47
34:D8:21:LYS:O	34:D8:23:VAL:HG23	2.14	0.47
35:DA:1022:G:O2'	35:DA:1023:U:OP2	2.26	0.47
34:B8:3:LYS:O	34:B8:4:MET:O	2.32	0.47
35:BA:2031:A:C6	35:BA:2498:C:H1'	2.50	0.47
35:BA:196:A:C5'	46:BP:46:LYS:HZ1	2.24	0.47
40:DF:157:VAL:HB	40:DF:194:MET:HB3	1.97	0.47
35:BA:957:A:OP1	35:BA:957:A:H8	1.98	0.47
48:DR:10:LEU:HD22	48:DR:17:ARG:CD	2.27	0.47
48:DR:17:ARG:CG	48:DR:17:ARG:HH11	2.23	0.47
48:BR:56:LYS:HD2	48:BR:88:ARG:HA	1.97	0.47
2:AB:69:LEU:C	2:AB:69:LEU:CD1	2.83	0.47
44:DN:123:TYR:N	44:DN:123:TYR:CD1	2.83	0.47
44:DN:125:GLY:HA3	44:DN:126:PRO:O	2.14	0.47
15:CO:87:ILE:HG22	15:CO:88:ARG:H	1.79	0.47
18:CR:81:PHE:O	18:CR:82:THR:CB	2.63	0.47
2:CB:195:ASP:O	8:CH:68:ARG:NH2	2.47	0.47
35:DA:814:C:H1'	35:DA:1225:G:H21	1.79	0.47
35:DA:834:C:H2'	35:DA:835:A:C8	2.49	0.47
4:AD:100:ARG:O	4:AD:101:LEU:C	2.52	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
19:AS:15:LEU:N	19:AS:15:LEU:HD22	2.26	0.47
19:AS:72:GLY:C	19:AS:74:PHE:N	2.67	0.47
6:AF:10:LEU:HD12	6:AF:10:LEU:N	2.28	0.47
6:AF:72:VAL:CG1	6:AF:73:ASN:H	2.22	0.47
3:AC:172:ARG:NH1	3:AC:174:PRO:HG2	2.30	0.47
25:CY:177:GLU:O	25:CY:178:LYS:C	2.53	0.47
21:CU:12:LYS:HG2	21:CU:22:ARG:HB2	1.97	0.47
12:CL:55:VAL:CG1	12:CL:56:ALA:H	2.08	0.47
1:CA:1226:C:OP1	13:CM:96:LEU:HD13	2.15	0.47
1:AA:1268:A:H2'	1:AA:1269:A:C8	2.48	0.47
35:BA:1659:U:OP2	39:BE:132:HIS:HE1	1.98	0.47
12:AL:84:LEU:HD22	12:AL:101:VAL:HG21	1.97	0.47
55:BY:2:ARG:HG2	55:BY:2:ARG:NH1	2.30	0.47
11:CK:73:MET:HA	11:CK:77:MET:HB3	1.97	0.47
5:AE:127:ASN:O	5:AE:128:PRO:C	2.53	0.47
9:CI:13:ALA:HB2	9:CI:68:GLY:HA3	1.96	0.47
56:BZ:115:GLY:CA	56:BZ:175:VAL:O	2.51	0.47
1:AA:1149:C:H2'	1:AA:1150:U:C6	2.46	0.47
9:AI:7:THR:H	9:AI:83:ARG:HD2	1.80	0.47
1:CA:528:C:N4	12:CL:49:ASN:HD22	2.07	0.47
12:CL:91:LYS:HG3	12:CL:91:LYS:O	2.14	0.47
35:BA:2319:G:H4'	35:BA:2319:G:OP2	2.14	0.47
46:DP:128:HIS:O	46:DP:129:ALA:HB2	2.14	0.47
46:BP:84:ASN:CG	46:BP:116:GLY:HA3	2.34	0.47
40:BF:153:SER:HA	40:BF:172:TRP:O	2.14	0.47
1:AA:802:A:C2'	1:AA:803:G:H5'	2.43	0.47
35:DA:2319:G:C5	35:DA:2320:A:N6	2.83	0.47
6:CF:45:LEU:CD1	6:CF:46:ARG:N	2.76	0.47
1:CA:38:G:C2	1:CA:397:A:C2	3.02	0.47
1:AA:1443:G:N1	1:AA:1460:A:N3	2.62	0.47
17:AQ:70:ARG:C	17:AQ:71:PHE:HD2	2.18	0.47
5:CE:105:VAL:HB	5:CE:106:PRO:HD3	1.97	0.47
4:AD:4:TYR:O	4:AD:5:ILE:CB	2.62	0.47
4:AD:5:ILE:CG2	4:AD:6:GLY:H	2.11	0.47
13:AM:49:THR:HG22	13:AM:50:GLU:N	2.30	0.47
13:AM:50:GLU:O	13:AM:54:VAL:HG23	2.15	0.47
35:BA:462:C:N4	35:BA:468:G:C6	2.82	0.47
25:AY:74:ASN:HA	25:AY:77:LYS:CG	2.44	0.47
35:DA:1112:G:O2'	35:DA:1113:U:H5''	2.15	0.47
36:DB:79:C:H2'	36:DB:80:U:O4'	2.15	0.47
27:B1:20:ARG:CZ	27:B1:41:ARG:NE	2.77	0.47
35:DA:1468:C:O2'	35:DA:1469:A:H5'	2.14	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1866:C:H2'	35:BA:1876:A:O4'	2.15	0.47
35:BA:1007:C:HO2'	44:BN:108:PRO:HA	1.77	0.47
35:DA:705:A:C2	35:DA:706:A:C4	3.02	0.47
35:DA:474:G:H4'	35:DA:475:U:OP1	2.12	0.47
7:CG:148:ASN:C	7:CG:150:ALA:N	2.68	0.47
7:CG:85:TYR:CE1	7:CG:154:TYR:HE1	2.33	0.47
1:AA:245:C:C2'	1:AA:246:A:H5'	2.44	0.47
44:DN:13:TRP:H	44:DN:13:TRP:HD1	1.58	0.47
3:CC:127:ARG:HD2	3:CC:127:ARG:N	2.29	0.47
6:CF:43:LEU:HD12	6:CF:43:LEU:N	2.26	0.47
36:DB:61:G:H2'	36:DB:62:C:H6	1.78	0.47
35:DA:979:G:N2	35:DA:985:C:N4	2.63	0.47
1:CA:630:G:H2'	1:CA:631:G:C5'	2.44	0.47
52:BV:51:VAL:HG12	52:BV:52:VAL:N	2.30	0.47
43:BI:29:TYR:CE1	43:BI:33:ARG:NE	2.82	0.47
35:BA:2843:G:C2	35:BA:2875:C:N3	2.82	0.47
1:CA:1039:C:H2'	1:CA:1040:U:C6	2.50	0.47
17:AQ:56:VAL:HG23	17:AQ:78:GLU:HG3	1.96	0.47
56:DZ:94:GLU:HA	56:DZ:95:PRO:HD2	1.82	0.47
35:BA:1136:G:N3	35:BA:2038:G:H4'	2.29	0.47
1:CA:363:A:O2'	1:CA:364:A:H5'	2.13	0.47
1:AA:1273:G:H2'	1:AA:1274:G:O4'	2.14	0.47
1:CA:788:U:H2'	1:CA:789:U:H6	1.79	0.47
2:AB:114:ARG:HA	2:AB:117:GLU:HB2	1.97	0.47
34:D8:48:PHE:N	34:D8:48:PHE:CD1	2.76	0.47
3:AC:40:ARG:O	3:AC:44:GLU:N	2.44	0.47
1:CA:517:G:N3	1:CA:531:U:H5'	2.29	0.47
35:DA:2003:G:C6	35:DA:2004:G:C5	3.02	0.47
1:CA:13:U:C5	1:CA:916:G:O6	2.68	0.47
35:BA:2357:U:H2'	35:BA:2358:G:H5''	1.96	0.47
36:BB:110:G:H2'	36:BB:111:G:H8	1.79	0.47
38:BD:5:LYS:N	38:BD:5:LYS:HD2	2.28	0.47
35:DA:1950:G:H8	35:DA:1950:G:O5'	1.98	0.47
4:AD:206:PHE:O	4:AD:206:PHE:CG	2.68	0.47
35:BA:2373:G:C6	35:BA:2374:C:N4	2.83	0.47
7:AG:32:ARG:O	7:AG:33:ASP:HB2	2.14	0.47
45:DO:14:THR:HG21	45:DO:86:ILE:HG12	1.96	0.47
45:DO:61:VAL:O	45:DO:84:ALA:CB	2.54	0.47
53:DW:28:SER:O	53:DW:29:LEU:C	2.52	0.47
35:BA:1902:C:C4'	38:BD:244:ARG:HB2	2.43	0.47
1:CA:1392:G:O2'	1:CA:1393:U:H5'	2.13	0.47
1:CA:774:G:H1	1:CA:805:C:N4	2.13	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:DD:243:GLY:O	38:DD:244:ARG:HB3	2.15	0.47
16:CP:4:ILE:HB	16:CP:66:PRO:CB	2.36	0.47
41:DG:120:LEU:HD12	41:DG:180:PHE:CE1	2.50	0.47
41:DG:133:LEU:HB2	41:DG:134:GLY:H	1.54	0.47
10:CJ:34:VAL:HA	10:CJ:74:ILE:HA	1.97	0.47
34:B8:23:VAL:CG1	34:B8:46:ARG:NH1	2.76	0.47
47:DQ:39:PRO:O	47:DQ:40:ALA:HB2	2.15	0.47
45:BO:85:VAL:CG1	45:BO:86:ILE:N	2.77	0.47
56:BZ:18:LEU:HD11	56:BZ:23:LYS:HB2	1.97	0.47
56:BZ:54:HIS:HB3	56:BZ:101:PRO:CG	2.45	0.47
35:BA:2810:A:O2'	39:BE:61:ARG:NE	2.48	0.47
35:BA:996:A:N6	35:BA:1160:G:C6	2.83	0.47
51:BU:91:ASP:OD2	51:BU:96:ALA:HB2	2.15	0.47
27:B1:13:ILE:HB	27:B1:63:ALA:CB	2.41	0.47
54:DX:31:HIS:O	54:DX:32:PRO:C	2.53	0.47
54:DX:24:GLY:HA2	54:DX:80:ILE:HG13	1.95	0.47
35:BA:2596:U:H2'	35:BA:2597:G:O4'	2.15	0.47
35:DA:1011:G:C6	35:DA:1151:G:C6	3.02	0.47
19:CS:72:GLY:C	19:CS:74:PHE:N	2.68	0.47
36:BB:7:G:H2'	36:BB:8:U:O4'	2.15	0.47
49:BS:90:GLY:C	49:BS:92:TYR:N	2.63	0.47
1:CA:542:G:C4	1:CA:543:C:C5	3.03	0.47
4:CD:13:ARG:O	4:CD:15:GLU:N	2.47	0.47
4:CD:31:CYS:C	4:CD:33:MET:H	2.17	0.47
4:CD:13:ARG:NH1	4:CD:40:PRO:HA	2.29	0.47
44:BN:67:LEU:HB3	44:BN:88:GLU:CD	2.35	0.47
27:D1:52:ARG:O	27:D1:53:VAL:HG12	2.15	0.47
27:D1:76:ARG:CA	27:D1:78:LYS:NZ	2.77	0.47
27:D1:87:PRO:HD2	27:D1:88:LYS:H	1.80	0.47
34:B8:2:PRO:C	34:B8:4:MET:H	2.17	0.47
34:B8:56:GLU:O	34:B8:57:ARG:C	2.52	0.47
35:BA:1257:C:H2'	35:BA:1258:C:H6	1.80	0.47
35:BA:199:A:C6	35:BA:2434:A:C6	3.02	0.47
35:BA:563:G:OP2	35:BA:572:A:H5'	2.15	0.47
35:DA:442:G:H4'	40:DF:46:ARG:HD3	1.97	0.47
35:BA:910:A:C4	47:BQ:13:GLN:OE1	2.68	0.47
35:DA:1281:G:H1	35:DA:1286:A:N6	2.13	0.47
1:AA:1463:C:H2'	1:AA:1464:G:H8	1.80	0.47
1:AA:1463:C:H2'	1:AA:1464:G:C8	2.49	0.47
2:CB:213:LEU:O	2:CB:217:ARG:HG2	2.14	0.47
45:BO:111:PHE:CB	45:BO:114:ILE:HD13	2.35	0.47
2:CB:187:LEU:HB2	2:CB:201:ILE:HB	1.96	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:CB:70:PHE:O	2:CB:92:TYR:HA	2.15	0.47
1:AA:1321:C:H5''	1:AA:1322:C:H5''	1.92	0.47
19:AS:12:ASP:HB3	19:AS:15:LEU:CD2	2.44	0.47
4:AD:30:LYS:O	4:AD:32:ALA:N	2.47	0.47
1:CA:1494:G:H2'	1:CA:1494:G:N3	2.30	0.47
13:CM:86:CYS:SG	13:CM:89:GLY:N	2.88	0.47
1:CA:1457:G:H2'	1:CA:1458:G:C8	2.43	0.47
11:CK:51:LYS:HA	11:CK:55:LYS:HG3	1.96	0.47
25:AY:150:SER:O	25:AY:152:ASP:N	2.47	0.47
43:BI:102:SER:HB2	43:BI:109:ILE:CG2	2.44	0.47
40:DF:132:VAL:O	40:DF:133:ASN:C	2.53	0.47
7:AG:140:ASP:HA	7:AG:143:ARG:CZ	2.45	0.47
13:AM:107:ALA:H	13:AM:108:ARG:HD2	1.79	0.47
35:DA:419:C:O2'	35:DA:420:C:H5'	2.14	0.47
11:CK:102:GLY:O	11:CK:103:LEU:O	2.33	0.47
11:CK:58:PRO:HA	11:CK:90:GLY:HA3	1.96	0.47
1:CA:1346:A:H5''	9:CI:120:ARG:NH1	2.24	0.47
9:CI:65:VAL:CG2	9:CI:66:ARG:H	2.27	0.47
8:CH:86:ILE:HG21	8:CH:133:LEU:CD2	2.44	0.47
8:CH:15:ASN:O	8:CH:16:ALA:C	2.53	0.47
31:D5:30:LEU:HD23	31:D5:41:PRO:HB3	1.96	0.47
5:AE:146:ALA:O	5:AE:148:VAL:N	2.48	0.47
31:B5:40:LYS:HZ3	31:B5:45:VAL:CA	2.26	0.47
31:B5:51:TYR:C	31:B5:56:LYS:HG2	2.35	0.47
29:B3:9:VAL:HG22	29:B3:54:VAL:HA	1.96	0.47
1:CA:515:G:C2	1:CA:537:G:C2	3.03	0.47
54:DX:18:TYR:O	54:DX:21:PHE:HB2	2.14	0.47
3:AC:105:GLU:CG	3:AC:106:VAL:H	2.14	0.47
29:D3:9:VAL:HG22	29:D3:54:VAL:HA	1.96	0.47
1:CA:310:G:O2'	1:CA:311:C:H5'	2.15	0.47
14:CN:6:LEU:O	14:CN:8:GLU:N	2.48	0.47
1:CA:1055:A:C2	1:CA:1056:U:H1'	2.50	0.47
26:D0:38:VAL:CG2	26:D0:59:LEU:HB2	2.45	0.47
5:AE:109:ILE:HD12	5:AE:135:THR:HB	1.97	0.47
1:CA:59:A:H5'	1:CA:60:A:H5'	1.96	0.47
53:DW:20:VAL:O	53:DW:23:LEU:HB2	2.14	0.47
5:CE:6:PHE:HB2	5:CE:34:VAL:CG1	2.45	0.47
13:AM:36:LYS:O	13:AM:37:THR:HG23	2.15	0.47
5:CE:78:HIS:HD2	8:CH:104:ARG:NE	2.12	0.47
1:CA:66:G:C4'	1:CA:173:U:C4	2.98	0.47
1:CA:66:G:C4'	1:CA:173:U:C5	2.93	0.47
26:B0:36:ILE:HA	26:B0:60:PHE:HB3	1.96	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
26:B0:77:ARG:HH22	35:BA:857:C:C5'	2.21	0.47
35:DA:292:C:H2'	35:DA:292:C:O2	2.12	0.47
1:AA:729:A:H2'	1:AA:730:G:C8	2.49	0.47
13:AM:3:ARG:HG2	13:AM:9:ILE:HD11	1.95	0.47
1:AA:1300:G:O2'	1:AA:1301:U:O5'	2.26	0.47
15:AO:39:LEU:O	15:AO:42:HIS:HB3	2.14	0.47
1:CA:1238:A:N7	1:CA:1303:C:H1'	2.29	0.47
2:CB:19:HIS:CE1	2:CB:206:ASP:HB2	2.50	0.47
46:BP:58:THR:C	46:BP:60:MET:N	2.66	0.47
1:AA:769:G:H1	1:AA:810:C:H42	1.61	0.47
31:D5:19:ARG:HA	35:DA:2046:G:O5'	2.14	0.47
29:D3:52:HIS:CG	36:DB:83:G:H4'	2.48	0.47
35:DA:1835:G:C5'	35:DA:1836:C:OP2	2.60	0.47
44:DN:137:LYS:CG	44:DN:138:LEU:H	2.25	0.47
17:CQ:11:VAL:CA	17:CQ:53:LEU:HD11	2.44	0.47
25:AY:116:ARG:HG2	25:AY:116:ARG:NH1	2.25	0.47
35:DA:1935:G:C3'	35:DA:1962:C:H42	2.27	0.47
1:AA:352:C:H2'	1:AA:352:C:O2	2.15	0.47
35:BA:306:U:H2'	35:BA:306:U:O2	2.14	0.47
35:BA:38:A:H2'	35:BA:39:C:C6	2.49	0.47
2:AB:224:GLN:HG3	2:AB:229:VAL:CG2	2.44	0.47
1:AA:1036:G:H2'	1:AA:1036:G:N3	2.28	0.47
1:AA:781:A:C2'	1:AA:782:A:H5'	2.44	0.47
35:BA:1916:A:H3'	35:BA:1917:U:C6	2.50	0.47
3:CC:33:LEU:O	3:CC:36:ASP:HB3	2.14	0.47
35:BA:1317:A:C6	35:BA:1318:C:C4	3.03	0.47
13:AM:7:VAL:HG12	13:AM:7:VAL:O	2.15	0.47
23:AW:3:C:H6	23:AW:3:C:OP2	1.98	0.47
2:AB:15:VAL:HG23	2:AB:209:ARG:HE	1.80	0.47
39:DE:107:THR:O	39:DE:190:GLY:HA2	2.15	0.47
35:DA:2712:U:C1'	35:DA:2712(A):A:C8	2.97	0.47
50:DT:50:ILE:HA	50:DT:99:LEU:CD1	2.43	0.47
50:DT:61:PHE:CZ	50:DT:76:PHE:CB	2.98	0.47
43:BI:92:VAL:O	43:BI:92:VAL:HG13	2.14	0.47
38:BD:12:SER:HB2	38:BD:208:LYS:HB3	1.96	0.47
35:BA:1775:U:H2'	35:BA:1776:G:O5'	2.14	0.47
38:BD:27:THR:O	38:BD:28:GLU:CB	2.61	0.47
38:DD:267:SER:HA	38:DD:270:ILE:HG13	1.96	0.47
38:DD:25:THR:HG23	38:DD:27:THR:HB	1.96	0.47
35:DA:1778:U:H2'	35:DA:1784:A:N6	2.30	0.47
38:DD:25:THR:CG2	38:DD:82:ILE:N	2.77	0.47
38:DD:27:THR:O	38:DD:28:GLU:CB	2.58	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:DG:88:ILE:CG2	41:DG:89:GLY:N	2.77	0.47
34:B8:35:GLN:HE21	34:B8:36:LYS:HZ3	1.60	0.47
1:AA:1442(A):G:N2	50:BT:118:ARG:HB2	2.30	0.47
50:BT:61:PHE:CZ	50:BT:76:PHE:CB	2.97	0.47
35:BA:1676:A:H2'	35:BA:1677:A:O4'	2.14	0.47
16:AP:2:VAL:O	16:AP:2:VAL:HG22	2.14	0.47
56:BZ:102:LEU:HD12	56:BZ:121:HIS:O	2.14	0.47
35:DA:2571:C:H5'	35:DA:2572:A:C5'	2.45	0.47
35:DA:1578:U:OP2	35:DA:1578:U:H6	1.97	0.47
35:DA:1578:U:H2'	35:DA:1579:A:H5''	1.96	0.47
1:AA:1065:U:H4'	1:AA:1066:C:O5'	2.14	0.47
35:DA:1578:U:C6	35:DA:1578:U:OP2	2.68	0.47
42:DH:86:GLU:N	42:DH:86:GLU:OE1	2.46	0.47
51:BU:61:TRP:O	51:BU:63:VAL:N	2.48	0.47
51:BU:96:ALA:C	51:BU:98:LEU:N	2.68	0.47
42:DH:89:ILE:O	42:DH:161:GLY:O	2.32	0.47
3:AC:29:TYR:HE2	14:AN:37:PHE:CE1	2.32	0.47
54:BX:30:VAL:O	54:BX:31:HIS:C	2.52	0.47
54:BX:58:HIS:C	54:BX:59:VAL:HG22	2.35	0.47
28:B2:14:ARG:O	28:B2:15:LYS:C	2.53	0.47
28:B2:22:GLU:CA	28:B2:25:VAL:HG12	2.44	0.47
54:BX:36:LYS:O	54:BX:37:THR:C	2.52	0.47
54:BX:57:LEU:O	54:BX:58:HIS:CG	2.67	0.47
27:B1:14:VAL:O	27:B1:15:ALA:O	2.33	0.47
27:B1:71:TYR:O	27:B1:74:VAL:HB	2.15	0.47
2:AB:233:SER:C	2:AB:235:SER:H	2.18	0.47
41:BG:104:GLU:O	41:BG:108:ASN:OD1	2.31	0.47
41:BG:108:ASN:O	41:BG:112:PRO:HG2	2.14	0.47
41:BG:111:LEU:O	41:BG:114:ILE:HG13	2.15	0.47
55:DY:86:ARG:HG2	55:DY:87:LYS:H	1.80	0.47
35:DA:902:C:H2'	35:DA:903:C:H6	1.78	0.47
56:DZ:44:PHE:O	56:DZ:48:PHE:N	2.44	0.47
52:DV:34:GLU:HG2	52:DV:35:LEU:H	1.78	0.47
1:AA:1125:U:O4	10:AJ:5:ARG:HD3	2.14	0.47
10:AJ:34:VAL:HA	10:AJ:74:ILE:HA	1.96	0.47
49:BS:89:ARG:HB3	49:BS:97:ARG:HH22	1.80	0.47
36:BB:28:C:H2'	36:BB:29:A:C8	2.50	0.47
49:BS:66:ALA:HA	49:BS:69:VAL:CG1	2.44	0.47
4:CD:120:LEU:HB2	4:CD:126:ILE:HD11	1.96	0.47
4:CD:15:GLU:H	4:CD:15:GLU:CD	2.16	0.47
4:CD:187:ARG:NH1	4:CD:187:ARG:HG2	2.29	0.47
4:CD:102:ASP:HA	4:CD:121:VAL:HG21	1.96	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:CD:100:ARG:O	4:CD:103:ASN:HB3	2.14	0.47
43:DI:123:LEU:HD11	43:DI:143:SER:O	2.15	0.47
25:AY:36:ALA:HA	25:AY:39:LEU:CD2	2.45	0.47
35:BA:2050:C:H2'	35:BA:2051:A:O4'	2.15	0.47
35:BA:2051:A:C4'	39:BE:141:ILE:HD11	2.45	0.47
35:BA:443:A:OP1	40:BF:46:ARG:CB	2.63	0.47
35:BA:613:G:C6	35:BA:615:G:O6	2.68	0.47
39:BE:120:TRP:CD1	39:BE:155:LYS:HB3	2.49	0.47
34:D8:39:LYS:HZ1	34:D8:43:GLN:HG3	1.80	0.47
27:D1:87:PRO:CB	27:D1:91:LYS:NZ	2.72	0.47
35:DA:393:C:H2'	35:DA:394:A:C8	2.45	0.47
35:BA:669:G:N2	35:BA:670:A:C4	2.83	0.47
35:BA:798:G:C6	35:BA:799:G:C6	3.02	0.47
46:BP:35:HIS:CD2	46:BP:35:HIS:O	2.68	0.47
35:BA:1257:C:H2'	35:BA:1258:C:C6	2.50	0.47
35:BA:571:A:O2'	35:BA:573:G:O5'	2.32	0.47
35:BA:814:C:HO2'	35:BA:815:C:H5'	1.79	0.47
40:BF:71:GLY:O	40:BF:73:ALA:N	2.48	0.47
35:BA:195:A:OP1	46:BP:46:LYS:HE2	2.15	0.47
52:BV:72:VAL:O	52:BV:73:SER:CB	2.62	0.47
40:DF:24:LEU:O	40:DF:25:PRO:C	2.52	0.47
40:DF:119:ARG:HH11	40:DF:119:ARG:HG2	1.79	0.47
40:DF:45:ARG:HD2	40:DF:46:ARG:H	1.79	0.47
35:BA:911:A:C4	47:BQ:9:TYR:OH	2.64	0.47
35:DA:1279:G:H2'	35:DA:1280:G:H8	1.80	0.47
20:AT:16:HIS:O	20:AT:19:SER:N	2.47	0.47
36:DB:28:C:H2'	36:DB:29:A:O4'	2.14	0.47
49:DS:101:LEU:HD21	49:DS:103:GLU:CG	2.45	0.47
49:DS:29:PHE:C	49:DS:29:PHE:CD1	2.87	0.47
36:DB:29:A:OP2	49:DS:32:LEU:HB2	2.15	0.47
36:DB:28:C:H2'	36:DB:29:A:C8	2.49	0.47
49:DS:66:ALA:HB1	49:DS:98:VAL:O	2.15	0.47
49:DS:25:ARG:NH2	49:DS:89:ARG:NH1	2.58	0.47
2:CB:12:GLU:C	2:CB:14:GLY:H	2.17	0.47
2:CB:222:ILE:HD13	2:CB:222:ILE:C	2.34	0.47
2:CB:212:GLN:NE2	2:CB:235:SER:HB3	2.30	0.47
2:AB:187:LEU:HD23	2:AB:201:ILE:O	2.14	0.47
35:DA:2079:U:H2'	35:DA:2080:G:H8	1.78	0.47
56:BZ:149:SER:CB	56:BZ:173:ALA:CA	2.90	0.47
1:CA:658:G:O4'	15:CO:22:THR:HB	2.14	0.47
15:CO:53:HIS:O	15:CO:56:LEU:N	2.48	0.47
15:CO:80:ALA:O	15:CO:81:LEU:C	2.53	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:CB:36:ARG:HB3	2:CB:41:ILE:CD1	2.42	0.47
35:DA:675:A:C6	35:DA:676:A:C6	3.02	0.47
46:DP:23:PRO:HB2	46:DP:33:ARG:CG	2.43	0.47
34:D8:49:VAL:HG12	34:D8:53:PRO:HD3	1.97	0.47
40:DF:89:VAL:O	40:DF:91:GLY:N	2.42	0.47
4:AD:147:ALA:HA	4:AD:182:LYS:HB3	1.96	0.47
4:AD:176:LEU:HD12	4:AD:177:ASP:H	1.78	0.47
19:AS:17:GLU:C	19:AS:19:VAL:H	2.17	0.47
19:AS:36:ARG:NH2	19:AS:72:GLY:HA2	2.30	0.47
35:DA:79:G:H2'	35:DA:80:G:H8	1.79	0.47
55:DY:14:LEU:HD12	55:DY:23:ARG:O	2.15	0.47
35:BA:2533:A:C3'	35:BA:2534:A:H5''	2.45	0.47
4:AD:32:ALA:O	4:AD:36:ARG:N	2.48	0.47
4:AD:65:ARG:NH1	4:AD:72:GLU:HB2	2.30	0.47
4:AD:13:ARG:HH22	4:AD:36:ARG:HH11	1.63	0.47
47:DQ:16:ARG:HB3	47:DQ:16:ARG:CZ	2.45	0.47
35:DA:958:U:OP2	47:DQ:14:ARG:NH1	2.48	0.47
51:DU:31:SER:HB3	51:DU:34:LYS:CB	2.44	0.47
35:DA:2033:A:HO2'	35:DA:2034:U:P	2.36	0.47
51:DU:35:ALA:O	51:DU:36:ARG:C	2.52	0.47
35:DA:31:C:H2'	35:DA:32:C:O4'	2.14	0.47
25:CY:25:LEU:C	25:CY:179:LYS:HE2	2.35	0.47
25:CY:127:VAL:O	25:CY:130:ARG:N	2.48	0.47
25:CY:164:ILE:O	25:CY:168:PHE:HB2	2.15	0.47
25:CY:2:THR:HG23	25:CY:4:LYS:HB3	1.96	0.47
12:CL:66:VAL:HG21	12:CL:98:TYR:CD1	2.49	0.47
13:CM:114:ARG:C	13:CM:116:THR:H	2.17	0.47
42:DH:25:LYS:HB3	42:DH:32:GLU:OE2	2.15	0.47
25:AY:107:THR:HG23	25:AY:110:ARG:H	1.79	0.47
25:AY:16:LYS:O	25:AY:19:GLU:N	2.48	0.47
25:AY:156:ARG:NH2	47:BQ:80:GLU:HG2	2.30	0.47
11:AK:19:ALA:CB	11:AK:32:ILE:HG12	2.45	0.47
18:AR:85:LEU:CG	18:AR:86:VAL:H	2.19	0.47
42:DH:37:VAL:HG12	42:DH:38:SER:N	2.30	0.47
8:CH:122:ARG:CA	8:CH:125:ARG:HB3	2.40	0.47
26:B0:17:GLN:HG2	35:BA:2261:C:P	2.54	0.47
35:BA:2426:A:C3'	35:BA:2427:C:C5'	2.86	0.47
55:BY:2:ARG:HG2	55:BY:2:ARG:HH11	1.78	0.47
35:BA:105:C:C5'	35:BA:106:C:OP2	2.62	0.47
2:CB:177:ALA:O	2:CB:180:LEU:N	2.48	0.47
13:AM:83:ASP:OD1	13:AM:86:CYS:HB2	2.14	0.47
5:AE:39:GLY:O	5:AE:69:VAL:N	2.48	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
43:DI:6:LEU:O	43:DI:8:PRO:N	2.47	0.47
1:AA:513:C:H2'	1:AA:514:C:C6	2.49	0.47
12:AL:89:ARG:HB2	12:AL:89:ARG:CZ	2.43	0.47
1:AA:515:G:C2	1:AA:537:G:C2	3.03	0.47
18:AR:53:ARG:NH1	18:AR:58:LEU:O	2.48	0.47
1:CA:563:A:N3	1:CA:563:A:H2'	2.29	0.47
9:AI:83:ARG:C	9:AI:86:VAL:HG12	2.35	0.47
9:AI:28:VAL:CG2	9:AI:63:ILE:HB	2.44	0.47
7:CG:81:GLY:C	7:CG:83:ALA:H	2.18	0.47
1:AA:1351:U:O5'	1:AA:1351:U:H6	1.98	0.47
1:AA:1346:A:O3'	1:AA:1347:G:H4'	2.14	0.47
29:B3:7:LYS:O	29:B3:9:VAL:HG13	2.14	0.47
35:DA:2536:G:C6	35:DA:2537:U:C4	3.02	0.47
51:DU:20:LEU:H	51:DU:20:LEU:CD2	2.20	0.47
1:AA:269:C:H2'	1:AA:270:A:C8	2.50	0.47
38:DD:113:VAL:C	38:DD:115:GLN:H	2.14	0.47
35:BA:1938:A:N1	35:BA:2590:A:H1'	2.28	0.47
35:BA:1982:C:H2'	35:BA:1983:C:C6	2.50	0.47
11:CK:30:VAL:CG2	11:CK:68:ALA:HB2	2.43	0.47
35:BA:2012:G:O3'	53:BW:96:ILE:HD11	2.14	0.47
1:AA:279:A:OP2	17:AQ:95:TYR:OH	2.30	0.47
35:DA:2206:G:N2	35:DA:2207:G:C5'	2.72	0.47
35:DA:680:G:O2'	35:DA:681:G:H5'	2.14	0.47
12:CL:41:ARG:NH1	12:CL:41:ARG:HB3	2.18	0.47
7:AG:119:ARG:O	7:AG:122:HIS:N	2.47	0.47
1:CA:122:G:H2'	1:CA:123:C:C6	2.49	0.47
8:AH:31:PHE:HA	8:AH:34:GLU:HG2	1.97	0.47
35:BA:1576:U:H2'	35:BA:1577:C:H6	1.79	0.47
35:BA:2274:A:N6	35:BA:2276:G:C4	2.83	0.47
1:AA:237:C:C5'	17:AQ:25:ARG:NH1	2.77	0.47
35:BA:2168:G:H2'	35:BA:2170:A:OP2	2.14	0.47
26:D0:37:LEU:C	26:D0:38:VAL:CG2	2.83	0.47
26:D0:36:ILE:O	26:D0:36:ILE:HG13	2.15	0.47
35:BA:679:C:O2	35:BA:679:C:H2'	2.14	0.47
42:BH:78:GLY:O	42:BH:136:ILE:HG23	2.15	0.47
5:AE:136:MET:O	5:AE:137:GLU:C	2.53	0.47
3:CC:107:GLN:N	3:CC:107:GLN:CD	2.66	0.47
35:DA:2606:C:O2'	35:DA:2607:G:H5'	2.14	0.47
53:DW:17:VAL:O	53:DW:20:VAL:CG2	2.61	0.47
13:CM:27:LYS:O	13:CM:30:ALA:HB3	2.15	0.47
4:AD:2:GLY:O	4:AD:3:ARG:C	2.52	0.47
20:CT:83:ARG:CA	20:CT:86:ARG:HB3	2.39	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:31:C:H2'	35:BA:32:C:O4'	2.14	0.47
29:B3:13:ILE:HD12	35:BA:989:G:N7	2.30	0.47
29:D3:17:LYS:HG2	35:DA:969:U:OP1	2.15	0.47
46:DP:58:THR:C	46:DP:60:MET:N	2.66	0.47
54:BX:12:VAL:HG13	54:BX:17:ALA:HB1	1.94	0.47
9:AI:11:LYS:C	9:AI:13:ALA:N	2.68	0.47
1:AA:341:C:H2'	1:AA:342:C:H6	1.80	0.47
15:AO:83:GLU:O	15:AO:83:GLU:HG2	2.15	0.47
1:AA:739:C:O2'	1:AA:740:U:H5'	2.15	0.47
15:AO:36:ILE:O	15:AO:37:ASN:C	2.53	0.47
15:AO:54:ARG:HG2	15:AO:54:ARG:NH1	2.29	0.47
31:B5:25:LEU:HD12	53:BW:23:LEU:HD11	1.94	0.47
1:CA:1296:C:H4'	1:CA:1302:U:O4	2.15	0.47
1:CA:598:U:H4'	8:CH:94:TYR:CD1	2.49	0.47
23:CW:27:G:H2'	23:CW:28:U:O4'	2.14	0.47
1:CA:1316:G:H2'	1:CA:1317:C:C5'	2.45	0.47
22:CV:41:C:H2'	22:CV:42:C:H6	1.74	0.47
35:BA:481:G:H2'	35:BA:507:A:N1	2.28	0.47
1:AA:689:C:O2	1:AA:689:C:H2'	2.13	0.47
3:AC:127:ARG:HD2	3:AC:127:ARG:N	2.30	0.47
1:CA:1375:A:C4	1:CA:1376:U:C5	3.02	0.47
4:CD:80:GLU:HA	4:CD:80:GLU:OE2	2.15	0.47
35:BA:717:G:H2'	35:BA:718:A:O4'	2.15	0.47
17:AQ:12:SER:HA	17:AQ:14:LYS:NZ	2.30	0.47
40:DF:197:ASP:O	40:DF:200:GLU:HB3	2.14	0.47
1:CA:929:G:C6	1:CA:930:C:C4	3.02	0.47
7:CG:27:ILE:H	7:CG:27:ILE:HD12	1.80	0.47
1:AA:357:G:O2'	1:AA:358:U:H5'	2.15	0.47
35:DA:1110:G:OP1	35:DA:1110:G:H4'	2.15	0.47
1:CA:189(D):C:H1'	1:CA:189(H):G:N2	2.30	0.47
35:BA:301:G:H1'	35:BA:302:C:C6	2.49	0.47
35:BA:304:G:H2'	35:BA:305:U:C6	2.50	0.47
6:AF:38:GLU:HG3	6:AF:65:VAL:HA	1.97	0.47
17:CQ:56:VAL:O	17:CQ:76:LEU:HD12	2.15	0.47
51:BU:24:TYR:HB2	51:BU:29:SER:OG	2.14	0.47
1:CA:77:G:H1	1:CA:92:C:N4	2.11	0.47
1:AA:77:G:H1	1:AA:92:C:N4	2.11	0.47
35:BA:42:G:H2'	35:BA:43:A:H8	1.78	0.47
3:AC:94:LEU:HD12	3:AC:95:THR:N	2.29	0.47
3:CC:207:VAL:O	3:CC:207:VAL:HG12	2.14	0.47
35:DA:1180:C:C2'	35:DA:1181:C:H5'	2.45	0.47
35:DA:366:C:H5"	35:DA:403:U:H3	1.79	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1494:G:H5''	35:BA:1913:A:N6	2.29	0.47
35:DA:1622:G:C2	35:DA:1623:G:C8	3.02	0.47
11:AK:33:THR:HG22	11:AK:39:PRO:HA	1.96	0.47
35:DA:118:A:OP2	35:DA:119:A:H5''	2.15	0.47
35:BA:1917:U:H2'	35:BA:1918:A:H8	1.79	0.47
2:AB:221:LEU:O	2:AB:221:LEU:HD22	2.15	0.47
26:B0:20:ARG:CD	26:B0:20:ARG:N	2.78	0.47
3:CC:40:ARG:O	3:CC:44:GLU:N	2.47	0.47
6:AF:42:GLU:O	6:AF:44:GLY:N	2.48	0.47
35:DA:2531:A:O2'	35:DA:2532:G:H5'	2.13	0.47
35:DA:1910:G:O2'	35:DA:1911:U:H5'	2.15	0.47
47:BQ:77:LYS:O	47:BQ:79:LEU:N	2.39	0.47
35:BA:751:A:H62	35:BA:789:A:N6	2.13	0.47
1:AA:1400:C:H5'	24:AX:18:C:N4	2.30	0.47
35:DA:2357:U:H2'	35:DA:2358:G:H5''	1.96	0.47
35:DA:2016:U:H2'	35:DA:2017:U:C6	2.50	0.47
39:DE:13:ARG:HA	39:DE:22:PRO:HA	1.97	0.47
45:DO:23:ARG:HG3	45:DO:24:VAL:N	2.30	0.47
50:DT:110:ILE:CG2	50:DT:111:ARG:N	2.78	0.47
43:BI:83:ALA:O	43:BI:144:VAL:HG13	2.15	0.47
9:CI:126:SER:O	9:CI:127:LYS:CB	2.60	0.47
35:DA:1778:U:C5	35:DA:1784:A:C2	3.03	0.47
38:DD:62:TYR:OH	38:DD:64:ILE:HD12	2.15	0.47
47:DQ:35:VAL:CG2	47:DQ:101:ARG:O	2.62	0.47
39:BE:8:LYS:HE3	39:BE:188:VAL:HG13	1.95	0.47
35:BA:1952:A:P	45:BO:44:LYS:HZ3	2.37	0.47
45:BO:87:ILE:HG13	45:BO:91:LEU:CD1	2.45	0.47
35:DA:1496:A:H2'	35:DA:1498:C:H5	1.79	0.47
1:AA:1060:C:H4'	10:AJ:52:GLY:N	2.30	0.47
1:AA:951:G:C6	1:AA:1231:G:C6	3.02	0.47
28:B2:50:ILE:HG23	28:B2:54:LYS:HZ3	1.80	0.47
35:BA:2200:C:N4	35:BA:2223:G:H1	2.08	0.47
54:DX:35:THR:HG23	54:DX:36:LYS:N	2.30	0.47
42:BH:84:SER:O	42:BH:85:LYS:CB	2.60	0.47
56:DZ:126:VAL:HA	56:DZ:164:ALA:HB3	1.97	0.47
56:DZ:29:TYR:O	56:DZ:30:ASN:HB3	2.15	0.47
51:DU:74:LEU:HD11	51:DU:79:PHE:HB2	1.96	0.47
49:BS:26:LEU:HD13	49:BS:87:PHE:HD1	1.80	0.47
4:CD:114:ARG:O	4:CD:117:ALA:HB3	2.15	0.47
35:BA:2513:G:H2'	35:BA:2514:U:C6	2.49	0.47
39:BE:119:ARG:HD2	39:BE:120:TRP:CE2	2.50	0.47
44:DN:67:LEU:C	44:DN:69:GLN:N	2.68	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:809:G:H2'	35:BA:810:U:C6	2.50	0.47
35:BA:836:G:C5	35:BA:837:C:N4	2.83	0.47
35:BA:814:C:C5	46:BP:27:HIS:CE1	3.03	0.47
48:DR:87:TYR:OH	48:DR:116:LEU:HD22	2.14	0.47
1:AA:59:A:C5'	1:AA:60:A:C5'	2.85	0.47
35:BA:1279:G:H2'	35:BA:1280:G:C8	2.49	0.47
48:BR:55:ALA:CB	48:BR:79:LEU:HD12	2.43	0.47
49:DS:101:LEU:O	49:DS:101:LEU:HD13	2.13	0.47
35:DA:2334:G:C5'	49:DS:13:ARG:HG2	2.34	0.47
2:AB:85:ALA:HB1	2:AB:92:TYR:HB3	1.96	0.47
35:DA:2242:G:H2'	35:DA:2243:U:O4'	2.15	0.47
18:CR:36:ASN:HD21	18:CR:40:LEU:HD21	1.80	0.47
2:CB:193:ASP:O	2:CB:194:PRO:O	2.32	0.47
2:CB:41:ILE:N	2:CB:41:ILE:CD1	2.78	0.47
35:DA:2070:G:C2	35:DA:2071:A:C4	3.02	0.47
4:AD:97:LEU:CD2	4:AD:97:LEU:O	2.63	0.47
55:DY:38:ILE:CG2	55:DY:39:VAL:N	2.77	0.47
1:AA:564:C:C5	17:AQ:31:LEU:HD11	2.49	0.47
4:AD:31:CYS:C	4:AD:33:MET:H	2.18	0.47
1:CA:1499:A:O2'	1:CA:1500:A:H5'	2.14	0.47
35:DA:562:U:O2'	35:DA:563:G:H5"	2.14	0.47
1:AA:1108:G:H2'	1:AA:1108:G:N3	2.30	0.47
1:CA:1446:U:H4'	1:CA:1447:A:C6	2.50	0.47
20:CT:100:ILE:CD1	20:CT:100:ILE:N	2.70	0.47
25:AY:63:PRO:CB	25:AY:64:ARG:NH2	2.77	0.47
17:CQ:34:LYS:O	17:CQ:36:ILE:HG12	2.14	0.47
12:AL:22:SER:C	12:AL:24:VAL:N	2.68	0.47
43:BI:109:ILE:HD13	43:BI:111:PRO:HD3	1.96	0.47
35:DA:2747:G:C2	35:DA:2754:U:C4	3.03	0.47
35:DA:2752:C:C5	35:DA:2753:A:N7	2.82	0.47
35:BA:79:G:H2'	35:BA:80:G:H8	1.80	0.47
1:AA:1306:A:H2'	1:AA:1307:U:O4'	2.15	0.47
5:CE:39:GLY:O	5:CE:69:VAL:N	2.48	0.47
9:AI:93:ARG:C	9:AI:95:LYS:H	2.18	0.47
35:DA:1175:U:C4'	35:DA:1176:G:H3'	2.45	0.47
42:DH:13:LYS:CA	42:DH:13:LYS:HE2	2.36	0.47
15:CO:11:VAL:HG21	15:CO:34:LEU:CD2	2.45	0.47
53:BW:86:LEU:HD12	53:BW:87:PRO:CD	2.45	0.47
8:AH:87:SER:HB3	8:AH:132:GLU:OE2	2.14	0.47
1:CA:122:G:H2'	1:CA:123:C:H6	1.79	0.47
40:DF:12:LEU:O	40:DF:14:PRO:HD3	2.15	0.47
13:CM:74:VAL:HA	13:CM:77:ASN:HD22	1.80	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1686:C:H3'	35:DA:1687:G:H8	1.80	0.47
1:AA:1238:A:N7	1:AA:1303:C:H1'	2.30	0.47
35:BA:1289:C:O2'	35:BA:1290:C:H5'	2.15	0.47
38:BD:247:ALA:CB	38:BD:253:GLN:HA	2.45	0.47
35:BA:1363:C:H2'	35:BA:1364:G:H8	1.80	0.47
1:AA:1109:C:O2'	1:AA:1110:A:H5'	2.14	0.47
1:CA:596:C:O2	1:CA:596:C:H2'	2.14	0.47
1:CA:596:C:O2	1:CA:597:G:C8	2.67	0.47
35:DA:1448:G:H5'	35:DA:1449:A:OP1	2.14	0.47
35:BA:1138:G:H1'	44:BN:105:GLY:O	2.14	0.47
35:BA:2292:C:H2'	35:BA:2293:C:C6	2.50	0.47
9:AI:48:GLU:N	9:AI:49:PRO:CD	2.76	0.47
41:BG:100:TRP:HA	41:BG:100:TRP:CE3	2.50	0.47
1:CA:929:G:C2'	1:CA:930:C:H5'	2.44	0.47
1:AA:629:G:H2'	1:AA:630:G:O4'	2.14	0.47
35:BA:694:U:H2'	35:BA:695:G:O5'	2.14	0.47
42:DH:30:LYS:NZ	42:DH:81:GLU:HA	2.30	0.47
1:AA:334:C:C2'	1:AA:335:C:H5'	2.45	0.47
35:DA:845:G:OP2	35:DA:845:G:H8	1.97	0.47
1:CA:1015:A:H2'	1:CA:1016:A:H8	1.79	0.47
1:CA:44:G:N2	1:CA:45:U:H1'	2.30	0.47
11:AK:34:ASP:HB2	11:AK:35:PRO:CD	2.44	0.47
35:BA:2663:G:O2'	35:BA:2664:G:H5'	2.14	0.47
1:AA:509:A:H4'	1:AA:510:A:OP1	2.15	0.47
35:BA:751:A:H62	35:BA:789:A:H62	1.63	0.47
1:CA:27:G:H2'	1:CA:28:G:H8	1.79	0.47
7:CG:115:ARG:HB2	7:CG:118:VAL:HG21	1.96	0.47
9:AI:97:LYS:HB3	9:AI:98:PRO:HD3	1.96	0.47
1:CA:1383:C:O2'	1:CA:1384:C:H5'	2.14	0.47
39:DE:19:ARG:O	39:DE:19:ARG:HG3	2.14	0.47
7:AG:156:TRP:H	7:AG:156:TRP:HD1	1.63	0.47
23:AW:75:C:C5	23:AW:76:C:N3	2.82	0.47
35:BA:2094:G:P	43:BI:22:LYS:HD2	2.55	0.47
1:AA:39:G:H2'	1:AA:40:C:H6	1.80	0.47
45:DO:81:ASP:CG	45:DO:81:ASP:O	2.53	0.47
50:DT:31:SER:O	50:DT:32:TYR:O	2.33	0.47
50:DT:33:LYS:HE2	50:DT:43:GLN:OE1	2.15	0.47
50:DT:61:PHE:CE2	50:DT:76:PHE:HB3	2.50	0.47
50:DT:26:ASP:O	50:DT:88:ILE:HB	2.15	0.47
1:CA:961:U:O2'	1:CA:962:C:H5'	2.15	0.47
1:CA:972:C:OP2	10:CJ:57:LYS:HE2	2.15	0.47
38:BD:213:ARG:O	38:BD:215:LEU:N	2.48	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:DD:211:ARG:HH11	38:DD:211:ARG:HG2	1.79	0.47
35:BA:2758:A:C3'	35:BA:2759:G:H5''	2.44	0.47
41:DG:60:LEU:HA	41:DG:63:ILE:HG12	1.96	0.47
34:B8:30:ARG:NE	46:BP:62:LEU:HB2	2.30	0.47
45:BO:105:GLU:HA	45:BO:108:GLU:CD	2.35	0.47
28:B2:12:GLU:O	28:B2:12:GLU:OE2	2.32	0.47
39:DE:47:VAL:HG12	39:DE:49:LEU:HD11	1.97	0.47
35:DA:1860:G:H2'	35:DA:1861:G:C8	2.50	0.47
27:B1:87:PRO:CD	27:B1:88:LYS:H	2.27	0.47
41:BG:85:GLY:C	41:BG:87:PRO:HD3	2.35	0.47
35:DA:300:A:H5''	55:DY:97:ARG:NH1	2.30	0.47
35:DA:1341:U:H5'	54:DX:57:LEU:CD2	2.45	0.47
42:BH:89:ILE:O	42:BH:161:GLY:O	2.33	0.47
47:DQ:32:TYR:HA	47:DQ:132:VAL:O	2.14	0.47
56:DZ:10:ARG:HB2	56:DZ:36:LYS:O	2.15	0.47
51:DU:111:GLU:O	51:DU:113:ALA:N	2.48	0.47
35:DA:2383:G:H2'	35:DA:2384:G:C8	2.50	0.47
49:BS:38:GLN:CD	49:BS:47:THR:HG23	2.35	0.47
4:CD:101:LEU:HD23	4:CD:121:VAL:CG1	2.44	0.47
43:DI:88:ILE:HG13	43:DI:122:GLU:HA	1.96	0.47
40:BF:45:ARG:CD	40:BF:46:ARG:H	2.28	0.47
27:D1:83:GLU:CG	27:D1:86:SER:CB	2.92	0.47
34:B8:4:MET:HG3	34:B8:4:MET:O	2.15	0.47
35:BA:802:A:H2'	35:BA:802:A:N3	2.29	0.47
40:BF:89:VAL:CG1	40:BF:90:PHE:H	2.23	0.47
52:BV:90:PRO:CD	52:BV:91:TYR:H	2.26	0.47
40:DF:28:ILE:N	40:DF:28:ILE:CD1	2.78	0.47
55:BY:86:ARG:HG2	55:BY:87:LYS:H	1.78	0.47
47:BQ:73:PRO:HG3	47:BQ:93:TYR:CE2	2.50	0.47
48:DR:29:LEU:HG	48:DR:79:LEU:HD23	1.97	0.47
49:DS:19:LYS:HB3	49:DS:20:ARG:NH2	2.30	0.47
49:DS:87:PHE:HZ	49:DS:97:ARG:HH21	1.61	0.47
27:D1:25:LYS:O	27:D1:26:ARG:O	2.33	0.47
44:BN:17:ASP:OD2	44:BN:17:ASP:O	2.33	0.47
35:DA:252:G:OP2	46:DP:50:ARG:NH1	2.47	0.47
1:AA:407:G:N1	1:AA:408:A:C5	2.83	0.47
1:AA:408:A:C2	1:AA:409:G:C4	3.03	0.47
19:AS:6:LYS:CD	19:AS:6:LYS:N	2.78	0.47
55:DY:28:LYS:CE	55:DY:37:VAL:HA	2.45	0.47
55:DY:2:ARG:HH11	55:DY:2:ARG:HG2	1.80	0.47
4:AD:60:GLU:O	4:AD:61:LYS:C	2.54	0.47
47:DQ:88:GLY:O	47:DQ:89:ASN:CB	2.61	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AF:27:GLN:O	6:AF:31:GLU:HG3	2.15	0.47
35:DA:447:A:C4	35:DA:473:G:N7	2.83	0.47
25:CY:120:GLN:O	25:CY:121:TYR:C	2.53	0.47
25:CY:15:GLN:N	25:CY:168:PHE:CZ	2.82	0.47
21:CU:13:ILE:HA	21:CU:22:ARG:NH1	2.30	0.47
1:CA:552:U:H2'	1:CA:553:A:C8	2.50	0.47
13:CM:90:LEU:O	13:CM:91:ARG:HB2	2.15	0.47
19:CS:63:THR:HG22	19:CS:66:MET:CE	2.45	0.47
39:BE:132:HIS:CD2	39:BE:135:HIS:NE2	2.82	0.47
35:BA:2019:A:N1	35:BA:2020:A:C4	2.82	0.47
52:BV:78:LYS:HD3	52:BV:79:VAL:CA	2.44	0.47
1:CA:603:U:H2'	1:CA:604:G:C8	2.50	0.47
26:B0:11:ARG:O	26:B0:11:ARG:HG2	2.15	0.47
55:BY:18:GLY:C	55:BY:20:TYR:N	2.66	0.47
1:AA:1226:C:H5'	19:AS:80:TYR:CE2	2.50	0.47
42:BH:17:VAL:HG12	42:BH:19:VAL:HG23	1.97	0.47
8:AH:35:ILE:N	8:AH:35:ILE:HD13	2.30	0.47
35:DA:744:G:OP1	39:DE:132:HIS:CB	2.63	0.47
9:AI:37:PHE:CZ	9:AI:74:ILE:HG12	2.49	0.47
8:CH:47:GLY:O	8:CH:62:TYR:N	2.39	0.47
9:CI:27:THR:O	9:CI:28:VAL:CG2	2.63	0.47
35:BA:626:U:H5''	35:BA:627:A:H5'	1.96	0.47
1:CA:625:G:O2'	1:CA:626:U:H5'	2.14	0.47
40:BF:170:LEU:HD23	40:BF:173:VAL:HB	1.97	0.47
35:BA:1271:G:C2	35:BA:1617:C:H4'	2.50	0.47
53:BW:10:VAL:HG23	53:BW:101:SER:O	2.15	0.47
35:DA:2205:C:C2	35:DA:2220:G:N1	2.83	0.47
7:AG:122:HIS:O	7:AG:125:MET:HB3	2.14	0.47
35:DA:2831:G:O4'	35:DA:2883:A:C2	2.68	0.47
3:AC:155:GLY:HA3	3:AC:163:ALA:CB	2.43	0.47
17:AQ:60:ILE:HG12	17:AQ:61:GLU:N	2.30	0.47
35:BA:2171:A:C8	35:BA:2172:U:C5	3.03	0.47
35:DA:1006:C:H2'	35:DA:1007:C:H6	1.79	0.47
42:DH:157:TYR:CD1	42:DH:170:ARG:O	2.68	0.47
4:AD:4:TYR:O	4:AD:5:ILE:HB	2.14	0.47
3:AC:178:LEU:C	3:AC:180:ALA:H	2.17	0.47
20:CT:83:ARG:HA	20:CT:86:ARG:HD3	1.96	0.47
1:AA:596:C:O2	1:AA:597:G:C8	2.68	0.47
13:AM:10:PRO:CB	13:AM:18:ALA:HB1	2.44	0.47
38:DD:31:LYS:O	38:DD:32:SER:O	2.33	0.47
35:DA:1424:G:OP1	38:DD:33:LEU:HD21	2.15	0.47
1:AA:741:G:H5'	15:AO:39:LEU:HD21	1.96	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
15:AO:39:LEU:HD12	15:AO:56:LEU:HD12	1.97	0.47
29:D3:45:GLY:HA3	35:DA:852:G:H5'	1.95	0.47
35:DA:2487:G:O2'	35:DA:2488:A:H5'	2.15	0.47
1:AA:149:A:C2	1:AA:150:C:C4	3.03	0.47
56:DZ:100:VAL:O	56:DZ:101:PRO:O	2.31	0.47
35:BA:1210:A:H1'	35:BA:1212:G:C4	2.50	0.47
35:DA:314:A:O2'	35:DA:315:G:H5'	2.14	0.47
35:DA:315:G:H2'	35:DA:316:C:C6	2.50	0.47
1:CA:355:C:O2'	1:CA:356:A:H5'	2.15	0.47
37:BC:76:ALA:C	37:BC:78:ALA:H	2.16	0.47
35:BA:1441:G:O2'	35:BA:1442:G:H5'	2.15	0.47
35:DA:2517:C:C6	35:DA:2542:A:C2	3.03	0.47
17:AQ:62:SER:OG	17:AQ:72:ARG:HG3	2.15	0.47
1:AA:1445:C:H6	1:AA:1445:C:O5'	1.98	0.47
57:DC:124:GLY:O	57:DC:125:SER:CB	2.63	0.47
35:DA:1048:A:N6	35:DA:1106:A:C8	2.83	0.47
8:AH:95:VAL:HG23	8:AH:95:VAL:O	2.15	0.47
4:CD:42:GLN:C	4:CD:42:GLN:OE1	2.54	0.47
15:CO:47:LYS:H	15:CO:47:LYS:HD3	1.80	0.47
35:DA:2497:A:O5'	35:DA:2497:A:C8	2.68	0.47
35:BA:2366:A:H2'	35:BA:2367:G:O4'	2.15	0.47
38:BD:85:ASP:OD1	38:BD:87:ASN:HB2	2.15	0.47
1:CA:611:A:O2'	1:CA:612:C:H5'	2.15	0.47
35:DA:1998:G:H4'	35:DA:2724:C:H4'	1.97	0.47
43:BI:119:PRO:O	43:BI:121:LYS:N	2.48	0.47
1:CA:1223:C:P	19:CS:78:ARG:HH12	2.38	0.47
38:DD:106:ILE:HD13	38:DD:157:ARG:HB2	1.97	0.47
41:DG:63:ILE:HB	41:DG:141:PHE:CD1	2.50	0.47
41:DG:57:ALA:O	41:DG:61:ALA:HB2	2.15	0.47
41:DG:91:ARG:HD2	41:DG:92:VAL:CA	2.44	0.47
35:BA:2415:G:C2	35:BA:2416:C:C2	3.03	0.47
45:BO:14:THR:HG21	45:BO:86:ILE:HG12	1.96	0.47
50:BT:45:PHE:CZ	50:BT:74:ARG:HB2	2.49	0.47
50:BT:88:ILE:HG22	50:BT:89:VAL:HG23	1.97	0.47
35:BA:997:G:OP1	51:BU:93:LYS:HE3	2.15	0.47
28:B2:21:LEU:O	28:B2:25:VAL:HG12	2.14	0.47
28:B2:57:ILE:HD11	28:B2:59:ARG:CZ	2.45	0.47
54:BX:75:ASP:C	54:BX:76:ARG:HG3	2.35	0.47
39:DE:47:VAL:CG1	39:DE:49:LEU:HD11	2.44	0.47
27:B1:66:HIS:O	27:B1:69:LYS:HB2	2.15	0.47
41:BG:86:MET:O	41:BG:87:PRO:O	2.32	0.47
55:DY:77:PRO:O	55:DY:78:ALA:CB	2.64	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
56:DZ:51:ALA:O	56:DZ:52:SER:OG	2.29	0.47
35:DA:1011:G:C5	35:DA:1151:G:N1	2.82	0.47
35:DA:2041:U:H2'	35:DA:2042:A:C8	2.49	0.47
35:DA:996:A:H2'	35:DA:997:G:C8	2.47	0.47
45:DO:113:LYS:O	45:DO:114:ILE:C	2.51	0.47
44:BN:84:LYS:O	44:BN:85:ILE:HD13	2.15	0.47
40:BF:155:LEU:HD13	40:BF:174:VAL:HB	1.96	0.47
40:BF:45:ARG:CG	40:BF:46:ARG:N	2.78	0.47
35:BA:2572:A:OP2	39:BE:144:ARG:HB2	2.14	0.47
27:D1:83:GLU:HG2	27:D1:86:SER:CB	2.43	0.47
35:BA:1163:G:C2	35:BA:1164:G:C8	3.03	0.47
55:BY:86:ARG:CB	55:BY:88:LYS:HZ2	2.22	0.47
48:DR:97:VAL:HG13	48:DR:114:VAL:HG23	1.96	0.47
3:AC:182:ILE:HG12	3:AC:203:PHE:HD1	1.79	0.47
1:AA:1428:A:H2'	1:AA:1429:C:H6	1.73	0.47
48:BR:94:TYR:CD1	48:BR:94:TYR:N	2.82	0.47
49:DS:15:ARG:HA	49:DS:17:ARG:HG2	1.97	0.47
49:DS:17:ARG:NE	49:DS:89:ARG:NH2	2.63	0.47
49:DS:66:ALA:CA	49:DS:69:VAL:HG12	2.45	0.47
49:DS:90:GLY:C	49:DS:92:TYR:H	2.15	0.47
44:DN:56:ASN:CA	44:DN:125:GLY:H	2.26	0.47
44:DN:28:THR:HG22	44:DN:29:LYS:N	2.30	0.47
44:DN:29:LYS:C	44:DN:31:ALA:N	2.68	0.47
35:BA:8:A:H2	35:BA:2896:C:O2	1.97	0.47
1:CA:661:G:H1	1:CA:744:C:H42	1.62	0.47
6:CF:40:VAL:HG23	6:CF:62:TRP:O	2.15	0.47
6:CF:71:ARG:O	6:CF:72:VAL:C	2.53	0.47
35:DA:1223:G:C5	35:DA:1225:G:OP2	2.68	0.47
35:DA:1257:C:C2	35:DA:1258:C:C5	3.03	0.47
40:DF:71:GLY:O	40:DF:73:ALA:N	2.48	0.47
47:DQ:74:TYR:HB3	47:DQ:91:GLU:OE2	2.14	0.47
35:BA:2482:G:H1	47:BQ:53:ALA:HB2	1.80	0.47
1:CA:1513:A:C2	1:CA:1514:C:C4	3.03	0.47
1:CA:1524:C:C2	1:CA:1525:G:C8	3.03	0.47
1:CA:779:C:O2'	11:CK:120:ARG:HD3	2.15	0.47
35:DA:2031:A:C6	35:DA:2498:C:H1'	2.50	0.47
25:CY:160:GLU:O	25:CY:163:LYS:HB3	2.15	0.47
25:CY:165:THR:O	25:CY:166:ASP:O	2.33	0.47
25:CY:2:THR:O	25:CY:2:THR:HG23	2.15	0.47
21:CU:5:ASP:OD1	21:CU:6:ARG:N	2.47	0.47
1:AA:376:G:O3'	16:AP:5:ARG:HD2	2.15	0.47
1:AA:375:U:OP1	16:AP:69:THR:HG21	2.14	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:DH:18:GLU:HB3	42:DH:25:LYS:HD2	1.96	0.47
1:CA:221:C:O2'	1:CA:222:U:H5'	2.15	0.47
33:B7:33:ARG:O	33:B7:36:GLN:HB3	2.14	0.47
26:D0:12:ASN:O	26:D0:14:ARG:N	2.47	0.47
11:CK:19:ALA:CB	11:CK:32:ILE:HG12	2.45	0.47
35:DA:926:A:H2'	35:DA:927:G:C8	2.45	0.47
43:DI:2:LYS:O	43:DI:39:ALA:HB2	2.15	0.47
1:AA:823:G:H21	8:AH:1:MET:HE1	1.79	0.47
35:DA:2472:G:H5'	35:DA:2473:U:C5'	2.45	0.47
9:AI:71:SER:O	9:AI:74:ILE:HB	2.14	0.47
48:DR:101:ALA:O	48:DR:102:GLU:HB2	2.15	0.47
1:CA:522:C:H1'	1:CA:536:C:H5'	1.97	0.47
9:CI:50:LEU:HB3	9:CI:55:ALA:CB	2.45	0.47
46:DP:114:ILE:HD11	46:DP:130:PHE:CE2	2.50	0.47
46:DP:135:LEU:CD1	46:DP:139:LYS:HD2	2.44	0.47
53:DW:14:PRO:HG3	53:DW:101:SER:OG	2.15	0.47
46:DP:77:ARG:HB2	46:DP:78:PRO:CD	2.37	0.47
54:BX:26:TYR:N	54:BX:26:TYR:CD1	2.83	0.47
39:DE:103:ASP:HA	39:DE:168:MET:HA	1.96	0.47
2:AB:99:GLY:O	2:AB:100:GLY:C	2.54	0.47
56:DZ:163:LEU:HD23	56:DZ:163:LEU:N	2.20	0.47
35:DA:1300:U:H1'	35:DA:1626:G:N2	2.30	0.47
35:DA:2168:G:H2'	35:DA:2170:A:OP2	2.15	0.47
35:BA:2165:G:H3'	35:BA:2166:G:H8	1.79	0.47
35:BA:271(W):G:H5'	35:BA:271(X):G:OP2	2.14	0.47
35:BA:49:A:N6	35:BA:177:G:C5	2.82	0.47
13:CM:28:ALA:C	13:CM:30:ALA:N	2.69	0.47
5:CE:82:VAL:CG2	5:CE:138:ALA:HA	2.39	0.47
54:BX:62:LYS:HD2	54:BX:68:ARG:HD2	1.97	0.47
1:CA:66:G:N2	1:CA:172:A:C2	2.83	0.47
54:BX:14:SER:O	54:BX:15:GLU:C	2.53	0.47
15:AO:70:LEU:CD2	15:AO:78:TYR:HA	2.44	0.47
15:AO:87:ILE:HG22	15:AO:88:ARG:H	1.80	0.47
35:BA:1364:G:N3	35:BA:1364:G:H2'	2.30	0.47
36:DB:64:C:H2'	36:DB:65:C:H6	1.79	0.47
10:CJ:94:VAL:CG1	10:CJ:95:GLU:N	2.77	0.47
53:BW:5:ALA:HB3	53:BW:105:VAL:N	2.29	0.47
44:BN:128:HIS:HD2	44:BN:131:GLN:CB	2.28	0.47
7:CG:149:ARG:HD3	11:CK:59:TYR:CZ	2.50	0.47
43:DI:58:LEU:HD23	43:DI:58:LEU:O	2.15	0.47
35:DA:1975:G:C6	35:DA:1976:U:C4	3.03	0.47
1:CA:241:C:H1'	1:CA:286:G:N2	2.29	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1853:A:H1'	35:DA:2233:U:O2'	2.15	0.47
56:BZ:9:TYR:CE2	56:BZ:35:ARG:HB3	2.50	0.47
43:DI:29:TYR:C	43:DI:32:PRO:HD2	2.35	0.47
2:CB:157:ARG:HG2	2:CB:158:LEU:N	2.27	0.47
35:DA:412:A:N6	35:DA:2411:A:H2'	2.29	0.47
6:AF:37:VAL:HG13	6:AF:65:VAL:HG11	1.97	0.47
1:AA:93:G:C6	1:AA:96:U:C4	3.03	0.47
29:B3:23:LEU:N	29:B3:23:LEU:HD12	2.30	0.47
29:B3:25:ALA:HB3	29:B3:26:LEU:HD23	1.97	0.47
35:DA:151:C:H2'	35:DA:152:G:C8	2.49	0.47
35:BA:701:G:C2'	35:BA:702:G:H5'	2.45	0.47
1:AA:1419:G:N2	1:AA:1482:G:C1'	2.78	0.47
44:DN:115:ARG:O	44:DN:118:LYS:N	2.47	0.47
35:BA:2870:C:H2'	35:BA:2871:C:C5'	2.45	0.47
35:BA:1371:G:H8	35:BA:1371:G:O5'	1.98	0.47
35:BA:1668:A:N3	35:BA:1670:C:C4	2.83	0.47
1:AA:577:G:C8	1:AA:816:A:C6	3.02	0.47
35:DA:1317:A:C6	35:DA:1318:C:C4	3.03	0.47
35:DA:1027:A:O2'	35:DA:1028:A:H5'	2.15	0.47
1:CA:1060:C:H4'	10:CJ:52:GLY:N	2.30	0.46
53:DW:29:LEU:HD21	53:DW:33:ARG:CZ	2.43	0.46
35:BA:1793:C:O2'	35:BA:1794:U:H5'	2.15	0.46
35:DA:1568:G:H4'	38:DD:59:LYS:HG3	1.97	0.46
38:DD:223:GLY:C	38:DD:225:ALA:H	2.17	0.46
16:CP:20:VAL:HG21	16:CP:32:TYR:CG	2.49	0.46
41:DG:141:PHE:C	41:DG:144:ILE:HG22	2.36	0.46
41:DG:141:PHE:O	41:DG:144:ILE:HG22	2.15	0.46
35:BA:2419:U:O2'	35:BA:2420:C:H5'	2.14	0.46
35:BA:1991:U:H2'	35:BA:1992:G:H5''	1.98	0.46
35:DA:1493:C:O2	35:DA:1493:C:C2'	2.63	0.46
35:BA:528:A:C2	35:BA:2043:C:H5'	2.33	0.46
52:BV:93:GLU:HG2	52:BV:94:LEU:H	1.79	0.46
42:DH:144:VAL:CG1	42:DH:148:ILE:HD11	2.43	0.46
14:AN:22:THR:HB	14:AN:33:VAL:HG21	1.97	0.46
14:AN:39:LEU:CD1	14:AN:47:LEU:HD12	2.44	0.46
35:BA:143:G:C4'	54:BX:38:GLU:HG3	2.45	0.46
54:BX:31:HIS:CG	54:BX:32:PRO:HD2	2.50	0.46
35:DA:2631:G:H22	39:DE:61:ARG:NH1	2.11	0.46
35:DA:2810:A:C2'	39:DE:61:ARG:NH2	2.78	0.46
27:B1:83:GLU:HG3	27:B1:85:LEU:HB2	1.97	0.46
35:BA:2230:G:O2'	35:BA:2231:C:H5'	2.15	0.46
41:BG:130:ASN:HA	41:BG:161:THR:HB	1.96	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
55:DY:8:LYS:HD2	55:DY:8:LYS:N	2.20	0.46
35:DA:1349:A:N6	35:DA:1598:C:N4	2.63	0.46
35:DA:60:G:H21	35:DA:74:A:H2'	1.80	0.46
54:DX:49:VAL:HG13	54:DX:85:PRO:HB3	1.97	0.46
44:DN:42:TRP:CH2	44:DN:44:PRO:HA	2.50	0.46
35:DA:2597:G:H2'	35:DA:2598:A:C8	2.51	0.46
35:BA:1494:A:C3'	35:BA:1494:A:N3	2.76	0.46
35:DA:1885:A:H2'	35:DA:1886:C:O4'	2.15	0.46
3:AC:130:VAL:HG21	3:AC:157:ILE:HG23	1.97	0.46
1:CA:502:G:OP1	12:CL:118:SER:N	2.48	0.46
4:CD:17:VAL:CG1	4:CD:18:LYS:H	2.26	0.46
43:DI:85:GLU:O	43:DI:86:THR:O	2.33	0.46
39:BE:120:TRP:O	39:BE:122:PHE:N	2.47	0.46
27:D1:62:VAL:CG2	27:D1:66:HIS:O	2.62	0.46
27:D1:88:LYS:HB2	27:D1:92:LYS:HD3	1.97	0.46
34:D8:39:LYS:CD	34:D8:39:LYS:C	2.84	0.46
44:DN:95:PRO:O	44:DN:98:VAL:HG23	2.15	0.46
35:BA:565:C:H4'	35:BA:1253:A:N6	2.30	0.46
35:BA:776:G:O6	35:BA:793:A:H2'	2.16	0.46
35:BA:810:U:C2	46:BP:31:ALA:O	2.68	0.46
40:DF:121:GLY:O	40:DF:123:LEU:N	2.48	0.46
40:DF:25:PRO:HB3	40:DF:119:ARG:HD3	1.96	0.46
47:BQ:41:TRP:HB3	47:BQ:94:VAL:HG21	1.97	0.46
39:DE:110:GLY:HA2	39:DE:161:GLY:CA	2.26	0.46
48:DR:26:LYS:NZ	48:DR:71:GLN:HB3	2.30	0.46
52:BV:83:ARG:CG	52:BV:83:ARG:NH1	2.65	0.46
35:BA:1638:C:H2'	35:BA:1639:U:O4'	2.16	0.46
49:DS:36:TYR:HA	49:DS:52:SER:HB2	1.96	0.46
44:BN:122:VAL:CG1	44:BN:123:TYR:N	2.77	0.46
18:CR:66:LEU:O	18:CR:70:ILE:HG13	2.16	0.46
35:DA:993:G:H1'	52:DV:91:TYR:CE1	2.50	0.46
4:AD:98:GLU:C	4:AD:100:ARG:H	2.18	0.46
4:AD:64:LEU:HD23	4:AD:203:VAL:HG21	1.97	0.46
43:DI:115:ALA:HB2	43:DI:129:THR:O	2.15	0.46
6:AF:87:ARG:NH1	6:AF:87:ARG:HG3	2.30	0.46
35:DA:573:G:O2'	35:DA:574:C:H3'	2.15	0.46
35:DA:1747:G:O2'	35:DA:1747(A):G:H5'	2.14	0.46
50:BT:11:GLU:OE1	50:BT:11:GLU:N	2.47	0.46
35:BA:297:C:H2'	35:BA:298:G:O4'	2.14	0.46
51:BU:31:SER:C	51:BU:33:ARG:N	2.68	0.46
35:BA:1609:A:C5	35:BA:1616:A:C8	3.03	0.46
35:BA:464:U:H2'	35:BA:465:G:C8	2.50	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:DH:38:SER:C	42:DH:40:GLU:H	2.18	0.46
42:DH:61:HIS:C	42:DH:63:SER:H	2.18	0.46
12:AL:58:VAL:CG1	12:AL:59:ARG:N	2.77	0.46
8:CH:110:ALA:HA	8:CH:136:GLU:HA	1.96	0.46
8:AH:83:ILE:CD1	8:AH:137:VAL:HG22	2.38	0.46
42:BH:19:VAL:HG22	42:BH:24:VAL:HG13	1.96	0.46
25:CY:92:PRO:HA	25:CY:100:TYR:O	2.15	0.46
35:DA:287:C:H2'	35:DA:288:C:O4'	2.15	0.46
18:CR:53:ARG:NH1	18:CR:58:LEU:O	2.48	0.46
29:B3:48:GLU:O	29:B3:51:ALA:HB2	2.15	0.46
35:BA:287:C:H2'	35:BA:288:C:O4'	2.16	0.46
33:D7:34:ARG:HE	33:D7:39:ARG:NE	2.12	0.46
33:D7:31:LEU:HD23	33:D7:42:LEU:HD22	1.97	0.46
1:CA:450:G:H4'	16:CP:41:PRO:O	2.15	0.46
46:DP:75:ILE:HD13	46:DP:77:ARG:NH2	2.30	0.46
1:AA:678:U:H3	1:AA:713:G:N2	2.12	0.46
13:CM:22:ILE:HD12	13:CM:22:ILE:N	2.30	0.46
1:CA:1054:C:O2	1:CA:1054:C:H2'	2.14	0.46
26:D0:29:GLN:HB2	26:D0:67:VAL:HG21	1.97	0.46
1:CA:322:C:O2'	1:CA:323:U:H5'	2.15	0.46
7:CG:50:ILE:HG22	7:CG:50:ILE:O	2.15	0.46
35:BA:2778:A:H4'	35:BA:2779:U:OP2	2.14	0.46
26:D0:40:GLN:O	26:D0:57:PHE:HB2	2.15	0.46
1:CA:1255:G:O2'	1:CA:1258:G:H1'	2.15	0.46
25:CY:107:THR:HA	25:CY:111:ARG:HH12	1.80	0.46
1:AA:1184:G:C2	1:AA:1185:G:C5	3.03	0.46
35:BA:1339:G:N2	35:BA:1340:U:H5	2.12	0.46
35:BA:348:G:H2'	35:BA:349:G:H8	1.80	0.46
1:CA:1303:C:C2'	1:CA:1303:C:O2	2.60	0.46
35:DA:432:A:C6	35:DA:433:C:C4	3.02	0.46
35:BA:1450:G:H1	35:BA:1462:C:H42	1.63	0.46
4:AD:80:GLU:HA	4:AD:80:GLU:OE2	2.15	0.46
35:DA:185:U:O2'	35:DA:186:G:H5'	2.16	0.46
25:CY:46:TYR:C	25:CY:48:ALA:N	2.68	0.46
35:BA:2088:G:H2'	35:BA:2089:U:O4'	2.15	0.46
53:BW:65:LEU:CD2	53:BW:67:ASP:HB2	2.45	0.46
1:AA:885:G:H1	1:AA:912:C:N4	2.13	0.46
1:CA:885:G:H2'	1:CA:886:G:C8	2.51	0.46
41:BG:42:GLY:HA2	41:BG:89:GLY:CA	2.46	0.46
7:CG:42:ILE:HG23	7:CG:117:ALA:CB	2.45	0.46
57:DC:75:LEU:HA	57:DC:94:VAL:HG22	1.96	0.46
35:BA:2824:C:H2'	35:BA:2825:C:O4'	2.14	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:701:G:C2'	35:DA:702:G:H5'	2.45	0.46
18:CR:30:ASP:O	18:CR:32:ARG:N	2.45	0.46
2:CB:114:ARG:HA	2:CB:117:GLU:HB2	1.96	0.46
35:BA:2531:A:O2'	35:BA:2532:G:H5'	2.15	0.46
35:DA:210:C:H2'	35:DA:211:A:H8	1.80	0.46
3:AC:41:GLY:O	3:AC:45:LYS:HG3	2.15	0.46
47:DQ:77:LYS:C	47:DQ:79:LEU:H	2.19	0.46
35:DA:791:C:O2	35:DA:794:G:H5'	2.15	0.46
35:BA:1317:A:C2	35:BA:1318:C:C2	3.03	0.46
7:CG:115:ARG:O	7:CG:118:VAL:HG23	2.15	0.46
15:AO:41:GLU:O	15:AO:44:LYS:HB3	2.15	0.46
41:BG:58:GLN:HG3	41:BG:59:GLU:N	2.30	0.46
45:DO:25:LEU:HD13	45:DO:38:VAL:HG11	1.96	0.46
45:DO:104:ARG:HG2	45:DO:105:GLU:OE1	2.14	0.46
45:DO:23:ARG:HH11	45:DO:23:ARG:HG2	1.81	0.46
45:DO:68:GLU:CD	45:DO:78:ARG:NH1	2.67	0.46
50:DT:30:VAL:O	50:DT:31:SER:HB3	2.15	0.46
50:DT:96:ARG:HG2	50:DT:96:ARG:NH1	2.25	0.46
50:DT:96:ARG:CG	50:DT:96:ARG:NH1	2.75	0.46
41:DG:6:ALA:O	41:DG:10:LYS:N	2.49	0.46
35:BA:1827:C:H2'	35:BA:1828:G:O4'	2.14	0.46
35:BA:729:G:O5'	38:BD:208:LYS:NZ	2.48	0.46
38:BD:265:PRO:HG2	38:BD:266:SER:N	2.22	0.46
35:DA:1566:A:OP1	38:DD:211:ARG:NE	2.48	0.46
35:DA:1795:C:N4	35:DA:1824:G:H1	2.12	0.46
35:DA:782:A:H4'	35:DA:783:A:O5'	2.15	0.46
41:DG:132:ASN:ND2	41:DG:157:ILE:C	2.68	0.46
41:DG:40:ASN:N	41:DG:157:ILE:HA	2.30	0.46
45:BO:104:ARG:NH1	45:BO:104:ARG:CB	2.77	0.46
45:BO:88:ASN:O	45:BO:91:LEU:N	2.44	0.46
56:BZ:121:HIS:HB3	56:BZ:124:ILE:HG22	1.97	0.46
56:BZ:53:ILE:O	56:BZ:53:ILE:HG13	2.14	0.46
39:DE:119:ARG:HD2	39:DE:120:TRP:CD1	2.51	0.46
39:DE:120:TRP:CD1	39:DE:155:LYS:HB3	2.51	0.46
35:BA:537:C:H3'	35:BA:538:G:H8	1.80	0.46
51:BU:59:ARG:O	51:BU:60:LEU:C	2.52	0.46
52:BV:34:GLU:HG2	52:BV:35:LEU:H	1.80	0.46
39:DE:44:TYR:O	39:DE:45:THR:OG1	2.28	0.46
35:DA:76:C:H2'	35:DA:77:C:C6	2.48	0.46
41:BG:28:VAL:CG1	41:BG:28:VAL:O	2.62	0.46
56:DZ:146:ILE:HG22	56:DZ:174:VAL:CG1	2.42	0.46
56:DZ:150:LEU:HD22	56:DZ:150:LEU:N	2.27	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1057:G:C2'	1:AA:1058:G:H5'	2.45	0.46
47:DQ:48:GLU:O	47:DQ:52:VAL:HG12	2.15	0.46
32:D6:11:LEU:O	32:D6:24:GLU:N	2.48	0.46
49:BS:26:LEU:HG	49:BS:39:ILE:HD11	1.98	0.46
49:BS:95:HIS:O	49:BS:96:GLY:C	2.53	0.46
4:CD:103:ASN:O	4:CD:106:TYR:N	2.48	0.46
4:CD:153:ARG:NH2	4:CD:181:MET:HG2	2.30	0.46
4:CD:199:ASN:OD1	4:CD:201:GLN:HB2	2.14	0.46
47:BQ:34:LEU:HD11	47:BQ:129:THR:CG2	2.45	0.46
44:BN:87:LEU:O	44:BN:88:GLU:C	2.52	0.46
40:BF:192:LEU:HD21	40:BF:194:MET:CE	2.44	0.46
27:D1:85:LEU:H	27:D1:85:LEU:HD23	1.78	0.46
34:B8:56:GLU:CA	34:B8:59:LYS:HZ1	2.28	0.46
40:DF:20:LEU:HD13	40:DF:203:GLN:OE1	2.15	0.46
47:BQ:16:ARG:HB3	47:BQ:16:ARG:CZ	2.45	0.46
47:BQ:86:GLY:C	47:BQ:88:GLY:H	2.18	0.46
1:AA:1422:G:N2	1:AA:1479:C:C2	2.83	0.46
1:AA:1433:A:O2'	1:AA:1434:A:H5'	2.15	0.46
1:AA:332:G:O2'	1:AA:333:G:H5'	2.15	0.46
48:BR:28:LEU:HA	48:BR:34:ILE:CD1	2.46	0.46
2:AB:54:THR:HG21	2:AB:201:ILE:CD1	2.44	0.46
35:BA:2476:A:C2	35:BA:2477:C:C6	3.03	0.46
6:CF:16:GLN:O	6:CF:19:LEU:N	2.48	0.46
6:CF:30:LEU:HD23	6:CF:75:LEU:CD2	2.44	0.46
35:DA:577:G:O2'	35:DA:1254:A:OP1	2.33	0.46
35:DA:814:C:C5	46:DP:27:HIS:CE1	3.04	0.46
35:DA:814:C:H1'	35:DA:1225:G:N2	2.30	0.46
1:AA:402:G:O2'	1:AA:403:C:H5'	2.15	0.46
1:AA:435:C:O2	1:AA:435:C:H2'	2.14	0.46
19:AS:15:LEU:H	19:AS:15:LEU:CD2	2.26	0.46
4:AD:59:ARG:NH2	4:AD:66:ARG:NH2	2.61	0.46
47:DQ:73:PRO:HG3	47:DQ:93:TYR:CD2	2.51	0.46
1:CA:1496:C:H2'	1:CA:1497:G:O4'	2.15	0.46
1:CA:1514:C:H2'	1:CA:1515:C:C6	2.50	0.46
1:CA:714:G:N2	1:CA:777:A:H1'	2.29	0.46
35:DA:2618:G:H2'	35:DA:2619:C:H6	1.81	0.46
12:CL:54:LYS:H	12:CL:54:LYS:HD2	1.79	0.46
12:CL:54:LYS:O	12:CL:70:ILE:HD13	2.15	0.46
1:AA:376:G:H5''	16:AP:5:ARG:CG	2.46	0.46
1:AA:1015:A:H2'	1:AA:1016:A:C8	2.50	0.46
17:CQ:32:TYR:O	17:CQ:34:LYS:N	2.48	0.46
44:BN:79:PRO:HG2	44:BN:80:GLY:H	1.79	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:AY:147:LEU:HD23	25:AY:148:HIS:H	1.78	0.46
35:DA:2283:C:C5	35:DA:2389:G:H2'	2.51	0.46
8:CH:120:THR:N	8:CH:123:GLU:OE1	2.48	0.46
55:BY:14:LEU:CD1	55:BY:15:VAL:H	2.23	0.46
2:CB:107:THR:HA	2:CB:110:GLN:HG3	1.98	0.46
40:DF:34:TRP:HA	40:DF:37:VAL:HG23	1.98	0.46
8:AH:103:VAL:CG1	8:AH:108:GLY:HA3	2.45	0.46
1:AA:221:C:O2'	1:AA:222:U:H5'	2.15	0.46
20:AT:64:ASP:C	20:AT:66:ALA:N	2.68	0.46
5:CE:37:ARG:HG2	5:CE:37:ARG:HH11	1.80	0.46
8:AH:28:ALA:O	8:AH:29:SER:HB2	2.15	0.46
1:CA:874:G:H2'	1:CA:875:C:C6	2.50	0.46
5:CE:94:ALA:HB3	5:CE:117:ASP:O	2.15	0.46
54:DX:26:TYR:CD1	54:DX:26:TYR:N	2.83	0.46
42:BH:61:HIS:O	42:BH:65:HIS:HB3	2.15	0.46
42:BH:65:HIS:CG	42:BH:66:GLY:N	2.82	0.46
1:CA:1128:C:H5'	9:CI:16:ARG:NH1	2.30	0.46
9:CI:89:ASN:HB3	9:CI:92:TYR:CD1	2.51	0.46
35:DA:626:U:H5''	35:DA:627:A:H5'	1.98	0.46
15:CO:18:PHE:O	15:CO:19:PRO:C	2.52	0.46
40:BF:152:GLU:OE1	40:BF:191:ARG:HD2	2.15	0.46
40:BF:9:ILE:HG12	40:BF:15:SER:N	2.30	0.46
35:DA:2276:G:OP2	47:DQ:84:GLY:N	2.47	0.46
11:CK:65:ALA:HB1	11:CK:98:LEU:CD2	2.45	0.46
35:BA:1614:A:C6	53:BW:93:ALA:HB2	2.51	0.46
35:DA:2733:A:C2	39:DE:203:LYS:HA	2.50	0.46
38:DD:218:ARG:HH11	38:DD:218:ARG:HG3	1.79	0.46
12:CL:41:ARG:CG	12:CL:42:THR:H	2.28	0.46
1:AA:1380:U:O2	7:AG:3:ARG:NH1	2.48	0.46
1:CA:267:C:OP1	17:CQ:67:LYS:HB2	2.14	0.46
1:AA:32:A:C2	1:AA:33:A:C4	3.03	0.46
1:CA:106:C:O2'	1:CA:379:C:OP1	2.33	0.46
5:CE:109:ILE:HD12	5:CE:135:THR:HB	1.98	0.46
35:DA:462:C:N4	35:DA:468:G:C6	2.80	0.46
35:BA:851:U:O2'	35:BA:852:G:H5'	2.16	0.46
53:BW:74:ALA:O	53:BW:75:TYR:CB	2.63	0.46
35:BA:1689:A:O2'	35:BA:1690:A:H5'	2.14	0.46
29:D3:19:GLN:C	29:D3:21:ALA:N	2.68	0.46
13:CM:50:GLU:O	13:CM:54:VAL:HG23	2.14	0.46
9:AI:65:VAL:CG2	9:AI:66:ARG:H	2.28	0.46
1:AA:1304:G:N7	1:AA:1305:G:C6	2.83	0.46
45:DO:87:ILE:HD13	45:DO:92:GLU:C	2.36	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:565:U:H2'	1:CA:566:G:H8	1.80	0.46
35:DA:1388:G:H2'	35:DA:1389:G:H8	1.79	0.46
35:DA:604:G:H2'	35:DA:605:C:H6	1.80	0.46
35:DA:1829:A:C6	35:DA:1830:C:C2	3.03	0.46
35:BA:2087:G:C2'	35:BA:2088:G:H5'	2.46	0.46
7:CG:25:ALA:CA	7:CG:28:ASN:HD22	2.28	0.46
1:AA:241:C:O2'	1:AA:242:C:H5'	2.14	0.46
35:DA:2842:G:C6	35:DA:2876:G:C6	3.03	0.46
50:BT:3:ARG:O	50:BT:5:ALA:N	2.48	0.46
1:AA:473:G:H5''	16:AP:81:ARG:NE	2.30	0.46
1:AA:1246:C:H2'	1:AA:1247:U:H6	1.80	0.46
29:B3:26:LEU:HD21	29:B3:46:ASN:CB	2.46	0.46
35:BA:1128:A:H2	35:BA:2516:G:N3	2.13	0.46
35:DA:1169:G:H1	35:DA:1180:C:H42	1.61	0.46
35:BA:845:G:HO2'	35:BA:846:C:H5	1.61	0.46
52:DV:56:SER:C	52:DV:58:VAL:H	2.18	0.46
35:DA:1839:G:C5	35:DA:1840:G:N7	2.84	0.46
17:AQ:62:SER:CB	17:AQ:72:ARG:HG3	2.44	0.46
52:BV:56:SER:C	52:BV:58:VAL:H	2.19	0.46
1:CA:1333:A:H2'	1:CA:1334:G:O4'	2.15	0.46
3:CC:40:ARG:O	3:CC:41:GLY:C	2.52	0.46
53:BW:103:ILE:HG13	53:BW:103:ILE:O	2.14	0.46
1:AA:55:A:N7	1:AA:56:U:C5	2.84	0.46
1:CA:505:G:C2	1:CA:535:A:C2	3.04	0.46
1:CA:505:G:C6	1:CA:535:A:C2	3.03	0.46
3:AC:186:PHE:HD1	3:AC:198:VAL:O	1.98	0.46
35:BA:2400:G:H2'	35:BA:2401:U:H6	1.81	0.46
35:DA:1956:U:H2'	35:DA:1957:C:H5'	1.98	0.46
1:CA:889:A:H5'	1:CA:891:U:O4'	2.16	0.46
50:DT:28:VAL:O	50:DT:29:ARG:CD	2.64	0.46
50:DT:88:ILE:HG22	50:DT:89:VAL:H	1.78	0.46
35:BA:1971:A:C4	38:BD:241:PRO:HB3	2.50	0.46
35:DA:1784:A:H4'	35:DA:1785:A:O5'	2.16	0.46
38:DD:25:THR:O	38:DD:26:LYS:C	2.53	0.46
38:DD:267:SER:O	38:DD:269:PHE:HD1	1.98	0.46
38:DD:63:ARG:CZ	38:DD:86:PRO:HD2	2.45	0.46
41:DG:39:ILE:HG13	41:DG:157:ILE:CG2	2.36	0.46
41:DG:98:ARG:O	41:DG:101:ILE:CG2	2.63	0.46
45:BO:37:ASP:HB2	45:BO:62:VAL:HG23	1.96	0.46
45:BO:68:GLU:CD	45:BO:78:ARG:NH1	2.66	0.46
56:BZ:126:VAL:C	56:BZ:164:ALA:HB3	2.35	0.46
39:BE:199:ARG:HB3	39:BE:200:GLU:OE2	2.14	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1496:A:H8	35:DA:1577:C:O2'	1.98	0.46
35:BA:2039:C:H2'	35:BA:2040:C:C6	2.50	0.46
35:BA:559:G:H2'	35:BA:560:C:H6	1.80	0.46
51:BU:78:THR:C	51:BU:80:ILE:H	2.18	0.46
42:DH:85:LYS:HZ3	42:DH:145:ALA:HA	1.80	0.46
28:B2:22:GLU:O	28:B2:25:VAL:CG1	2.64	0.46
28:B2:26:ARG:HH21	54:BX:6:ASP:HA	1.80	0.46
27:B1:11:ARG:HG3	27:B1:61:ARG:O	2.14	0.46
2:AB:12:GLU:C	2:AB:14:GLY:H	2.17	0.46
41:BG:131:TYR:CE1	41:BG:133:LEU:HB3	2.51	0.46
28:D2:15:LYS:C	28:D2:18:PRO:HD2	2.35	0.46
54:DX:35:THR:O	54:DX:36:LYS:C	2.54	0.46
35:BA:483:A:H1'	55:BY:47:LYS:CG	2.24	0.46
47:DQ:113:GLN:O	47:DQ:116:GLU:HB3	2.15	0.46
35:DA:538:G:H2'	35:DA:538:G:N3	2.30	0.46
44:DN:43:THR:O	44:DN:46:VAL:HG12	2.14	0.46
51:DU:98:LEU:HD22	52:DV:2:PHE:HZ	1.78	0.46
36:BB:28:C:H2'	36:BB:29:A:O4'	2.16	0.46
49:BS:106:ARG:HB3	49:BS:106:ARG:HE	1.52	0.46
4:CD:62:GLN:HB3	4:CD:66:ARG:HH12	1.79	0.46
40:BF:21:ALA:C	40:BF:23:ASP:N	2.68	0.46
27:D1:51:VAL:O	27:D1:59:THR:HA	2.15	0.46
46:DP:65:ARG:HG2	46:DP:65:ARG:O	2.15	0.46
35:BA:1186:G:H2'	35:BA:1187:G:C5'	2.45	0.46
35:BA:2240:C:O2'	35:BA:2241:A:H5'	2.15	0.46
35:BA:804:A:H2'	35:BA:806:C:C4	2.51	0.46
35:BA:814:C:H2'	35:BA:815:C:H6	1.80	0.46
48:DR:9:LYS:HZ3	48:DR:42:LYS:HB3	1.79	0.46
1:AA:1430:C:H2'	1:AA:1431:C:H6	1.80	0.46
1:AA:325:A:N6	1:AA:326:G:C6	2.83	0.46
20:AT:25:ARG:HB2	20:AT:25:ARG:CZ	2.45	0.46
35:BA:1638:C:H2'	35:BA:1639:U:C6	2.50	0.46
48:BR:32:GLY:O	48:BR:116:LEU:HB2	2.15	0.46
36:DB:57:A:C1'	41:DG:30:GLU:HB3	2.45	0.46
2:CB:88:ALA:CB	2:CB:223:ILE:HD11	2.44	0.46
43:BI:71:ILE:HG13	43:BI:72:LEU:HD22	1.98	0.46
2:AB:55:PHE:HA	2:AB:58:ILE:CB	2.42	0.46
6:CF:12:PRO:HG2	6:CF:13:ASN:H	1.80	0.46
6:CF:21:LEU:O	6:CF:23:LYS:N	2.48	0.46
15:CO:39:LEU:HD12	15:CO:56:LEU:HD12	1.97	0.46
18:CR:76:LEU:N	18:CR:76:LEU:HD22	2.30	0.46
46:DP:48:PRO:HG2	46:DP:49:ARG:N	2.30	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:DV:75:PHE:HD1	52:DV:87:HIS:O	1.98	0.46
4:AD:23:GLY:O	4:AD:27:TYR:CD1	2.68	0.46
6:AF:88:VAL:HG12	6:AF:89:MET:N	2.31	0.46
1:CA:1523:G:C6	1:CA:1524:C:C4	3.04	0.46
48:BR:98:LEU:HB2	48:BR:113:LEU:CD2	2.30	0.46
35:DA:1131:G:C2	35:DA:1132:A:C5	3.03	0.46
1:AA:1376:U:O2'	1:AA:1377:A:H5'	2.16	0.46
35:BA:1202:C:O2	46:BP:7:ARG:NH2	2.49	0.46
1:CA:1217:C:H2'	1:CA:1218:C:C6	2.51	0.46
16:AP:77:ALA:HB3	16:AP:79:VAL:HG23	1.98	0.46
25:AY:67:VAL:HG12	25:AY:100:TYR:CD1	2.49	0.46
25:AY:162:GLN:O	25:AY:166:ASP:OD2	2.33	0.46
25:AY:129:ILE:HG21	25:AY:169:ILE:HG12	1.98	0.46
23:CW:4:G:C6	23:CW:71:G:C6	3.04	0.46
12:AL:60:LEU:HD23	12:AL:64:TYR:C	2.36	0.46
22:AV:40:C:H2'	22:AV:41:C:C6	2.49	0.46
35:DA:621:A:H2'	35:DA:622:G:C5'	2.44	0.46
1:AA:183:G:O6	1:AA:194:C:N4	2.48	0.46
1:AA:261:U:O2	1:AA:263:A:C8	2.68	0.46
1:CA:1349:A:OP2	9:CI:118:LYS:NZ	2.48	0.46
1:AA:514:C:O2'	1:AA:515:G:H5'	2.16	0.46
9:AI:28:VAL:HG22	9:AI:63:ILE:O	2.15	0.46
48:DR:101:ALA:HB1	53:DW:38:TYR:HE1	1.80	0.46
9:CI:28:VAL:CG2	9:CI:63:ILE:HB	2.45	0.46
33:D7:34:ARG:NH1	35:DA:466:A:OP1	2.48	0.46
54:DX:64:LYS:CG	54:DX:65:ARG:H	2.28	0.46
35:DA:626:U:C2	46:DP:105:LEU:HG	2.50	0.46
46:BP:96:THR:HB	46:BP:126:VAL:HB	1.96	0.46
35:DA:2299:G:C2	35:DA:2318:G:C8	3.03	0.46
35:BA:2733:A:C2	39:BE:203:LYS:HA	2.49	0.46
54:DX:63:LYS:O	54:DX:68:ARG:HA	2.16	0.46
35:DA:1274:A:C2	35:DA:1302:A:C2	3.04	0.46
1:CA:237:C:C5'	17:CQ:25:ARG:NH1	2.78	0.46
35:BA:2014:A:C2	35:BA:2015:A:N1	2.83	0.46
25:CY:109:GLU:HA	25:CY:112:LYS:HB3	1.97	0.46
7:AG:50:ILE:CB	7:AG:58:PRO:HD3	2.40	0.46
38:DD:165:ILE:C	38:DD:166:GLN:NE2	2.68	0.46
4:CD:3:ARG:O	4:CD:4:TYR:C	2.53	0.46
35:BA:1464:C:H1'	35:BA:1528(A):A:N3	2.31	0.46
1:CA:302:G:N3	1:CA:556:C:H4'	2.30	0.46
35:BA:1644:C:C2'	35:BA:1645:G:H5'	2.45	0.46
45:DO:87:ILE:HG13	45:DO:91:LEU:HD13	1.96	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:481:G:H2'	35:DA:507:A:N1	2.31	0.46
44:DN:128:HIS:C	44:DN:130:HIS:HD1	2.18	0.46
7:CG:146:GLU:CA	7:CG:149:ARG:HB2	2.43	0.46
1:AA:786:G:C2	1:AA:797:C:O2	2.68	0.46
35:DA:601:C:O2'	35:DA:605:C:H5''	2.16	0.46
1:AA:189(I):G:H2'	1:AA:189(J):G:C8	2.50	0.46
35:BA:1210:A:H1'	35:BA:1212:G:N3	2.31	0.46
35:BA:1766:U:H2'	35:BA:1767:C:H6	1.80	0.46
40:DF:22:ALA:HA	40:DF:26:ALA:HB2	1.97	0.46
7:CG:42:ILE:HG23	7:CG:117:ALA:CA	2.46	0.46
16:AP:80:PHE:O	16:AP:81:ARG:C	2.53	0.46
1:AA:652:U:H1'	1:AA:653:A:C2	2.47	0.46
1:AA:1332:A:C2	1:AA:1333:A:C5	3.03	0.46
56:DZ:137:ILE:HD13	56:DZ:155:LEU:HD13	1.98	0.46
1:CA:839:U:O2	1:CA:839:U:O4'	2.34	0.46
35:BA:1472:A:O2'	35:BA:1473:G:H5'	2.15	0.46
1:AA:1210:C:H4'	1:AA:1214:C:C4	2.50	0.46
1:CA:1011:G:C2'	1:CA:1012:U:H5'	2.45	0.46
2:CB:15:VAL:HG23	2:CB:209:ARG:HE	1.80	0.46
9:AI:56:LEU:HD23	9:AI:56:LEU:O	2.15	0.46
1:AA:152:A:N6	1:AA:170:U:N3	2.64	0.46
1:AA:807:A:H2'	1:AA:808:C:C6	2.50	0.46
35:BA:1789:A:H2'	35:BA:1790:C:C6	2.48	0.46
38:DD:227:ASN:O	38:DD:229:VAL:N	2.49	0.46
10:CJ:96:ILE:N	10:CJ:96:ILE:HD13	2.30	0.46
35:BA:2866:U:C6	35:BA:2868:A:C1'	2.98	0.46
45:BO:64:ARG:HD3	45:BO:101:PRO:C	2.35	0.46
35:DA:2577:A:H5''	35:DA:2578:G:C5'	2.40	0.46
39:DE:120:TRP:O	39:DE:121:ASN:C	2.54	0.46
35:BA:558:G:H2'	35:BA:559:G:C8	2.44	0.46
44:BN:40:PRO:CA	51:BU:64:ARG:HH22	2.28	0.46
51:BU:65:ILE:H	51:BU:65:ILE:CD1	2.28	0.46
51:BU:92:ARG:HG2	51:BU:92:ARG:O	2.15	0.46
52:BV:38:LEU:O	52:BV:53:GLU:O	2.33	0.46
35:BA:1349:A:N6	35:BA:1598:C:N4	2.62	0.46
35:BA:1598:C:H5'	54:BX:37:THR:HB	1.96	0.46
28:B2:51:ARG:NH2	54:BX:6:ASP:OD2	2.49	0.46
27:B1:48:LYS:CG	27:B1:49:VAL:N	2.76	0.46
35:BA:2208:A:H1'	35:BA:2219:G:C5	2.50	0.46
35:BA:483:A:N7	35:BA:497:A:H2	2.13	0.46
35:DA:1149:G:H2'	35:DA:1150:C:C6	2.51	0.46
35:DA:2039:C:C2	35:DA:2040:C:C5	3.04	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:DN:9:VAL:HG21	44:DN:39:ARG:HH21	1.80	0.46
51:DU:76:TYR:CZ	51:DU:80:ILE:HG13	2.50	0.46
51:DU:83:LEU:HG	51:DU:88:ILE:HG12	1.96	0.46
49:BS:97:ARG:O	49:BS:98:VAL:C	2.53	0.46
4:CD:147:ALA:HA	4:CD:182:LYS:HB3	1.97	0.46
4:CD:65:ARG:NH1	4:CD:72:GLU:HB2	2.31	0.46
47:BQ:35:VAL:CG2	47:BQ:101:ARG:O	2.63	0.46
35:BA:237:C:O2'	35:BA:238:C:H5'	2.15	0.46
3:CC:11:ARG:O	3:CC:14:ILE:O	2.34	0.46
40:DF:114:VAL:O	40:DF:115:ALA:C	2.52	0.46
40:DF:117:ARG:NH2	40:DF:187:VAL:HA	2.30	0.46
40:DF:2:LYS:CG	40:DF:25:PRO:HB2	2.22	0.46
35:BA:869:G:H2'	35:BA:870:A:C8	2.49	0.46
35:DA:1281:G:H2'	35:DA:1282:U:H6	1.79	0.46
49:DS:92:TYR:HD2	49:DS:97:ARG:NH1	2.12	0.46
2:AB:36:ARG:O	2:AB:37:ASN:C	2.53	0.46
35:DA:200:U:C2'	35:DA:201:C:H5'	2.44	0.46
2:CB:68:ILE:HG22	2:CB:70:PHE:CD1	2.50	0.46
46:DP:38:GLN:CG	46:DP:39:LYS:N	2.71	0.46
52:DV:75:PHE:HE1	52:DV:89:GLN:HB2	1.79	0.46
43:DI:98:ALA:HB1	43:DI:109:ILE:HD13	1.96	0.46
35:DA:2023:G:H2'	35:DA:2024:G:H8	1.81	0.46
35:DA:2030:A:H4'	35:DA:2031:A:C8	2.47	0.46
51:DU:36:ARG:HG2	51:DU:40:PHE:CE2	2.50	0.46
25:CY:7:TYR:CE1	25:CY:160:GLU:HG2	2.50	0.46
19:CS:80:TYR:O	19:CS:81:ARG:O	2.34	0.46
23:CW:70:C:H2'	23:CW:71:G:H8	1.80	0.46
12:AL:28:LYS:C	12:AL:30:ALA:N	2.69	0.46
35:BA:2033:A:O2'	35:BA:2034:U:P	2.73	0.46
33:B7:18:PHE:O	33:B7:19:ARG:C	2.54	0.46
40:DF:160:ASN:HD21	40:DF:162:LEU:CB	2.29	0.46
7:AG:145:ALA:O	7:AG:147:ALA:N	2.36	0.46
7:AG:86:GLN:CD	23:AW:32:G:H21	2.18	0.46
35:DA:419:C:C2	35:DA:420:C:C6	3.04	0.46
5:AE:128:PRO:O	5:AE:131:ILE:HG12	2.15	0.46
35:DA:2473:U:O2	35:DA:2473:U:C2'	2.62	0.46
9:AI:17:VAL:HG21	9:AI:81:ILE:HD13	1.97	0.46
9:AI:37:PHE:HB3	9:AI:43:ALA:HB2	1.97	0.46
8:CH:86:ILE:CG1	8:CH:135:CYS:HA	2.41	0.46
35:DA:2124:G:H2'	35:DA:2125:G:H5'	1.97	0.46
5:AE:144:THR:O	5:AE:145:LYS:C	2.54	0.46
12:AL:70:ILE:H	12:AL:70:ILE:HD12	1.78	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:CI:71:SER:O	9:CI:74:ILE:HB	2.15	0.46
46:DP:101:VAL:O	46:DP:103:ALA:N	2.49	0.46
46:BP:101:VAL:HA	46:BP:107:LYS:H	1.79	0.46
40:BF:170:LEU:HD21	40:BF:172:TRP:CZ2	2.50	0.46
56:BZ:19:ARG:HG3	56:BZ:20:ARG:N	2.30	0.46
40:BF:160:ASN:HD21	40:BF:162:LEU:CB	2.29	0.46
1:AA:712:A:O2'	1:AA:713:G:H5'	2.15	0.46
3:AC:105:GLU:HG2	3:AC:106:VAL:N	2.19	0.46
44:BN:94:HIS:N	44:BN:94:HIS:ND1	2.64	0.46
47:DQ:82:ARG:HH11	47:DQ:82:ARG:CG	2.25	0.46
17:CQ:67:LYS:C	17:CQ:69:LYS:H	2.19	0.46
35:DA:322:A:OP1	40:DF:168:ARG:HD3	2.16	0.46
35:DA:2171:A:C8	35:DA:2172:U:C5	3.04	0.46
1:AA:112:G:H5'	1:AA:389:A:H4'	1.97	0.46
53:DW:20:VAL:HG23	53:DW:21:VAL:H	1.80	0.46
35:BA:1338:G:N3	35:BA:1338:G:H2'	2.29	0.46
36:BB:79:C:H2'	36:BB:80:U:O4'	2.15	0.46
29:B3:16:PRO:HB2	29:B3:18:ASP:OD1	2.16	0.46
1:AA:658:G:O4'	15:AO:22:THR:HB	2.14	0.46
15:AO:29:VAL:O	15:AO:30:ALA:C	2.53	0.46
15:AO:37:ASN:N	15:AO:37:ASN:HD22	2.13	0.46
54:DX:12:VAL:HG13	54:DX:17:ALA:HB2	1.98	0.46
53:BW:48:ALA:O	53:BW:49:LYS:C	2.54	0.46
35:DA:2643:G:C2'	35:DA:2644:G:H5'	2.45	0.46
35:DA:2007:C:H6	35:DA:2007:C:O5'	1.97	0.46
7:CG:140:ASP:HA	7:CG:143:ARG:CZ	2.46	0.46
10:CJ:31:GLY:HA3	10:CJ:78:ASN:ND2	2.29	0.46
10:CJ:23:ILE:HG23	10:CJ:85:LEU:HD13	1.97	0.46
1:AA:286:G:H2'	1:AA:287:U:H6	1.80	0.46
35:DA:448:U:H4'	35:DA:449:A:OP2	2.15	0.46
1:AA:1153:C:H2'	1:AA:1154:G:O5'	2.15	0.46
53:BW:65:LEU:C	53:BW:65:LEU:HD23	2.35	0.46
39:DE:93:VAL:C	39:DE:95:ILE:N	2.68	0.46
1:CA:264:U:O2'	17:CQ:64:PRO:HB2	2.16	0.46
35:BA:315:G:H2'	35:BA:316:C:C6	2.50	0.46
1:CA:751:U:O2'	1:CA:752:G:H5'	2.16	0.46
4:CD:23:GLY:O	4:CD:27:TYR:CD1	2.69	0.46
35:DA:1630:G:C5	35:DA:1631:C:C5	3.04	0.46
35:BA:1169:G:H1	35:BA:1180:C:H42	1.64	0.46
35:BA:645:C:C2'	35:BA:645:C:O2	2.64	0.46
1:CA:1133:G:H2'	1:CA:1134:G:C8	2.50	0.46
35:DA:1668:A:C8	35:DA:1674:G:C6	3.04	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:948:G:H2'	35:BA:949:C:C6	2.51	0.46
35:DA:1272:A:N3	35:DA:1618:A:C5	2.83	0.46
35:DA:2362:G:O2'	35:DA:2363:C:H5'	2.15	0.46
35:BA:1433:U:H3	35:BA:1560:G:H1	1.62	0.46
1:CA:39:G:H2'	1:CA:40:C:H6	1.79	0.46
12:CL:18:VAL:HG23	12:CL:18:VAL:O	2.16	0.46
15:AO:47:LYS:HD3	15:AO:47:LYS:H	1.80	0.46
11:CK:15:ALA:HA	11:CK:76:GLY:O	2.15	0.46
35:DA:1675:C:H2'	35:DA:1676:A:O4'	2.15	0.46
45:DO:64:ARG:HH11	45:DO:64:ARG:CB	2.29	0.46
45:DO:61:VAL:CG1	45:DO:85:VAL:HB	2.45	0.46
50:DT:65:LYS:HE3	50:DT:66:VAL:H	1.80	0.46
50:DT:83:ILE:CG1	50:DT:84:GLN:HG2	2.44	0.46
14:CN:24:CYS:SG	14:CN:39:LEU:HA	2.56	0.46
35:BA:1817:G:C2'	35:BA:1818:U:H5'	2.46	0.46
35:BA:782:A:H4'	35:BA:783:A:O5'	2.16	0.46
38:BD:27:THR:CG2	38:BD:28:GLU:N	2.62	0.46
38:DD:267:SER:O	38:DD:269:PHE:CD1	2.69	0.46
45:BO:104:ARG:C	45:BO:106:LEU:H	2.17	0.46
35:BA:874:G:H2'	35:BA:875:G:C8	2.50	0.46
39:BE:44:TYR:O	39:BE:45:THR:OG1	2.28	0.46
39:BE:78:LEU:O	39:BE:79:ARG:HD2	2.15	0.46
51:BU:111:GLU:O	51:BU:113:ALA:N	2.49	0.46
52:BV:17:GLY:HA2	52:BV:98:GLU:O	2.14	0.46
2:AB:80:ILE:HG12	2:AB:211:ILE:CG2	2.46	0.46
41:BG:138:GLN:HE21	41:BG:152:LEU:HD23	1.81	0.46
41:BG:36:LYS:HE3	41:BG:160:VAL:CG2	2.46	0.46
28:D2:44:LEU:HA	28:D2:44:LEU:HD12	1.57	0.46
54:DX:37:THR:C	54:DX:39:ILE:H	2.19	0.46
28:D2:26:ARG:HH21	54:DX:7:VAL:H	1.60	0.46
42:BH:162:ILE:C	42:BH:163:TYR:CD1	2.89	0.46
42:BH:97:ARG:O	42:BH:98:LEU:HB2	2.15	0.46
35:BA:2643:G:C2'	35:BA:2644:G:H5'	2.45	0.46
56:DZ:8:TYR:HA	56:DZ:62:PRO:CG	2.45	0.46
1:CA:1065:U:H4'	1:CA:1066:C:O5'	2.16	0.46
35:BA:2376:A:H2'	35:BA:2377:A:O4'	2.15	0.46
36:BB:7:G:H21	49:BS:38:GLN:HE22	1.63	0.46
43:DI:88:ILE:CD1	43:DI:123:LEU:HD12	2.41	0.46
46:BP:14:LYS:O	46:BP:15:ARG:HB2	2.16	0.46
25:AY:53:ASN:HD22	25:AY:53:ASN:H	1.63	0.46
44:DN:67:LEU:HB3	44:DN:88:GLU:CD	2.36	0.46
35:BA:197:A:C2	35:BA:198:C:H1'	2.51	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:587:C:O2'	35:BA:588:U:OP2	2.26	0.46
40:DF:117:ARG:NH2	40:DF:189:THR:O	2.48	0.46
40:DF:21:ALA:C	40:DF:23:ASP:H	2.18	0.46
47:BQ:74:TYR:HB3	47:BQ:91:GLU:OE2	2.15	0.46
39:BE:108:SER:O	39:BE:162:ALA:HA	2.15	0.46
20:AT:14:LYS:HE3	20:AT:18:GLN:HE21	1.80	0.46
20:AT:13:LEU:HD13	20:AT:14:LYS:N	2.31	0.46
2:AB:55:PHE:O	2:AB:59:GLU:N	2.41	0.46
44:DN:122:VAL:CG1	44:DN:123:TYR:N	2.78	0.46
44:BN:31:ALA:O	44:BN:34:LEU:N	2.49	0.46
45:BO:113:LYS:O	45:BO:114:ILE:C	2.54	0.46
45:BO:112:MET:O	45:BO:115:VAL:HG23	2.16	0.46
2:CB:92:TYR:CE2	2:CB:151:GLY:HA3	2.51	0.46
40:DF:65:TRP:CZ3	40:DF:72:ARG:HB3	2.51	0.46
4:AD:152:SER:C	4:AD:154:ASN:H	2.19	0.46
4:AD:178:VAL:C	4:AD:180:GLY:H	2.18	0.46
1:AA:568:G:O6	12:AL:5:PRO:HD3	2.16	0.46
18:AR:43:PHE:CA	18:AR:51:LEU:HD12	2.37	0.46
1:CA:818:G:C3'	1:CA:819:A:C5'	2.91	0.46
35:DA:572:A:H2'	35:DA:573:G:O4'	2.16	0.46
2:AB:111:ARG:HH11	2:AB:111:ARG:CG	2.22	0.46
25:CY:21:LEU:O	25:CY:22:GLU:C	2.54	0.46
25:CY:3:LEU:HA	25:CY:6:LEU:CB	2.29	0.46
25:AY:6:LEU:O	25:AY:6:LEU:HD23	2.15	0.46
7:CG:107:ALA:O	7:CG:110:GLN:HB2	2.15	0.46
51:BU:26:GLY:C	51:BU:28:ARG:H	2.18	0.46
11:AK:73:MET:SD	11:AK:103:LEU:CD1	3.03	0.46
2:CB:99:GLY:O	2:CB:100:GLY:C	2.52	0.46
7:AG:81:GLY:C	7:AG:83:ALA:H	2.17	0.46
1:AA:790:A:OP1	22:AV:37:A:O2'	2.31	0.46
1:AA:182:U:H2'	1:AA:183:G:O4'	2.15	0.46
1:AA:193:C:H2'	1:AA:194:C:C6	2.50	0.46
1:AA:263:A:OP2	20:AT:79:ARG:NH1	2.48	0.46
35:DA:923:C:H2'	35:DA:924:C:C6	2.51	0.46
43:DI:39:ALA:O	43:DI:40:THR:C	2.54	0.46
8:CH:5:PRO:C	8:CH:8:ASP:HB3	2.36	0.46
56:DZ:76:LEU:HD23	56:DZ:76:LEU:H	1.80	0.46
31:B5:49:CYS:O	31:B5:57:VAL:HG22	2.15	0.46
1:CA:528:C:C5	1:CA:529:G:N7	2.84	0.46
12:CL:89:ARG:CB	12:CL:89:ARG:HH11	2.28	0.46
12:CL:89:ARG:NH1	12:CL:90:VAL:N	2.63	0.46
42:DH:13:LYS:C	42:DH:15:VAL:N	2.65	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1266:G:N2	35:DA:2012:G:C4	2.83	0.46
15:AO:16:ALA:HB1	15:AO:21:ASP:HB3	1.97	0.46
35:DA:1231:G:H2'	35:DA:1232:G:H8	1.81	0.46
1:CA:267:C:P	17:CQ:67:LYS:HB2	2.56	0.46
35:DA:2014:A:C2	35:DA:2015:A:C2	3.03	0.46
3:CC:155:GLY:HA3	3:CC:163:ALA:CB	2.42	0.46
35:BA:680:G:O2'	35:BA:681:G:H5'	2.16	0.46
5:AE:136:MET:HB3	5:AE:140:ARG:HH21	1.79	0.46
1:AA:35:G:H2'	1:AA:36:C:H6	1.77	0.46
20:CT:27:LYS:O	20:CT:30:LYS:HB3	2.15	0.46
19:AS:33:THR:CG2	19:AS:51:VAL:HG22	2.46	0.46
1:AA:1255:G:O2'	1:AA:1258:G:H1'	2.16	0.46
3:CC:84:ILE:HG13	3:CC:101:LEU:HD13	1.96	0.46
35:DA:1271:G:C2	35:DA:1617:C:H4'	2.50	0.46
1:CA:730:G:C5	1:CA:731:G:H1'	2.51	0.46
35:BA:1388:G:H2'	35:BA:1389:G:H8	1.80	0.46
1:CA:763:G:H2'	1:CA:764:C:H6	1.80	0.46
24:CX:17:U:H2'	24:CX:18:C:H6	1.80	0.46
2:AB:20:GLU:OE1	2:AB:20:GLU:HA	2.15	0.46
40:BF:126:VAL:CG1	40:BF:193:VAL:HG13	2.46	0.46
1:AA:929:G:C6	1:AA:930:C:C4	3.04	0.46
35:DA:1399:C:H2'	35:DA:1400:G:C8	2.49	0.46
35:DA:976:C:H2'	35:DA:977:G:H8	1.79	0.46
53:DW:107:LEU:HA	53:DW:107:LEU:HD12	1.73	0.46
35:BA:1221(A):C:C2'	35:BA:1222:C:H5'	2.45	0.46
53:DW:69:LEU:N	53:DW:69:LEU:HD12	2.31	0.46
35:BA:1531:C:H3'	35:BA:1532:C:C5'	2.46	0.46
35:DA:1889:A:H1'	35:DA:2087:G:O4'	2.15	0.46
1:AA:1120:G:H1	1:AA:1153:C:H42	1.63	0.46
35:BA:1935:G:H1'	35:BA:1964:G:H21	1.78	0.46
1:AA:799:G:C2'	1:AA:800:G:H5'	2.46	0.46
38:DD:109:ASP:N	38:DD:195:ALA:O	2.30	0.46
1:AA:1039:C:H2'	1:AA:1040:U:C6	2.51	0.46
1:CA:487:A:C6	1:CA:488:C:O2	2.69	0.46
3:AC:92:ALA:C	3:AC:94:LEU:H	2.17	0.46
35:BA:526:A:OP1	35:BA:527:C:OP1	2.33	0.46
1:AA:1251:A:H2'	1:AA:1252:A:C8	2.50	0.46
35:DA:1272:A:C2	35:DA:1618:A:C5	3.03	0.46
35:BA:2447:G:O6	35:BA:2504:U:O4	2.34	0.46
19:CS:67:VAL:HG12	19:CS:68:GLY:N	2.31	0.46
26:D0:84:LEU:C	26:D0:84:LEU:HD12	2.35	0.46
35:DA:2792:G:O6	35:DA:2804:C:N3	2.48	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2791:C:H6	35:DA:2793:G:O6	1.97	0.46
39:BE:73:GLU:OE2	39:BE:73:GLU:N	2.34	0.46
45:DO:1:MET:HE2	45:DO:1:MET:N	2.29	0.46
50:DT:106:SER:C	50:DT:107:ASP:OD1	2.53	0.46
43:BI:90:GLY:O	43:BI:91:SER:O	2.34	0.46
1:CA:1051:C:H2'	1:CA:1052:U:H6	1.80	0.46
10:CJ:57:LYS:HD2	10:CJ:60:ARG:NH2	2.30	0.46
35:BA:1806:C:N4	35:BA:1812:A:N6	2.63	0.46
38:BD:208:LYS:O	38:BD:210:GLY:O	2.34	0.46
38:BD:223:GLY:C	38:BD:225:ALA:H	2.14	0.46
38:BD:265:PRO:O	38:BD:266:SER:C	2.53	0.46
35:DA:1567:A:H3'	38:DD:86:PRO:HG3	1.97	0.46
36:DB:32:C:OP2	41:DG:96:ARG:NH2	2.35	0.46
41:DG:142:PRO:O	41:DG:144:ILE:N	2.48	0.46
47:DQ:103:MET:HE2	47:DQ:125:LEU:HD21	1.98	0.46
35:BA:2681:C:C4	35:BA:2724:C:C5	3.04	0.46
19:AS:78:ARG:H	19:AS:78:ARG:CD	2.28	0.46
54:BX:24:GLY:HA2	54:BX:80:ILE:HG13	1.96	0.46
27:B1:11:ARG:C	27:B1:13:ILE:H	2.19	0.46
2:AB:77:ALA:C	2:AB:80:ILE:HG23	2.36	0.46
41:BG:76:SER:HB3	41:BG:84:LYS:CD	2.45	0.46
55:DY:99:CYS:O	55:DY:100:ALA:HB2	2.16	0.46
55:DY:88:LYS:NZ	55:DY:93:GLY:N	2.47	0.46
28:D2:23:LYS:CB	54:DX:5:TYR:HE1	2.29	0.46
56:DZ:146:ILE:O	56:DZ:148:ASP:N	2.48	0.46
56:DZ:16:SER:O	56:DZ:20:ARG:HB2	2.15	0.46
44:DN:41:ASP:O	44:DN:42:TRP:C	2.54	0.46
35:DA:996:A:O4'	51:DU:92:ARG:NH2	2.49	0.46
52:DV:15:GLU:H	52:DV:18:LEU:HD11	1.81	0.46
52:DV:33:VAL:HA	52:DV:62:LEU:O	2.15	0.46
1:AA:1049:U:H1'	1:AA:1201:A:C8	2.51	0.46
19:CS:17:GLU:C	19:CS:19:VAL:H	2.18	0.46
35:DA:2285:C:H42	35:DA:2383:G:H1	1.64	0.46
36:BB:115:G:H2'	36:BB:116:G:H8	1.81	0.46
49:BS:101:LEU:HD21	49:BS:103:GLU:HG3	1.97	0.46
1:CA:438:G:H4'	4:CD:123:HIS:ND1	2.30	0.46
4:CD:148:VAL:HG23	4:CD:181:MET:O	2.16	0.46
35:BA:1022:G:O2'	35:BA:1023:U:P	2.73	0.46
40:BF:108:LYS:O	40:BF:112:MET:SD	2.74	0.46
40:BF:123:LEU:HD12	40:BF:124:LEU:N	2.29	0.46
40:BF:125:LEU:HD11	40:BF:199:TRP:CD1	2.51	0.46
25:AY:38:LEU:O	25:AY:41:LEU:HB2	2.16	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:571:A:H5''	35:BA:2030:A:H62	1.79	0.46
48:DR:12:ARG:HG3	48:DR:12:ARG:NH1	2.28	0.46
35:DA:2377:A:H2'	35:DA:2378:A:C8	2.51	0.46
49:DS:101:LEU:C	49:DS:101:LEU:HD13	2.35	0.46
2:CB:84:GLU:HB3	2:CB:219:VAL:CG2	2.32	0.46
27:D1:25:LYS:NZ	35:DA:2079:U:OP1	2.49	0.46
1:CA:835:U:O2'	1:CA:836:G:H5'	2.15	0.46
15:CO:54:ARG:NH1	15:CO:54:ARG:HG2	2.30	0.46
2:CB:46:LYS:O	2:CB:47:THR:C	2.53	0.46
35:DA:1202:C:O2	46:DP:7:ARG:NH2	2.48	0.46
35:DA:310:A:OP1	55:DY:17:SER:O	2.34	0.46
55:DY:14:LEU:O	55:DY:72:VAL:HG12	2.16	0.46
47:DQ:70:PRO:CA	47:DQ:95:ALA:HB2	2.46	0.46
6:AF:21:LEU:O	6:AF:23:LYS:N	2.48	0.46
7:AG:99:LEU:O	7:AG:100:ALA:C	2.54	0.46
25:CY:18:LEU:C	25:CY:20:VAL:H	2.19	0.46
1:CA:959:A:H3'	1:CA:960:U:H5''	1.97	0.46
1:CA:957:U:H1'	1:CA:960:U:C4	2.50	0.46
1:AA:1312:G:H1	1:AA:1325:C:H42	1.61	0.46
1:AA:450:G:OP1	16:AP:43:LYS:NZ	2.49	0.46
1:AA:376:G:C5'	16:AP:5:ARG:HD2	2.44	0.46
25:AY:30:THR:OG1	25:AY:31:GLY:N	2.49	0.46
25:AY:14:MET:HB3	25:AY:168:PHE:CD2	2.51	0.46
35:BA:2124:G:H2'	35:BA:2125:G:H5'	1.97	0.46
33:B7:34:ARG:HE	33:B7:39:ARG:CD	2.29	0.46
42:DH:74:ASN:C	42:DH:76:VAL:N	2.69	0.46
1:AA:1226:C:H5'	19:AS:80:TYR:HE2	1.80	0.46
19:AS:80:TYR:O	19:AS:81:ARG:O	2.34	0.46
1:CA:826:C:H2'	1:CA:827:U:H6	1.79	0.46
8:CH:64:LYS:O	8:CH:79:VAL:CG2	2.63	0.46
35:DA:2127:G:H5'	57:DC:36:LYS:NZ	2.31	0.46
35:BA:365:C:H6	35:BA:365:C:H5'	1.79	0.46
9:CI:5:TYR:OH	9:CI:7:THR:HG23	2.16	0.46
53:DW:84:ARG:HB2	53:DW:96:ILE:CG2	2.46	0.46
15:CO:10:LYS:HG3	15:CO:11:VAL:N	2.30	0.46
35:DA:2672:G:C3'	35:DA:2673:G:H5''	2.45	0.46
35:BA:2884:U:H2'	35:BA:2885:C:C5'	2.44	0.46
39:DE:168:MET:O	39:DE:170:LEU:HD12	2.15	0.46
35:DA:2219:G:C2'	35:DA:2220:G:H5'	2.45	0.46
35:BA:707:G:H3'	35:BA:708:C:H6	1.80	0.46
1:CA:1508:G:C4	1:CA:1509:C:C5	3.03	0.46
1:AA:236:G:H2'	1:AA:237:C:H6	1.80	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
17:AQ:45:HIS:NE2	17:AQ:47:PRO:HB3	2.30	0.46
38:BD:145:VAL:CG1	38:BD:146:GLU:N	2.78	0.46
44:DN:107:LEU:HB2	44:DN:108:PRO:CD	2.45	0.46
35:DA:1689:A:O2'	35:DA:1690:A:H5'	2.15	0.46
13:CM:69:GLU:HB2	13:CM:72:ALA:HB3	1.98	0.46
4:AD:3:ARG:HD3	4:AD:3:ARG:O	2.15	0.46
35:BA:1706:U:O2'	35:BA:1707:G:H5'	2.15	0.46
35:BA:1708:C:O2'	35:BA:1709:U:H5'	2.15	0.46
1:CA:577:G:H1'	1:CA:816:A:N3	2.29	0.46
1:AA:598:U:H4'	8:AH:94:TYR:CD1	2.51	0.46
1:AA:1277:C:H2'	1:AA:1278:U:H5'	1.97	0.46
35:BA:469:G:C2'	35:BA:470:A:H5''	2.46	0.46
1:AA:769:G:C4	1:AA:770:C:C5	3.04	0.46
35:DA:524:U:C2'	35:DA:524:U:O2	2.60	0.46
35:DA:359:A:H2'	35:DA:360:G:C8	2.50	0.46
35:DA:2291:U:H2'	35:DA:2292:C:C6	2.50	0.46
53:DW:5:ALA:HB3	53:DW:105:VAL:N	2.31	0.46
1:CA:1366:C:H2'	1:CA:1367:C:H6	1.75	0.46
1:CA:1046:A:H2'	1:CA:1046:A:N3	2.30	0.46
35:BA:2840:C:H2'	35:BA:2841:C:C6	2.50	0.46
35:BA:1110:G:OP1	35:BA:1110:G:H4'	2.16	0.46
1:AA:1161:C:H2'	1:AA:1162:C:H6	1.81	0.46
1:AA:762:C:H2'	1:AA:763:G:H8	1.81	0.46
35:DA:1198:U:H2'	35:DA:1199:U:H6	1.80	0.46
17:AQ:64:PRO:C	17:AQ:65:ILE:HD12	2.36	0.46
1:CA:648:A:H2'	1:CA:649:G:C8	2.47	0.46
6:AF:37:VAL:HG13	6:AF:65:VAL:HG12	1.96	0.46
35:DA:1516:C:H2'	35:DA:1517:G:C8	2.51	0.46
36:DB:35:U:HO2'	36:DB:36:C:H5'	1.79	0.46
1:AA:1002:G:H2'	1:AA:1003:G:O4'	2.15	0.46
35:DA:1695:G:H2'	35:DA:1696:G:C4'	2.45	0.46
35:BA:532:A:H4'	35:BA:533:G:O4'	2.16	0.46
35:DA:1396:U:O2	35:DA:1396:U:C2'	2.64	0.46
35:BA:1848:A:H2'	35:BA:1849:G:C8	2.50	0.46
35:DA:1692:U:O2'	35:DA:1693:U:H2'	2.15	0.46
35:BA:2322:A:O2'	35:BA:2323:G:H5'	2.16	0.46
35:BA:1459:G:H5''	35:BA:1460:A:OP2	2.16	0.46
45:BO:25:LEU:HD13	45:BO:38:VAL:HG11	1.97	0.46
35:BA:2517:C:H2'	35:BA:2542:A:H2	1.78	0.46
10:CJ:65:LEU:HD12	14:CN:55:GLY:HA3	1.98	0.46
10:CJ:48:THR:HG23	10:CJ:62:HIS:CA	2.46	0.46
35:BA:1820:U:H4'	35:BA:1821:A:OP2	2.15	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:BD:21:PHE:O	38:BD:22:SER:C	2.53	0.46
1:CA:608:A:H4'	16:CP:32:TYR:OH	2.16	0.46
41:DG:128:ARG:O	41:DG:129:GLY:O	2.33	0.46
41:DG:36:LYS:HB3	41:DG:160:VAL:CG2	2.45	0.46
41:DG:41:GLN:CG	41:DG:43:LEU:HD12	2.27	0.46
46:BP:65:ARG:HG2	46:BP:65:ARG:O	2.16	0.46
45:BO:101:PRO:C	45:BO:102:VAL:HG22	2.35	0.46
45:BO:60:ALA:HB1	45:BO:85:VAL:O	2.15	0.46
50:BT:48:ILE:HG22	50:BT:49:VAL:N	2.31	0.46
39:BE:197:ILE:HG13	39:BE:199:ARG:NH1	2.27	0.46
51:BU:83:LEU:HG	51:BU:88:ILE:HG12	1.98	0.46
52:BV:39:LEU:HD11	52:BV:53:GLU:H	1.80	0.46
1:AA:1231:G:O2'	1:AA:1232:U:H5'	2.15	0.46
39:DE:1:MET:HE2	39:DE:1:MET:H1	1.81	0.46
41:BG:114:ILE:CG2	41:BG:115:ARG:N	2.79	0.46
41:BG:140:ILE:HD12	41:BG:141:PHE:N	2.30	0.46
55:DY:96:ILE:HG13	55:DY:100:ALA:H	1.80	0.46
28:D2:50:ILE:O	28:D2:51:ARG:CB	2.63	0.46
35:BA:2640:G:H8	35:BA:2640:G:H5'	1.81	0.46
56:DZ:8:TYR:CD1	56:DZ:8:TYR:N	2.83	0.46
44:DN:12:ARG:NH2	44:DN:39:ARG:NH1	2.63	0.46
52:DV:5:VAL:HB	52:DV:37:VAL:O	2.15	0.46
19:CS:15:LEU:H	19:CS:15:LEU:CD2	2.28	0.46
1:CA:435:C:H2'	1:CA:435:C:O2	2.15	0.46
4:CD:68:TYR:N	4:CD:68:TYR:CD1	2.84	0.46
44:BN:62:VAL:O	44:BN:63:THR:CG2	2.62	0.46
3:CC:153:VAL:HG12	3:CC:154:SER:H	1.80	0.46
35:BA:442:G:H4'	40:BF:46:ARG:HD3	1.97	0.46
25:AY:70:SER:CB	25:AY:76:LEU:HD12	2.35	0.46
35:BA:2052:G:C4	35:BA:2053:G:C8	3.03	0.46
27:D1:86:SER:C	27:D1:89:GLU:OE2	2.54	0.46
27:D1:86:SER:CA	27:D1:89:GLU:OE1	2.54	0.46
35:BA:2079:U:H2'	35:BA:2080:G:H8	1.79	0.46
35:BA:675:A:OP1	40:BF:63:LYS:HD2	2.16	0.46
35:BA:818:G:H3'	35:BA:1187:G:H22	1.81	0.46
35:DA:614(B):G:C4	40:DF:44:ARG:NH2	2.83	0.46
35:BA:2822:G:H2'	35:BA:2823:A:H5''	1.97	0.46
5:AE:50:GLU:CD	5:AE:51:VAL:H	2.19	0.46
48:BR:13:HIS:C	48:BR:13:HIS:ND1	2.67	0.46
48:BR:17:ARG:O	48:BR:18:LEU:C	2.53	0.46
35:BA:1453:U:OP1	48:BR:77:ARG:NH1	2.49	0.46
49:DS:83:LYS:O	49:DS:85:VAL:N	2.48	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
49:DS:92:TYR:HD1	49:DS:92:TYR:C	2.18	0.46
2:AB:178:ARG:CB	2:AB:178:ARG:HH11	2.27	0.46
2:AB:167:PRO:CD	2:AB:188:ALA:HB2	2.46	0.46
2:AB:41:ILE:CD1	2:AB:41:ILE:N	2.78	0.46
44:DN:22:THR:HA	44:DN:61:ARG:CB	2.33	0.46
44:DN:34:LEU:HA	44:DN:34:LEU:HD22	1.77	0.46
44:DN:32:THR:HG23	44:DN:37:LYS:HB3	1.96	0.46
47:BQ:108:GLY:HA3	56:BZ:116:VAL:HG11	1.98	0.46
6:CF:14:LEU:HD13	6:CF:15:ASP:O	2.15	0.46
2:CB:164:VAL:CG1	2:CB:165:VAL:N	2.79	0.46
52:DV:83:ARG:HH11	52:DV:83:ARG:CG	2.08	0.46
35:DA:83:G:N2	35:DA:103:A:OP2	2.46	0.46
35:DA:80:G:O2'	35:DA:81:G:H5'	2.15	0.46
43:DI:114:LEU:O	43:DI:115:ALA:CB	2.64	0.46
6:AF:66:GLU:O	6:AF:67:MET:HB3	2.15	0.46
1:CA:1523:G:C5	1:CA:1524:C:C5	3.04	0.46
7:AG:26:PHE:CZ	7:AG:30:ILE:HD11	2.51	0.46
35:DA:514:A:O2'	35:DA:515:A:H5'	2.14	0.46
35:DA:2701:C:H2'	35:DA:2702:U:H6	1.81	0.46
20:CT:64:ASP:C	20:CT:66:ALA:N	2.68	0.46
25:AY:92:PRO:HA	25:AY:101:ILE:HG23	1.97	0.46
33:B7:15:THR:HG22	33:B7:16:HIS:NE2	2.30	0.46
33:B7:5:TRP:C	33:B7:6:GLN:NE2	2.68	0.46
8:CH:103:VAL:CG1	8:CH:108:GLY:HA3	2.45	0.46
35:BA:85:G:N2	35:BA:86:C:H1'	2.31	0.46
1:AA:694:A:O2'	23:AW:39:A:C1'	2.61	0.46
13:AM:90:LEU:O	13:AM:91:ARG:HB2	2.16	0.46
40:DF:101:LEU:HD12	40:DF:102:PRO:CD	2.36	0.46
46:DP:14:LYS:O	46:DP:15:ARG:CB	2.64	0.46
5:CE:37:ARG:HA	5:CE:112:LEU:O	2.16	0.46
35:DA:1659:U:OP2	39:DE:132:HIS:HE1	1.99	0.46
54:BX:64:LYS:CG	54:BX:65:ARG:H	2.28	0.46
9:CI:89:ASN:C	9:CI:91:ASP:H	2.19	0.46
46:BP:75:ILE:CD1	46:BP:75:ILE:H	2.08	0.46
53:BW:10:VAL:O	53:BW:11:ARG:CB	2.64	0.46
14:AN:6:LEU:C	14:AN:8:GLU:N	2.69	0.46
44:DN:94:HIS:N	44:DN:94:HIS:ND1	2.63	0.46
2:AB:97:TRP:HH2	2:AB:176:GLU:CB	2.27	0.46
1:CA:116:A:H2'	1:CA:117:G:O4'	2.16	0.46
35:BA:374:A:H2'	35:BA:375:C:O4'	2.15	0.46
35:BA:2276:G:OP2	47:BQ:84:GLY:N	2.49	0.46
40:DF:170:LEU:HD21	40:DF:172:TRP:CZ2	2.51	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
26:D0:29:GLN:HB2	26:D0:67:VAL:HG23	1.97	0.46
1:AA:122:G:H2'	1:AA:123:C:H6	1.80	0.46
3:AC:84:ILE:HG13	3:AC:101:LEU:HD13	1.97	0.46
20:CT:83:ARG:HG2	20:CT:86:ARG:HD3	1.98	0.46
35:DA:1271:G:N2	35:DA:1617:C:C4'	2.79	0.46
35:DA:1613:G:N1	35:DA:1619:G:C5	2.83	0.46
35:DA:1947:C:O2'	35:DA:1948:G:H5'	2.16	0.46
35:BA:472:A:H2'	35:BA:473:G:H5'	1.97	0.46
29:B3:12:PRO:HA	29:B3:15:TYR:HD1	1.81	0.46
46:DP:59:LEU:HA	46:DP:61:ARG:CD	2.45	0.46
35:DA:1428:C:C4	35:DA:1569:A:H5''	2.49	0.46
35:DA:1714:G:H2'	35:DA:1717:G:C8	2.50	0.46
24:CX:17:U:O5'	24:CX:17:U:H6	1.98	0.46
46:BP:57:THR:C	46:BP:59:LEU:H	2.17	0.46
35:DA:2762:G:C3'	35:DA:2763:G:C5'	2.93	0.46
1:AA:1271:G:H2'	1:AA:1272:G:O4'	2.15	0.46
35:BA:919:G:N2	35:BA:2269:A:OP2	2.44	0.46
35:BA:201:C:H2'	35:BA:202:U:H5'	1.98	0.46
35:BA:1550:C:H2'	35:BA:1551:C:C6	2.40	0.46
35:DA:227:A:C2	35:DA:2407:G:C1'	2.97	0.46
1:CA:303:A:P	12:CL:17:LYS:HE3	2.56	0.46
53:BW:44:ALA:O	53:BW:48:ALA:N	2.44	0.46
1:AA:1511:G:C2'	1:AA:1512:U:H5'	2.45	0.46
10:AJ:31:GLY:HA3	10:AJ:78:ASN:ND2	2.31	0.46
1:AA:929:G:C2'	1:AA:930:C:H5'	2.46	0.46
53:DW:48:ALA:O	53:DW:49:LYS:C	2.53	0.46
1:AA:302:G:H2'	1:AA:303:A:O4'	2.16	0.46
17:AQ:10:VAL:CG1	17:AQ:53:LEU:HA	2.45	0.46
1:AA:670:G:H2'	1:AA:671:G:O4'	2.15	0.46
1:CA:189(I):G:H2'	1:CA:189(J):G:H8	1.80	0.46
41:BG:14:GLU:O	41:BG:18:GLU:HB3	2.15	0.46
7:CG:39:ALA:O	7:CG:41:ARG:N	2.49	0.46
26:B0:72:ARG:CD	26:B0:75:LEU:HD13	2.42	0.46
1:AA:761:G:H2'	1:AA:762:C:C6	2.51	0.46
35:BA:1435:G:H2'	35:BA:1436:G:O4'	2.16	0.46
35:BA:2556:C:H2'	35:BA:2557:G:O4'	2.16	0.46
35:BA:1839:G:C5	35:BA:1840:G:N7	2.84	0.46
35:BA:1490:A:H2	38:BD:75:ILE:HD12	1.81	0.46
35:BA:1668:A:C8	35:BA:1674:G:C6	3.04	0.46
2:AB:114:ARG:HH11	2:AB:118:LEU:HD23	1.81	0.46
35:BA:2251:G:H2'	35:BA:2252:G:O4'	2.16	0.46
35:DA:1371:G:H8	35:DA:1371:G:O5'	1.98	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:23:C:C2'	1:CA:24:U:H5'	2.46	0.46
35:DA:733:G:O6	35:DA:761:A:N7	2.49	0.46
35:BA:641:C:H2'	35:BA:642:G:O4'	2.16	0.46
3:CC:159:GLY:O	3:CC:160:ALA:C	2.54	0.46
35:BA:1305:C:O2'	35:BA:1306:C:H5'	2.15	0.46
9:AI:25:LYS:HG3	9:AI:25:LYS:O	2.16	0.46
35:BA:822:U:H2'	35:BA:822:U:O2	2.16	0.46
35:DA:954:G:OP1	47:DQ:15:GLY:N	2.48	0.46
35:DA:2865:U:H3'	35:DA:2866:U:O2	2.16	0.46
45:DO:59:LYS:O	45:DO:86:ILE:HG23	2.16	0.46
45:DO:62:VAL:CG1	45:DO:65:THR:HG22	2.46	0.46
45:DO:64:ARG:HD3	45:DO:101:PRO:C	2.36	0.46
35:BA:1800:C:C4	35:BA:1818:U:O2	2.69	0.46
38:DD:16:MET:HG3	38:DD:206:LEU:O	2.15	0.46
41:DG:114:ILE:HG13	41:DG:117:PHE:CB	2.46	0.46
41:DG:144:ILE:HD12	41:DG:145:THR:N	2.28	0.46
35:BA:1665:A:C2'	35:BA:1666:G:H5'	2.46	0.46
45:BO:43:VAL:HG11	45:BO:46:ALA:HB2	1.98	0.46
50:BT:31:SER:O	50:BT:32:TYR:O	2.34	0.46
39:BE:9:VAL:HG23	50:BT:8:LYS:HB2	1.97	0.46
56:BZ:128:VAL:HG22	56:BZ:129:SER:N	2.31	0.46
56:BZ:5:LEU:HB2	56:BZ:59:LEU:CD2	2.45	0.46
35:BA:1011:G:OP2	51:BU:70:ARG:NH2	2.49	0.46
42:DH:130:ARG:CB	42:DH:130:ARG:HH11	2.29	0.46
54:BX:83:VAL:HG23	54:BX:83:VAL:O	2.16	0.46
35:BA:2206:G:N2	35:BA:2207:G:C5'	2.73	0.46
35:BA:2220:G:C4	35:BA:2221:G:C8	3.03	0.46
41:BG:113:ARG:O	41:BG:114:ILE:CG1	2.64	0.46
41:BG:169:ALA:C	41:BG:173:LEU:HD23	2.37	0.46
54:DX:37:THR:HG23	54:DX:54:VAL:HB	1.98	0.46
35:DA:2419:U:H2'	35:DA:2420:C:H6	1.80	0.46
41:BG:27:ASN:ND2	41:BG:29:TRP:H	2.14	0.46
1:AA:1049:U:O2'	1:AA:1050:G:OP2	2.29	0.46
3:AC:150:LYS:O	3:AC:201:TYR:N	2.45	0.46
47:DQ:53:ALA:CA	47:DQ:56:ARG:HB3	2.45	0.46
3:CC:109:PRO:HA	3:CC:115:LEU:HD12	1.97	0.46
49:BS:56:LEU:O	49:BS:57:LYS:HB3	2.16	0.46
1:CA:544:G:H2'	1:CA:545:C:H6	1.79	0.46
4:CD:148:VAL:HG21	4:CD:181:MET:HB2	1.98	0.46
4:CD:30:LYS:HA	4:CD:35:ARG:HD2	1.98	0.46
46:BP:16:ARG:O	46:BP:18:ARG:N	2.49	0.46
35:BA:2571:C:H5'	35:BA:2572:A:C5'	2.46	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2577:A:H5''	35:BA:2578:G:C5'	2.42	0.46
39:BE:120:TRP:O	39:BE:121:ASN:C	2.53	0.46
35:DA:2415:G:C4'	46:DP:66:GLY:HA3	2.44	0.46
27:B1:37:ILE:CD1	27:B1:37:ILE:H	2.11	0.46
35:BA:1223:G:C5	35:BA:1225:G:OP2	2.68	0.46
35:BA:1259:G:H2'	35:BA:1260:G:C8	2.50	0.46
35:BA:811:U:H1'	35:BA:1251:C:H5''	1.96	0.46
20:AT:74:LYS:CG	20:AT:75:ASN:H	2.28	0.46
35:BA:2714:G:C5	35:BA:2715:C:C4	3.04	0.46
49:DS:101:LEU:HD21	49:DS:103:GLU:HG3	1.97	0.46
49:DS:95:HIS:O	49:DS:98:VAL:HG23	2.16	0.46
44:DN:29:LYS:C	44:DN:31:ALA:H	2.19	0.46
15:CO:66:LEU:O	15:CO:67:LEU:C	2.54	0.46
40:DF:51:THR:HG23	40:DF:92:PRO:HG2	1.98	0.46
52:DV:82:ARG:NH1	52:DV:84:LYS:HD3	2.31	0.46
4:AD:13:ARG:NH1	4:AD:40:PRO:HA	2.30	0.46
18:AR:72:ARG:O	18:AR:75:ILE:N	2.43	0.46
1:CA:778:G:H2'	1:CA:779:C:O4'	2.15	0.46
1:CA:794:A:O2'	1:CA:795:C:H5'	2.16	0.46
1:CA:1236:A:H4'	1:CA:1304:G:H4'	1.97	0.46
1:CA:1227:A:O2'	13:CM:115:LYS:HB2	2.16	0.46
1:AA:374:A:C6	1:AA:375:U:C4	3.04	0.46
25:AY:29:ARG:NH1	25:AY:110:ARG:NH2	2.64	0.46
53:BW:73:ALA:HB3	53:BW:106:ILE:CD1	2.28	0.46
17:CQ:29:HIS:CE1	17:CQ:31:LEU:H	2.33	0.46
42:BH:25:LYS:HB3	42:BH:32:GLU:OE2	2.15	0.46
25:AY:149:LEU:HB3	25:AY:153:GLU:CB	2.46	0.46
6:AF:54:LYS:O	6:AF:56:PRO:HD3	2.15	0.46
11:AK:102:GLY:O	11:AK:103:LEU:O	2.34	0.46
18:AR:87:ARG:HB3	18:AR:87:ARG:HH11	1.77	0.46
35:BA:1426:G:C6	35:BA:1427:A:N1	2.84	0.46
19:AS:40:ILE:HD13	19:AS:62:ILE:CD1	2.45	0.46
35:DA:2261:C:C2	35:DA:2280:G:C2	3.04	0.46
43:BI:94:ALA:HA	43:BI:97:ILE:HG13	1.96	0.46
35:BA:109:G:O2'	35:BA:110:G:H5'	2.15	0.46
22:AV:37:A:C8	22:AV:38:U:C5	3.04	0.46
23:AW:38:A:H2'	23:AW:39:A:H5'	1.98	0.46
13:AM:97:PRO:O	13:AM:98:VAL:N	2.49	0.46
35:DA:661:C:H2'	35:DA:662:G:H8	1.77	0.46
8:AH:114:THR:CG2	8:AH:117:GLY:O	2.64	0.46
8:AH:127:LEU:HD12	8:AH:129:VAL:HG13	1.97	0.46
1:AA:197:A:N6	1:AA:221:C:H5'	2.31	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AE:20:GLN:O	5:AE:23:GLY:O	2.34	0.46
25:CY:79:ILE:O	25:CY:82:ALA:HB3	2.16	0.46
1:CA:1118:C:P	9:CI:104:ARG:HG3	2.56	0.46
8:AH:49:GLU:HG2	8:AH:62:TYR:HE2	1.81	0.46
8:AH:51:VAL:HG11	8:AH:60:ARG:CG	2.46	0.46
9:AI:89:ASN:HB3	9:AI:92:TYR:CD1	2.51	0.46
35:BA:2473:U:O2	35:BA:2473:U:C2'	2.64	0.46
35:DA:2120:G:O2'	35:DA:2121:G:H5'	2.16	0.46
1:CA:377:G:O2'	1:CA:378:G:H5'	2.15	0.46
38:DD:123:ALA:HB3	38:DD:131:LEU:HD23	1.98	0.46
35:BA:2883:A:H5'	35:BA:2884:U:H5'	1.98	0.46
2:AB:173:ALA:O	2:AB:174:VAL:C	2.54	0.46
1:CA:678:U:H3	1:CA:713:G:N2	2.14	0.46
1:CA:1423:G:N3	1:CA:1424:C:C6	2.84	0.46
26:D0:36:ILE:HA	26:D0:60:PHE:HB3	1.97	0.46
1:CA:62:U:H5''	1:CA:385:C:O2	2.16	0.46
3:CC:87:LEU:CB	3:CC:101:LEU:HD11	2.46	0.46
1:CA:577:G:C8	1:CA:816:A:C6	3.04	0.46
35:DA:1946:U:HO2'	35:DA:1947:C:H5'	1.81	0.46
35:BA:447:A:N3	35:BA:473:G:C8	2.84	0.46
35:BA:2355:C:C4	35:BA:2356:C:C4	3.04	0.46
1:AA:895:G:C6	1:AA:896:C:N4	2.84	0.46
35:BA:737:C:C2'	35:BA:738:G:O5'	2.63	0.46
13:CM:13:LYS:O	13:CM:45:VAL:HG23	2.16	0.46
1:AA:726:C:H2'	1:AA:727:G:H8	1.81	0.46
1:AA:1405:G:H1	1:AA:1496:C:H42	1.64	0.46
1:AA:1097:C:H2'	1:AA:1098:C:H6	1.79	0.46
1:CA:1095:U:H5'	1:CA:1109:C:O2	2.15	0.46
31:B5:42:PRO:C	31:B5:43:HIS:HD2	2.20	0.46
35:BA:2193:G:C4	35:BA:2194:G:C8	3.04	0.46
35:BA:2194:G:C4	35:BA:2195:C:C5	3.04	0.46
17:CQ:82:MET:HA	17:CQ:85:VAL:HG23	1.97	0.46
35:BA:286:C:C2'	35:BA:286:C:O2	2.60	0.46
35:DA:2773:C:OP1	39:DE:164:ARG:HG2	2.15	0.46
35:BA:2008:C:H2'	35:BA:2009:G:C8	2.51	0.46
44:BN:13:TRP:O	44:BN:135:PRO:HD2	2.15	0.46
1:CA:1295:G:O2'	13:CM:14:ARG:NH1	2.48	0.46
35:DA:1406:U:C3'	35:DA:1407:C:H6	2.29	0.46
17:CQ:12:SER:HA	17:CQ:14:LYS:NZ	2.30	0.46
10:AJ:3:LYS:O	10:AJ:100:THR:HA	2.15	0.46
53:DW:66:GLU:HA	53:DW:69:LEU:HD21	1.96	0.46
35:DA:884:C:H4'	35:DA:892:G:N7	2.30	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
7:AG:42:ILE:HG23	7:AG:117:ALA:HA	1.97	0.46
35:BA:2842:G:C6	35:BA:2876:G:C6	3.04	0.46
1:CA:1002:G:H2'	1:CA:1003:G:O4'	2.16	0.46
35:BA:304:G:H1	35:BA:313:C:N4	2.11	0.46
35:DA:2839:G:H1'	48:DR:93:GLY:H	1.80	0.46
11:AK:86:GLY:N	11:AK:112:THR:OG1	2.48	0.46
1:CA:651:C:H2'	1:CA:652:U:H6	1.81	0.46
35:BA:1553:A:N7	35:BA:1555:G:C5	2.83	0.46
35:BA:701:G:O2'	35:BA:702:G:H5'	2.15	0.46
35:BA:1662:C:O2'	35:BA:2687:U:OP1	2.34	0.46
1:CA:789:U:O2	1:CA:789:U:H2'	2.16	0.46
35:BA:433:C:H2'	35:BA:434:U:C6	2.51	0.46
35:DA:210:C:H2'	35:DA:211:A:C8	2.51	0.46
37:BC:51:PRO:O	37:BC:52:ARG:HB2	2.16	0.46
35:DA:451:C:H41	35:DA:453:C:H3'	1.80	0.46
35:DA:2792:G:H2'	35:DA:2792:G:N3	2.30	0.46
1:AA:1001:A:H2	1:AA:1001(A):G:O6	1.98	0.46
1:AA:1011:G:O2'	1:AA:1012:U:H5'	2.16	0.46
1:CA:1111:A:N1	3:CC:177:THR:OG1	2.44	0.46
35:DA:764:A:N1	35:DA:781:A:C2	2.84	0.46
1:CA:411:A:H2'	1:CA:412:A:H4'	1.97	0.46
53:BW:28:SER:O	53:BW:29:LEU:C	2.52	0.46
55:DY:46:LYS:C	55:DY:47:LYS:HD2	2.36	0.46
50:DT:113:LYS:C	50:DT:114:LEU:HD23	2.35	0.46
50:DT:53:ARG:NE	50:DT:60:THR:OG1	2.49	0.46
43:BI:85:GLU:O	43:BI:86:THR:O	2.34	0.46
41:DG:14:GLU:HG2	41:DG:15:VAL:N	2.30	0.46
1:AA:774:G:H1	1:AA:805:C:N4	2.13	0.46
35:BA:1819:A:H5''	38:BD:161:THR:CG2	2.46	0.46
1:CA:16:A:C2	1:CA:17:U:C5	3.04	0.46
1:CA:918:A:H2'	1:CA:919:A:C8	2.51	0.46
38:DD:211:ARG:NH1	38:DD:211:ARG:HG2	2.31	0.46
35:DA:2312:U:H2'	35:DA:2313:C:C5'	2.43	0.46
41:DG:131:TYR:O	41:DG:159:VAL:CG2	2.64	0.46
41:DG:35:GLU:HB3	41:DG:160:VAL:HG11	1.98	0.46
45:BO:14:THR:HG21	45:BO:86:ILE:CG1	2.46	0.46
50:BT:52:ILE:CG2	50:BT:61:PHE:HB2	2.44	0.46
56:BZ:127:LYS:HB2	56:BZ:164:ALA:HB2	1.96	0.46
39:BE:179:GLU:O	39:BE:180:ASN:HB3	2.16	0.46
39:BE:83:ASP:O	39:BE:84:PHE:HB2	2.16	0.46
35:BA:1152:C:O2'	35:BA:1153:C:H5'	2.15	0.46
27:B1:47:GLN:C	27:B1:47:GLN:NE2	2.69	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:BG:68:PRO:HA	41:BG:92:VAL:HB	1.98	0.46
28:D2:15:LYS:O	28:D2:17:SER:N	2.49	0.46
35:BA:2598:A:H5''	38:BD:236:GLY:CA	2.42	0.46
42:BH:85:LYS:HD3	42:BH:133:VAL:HB	1.98	0.46
47:DQ:28:ALA:HB3	47:DQ:105:GLU:OE2	2.15	0.46
56:DZ:53:ILE:HG22	56:DZ:71:VAL:HG23	1.97	0.46
44:DN:46:VAL:CG1	44:DN:47:ALA:H	1.99	0.46
35:DA:995:C:C2	51:DU:57:PHE:HE2	2.33	0.46
14:AN:3:ARG:O	14:AN:7:ILE:HG23	2.16	0.46
47:DQ:50:ALA:O	47:DQ:54:MET:CB	2.64	0.46
49:BS:25:ARG:HD3	49:BS:42:ASP:OD2	2.16	0.46
49:BS:87:PHE:CZ	49:BS:97:ARG:NH2	2.83	0.46
1:CA:407:G:O2'	4:CD:116:GLN:HG3	2.16	0.46
4:CD:61:LYS:HA	4:CD:203:VAL:CG2	2.31	0.46
47:BQ:20:ALA:HA	47:BQ:98:LYS:HD3	1.98	0.46
25:AY:70:SER:HB3	25:AY:76:LEU:HB2	1.97	0.46
35:DA:394:A:H2'	35:DA:395:U:H5'	1.97	0.46
34:B8:52:LYS:HE3	34:B8:52:LYS:CA	2.43	0.46
39:DE:115:GLY:HA2	39:DE:157:ALA:CB	2.45	0.46
48:DR:88:ARG:NH2	48:DR:89:ASP:OD1	2.48	0.46
35:BA:1281:G:H2'	35:BA:1282:U:H6	1.81	0.46
48:BR:17:ARG:CG	48:BR:17:ARG:NH1	2.76	0.46
48:BR:38:VAL:CB	48:BR:39:PRO:HD3	2.34	0.46
35:BA:2845:G:H5''	50:BT:55:ASN:HA	1.98	0.46
2:CB:83:MET:O	2:CB:86:GLU:N	2.49	0.46
2:AB:165:VAL:CG2	2:AB:166:ASP:N	2.58	0.46
2:AB:36:ARG:HB3	2:AB:41:ILE:CD1	2.42	0.46
35:DA:2240:C:O2'	35:DA:2241:A:H5'	2.16	0.46
2:CB:178:ARG:HH11	2:CB:178:ARG:CG	2.28	0.46
2:CB:54:THR:HG21	2:CB:201:ILE:CD1	2.44	0.46
34:D8:52:LYS:HE3	34:D8:52:LYS:CA	2.43	0.46
35:DA:1214:A:H2'	35:DA:1215:G:C8	2.51	0.46
4:AD:24:GLU:O	4:AD:27:TYR:HB2	2.15	0.46
19:AS:36:ARG:HB3	19:AS:36:ARG:NH1	2.31	0.46
35:DA:105:C:H5'	35:DA:106:C:OP2	2.15	0.46
4:AD:13:ARG:CG	4:AD:14:ARG:H	2.28	0.46
4:AD:13:ARG:HG2	4:AD:14:ARG:H	1.81	0.46
4:AD:65:ARG:NH1	4:AD:72:GLU:CA	2.78	0.46
43:DI:69:LYS:C	43:DI:71:ILE:H	2.19	0.46
35:DA:1916:A:H5'	35:DA:1917:U:OP2	2.15	0.46
35:DA:571:A:H5''	35:DA:2030:A:H62	1.78	0.46
25:CY:3:LEU:O	25:CY:4:LYS:C	2.53	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:746:A:C5	35:BA:2611:U:H5''	2.51	0.46
16:CP:23:ASP:OD2	16:CP:25:ARG:NH2	2.49	0.46
1:CA:182:U:H2'	1:CA:183:G:O4'	2.16	0.46
25:AY:114:LEU:CD2	25:AY:183:ILE:HG23	2.46	0.46
25:AY:32:ARG:HH21	25:AY:88:LEU:HG	1.81	0.46
42:BH:43:VAL:HB	42:BH:51:ARG:O	2.16	0.46
11:AK:73:MET:SD	11:AK:103:LEU:HD13	2.56	0.46
11:AK:60:ALA:O	11:AK:61:ALA:C	2.54	0.46
11:AK:72:ALA:HB1	11:AK:77:MET:HE3	1.97	0.46
11:AK:73:MET:HA	11:AK:77:MET:HB3	1.98	0.46
33:B7:24:THR:O	33:B7:28:ARG:HG3	2.16	0.46
35:DA:2263:C:O2'	35:DA:2264:C:H5'	2.16	0.46
55:BY:42:VAL:CB	55:BY:65:ALA:HB3	2.46	0.46
7:AG:149:ARG:HB3	11:AK:59:TYR:CE2	2.51	0.46
13:AM:91:ARG:HB2	13:AM:98:VAL:HG22	1.96	0.46
20:AT:98:PRO:O	20:AT:100:ILE:N	2.49	0.46
42:BH:19:VAL:CG1	42:BH:44:VAL:HG22	2.46	0.46
1:AA:1396:A:H4'	1:AA:1398:A:H1'	1.97	0.46
1:AA:1080:A:C5'	5:AE:16:THR:HG21	2.46	0.46
1:CA:1349:A:H3'	9:CI:118:LYS:CE	2.34	0.46
56:DZ:110:GLY:O	56:DZ:111:VAL:HG12	2.16	0.46
9:CI:28:VAL:HG22	9:CI:63:ILE:O	2.15	0.46
9:CI:4:TYR:HA	9:CI:88:TYR:CE1	2.51	0.46
5:CE:147:ASP:O	5:CE:151:LEU:HG	2.16	0.46
38:BD:117:VAL:CG2	38:BD:118:VAL:N	2.75	0.46
38:BD:172:TYR:CD1	38:BD:186:HIS:CA	2.94	0.46
46:BP:101:VAL:O	46:BP:103:ALA:N	2.49	0.46
46:BP:131:SER:O	46:BP:135:LEU:N	2.49	0.46
40:BF:167:ALA:HB1	40:BF:173:VAL:CG1	2.46	0.46
35:BA:2605:U:H2'	35:BA:2606:C:C6	2.51	0.46
1:CA:685:G:H21	1:CA:686:U:H3	1.63	0.46
53:BW:14:PRO:O	53:BW:15:ARG:C	2.54	0.46
35:DA:2732:G:H2'	35:DA:2733:A:H5'	1.96	0.46
1:AA:1075:C:H5'	2:AB:103:THR:HG21	1.98	0.46
35:DA:374:A:H2'	35:DA:375:C:H5'	1.98	0.46
1:AA:932:C:H4'	7:AG:4:ARG:NH2	2.31	0.46
40:DF:9:ILE:HG23	40:DF:14:PRO:HA	1.98	0.46
20:CT:26:ASN:O	20:CT:27:LYS:C	2.54	0.46
1:AA:116:A:H61	1:AA:313:A:H1'	1.80	0.46
5:CE:101:ILE:HG12	5:CE:118:ILE:O	2.16	0.46
3:AC:178:LEU:H	3:AC:178:LEU:HD22	1.81	0.46
1:CA:728:A:C2	1:CA:729:A:C5	3.04	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:467:G:H2'	35:BA:468:G:C8	2.40	0.46
29:B3:11:SER:OG	29:B3:12:PRO:HD2	2.16	0.46
35:DA:1710:C:O2'	35:DA:1711:C:H5'	2.16	0.46
1:AA:854:G:OP2	1:AA:871:U:C5	2.69	0.46
35:DA:1644:C:C2'	35:DA:1645:G:H5'	2.46	0.46
36:BB:66:A:C2	36:BB:109:C:C2	3.04	0.46
1:CA:893:C:H2'	1:CA:894:G:H8	1.81	0.46
1:CA:343:U:O2'	1:CA:344:A:H2'	2.16	0.46
23:CW:34:U:O2'	23:CW:36:A:N7	2.45	0.46
31:D5:42:PRO:C	31:D5:43:HIS:CD2	2.89	0.46
35:DA:2193:G:C4	35:DA:2194:G:C8	3.04	0.46
1:AA:29:G:H5'	1:AA:296:U:OP1	2.16	0.46
1:CA:136:C:H42	1:CA:227:G:H1	1.64	0.46
1:AA:818:G:C3'	1:AA:819:A:C5'	2.91	0.46
1:AA:819:A:C8	1:AA:1529:G:N1	2.83	0.46
35:BA:552:G:H1'	35:BA:1220:A:C2	2.51	0.46
35:BA:1853:A:N1	35:BA:2087:G:H1'	2.30	0.46
35:BA:1331:A:H2'	35:BA:1333:C:H5	1.81	0.46
35:BA:1387:C:C5'	35:BA:1469:A:H4'	2.46	0.46
35:BA:1467:C:N4	35:BA:1525:G:H1	2.14	0.46
1:CA:474:G:O2'	1:CA:475:G:H5'	2.16	0.46
45:BO:19:ILE:HG22	45:BO:42:SER:C	2.36	0.46
1:CA:829:G:H2'	1:CA:830:G:C8	2.51	0.46
55:BY:84:ARG:O	55:BY:85:VAL:HG22	2.16	0.46
35:BA:1130:U:O2	35:BA:2025:C:H5''	2.15	0.46
43:BI:42:SER:C	43:BI:44:LEU:N	2.69	0.46
35:BA:1021:A:C3'	35:BA:1021:A:C8	2.99	0.46
12:AL:104:VAL:HG12	12:AL:105:TYR:N	2.30	0.46
35:DA:790:C:H4'	35:DA:790:C:OP1	2.16	0.46
35:DA:1360:A:C5	35:DA:1372:U:C4	3.04	0.46
1:AA:517:G:N3	1:AA:531:U:H5'	2.31	0.46
35:BA:1831:G:H2'	35:BA:1832:C:H6	1.81	0.46
35:BA:1479:G:H2'	35:BA:1480:G:O4'	2.15	0.46
36:DB:63:G:N3	36:DB:63:G:H2'	2.31	0.46
35:BA:134:C:O2'	35:BA:135:G:H5'	2.15	0.46
35:BA:2362:G:O2'	35:BA:2363:C:H5'	2.15	0.46
56:BZ:47:VAL:O	56:BZ:51:ALA:HB3	2.15	0.46
50:BT:17:THR:O	50:BT:18:ASP:HB3	2.16	0.46
35:DA:2683:C:O2'	35:DA:2684:U:H5'	2.16	0.46
45:DO:68:GLU:HB3	45:DO:78:ARG:CD	2.46	0.46
45:DO:71:ARG:HH12	50:DT:74:ARG:HH22	1.63	0.46
50:DT:105:LEU:O	50:DT:113:LYS:NZ	2.49	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1803:A:C8	35:BA:1804:C:C5	3.03	0.46
38:BD:233:HIS:O	38:BD:234:GLY:C	2.54	0.46
38:DD:61:LEU:HD12	38:DD:62:TYR:N	2.31	0.46
35:BA:2287:A:C2	35:BA:2289:G:C8	3.04	0.46
47:DQ:127:ILE:HG22	47:DQ:128:LYS:N	2.21	0.46
35:BA:1675:C:C2	39:BE:129:HIS:CD2	3.04	0.46
35:BA:2684:U:C2'	35:BA:2685:G:H5'	2.46	0.46
45:BO:31:LYS:HD2	45:BO:32:TYR:CE1	2.49	0.46
35:BA:1666:G:O3'	45:BO:6:THR:HG23	2.14	0.46
16:AP:19:ILE:HB	16:AP:37:GLY:C	2.35	0.46
56:BZ:94:GLU:HA	56:BZ:95:PRO:HD2	1.83	0.46
39:BE:4:ILE:HG12	39:BE:28:ALA:HB1	1.96	0.46
35:DA:1494:A:C3'	35:DA:1494:A:N3	2.73	0.46
35:DA:1494:A:O2'	35:DA:1495:A:H5''	2.16	0.46
42:DH:162:ILE:C	42:DH:163:TYR:CD1	2.89	0.46
1:AA:972:C:C4'	10:AJ:57:LYS:HG3	2.44	0.46
28:B2:26:ARG:NH2	54:BX:6:ASP:HA	2.31	0.46
28:B2:51:ARG:HE	28:B2:55:ARG:NH1	2.14	0.46
35:BA:58:G:H1	35:BA:69:C:N4	2.14	0.46
35:DA:2633:G:N2	35:DA:2634:G:H1'	2.31	0.46
27:B1:46:LEU:N	27:B1:46:LEU:CD1	2.74	0.46
27:B1:48:LYS:HA	27:B1:48:LYS:HE3	1.97	0.46
41:BG:37:VAL:HG12	41:BG:94:LEU:HD12	1.98	0.46
35:DA:1346:G:H1	35:DA:1600:C:H42	1.65	0.46
28:D2:26:ARG:CD	54:DX:5:TYR:HB3	2.45	0.46
42:BH:92:ILE:O	42:BH:94:TYR:N	2.48	0.46
56:DZ:166:SER:OG	56:DZ:169:GLU:HB3	2.15	0.46
51:DU:78:THR:C	51:DU:80:ILE:H	2.19	0.46
52:DV:3:ALA:HB3	52:DV:14:VAL:CB	2.45	0.46
1:CA:434:U:H2'	1:CA:435:C:N1	2.31	0.46
4:CD:72:GLU:O	4:CD:76:ARG:N	2.44	0.46
43:DI:119:PRO:O	43:DI:121:LYS:N	2.48	0.46
35:BA:598:G:C6	35:BA:660:G:C6	3.04	0.46
35:DA:245:G:H5'	46:DP:70:GLN:H	1.80	0.46
35:BA:2052:G:N2	39:BE:149:ARG:HA	2.30	0.46
46:DP:64:LYS:HB3	46:DP:65:ARG:H	1.56	0.46
35:BA:588:U:H1'	40:BF:90:PHE:HB3	1.97	0.46
40:BF:53:THR:HG23	40:BF:56:GLU:CB	2.28	0.46
35:BA:814:C:OP1	52:BV:84:LYS:HA	2.16	0.46
40:DF:112:MET:O	40:DF:113:ALA:C	2.55	0.46
55:BY:76:CYS:HB3	55:BY:96:ILE:CD1	2.44	0.46
35:BA:2820:A:C8	39:BE:191:PRO:CB	2.99	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:106:C:O2'	1:AA:107:G:H5'	2.16	0.46
20:AT:43:LEU:HA	20:AT:46:GLU:HB3	1.97	0.46
35:BA:1288:U:C2	35:BA:1327:C:O2	2.69	0.46
35:BA:1653:G:O2'	35:BA:1654:A:OP2	2.28	0.46
2:AB:69:LEU:HB2	2:AB:162:ILE:HG22	1.98	0.46
35:DA:2533:A:C3'	35:DA:2534:A:H5''	2.44	0.46
35:DA:198:C:H6	35:DA:198:C:O5'	1.99	0.46
44:DN:17:ASP:OD1	44:DN:56:ASN:HB3	2.16	0.46
44:BN:122:VAL:HG12	44:BN:123:TYR:N	2.30	0.46
44:BN:28:THR:HG22	44:BN:29:LYS:N	2.31	0.46
44:BN:17:ASP:OD1	44:BN:56:ASN:HB3	2.16	0.46
15:CO:39:LEU:O	15:CO:42:HIS:HB3	2.15	0.46
18:CR:37:VAL:O	18:CR:40:LEU:N	2.49	0.46
1:AA:984:C:H2'	1:AA:985:C:C6	2.51	0.46
1:AA:544:G:C4	1:AA:545:C:C5	3.03	0.46
47:DQ:86:GLY:C	47:DQ:88:GLY:H	2.20	0.46
2:AB:115:LEU:HD21	2:AB:153:ARG:NE	2.31	0.46
1:CA:1305:G:H5'	21:CU:4:GLY:CA	2.39	0.46
12:CL:27:LEU:C	12:CL:29:GLY:N	2.69	0.46
20:CT:98:PRO:O	20:CT:100:ILE:N	2.49	0.46
25:AY:61:PRO:HD2	25:AY:65:THR:C	2.36	0.46
25:AY:84:ARG:C	25:AY:86:SER:N	2.69	0.46
1:AA:1016:A:H2'	1:AA:1017:G:H5'	1.97	0.46
25:AY:6:LEU:O	25:AY:9:GLU:N	2.48	0.46
53:BW:4:LYS:HA	53:BW:106:ILE:HA	1.98	0.46
1:CA:583:A:H2'	1:CA:584:G:C8	2.51	0.46
35:BA:1131:G:C2	35:BA:1132:A:C5	3.04	0.46
33:B7:16:HIS:HD1	33:B7:21:ARG:NH2	2.14	0.46
35:BA:774:A:HO2'	35:BA:775:G:H8	1.63	0.46
43:BI:110:ASP:O	43:BI:114:LEU:HG	2.15	0.46
7:AG:84:ASN:HB2	23:AW:33:C:O2'	2.16	0.46
23:AW:40:C:H2'	23:AW:41:C:H6	1.80	0.46
13:AM:89:GLY:O	13:AM:90:LEU:O	2.34	0.46
35:BA:926:A:C4	35:BA:927:G:C8	3.04	0.46
40:BF:132:VAL:O	40:BF:133:ASN:C	2.54	0.46
2:CB:142:LEU:HD23	2:CB:142:LEU:C	2.36	0.46
2:CB:142:LEU:O	2:CB:142:LEU:HD23	2.16	0.46
3:CC:172:ARG:NH1	3:CC:174:PRO:HG2	2.31	0.46
12:AL:90:VAL:CG1	12:AL:93:LEU:HG	2.44	0.46
8:CH:26:VAL:CG2	8:CH:32:LYS:NZ	2.73	0.46
57:DC:35:ALA:O	57:DC:36:LYS:HE3	2.15	0.46
9:CI:27:THR:C	9:CI:28:VAL:HG23	2.37	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:CI:37:PHE:CZ	9:CI:74:ILE:HG12	2.51	0.46
46:DP:126:VAL:CA	46:DP:145:PRO:HG2	2.45	0.46
5:CE:147:ASP:C	5:CE:150:ARG:HB3	2.37	0.46
56:BZ:140:ASP:OD2	56:BZ:140:ASP:N	2.49	0.46
35:BA:627:A:H8	35:BA:627:A:OP1	1.99	0.46
1:CA:374:A:C6	1:CA:375:U:C4	3.04	0.46
54:BX:18:TYR:O	54:BX:21:PHE:HB2	2.15	0.46
1:AA:777:A:H2'	1:AA:778:G:C8	2.51	0.46
46:BP:75:ILE:HD13	46:BP:77:ARG:NH2	2.30	0.46
35:BA:1271:G:N2	35:BA:1617:C:C4'	2.79	0.46
35:BA:2884:U:C2'	35:BA:2885:C:H5'	2.46	0.46
35:DA:2205:C:H1'	35:DA:2220:G:N2	2.31	0.46
29:D3:7:LYS:O	29:D3:9:VAL:HG13	2.16	0.46
23:AW:16:C:H4'	23:AW:20:G:OP1	2.16	0.46
7:AG:64:GLN:O	7:AG:66:VAL:N	2.49	0.46
35:DA:49:A:OP2	35:DA:50:U:H3'	2.16	0.46
35:BA:1578:U:C2'	35:BA:1579:A:H5''	2.46	0.46
17:CQ:15:MET:HG2	17:CQ:16:GLN:N	2.31	0.46
3:CC:88:ARG:HG2	3:CC:101:LEU:CB	2.45	0.46
3:AC:84:ILE:CA	3:AC:87:LEU:HD12	2.40	0.46
35:BA:2637:U:H1'	35:BA:2782:G:N2	2.30	0.46
25:CY:107:THR:OG1	25:CY:108:GLU:N	2.48	0.46
25:CY:107:THR:HA	25:CY:111:ARG:NH1	2.31	0.46
36:BB:78:A:H2'	36:BB:79:C:O4'	2.16	0.46
29:B3:29:ARG:O	29:B3:30:ARG:C	2.54	0.46
53:BW:17:VAL:O	53:BW:20:VAL:CG2	2.64	0.46
8:CH:53:VAL:HG12	8:CH:54:ASP:OD2	2.16	0.46
48:BR:103:ARG:HB3	48:BR:109:ALA:O	2.15	0.46
1:AA:1466:C:H2'	1:AA:1467:G:C8	2.51	0.46
35:BA:2073:C:H2'	35:BA:2074:U:H6	1.81	0.46
1:CA:1243:C:OP2	21:CU:10:ARG:NH1	2.49	0.46
35:DA:2008:C:H2'	35:DA:2009:G:C8	2.50	0.46
40:DF:126:VAL:O	40:DF:127:GLU:HB2	2.15	0.46
33:D7:48:LYS:CD	33:D7:48:LYS:N	2.78	0.46
23:CW:14:A:H2'	23:CW:15:G:H5'	1.98	0.46
35:BA:979:G:N2	35:BA:985:C:N4	2.64	0.46
1:CA:769:G:H1	1:CA:810:C:H42	1.64	0.46
35:DA:2087:G:C2'	35:DA:2088:G:H5'	2.46	0.46
1:CA:670:G:H2'	1:CA:671:G:O4'	2.16	0.46
43:DI:28:ASN:C	43:DI:32:PRO:HG2	2.35	0.46
43:DI:29:TYR:CD2	43:DI:30:LEU:HD23	2.51	0.46
1:AA:1030(C):G:N7	1:AA:1031:G:N2	2.64	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BE:93:VAL:C	39:BE:95:ILE:N	2.67	0.46
35:BA:1444:G:N2	35:BA:1548:C:C2	2.83	0.46
1:CA:1019:C:H2'	1:CA:1020:U:O4'	2.16	0.46
3:CC:94:LEU:HD12	3:CC:95:THR:N	2.31	0.46
35:BA:372:G:O2'	35:BA:373:U:P	2.74	0.46
35:DA:2068:U:N3	35:DA:2430:A:C2	2.80	0.46
1:AA:1494:G:C5'	35:BA:1913:A:C6	2.99	0.46
35:BA:118:A:H1'	35:BA:178:G:O4'	2.16	0.46
1:AA:1333:A:H2'	1:AA:1334:G:O4'	2.16	0.46
35:DA:1164:G:C6	35:DA:1165:U:C4	3.03	0.46
2:CB:221:LEU:HD13	2:CB:221:LEU:C	2.37	0.46
9:CI:99:LEU:O	9:CI:100:GLY:C	2.54	0.46
35:DA:1692:U:H2'	35:DA:1694:C:C5	2.51	0.46
35:DA:954:G:N3	35:DA:954:G:H2'	2.30	0.46
4:CD:167:GLY:O	4:CD:168:ARG:C	2.55	0.46
9:AI:99:LEU:O	9:AI:100:GLY:C	2.54	0.46
55:DY:60:PHE:O	55:DY:62:GLU:OE2	2.34	0.45
45:DO:10:VAL:HB	45:DO:12:ASP:OD2	2.15	0.45
50:DT:102:ILE:O	50:DT:103:ARG:C	2.54	0.45
50:DT:52:ILE:HA	50:DT:61:PHE:HA	1.98	0.45
45:DO:77:ILE:HD13	50:DT:74:ARG:HG3	1.99	0.45
1:CA:972:C:C4'	10:CJ:57:LYS:HG3	2.41	0.45
14:CN:41:ARG:HG3	14:CN:42:ILE:N	2.30	0.45
35:BA:729:G:C4	35:BA:1775:U:C2	3.03	0.45
38:BD:49:ILE:O	38:BD:49:ILE:HG13	2.15	0.45
35:DA:1568:G:P	38:DD:63:ARG:HH22	2.38	0.45
35:DA:1775:U:H2'	35:DA:1776:G:O5'	2.16	0.45
41:DG:113:ARG:C	41:DG:114:ILE:HG12	2.36	0.45
41:DG:38:VAL:HG13	41:DG:92:VAL:O	2.16	0.45
45:BO:1:MET:HE2	45:BO:1:MET:N	2.30	0.45
50:BT:70:VAL:HG12	50:BT:71:GLY:O	2.16	0.45
50:BT:32:TYR:HD2	50:BT:81:PRO:CB	2.29	0.45
56:BZ:54:HIS:HB3	56:BZ:101:PRO:CD	2.46	0.45
56:BZ:79:ARG:O	56:BZ:79:ARG:HG2	2.15	0.45
47:BQ:141:GLN:OE1	56:BZ:89:PHE:HB3	2.16	0.45
39:BE:48:GLN:CG	39:BE:78:LEU:HD12	2.45	0.45
1:AA:1062:U:H2'	1:AA:1063:C:C5	2.51	0.45
51:BU:111:GLU:O	51:BU:115:ALA:CB	2.64	0.45
52:BV:39:LEU:HD11	52:BV:53:GLU:CA	2.45	0.45
42:DH:84:SER:O	42:DH:133:VAL:O	2.34	0.45
1:AA:1223:C:OP2	1:AA:1224:G:H8	1.98	0.45
35:BA:1341:U:H2'	35:BA:1397:U:O2	2.15	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
54:BX:59:VAL:HG22	54:BX:74:PRO:O	2.16	0.45
35:BA:2312:U:O3'	41:BG:71:THR:HG21	2.15	0.45
54:DX:72:LYS:O	54:DX:73:ARG:HB3	2.16	0.45
44:DN:42:TRP:HE3	44:DN:48:MET:SD	2.39	0.45
52:DV:22:VAL:CG2	52:DV:96:ILE:HB	2.45	0.45
10:AJ:4:ILE:HG23	10:AJ:98:ILE:CG2	2.41	0.45
47:DQ:55:VAL:CG2	47:DQ:56:ARG:N	2.79	0.45
32:D6:26:ASN:O	32:D6:27:LYS:HD3	2.15	0.45
49:BS:74:ALA:HB2	49:BS:101:LEU:HD11	1.98	0.45
49:BS:15:ARG:HA	49:BS:17:ARG:HG2	1.98	0.45
27:D1:64:ALA:O	27:D1:67:ILE:CG1	2.57	0.45
35:DA:371:A:C4	35:DA:373:U:C4	3.04	0.45
52:BV:72:VAL:CG1	52:BV:73:SER:H	2.21	0.45
35:DA:1453:U:H4'	35:DA:1455:G:OP1	2.16	0.45
48:DR:14:SER:O	48:DR:16:HIS:N	2.49	0.45
35:DA:1278:A:C5'	48:DR:36:THR:HG22	2.45	0.45
48:BR:74:LYS:O	48:BR:75:LEU:C	2.55	0.45
2:CB:74:LYS:O	2:CB:75:LYS:C	2.55	0.45
2:CB:77:ALA:C	2:CB:80:ILE:HG23	2.37	0.45
44:DN:122:VAL:HG12	44:DN:123:TYR:N	2.29	0.45
6:CF:9:VAL:HG12	6:CF:10:LEU:N	2.30	0.45
2:CB:72:GLY:HA2	2:CB:165:VAL:HG22	1.98	0.45
35:DA:585:G:C5	35:DA:1251:C:C4	3.04	0.45
40:DF:55:GLY:O	40:DF:56:GLU:C	2.53	0.45
52:DV:83:ARG:NH1	52:DV:83:ARG:CG	2.68	0.45
4:AD:101:LEU:O	4:AD:104:VAL:HB	2.17	0.45
1:AA:409:G:H5'	4:AD:25:ARG:HB2	1.97	0.45
55:DY:28:LYS:HZ1	55:DY:37:VAL:HA	1.74	0.45
1:AA:1357:A:N6	1:AA:1363(A):A:H2	2.14	0.45
4:AD:13:ARG:O	4:AD:14:ARG:C	2.54	0.45
35:DA:957:A:OP1	35:DA:957:A:H8	1.99	0.45
47:DQ:70:PRO:HA	47:DQ:95:ALA:HB2	1.98	0.45
35:BA:2764:A:H2'	35:BA:2766:G:C8	2.51	0.45
1:CA:1493:A:H5''	1:CA:1494:G:OP1	2.15	0.45
25:CY:30:THR:O	25:CY:32:ARG:N	2.49	0.45
35:BA:1215:G:H2'	35:BA:1216:G:O4'	2.16	0.45
43:BI:2:LYS:O	43:BI:39:ALA:HB2	2.16	0.45
13:CM:116:THR:HG22	13:CM:117:VAL:H	1.79	0.45
16:AP:48:TRP:O	16:AP:49:LEU:C	2.52	0.45
16:AP:67:THR:HG21	16:AP:69:THR:HG23	1.98	0.45
16:CP:23:ASP:OD1	16:CP:24:ALA:N	2.49	0.45
1:CA:193:C:H2'	1:CA:194:C:C6	2.51	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:193:C:O2'	1:CA:194:C:H5'	2.16	0.45
25:AY:66:LEU:N	25:AY:66:LEU:HD12	2.31	0.45
1:AA:1015:A:H2'	1:AA:1016:A:H8	1.81	0.45
1:AA:551:U:C2	1:AA:552:U:C5	3.04	0.45
35:BA:1425:G:H2'	35:BA:1426:G:C8	2.51	0.45
42:DH:35:VAL:O	42:DH:37:VAL:HG23	2.16	0.45
42:DH:61:HIS:O	42:DH:65:HIS:HB3	2.17	0.45
55:BY:37:VAL:CG2	55:BY:38:ILE:H	2.04	0.45
20:CT:74:LYS:CG	20:CT:75:ASN:H	2.28	0.45
7:AG:149:ARG:HD3	11:AK:59:TYR:CE1	2.51	0.45
1:CA:1118:C:O5'	9:CI:104:ARG:HG3	2.16	0.45
8:AH:85:ARG:HA	8:AH:135:CYS:HB3	1.97	0.45
9:AI:47:LEU:CB	9:AI:50:LEU:HD12	2.46	0.45
9:AI:5:TYR:OH	9:AI:7:THR:HG23	2.16	0.45
9:AI:85:LEU:C	9:AI:85:LEU:HD12	2.36	0.45
8:CH:35:ILE:HG22	8:CH:111:ILE:HD13	1.99	0.45
31:D5:49:CYS:O	31:D5:57:VAL:HG22	2.16	0.45
1:AA:1351:U:O4	9:AI:118:LYS:HE2	2.16	0.45
35:BA:2745:C:H1'	42:BH:143:GLN:HG2	1.97	0.45
46:DP:126:VAL:HG22	46:DP:145:PRO:CB	2.46	0.45
35:BA:1986:A:H3'	35:BA:1987:G:C5'	2.37	0.45
5:CE:144:THR:O	5:CE:145:LYS:C	2.54	0.45
42:DH:13:LYS:CE	42:DH:13:LYS:HA	2.36	0.45
53:DW:10:VAL:HB	53:DW:101:SER:O	2.17	0.45
56:BZ:108:PRO:HB2	56:BZ:144:LEU:O	2.16	0.45
38:DD:131:LEU:H	38:DD:131:LEU:HD12	1.80	0.45
1:AA:677:U:H3	1:AA:713:G:N2	2.12	0.45
53:BW:10:VAL:CG2	53:BW:101:SER:O	2.65	0.45
7:AG:66:VAL:C	7:AG:68:ASN:H	2.18	0.45
1:CA:445:G:C6	1:CA:490:G:O6	2.69	0.45
35:DA:271(W):G:H5'	35:DA:271(X):G:OP1	2.16	0.45
17:CQ:67:LYS:O	17:CQ:69:LYS:N	2.49	0.45
35:DA:1300:U:O2'	35:DA:1301:A:P	2.74	0.45
17:AQ:67:LYS:C	17:AQ:70:ARG:HH12	2.18	0.45
1:AA:36:C:O2'	1:AA:37:U:H5'	2.15	0.45
1:CA:1462:G:O2'	1:CA:1463:C:H5'	2.16	0.45
1:CA:321:A:N7	1:CA:328:C:O2	2.49	0.45
35:BA:524:U:H4'	35:BA:555:U:H4'	1.97	0.45
35:BA:1711:C:H2'	35:BA:1712:C:C6	2.50	0.45
26:B0:38:VAL:CG2	26:B0:59:LEU:HB2	2.46	0.45
13:CM:10:PRO:HB2	13:CM:18:ALA:HB1	1.98	0.45
46:BP:56:SER:C	46:BP:58:THR:N	2.69	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1806:C:C5	35:DA:1807:G:N7	2.84	0.45
1:CA:1098:C:C2	1:CA:1099:G:C8	3.04	0.45
35:BA:2101:G:C6	35:BA:2102:U:C6	3.04	0.45
35:DA:614:U:O2	35:DA:614:U:O4'	2.31	0.45
52:DV:43:GLU:HA	52:DV:47:VAL:N	2.31	0.45
7:CG:150:ALA:C	7:CG:152:ALA:N	2.68	0.45
43:BI:62:LYS:C	43:BI:62:LYS:HD3	2.37	0.45
7:AG:15:ASP:O	7:AG:19:GLY:HA2	2.16	0.45
1:CA:799:G:C2'	1:CA:800:G:H5'	2.46	0.45
9:CI:18:PHE:HD1	9:CI:62:TYR:CD2	2.34	0.45
1:AA:1295:G:O2'	13:AM:14:ARG:NH1	2.49	0.45
35:BA:2057:A:O2'	35:BA:2058:A:H5'	2.15	0.45
35:BA:1935:G:C3'	35:BA:1962:C:H42	2.28	0.45
1:AA:927:G:H4'	1:AA:1503:A:N7	2.31	0.45
11:CK:86:GLY:N	11:CK:112:THR:HG23	2.29	0.45
1:CA:1161:C:H2'	1:CA:1162:C:H6	1.81	0.45
9:CI:48:GLU:N	9:CI:49:PRO:CD	2.79	0.45
4:CD:25:ARG:C	4:CD:27:TYR:N	2.69	0.45
35:DA:858:U:O2	35:DA:2268:A:H2'	2.16	0.45
35:BA:2650:U:H2'	35:BA:2651:C:H6	1.80	0.45
35:DA:2870:C:H2'	35:DA:2871:C:C5'	2.46	0.45
1:AA:573:A:C2	1:AA:574:A:C2	3.05	0.45
35:BA:947:G:H2'	35:BA:948:G:H8	1.81	0.45
35:BA:2523:G:H5'	35:BA:2523:G:H8	1.80	0.45
41:BG:52:ILE:O	41:BG:54:GLU:HG3	2.15	0.45
35:DA:1647:G:OP2	35:DA:1647:G:H3'	2.17	0.45
25:AY:184:LEU:CD2	25:AY:185:GLY:N	2.79	0.45
7:AG:133:GLY:HA2	7:AG:136:LYS:CG	2.46	0.45
35:BA:2793:G:C2	35:BA:2794:C:N3	2.85	0.45
1:CA:1262:C:C2	1:CA:1263:C:C5	3.05	0.45
35:BA:2584:U:O4'	35:BA:2584:U:O2	2.34	0.45
1:AA:27:G:H2'	1:AA:28:G:H8	1.81	0.45
15:CO:41:GLU:O	15:CO:44:LYS:HB3	2.16	0.45
35:BA:2295:C:O2'	35:BA:2296:U:H5'	2.16	0.45
45:DO:14:THR:HG21	45:DO:86:ILE:CG1	2.46	0.45
41:DG:21:ARG:HH11	41:DG:22:ARG:HB2	1.81	0.45
38:DD:61:LEU:HD12	38:DD:62:TYR:H	1.80	0.45
38:DD:25:THR:HG21	38:DD:82:ILE:H	1.81	0.45
32:B6:27:LYS:HE2	35:BA:2285:C:H5	1.81	0.45
45:BO:60:ALA:HA	45:BO:87:ILE:H	1.82	0.45
56:BZ:71:VAL:HG13	56:BZ:86:VAL:HG13	1.97	0.45
39:BE:88:GLY:O	39:BE:89:ASP:CB	2.64	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
51:BU:111:GLU:C	51:BU:113:ALA:N	2.68	0.45
52:BV:3:ALA:HB3	52:BV:14:VAL:CB	2.42	0.45
14:AN:27:CYS:O	14:AN:27:CYS:SG	2.74	0.45
28:B2:26:ARG:O	28:B2:29:LYS:N	2.48	0.45
35:BA:60:G:C5	35:BA:63:U:C4	3.04	0.45
35:BA:76:C:H2'	35:BA:77:C:C6	2.51	0.45
39:DE:61:ARG:CG	39:DE:62:PRO:HD3	2.44	0.45
35:DA:71:A:C8	35:DA:71:A:H5'	2.51	0.45
44:DN:38:HIS:CG	44:DN:39:ARG:H	2.34	0.45
52:DV:17:GLY:HA2	52:DV:98:GLU:O	2.16	0.45
10:AJ:28:ARG:NH2	10:AJ:34:VAL:O	2.50	0.45
49:BS:26:LEU:CD2	49:BS:28:VAL:HG22	2.46	0.45
35:BA:225:A:O2'	35:BA:257:A:H4'	2.16	0.45
40:BF:24:LEU:O	40:BF:25:PRO:C	2.53	0.45
40:BF:25:PRO:HB3	40:BF:119:ARG:HD3	1.98	0.45
40:BF:28:ILE:CD1	40:BF:28:ILE:N	2.78	0.45
39:BE:116:VAL:CG2	39:BE:122:PHE:CG	2.99	0.45
39:BE:120:TRP:CD2	39:BE:155:LYS:HD3	2.51	0.45
27:D1:87:PRO:CB	27:D1:91:LYS:HZ2	2.29	0.45
34:D8:30:ARG:NE	46:DP:62:LEU:HB2	2.29	0.45
46:BP:70:GLN:CG	46:BP:71:VAL:N	2.77	0.45
35:BA:1186:G:O2'	35:BA:1187:G:H5'	2.16	0.45
35:BA:806:C:O2'	35:BA:807:U:H5'	2.16	0.45
52:BV:75:PHE:CE1	52:BV:89:GLN:HB2	2.51	0.45
5:AE:55:VAL:O	5:AE:58:ALA:HB3	2.16	0.45
35:BA:2695:C:H2'	35:BA:2696:U:C6	2.50	0.45
2:AB:51:LEU:O	2:AB:55:PHE:HD2	1.98	0.45
35:BA:9:U:O2'	35:BA:10:G:O5'	2.33	0.45
18:CR:36:ASN:HB2	18:CR:39:VAL:CG2	2.46	0.45
52:DV:75:PHE:HB2	52:DV:87:HIS:HB3	1.97	0.45
1:AA:1412:C:H2'	1:AA:1413:A:H8	1.70	0.45
1:AA:1488:G:H2'	1:AA:1489:G:C8	2.51	0.45
43:DI:110:ASP:O	43:DI:114:LEU:HG	2.17	0.45
35:DA:2034:U:H2'	35:DA:2035:G:H5'	1.98	0.45
35:DA:563:G:OP2	35:DA:572:A:H5'	2.15	0.45
7:AG:104:LEU:H	7:AG:104:LEU:HD22	1.80	0.45
35:DA:580:C:H2'	35:DA:581:C:H6	1.80	0.45
25:CY:134:ARG:HG2	25:CY:138:ASP:OD1	2.16	0.45
12:CL:95:GLY:O	12:CL:97:ARG:N	2.49	0.45
13:CM:91:ARG:HB2	13:CM:98:VAL:HG22	1.98	0.45
16:AP:39:TYR:C	16:AP:39:TYR:CD1	2.90	0.45
1:CA:261:U:O2	1:CA:263:A:C8	2.68	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
11:AK:21:ILE:HG13	11:AK:30:VAL:HG12	1.98	0.45
33:B7:23:ARG:O	33:B7:28:ARG:NH1	2.48	0.45
26:D0:11:ARG:O	26:D0:12:ASN:OD1	2.33	0.45
35:BA:105:C:H5'	35:BA:106:C:OP2	2.16	0.45
55:BY:34:LYS:O	55:BY:35:TYR:HB3	2.17	0.45
7:AG:148:ASN:O	7:AG:150:ALA:N	2.50	0.45
11:AK:23:ALA:O	11:AK:87:THR:N	2.49	0.45
1:AA:959:A:H3'	1:AA:960:U:H5''	1.99	0.45
8:AH:114:THR:HG21	8:AH:119:LEU:HD21	1.97	0.45
1:AA:16:A:N1	1:AA:919:A:C2	2.81	0.45
25:CY:83:ILE:HG22	25:CY:84:ARG:N	2.31	0.45
1:CA:1351:U:O4	9:CI:118:LYS:HE2	2.16	0.45
9:CI:9:ARG:HA	9:CI:14:VAL:HA	1.99	0.45
1:AA:522:C:H1'	1:AA:536:C:H5'	1.97	0.45
8:AH:11:THR:CA	8:AH:14:ARG:HH12	2.29	0.45
1:AA:1150:U:O3'	10:AJ:41:PRO:HA	2.16	0.45
12:CL:37:CYS:O	12:CL:79:GLU:O	2.34	0.45
9:CI:17:VAL:HG21	9:CI:81:ILE:HD13	1.96	0.45
38:BD:133:LEU:HB2	38:BD:187:GLY:HA2	1.98	0.45
53:DW:10:VAL:O	53:DW:11:ARG:CB	2.64	0.45
35:BA:2606:C:C2'	35:BA:2607:G:H5'	2.46	0.45
11:CK:33:THR:HG22	11:CK:39:PRO:HA	1.98	0.45
1:CA:1486:G:C6	1:CA:1487:G:C6	3.05	0.45
35:DA:2704:C:C4	35:DA:2705:A:N7	2.84	0.45
35:DA:120:U:O4	35:DA:177:G:C8	2.69	0.45
1:CA:1054:C:O2'	1:CA:1055:A:H5''	2.16	0.45
20:CT:25:ARG:CZ	20:CT:25:ARG:HB2	2.46	0.45
35:DA:1937:A:O2'	35:DA:1938:A:OP1	2.26	0.45
54:BX:62:LYS:CD	54:BX:68:ARG:HD2	2.47	0.45
1:CA:726:C:H2'	1:CA:727:G:H8	1.80	0.45
25:CY:108:GLU:O	25:CY:109:GLU:C	2.53	0.45
1:AA:1279:A:N3	1:AA:1279:A:H2'	2.30	0.45
35:BA:1315:C:H42	35:BA:1337:G:H1	1.63	0.45
29:B3:19:GLN:O	29:B3:21:ALA:N	2.50	0.45
35:BA:966:G:H2'	35:BA:967:C:H6	1.80	0.45
54:BX:12:VAL:HG13	54:BX:17:ALA:HB2	1.96	0.45
35:DA:852:G:C2'	35:DA:853:G:H5'	2.46	0.45
1:CA:243:A:C2	1:CA:245:C:C2	3.05	0.45
35:DA:2352:A:C2'	35:DA:2353:G:H5'	2.46	0.45
35:DA:1866:C:H2'	35:DA:1876:A:O4'	2.15	0.45
1:CA:137:C:H2'	1:CA:138:G:C8	2.52	0.45
25:CY:46:TYR:C	25:CY:48:ALA:H	2.17	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:929:G:O2'	1:CA:930:C:H5'	2.16	0.45
1:AA:630:G:H2'	1:AA:631:G:C5'	2.45	0.45
1:AA:241:C:C1'	1:AA:286:G:N2	2.79	0.45
1:CA:902:G:O2'	1:CA:903:G:H5'	2.16	0.45
1:AA:993:G:H22	1:AA:1046:A:H1'	1.82	0.45
25:CY:43:VAL:HB	25:CY:50:VAL:HG23	1.98	0.45
38:DD:109:ASP:CB	38:DD:195:ALA:HB3	2.45	0.45
1:CA:1006:C:H2'	1:CA:1007:C:C6	2.51	0.45
1:CA:76:C:N4	1:CA:93:G:H1	2.14	0.45
35:DA:826:U:H3'	35:DA:828:U:C6	2.51	0.45
3:AC:207:VAL:HG12	3:AC:207:VAL:O	2.15	0.45
20:AT:93:GLU:N	20:AT:93:GLU:OE1	2.49	0.45
2:CB:221:LEU:O	2:CB:221:LEU:HD22	2.15	0.45
5:CE:60:TYR:CE2	5:CE:64:ARG:NH2	2.84	0.45
53:DW:92:ARG:HG2	53:DW:92:ARG:HH11	1.80	0.45
1:CA:1157:A:H1'	1:CA:1181:G:N2	2.32	0.45
46:BP:25:SER:OG	46:BP:26:GLY:N	2.47	0.45
14:CN:13:THR:N	14:CN:14:PRO:CD	2.80	0.45
10:AJ:65:LEU:HD12	14:AN:55:GLY:HA3	1.97	0.45
1:AA:505:G:C6	1:AA:535:A:C2	3.04	0.45
1:CA:617:G:H4'	16:CP:44:THR:O	2.16	0.45
35:DA:2000:G:O2'	35:DA:2689:U:H5	1.96	0.45
35:DA:1813:G:H1'	38:DD:50:THR:OG1	2.16	0.45
35:DA:1820:U:H4'	35:DA:1821:A:OP2	2.17	0.45
41:DG:39:ILE:CB	41:DG:157:ILE:HG22	2.45	0.45
56:BZ:134:PRO:O	56:BZ:135:GLU:C	2.54	0.45
39:BE:1:MET:H3	39:BE:84:PHE:HB2	1.82	0.45
35:DA:1497:U:H3	35:DA:1578:U:P	2.39	0.45
44:BN:38:HIS:CG	44:BN:39:ARG:N	2.84	0.45
42:DH:146:ALA:O	42:DH:148:ILE:N	2.50	0.45
28:B2:49:LYS:O	28:B2:52:ASP:HB3	2.15	0.45
35:BA:60:G:N2	35:BA:74:A:H2'	2.31	0.45
27:B1:16:ASN:HB3	27:B1:46:LEU:CG	2.29	0.45
41:BG:171:ALA:O	41:BG:173:LEU:N	2.49	0.45
28:D2:21:LEU:HD23	28:D2:24:LEU:HD22	1.98	0.45
35:DA:1341:U:H2'	35:DA:1397:U:O2	2.16	0.45
35:DA:70:G:H21	35:DA:71:A:N6	2.15	0.45
54:DX:36:LYS:O	54:DX:37:THR:C	2.54	0.45
35:BA:2775:A:O2'	35:BA:2776:A:C5'	2.65	0.45
1:CA:502:G:C6	1:CA:544:G:C6	3.04	0.45
4:CD:22:LYS:HB3	4:CD:22:LYS:HZ2	1.81	0.45
4:CD:32:ALA:O	4:CD:36:ARG:N	2.49	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:609:A:H2'	35:BA:610:G:O4'	2.17	0.45
40:BF:45:ARG:NH1	40:BF:97:TYR:CD2	2.84	0.45
27:D1:75:GLU:HB2	27:D1:76:ARG:HH21	1.76	0.45
35:DA:395:U:H1'	35:DA:396:G:N7	2.32	0.45
35:BA:195:A:H5''	35:BA:196:A:OP2	2.16	0.45
47:BQ:70:PRO:HA	47:BQ:94:VAL:O	2.15	0.45
1:AA:62:U:H5''	1:AA:385:C:O2	2.16	0.45
20:AT:27:LYS:C	20:AT:27:LYS:HD3	2.36	0.45
35:BA:1277:G:H2'	35:BA:1278:A:H8	1.81	0.45
2:AB:178:ARG:CG	2:AB:178:ARG:HH11	2.29	0.45
2:AB:46:LYS:O	2:AB:47:THR:C	2.54	0.45
27:D1:23:LYS:O	27:D1:37:ILE:CG1	2.65	0.45
18:CR:31:LEU:HG	18:CR:65:ILE:HD13	1.99	0.45
35:DA:823:G:H2'	35:DA:824:A:H8	1.81	0.45
35:DA:1247:A:OP1	40:DF:95:ARG:NH2	2.49	0.45
55:DY:15:VAL:O	55:DY:16:ALA:HB2	2.17	0.45
55:DY:19:LYS:O	55:DY:19:LYS:HG2	2.15	0.45
1:AA:908:A:C2	1:AA:909:A:N7	2.84	0.45
6:AF:67:MET:CE	6:AF:72:VAL:H	2.29	0.45
1:CA:780:A:H2	1:CA:803:G:C6	2.32	0.45
1:AA:1375:A:C4	1:AA:1376:U:C5	3.04	0.45
7:AG:30:ILE:HD13	7:AG:105:VAL:HG13	1.98	0.45
25:CY:31:GLY:O	25:CY:32:ARG:HB2	2.16	0.45
25:AY:64:ARG:O	25:AY:65:THR:OG1	2.31	0.45
25:AY:15:GLN:HA	25:AY:168:PHE:CZ	2.51	0.45
1:CA:568:G:O6	12:CL:5:PRO:HD3	2.16	0.45
42:DH:43:VAL:CG2	42:DH:43:VAL:O	2.61	0.45
12:AL:84:LEU:HB3	12:AL:101:VAL:HB	1.98	0.45
35:BA:2283:C:C5	35:BA:2389:G:H2'	2.51	0.45
2:CB:100:GLY:O	2:CB:104:ASN:N	2.49	0.45
7:AG:86:GLN:NE2	23:AW:32:G:N2	2.63	0.45
1:AA:1226:C:C5'	19:AS:80:TYR:HE2	2.29	0.45
25:CY:83:ILE:O	25:CY:85:ASP:N	2.50	0.45
9:AI:28:VAL:HG13	9:AI:63:ILE:C	2.36	0.45
8:CH:14:ARG:HB3	8:CH:14:ARG:HH11	1.80	0.45
8:CH:87:SER:OG	8:CH:92:ARG:HA	2.16	0.45
31:B5:30:LEU:HD23	31:B5:41:PRO:HB3	1.97	0.45
9:CI:92:TYR:HB3	9:CI:95:LYS:HD2	1.99	0.45
1:AA:1168:A:H2'	1:AA:1169:A:H8	1.79	0.45
35:DA:64:A:C2	35:DA:65:C:C2	3.03	0.45
1:AA:445:G:C6	1:AA:490:G:O6	2.70	0.45
16:CP:49:LEU:HD11	16:CP:51:VAL:CG2	2.38	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:BF:169:ASN:ND2	40:BF:169:ASN:O	2.49	0.45
53:BW:8:ARG:HG3	53:BW:8:ARG:NH1	2.31	0.45
1:CA:311:C:O2'	1:CA:312:C:H5'	2.15	0.45
35:DA:2171:A:HO2'	35:DA:2172:U:H6	1.60	0.45
1:AA:122:G:H2'	1:AA:123:C:C6	2.52	0.45
5:CE:101:ILE:O	5:CE:120:THR:OG1	2.34	0.45
35:DA:1945:G:C6	35:DA:1946:U:O4	2.70	0.45
35:DA:290:G:O2'	35:DA:291:C:H5'	2.16	0.45
35:BA:914:C:C2'	35:BA:915:C:H5'	2.41	0.45
13:CM:54:VAL:O	13:CM:58:GLU:HG2	2.16	0.45
25:AY:74:ASN:HA	25:AY:77:LYS:HG2	1.98	0.45
1:AA:659:U:H2'	1:AA:660:G:C8	2.50	0.45
29:D3:40:THR:OG1	29:D3:41:PRO:HD2	2.16	0.45
11:AK:126:ARG:O	11:AK:127:LYS:C	2.54	0.45
48:DR:4:LEU:HD22	48:DR:4:LEU:O	2.17	0.45
35:BA:154(A):C:O4'	35:BA:154(A):C:O2	2.34	0.45
1:CA:894:G:H2'	1:CA:895:G:C8	2.51	0.45
45:DO:87:ILE:HD13	45:DO:87:ILE:HA	1.79	0.45
35:DA:1221(A):C:C2'	35:DA:1222:C:H5'	2.45	0.45
7:CG:6:ARG:O	7:CG:7:ALA:C	2.55	0.45
1:AA:302:G:C4	1:AA:303:A:C8	3.04	0.45
25:CY:45:TYR:HD2	25:CY:78:ALA:HB2	1.80	0.45
35:DA:897:C:O2'	35:DA:898:C:H5'	2.16	0.45
4:AD:194:LEU:N	4:AD:194:LEU:CD2	2.74	0.45
1:CA:1030(D):A:C2'	1:CA:1031:G:H5'	2.45	0.45
35:BA:601:C:O2'	35:BA:605:C:H5''	2.16	0.45
1:CA:1153:C:H2'	1:CA:1154:G:O5'	2.17	0.45
25:AY:111:ARG:O	25:AY:115:VAL:HG23	2.16	0.45
17:CQ:57:VAL:HA	17:CQ:77:VAL:HG23	1.99	0.45
35:BA:1331:A:H2'	35:BA:1333:C:C5	2.51	0.45
1:CA:650:G:O2'	1:CA:651:C:H5'	2.16	0.45
3:AC:95:THR:HG22	3:AC:97:LYS:HB2	1.96	0.45
38:BD:109:ASP:CB	38:BD:195:ALA:HB3	2.46	0.45
16:CP:80:PHE:N	16:CP:80:PHE:CD1	2.85	0.45
57:DC:86:ALA:HA	57:DC:89:ALA:HB2	1.99	0.45
35:DA:151:C:H2'	35:DA:152:G:H8	1.81	0.45
29:D3:38:GLU:CD	29:D3:38:GLU:H	2.20	0.45
3:CC:92:ALA:C	3:CC:94:LEU:N	2.70	0.45
35:DA:2428:G:H5''	35:DA:2429:G:O5'	2.16	0.45
1:AA:486:U:H2'	1:AA:487:A:H8	1.81	0.45
35:BA:2663:G:H2'	35:BA:2664:G:O4'	2.16	0.45
35:DA:2523:G:H5'	35:DA:2523:G:H8	1.81	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
57:DC:77:ILE:HG13	57:DC:96:GLY:O	2.15	0.45
35:DA:2663:G:H2'	35:DA:2664:G:O4'	2.16	0.45
6:CF:42:GLU:O	6:CF:44:GLY:N	2.50	0.45
1:CA:1011:G:O2'	1:CA:1012:U:H5'	2.17	0.45
42:DH:39:PRO:O	42:DH:42:ARG:HG3	2.17	0.45
4:AD:88:VAL:O	4:AD:88:VAL:HG12	2.16	0.45
12:AL:18:VAL:O	12:AL:18:VAL:HG23	2.16	0.45
35:DA:2474:C:O2	35:DA:2474:C:H2'	2.14	0.45
41:BG:149:VAL:O	41:BG:149:VAL:HG23	2.17	0.45
27:B1:81:LYS:O	27:B1:82:LEU:C	2.55	0.45
7:AG:57:GLU:O	7:AG:59:LEU:N	2.46	0.45
45:DO:104:ARG:NH2	50:DT:33:LYS:HD2	2.31	0.45
35:DA:1794:U:HO2'	35:DA:1900:A:HO2'	1.61	0.45
35:DA:1566:A:C4	38:DD:214:TRP:CE3	3.05	0.45
38:DD:81:ALA:N	38:DD:94:LEU:CD1	2.79	0.45
38:DD:80:ALA:CB	38:DD:96:HIS:CE1	2.99	0.45
35:DA:2308:G:N7	35:DA:2310:A:H5'	2.31	0.45
41:DG:102:PHE:CZ	41:DG:141:PHE:CE1	3.04	0.45
41:DG:61:ALA:O	41:DG:62:LEU:HD23	2.17	0.45
41:DG:96:ARG:O	41:DG:100:TRP:CD1	2.69	0.45
35:BA:1998:G:H4'	35:BA:2724:C:H4'	1.99	0.45
45:BO:37:ASP:O	45:BO:39:ILE:HG22	2.16	0.45
45:BO:67:LYS:O	45:BO:68:GLU:C	2.55	0.45
50:BT:122:ASP:O	50:BT:126:ALA:HB2	2.17	0.45
45:BO:104:ARG:NH1	50:BT:35:LYS:HB3	2.32	0.45
50:BT:35:LYS:CE	50:BT:41:ARG:HG3	2.44	0.45
39:BE:6:GLY:HA3	39:BE:27:LEU:O	2.16	0.45
44:BN:36:GLY:HA3	44:BN:48:MET:CE	2.45	0.45
42:DH:149:ARG:CB	42:DH:162:ILE:HD11	2.46	0.45
42:DH:149:ARG:CA	42:DH:162:ILE:HD11	2.45	0.45
42:DH:97:ARG:O	42:DH:98:LEU:HB2	2.15	0.45
1:AA:972:C:H4'	10:AJ:57:LYS:HG2	1.97	0.45
27:B1:75:GLU:O	27:B1:76:ARG:NE	2.50	0.45
2:AB:212:GLN:NE2	2:AB:235:SER:HB3	2.31	0.45
42:BH:121:ILE:CG2	42:BH:133:VAL:HG11	2.46	0.45
36:DB:103:G:O2'	36:DB:104:U:H5'	2.17	0.45
56:DZ:45:ASP:O	56:DZ:47:VAL:N	2.49	0.45
51:DU:61:TRP:O	51:DU:62:ILE:C	2.55	0.45
52:DV:61:VAL:CG1	52:DV:62:LEU:N	2.79	0.45
52:DV:5:VAL:CG2	52:DV:6:LYS:N	2.80	0.45
3:AC:134:ILE:HG22	3:AC:168:ALA:CB	2.47	0.45
19:CS:11:VAL:HG22	19:CS:16:LEU:HD11	1.97	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1861:G:H2'	35:BA:1862:G:H8	1.80	0.45
32:D6:52:VAL:HG12	32:D6:52:VAL:O	2.16	0.45
49:BS:86:ALA:C	49:BS:106:ARG:HG3	2.36	0.45
40:BF:1:MET:O	40:BF:3:GLU:N	2.49	0.45
40:BF:45:ARG:HG3	40:BF:46:ARG:N	2.31	0.45
35:DA:372:G:O2'	35:DA:373:U:P	2.75	0.45
35:BA:574:C:N3	39:BE:145:LYS:HE2	2.32	0.45
52:BV:71:LEU:CD1	52:BV:72:VAL:N	2.79	0.45
35:BA:910:A:N1	35:BA:2277:G:H1'	2.31	0.45
48:DR:17:ARG:O	48:DR:18:LEU:C	2.53	0.45
48:DR:20:LEU:C	48:DR:20:LEU:CD1	2.75	0.45
48:BR:32:GLY:O	48:BR:116:LEU:N	2.48	0.45
48:BR:73:VAL:HG23	48:BR:74:LYS:N	2.31	0.45
2:AB:195:ASP:C	2:AB:197:VAL:H	2.20	0.45
44:DN:19:GLU:C	44:DN:21:LYS:H	2.20	0.45
44:BN:27:ALA:HB3	44:BN:106:MET:HE2	1.99	0.45
1:CA:835:U:H3	1:CA:851:G:H1	1.65	0.45
4:AD:102:ASP:HA	4:AD:121:VAL:HG21	1.97	0.45
55:DY:2:ARG:HG2	55:DY:2:ARG:NH1	2.32	0.45
4:AD:18:LYS:NZ	4:AD:31:CYS:CB	2.77	0.45
4:AD:34:GLU:O	4:AD:35:ARG:HG2	2.16	0.45
47:DQ:70:PRO:HA	47:DQ:94:VAL:O	2.16	0.45
18:AR:30:ASP:O	18:AR:32:ARG:N	2.48	0.45
3:AC:173:VAL:N	3:AC:174:PRO:CD	2.78	0.45
1:AA:1328:C:P	21:AU:21:TYR:OH	2.74	0.45
21:AU:12:LYS:O	21:AU:22:ARG:NH1	2.49	0.45
20:CT:100:ILE:CD1	20:CT:100:ILE:H	2.28	0.45
1:AA:1019:C:H2'	1:AA:1020:U:O4'	2.17	0.45
25:AY:171:LYS:O	25:AY:175:LEU:HB2	2.15	0.45
25:AY:175:LEU:O	25:AY:176:ALA:C	2.53	0.45
7:CG:26:PHE:CE1	7:CG:105:VAL:HG22	2.51	0.45
35:BA:2035:G:H4'	35:BA:2036:C:OP2	2.16	0.45
16:CP:60:LEU:O	16:CP:62:VAL:N	2.49	0.45
1:AA:707:C:H2'	1:AA:707:C:O2	2.17	0.45
26:B0:11:ARG:O	26:B0:12:ASN:OD1	2.34	0.45
2:CB:112:VAL:C	2:CB:115:LEU:HB3	2.32	0.45
1:AA:918:A:H2'	1:AA:919:A:C8	2.51	0.45
8:AH:5:PRO:C	8:AH:8:ASP:HB3	2.37	0.45
56:DZ:76:LEU:HA	56:DZ:84:GLU:N	2.30	0.45
35:BA:272(E):G:C2	35:BA:364:C:N3	2.85	0.45
56:DZ:110:GLY:O	56:DZ:111:VAL:CG1	2.64	0.45
42:BH:37:VAL:HG12	42:BH:38:SER:N	2.31	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:BH:66:GLY:O	42:BH:67:LEU:C	2.54	0.45
33:D7:18:PHE:O	33:D7:21:ARG:N	2.49	0.45
33:D7:5:TRP:HE1	33:D7:7:PRO:HG3	1.80	0.45
35:DA:1608:A:H1'	35:DA:1610:A:OP2	2.17	0.45
35:BA:2319:G:C5	35:BA:2320:A:N6	2.85	0.45
35:DA:548:A:O2'	35:DA:549:G:OP2	2.26	0.45
19:AS:52:TYR:CG	19:AS:53:ASN:N	2.84	0.45
46:DP:96:THR:HB	46:DP:126:VAL:HB	1.98	0.45
38:BD:66:ASP:OD2	38:BD:103:ARG:NH2	2.49	0.45
35:DA:1264:G:C3'	35:DA:1265:A:H5''	2.46	0.45
35:DA:2225:A:H1'	35:DA:2226:C:OP2	2.17	0.45
35:DA:1262:A:P	53:DW:99:ARG:HH12	2.40	0.45
35:BA:1263:U:C5	35:BA:1264:G:C6	3.05	0.45
35:BA:2832:U:O4	35:BA:2883:A:H5''	2.16	0.45
35:BA:493:G:HO2'	53:BW:8:ARG:H	1.64	0.45
41:BG:53:LEU:H	41:BG:53:LEU:CD2	2.22	0.45
1:CA:255:G:H5''	17:CQ:17:LYS:HB2	1.98	0.45
35:DA:2355:C:C4	35:DA:2356:C:C4	3.05	0.45
20:CT:24:LEU:O	20:CT:27:LYS:HB3	2.15	0.45
27:D1:8:SER:HB3	35:DA:1364:G:C5'	2.46	0.45
5:CE:76:ILE:CG2	5:CE:77:PRO:N	2.79	0.45
29:B3:40:THR:O	29:B3:43:ILE:N	2.50	0.45
35:DA:2801:A:O2'	35:DA:2895:U:C4'	2.65	0.45
26:B0:77:ARG:NH2	35:BA:857:C:OP2	2.48	0.45
36:BB:100:A:C4	36:BB:101:G:C8	3.05	0.45
29:B3:12:PRO:O	29:B3:14:GLY:N	2.50	0.45
1:CA:1473:A:O2'	35:DA:1702:G:H4'	2.17	0.45
1:AA:66:G:C4'	1:AA:173:U:C4	3.00	0.45
8:CH:53:VAL:O	8:CH:54:ASP:CB	2.64	0.45
4:CD:3:ARG:HG2	4:CD:3:ARG:HH21	1.80	0.45
38:DD:45:ASN:C	38:DD:46:GLN:OE1	2.55	0.45
35:BA:1112:G:O2'	35:BA:1113:U:H5''	2.17	0.45
35:BA:360:G:H2'	35:BA:361:G:C8	2.50	0.45
6:CF:83:ASP:C	6:CF:85:VAL:N	2.70	0.45
1:AA:137:C:H2'	1:AA:138:G:C8	2.51	0.45
35:BA:132:G:H2'	35:BA:133:C:C6	2.51	0.45
35:DA:1550:C:H2'	35:DA:1551:C:C6	2.41	0.45
35:BA:186:G:C2'	35:BA:187:G:H5'	2.47	0.45
35:DA:2350:C:O2'	35:DA:2351:G:H5'	2.16	0.45
1:AA:557:G:H2'	1:AA:558:G:C8	2.51	0.45
1:AA:1289:A:H3'	1:AA:1290:G:H8	1.81	0.45
7:AG:15:ASP:HB3	7:AG:20:ASP:H	1.81	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:695:A:O2'	1:AA:696:A:H5'	2.16	0.45
1:CA:1288:A:O5'	1:CA:1288:A:H8	1.99	0.45
53:DW:24:ILE:O	53:DW:71:VAL:HG11	2.16	0.45
35:DA:703:U:H2'	35:DA:704:G:C5'	2.43	0.45
1:CA:885:G:H1	1:CA:912:C:H42	1.64	0.45
1:AA:1164:G:H2'	1:AA:1165:C:H5'	1.97	0.45
35:BA:412:A:H3'	35:BA:413:C:C6	2.51	0.45
16:AP:80:PHE:CD1	16:AP:80:PHE:N	2.83	0.45
3:CC:99:VAL:HG23	3:CC:99:VAL:O	2.15	0.45
35:BA:2023:G:C2	35:BA:2024:G:C5	3.05	0.45
17:CQ:62:SER:OG	17:CQ:72:ARG:HG3	2.16	0.45
35:DA:147:U:H2'	35:DA:148:C:C6	2.51	0.45
1:CA:788:U:C2	1:CA:789:U:C6	3.04	0.45
35:DA:179:G:C4	35:DA:180:G:C8	3.03	0.45
11:AK:48:ILE:C	11:AK:50:TYR:H	2.20	0.45
35:DA:2550:G:H2'	35:DA:2551:C:C6	2.51	0.45
14:AN:13:THR:N	14:AN:14:PRO:CD	2.79	0.45
23:CW:52:C:N4	23:CW:53:G:C6	2.84	0.45
50:DT:28:VAL:HG21	50:DT:46:GLU:OE2	2.17	0.45
50:DT:52:ILE:HG22	50:DT:61:PHE:HB3	1.97	0.45
41:DG:7:LEU:O	41:DG:10:LYS:HB2	2.15	0.45
35:BA:1810:A:H2'	35:BA:1811:G:O4'	2.16	0.45
38:BD:245:PRO:O	38:BD:246:PRO:C	2.54	0.45
38:BD:45:ASN:C	38:BD:46:GLN:OE1	2.54	0.45
5:CE:127:ASN:O	5:CE:128:PRO:C	2.55	0.45
38:DD:213:ARG:O	38:DD:214:TRP:C	2.54	0.45
16:CP:32:TYR:CE2	16:CP:35:LYS:HB2	2.51	0.45
41:DG:180:PHE:HB2	41:DG:182:LYS:HE3	1.99	0.45
41:DG:40:ASN:OD1	41:DG:41:GLN:N	2.50	0.45
35:BA:2383:G:H2'	35:BA:2384:G:C8	2.51	0.45
50:BT:92:GLY:C	50:BT:94:ALA:H	2.18	0.45
56:BZ:166:SER:CB	56:BZ:168:GLU:N	2.79	0.45
35:DA:2513:G:H2'	35:DA:2514:U:C6	2.52	0.45
52:BV:5:VAL:CG2	52:BV:6:LYS:N	2.80	0.45
3:AC:25:GLY:O	3:AC:28:GLN:N	2.49	0.45
14:AN:47:LEU:HB3	14:AN:53:LEU:HG	1.98	0.45
27:B1:69:LYS:NZ	27:B1:95:LEU:HD12	2.31	0.45
41:BG:46:ALA:HA	41:BG:51:ARG:HG3	1.96	0.45
55:DY:88:LYS:CD	55:DY:88:LYS:N	2.78	0.45
28:D2:22:GLU:O	28:D2:24:LEU:N	2.50	0.45
28:D2:53:LEU:O	28:D2:53:LEU:HG	2.16	0.45
54:DX:35:THR:O	54:DX:36:LYS:O	2.34	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:143:G:O4'	54:DX:38:GLU:HG3	2.17	0.45
35:DA:2637:U:H1'	35:DA:2782:G:H22	1.82	0.45
51:DU:92:ARG:CG	51:DU:95:LEU:H	2.18	0.45
10:AJ:8:LEU:CA	10:AJ:96:ILE:HG22	2.45	0.45
35:DA:2482:G:H1	47:DQ:53:ALA:HB2	1.82	0.45
4:CD:92:VAL:O	4:CD:96:LEU:HD22	2.16	0.45
43:DI:81:VAL:CG2	43:DI:142:VAL:HG13	2.41	0.45
47:BQ:68:ILE:H	47:BQ:68:ILE:CD1	2.21	0.45
35:BA:607:U:H3	35:BA:621:A:H2	1.64	0.45
35:BA:618:C:H2'	35:BA:619:G:C8	2.52	0.45
35:BA:619:G:H5''	35:BA:620:G:OP2	2.17	0.45
35:BA:619:G:H3'	35:BA:620:G:N2	2.31	0.45
35:BA:660:G:H4'	40:BF:38:ARG:NH1	2.32	0.45
46:BP:16:ARG:NH1	46:BP:18:ARG:CG	2.79	0.45
34:D8:29:LYS:NZ	34:D8:44:LYS:CB	2.79	0.45
35:BA:2059:A:C5	35:BA:2503:A:C2	3.04	0.45
35:BA:675:A:C8	35:BA:804:A:C6	3.05	0.45
46:BP:48:PRO:CG	46:BP:49:ARG:N	2.79	0.45
40:DF:45:ARG:CD	40:DF:46:ARG:H	2.30	0.45
40:DF:45:ARG:CG	40:DF:46:ARG:N	2.79	0.45
47:BQ:76:LYS:N	47:BQ:88:GLY:HA3	2.31	0.45
1:AA:1423:G:H2'	1:AA:1424:C:H6	1.81	0.45
49:DS:28:VAL:CG1	49:DS:29:PHE:H	2.09	0.45
2:AB:43:ASP:OD2	2:AB:46:LYS:N	2.44	0.45
27:D1:41:ARG:HH11	27:D1:41:ARG:CG	2.21	0.45
1:CA:666:G:H1'	1:CA:741:G:H22	1.80	0.45
1:CA:673:G:C6	1:CA:734:G:C6	3.05	0.45
2:CB:178:ARG:HH11	2:CB:178:ARG:CB	2.27	0.45
52:DV:71:LEU:CD1	52:DV:72:VAL:N	2.80	0.45
1:AA:1412:C:C2'	1:AA:1413:A:C8	2.83	0.45
35:DA:106:C:H1'	55:DY:2:ARG:CZ	2.41	0.45
35:BA:366:C:C4	35:BA:404:C:H5	2.34	0.45
47:BQ:53:ALA:CA	47:BQ:56:ARG:HB3	2.47	0.45
35:DA:1131:G:C2	35:DA:1132:A:N7	2.84	0.45
35:DA:574:C:N3	39:DE:145:LYS:HE2	2.31	0.45
35:DA:2764:A:H2'	35:DA:2766:G:C8	2.52	0.45
2:AB:115:LEU:HA	2:AB:145:LEU:HD11	1.99	0.45
25:CY:18:LEU:C	25:CY:20:VAL:N	2.67	0.45
1:CA:1268:A:H2'	1:CA:1269:A:C8	2.52	0.45
35:BA:1204:A:N1	35:BA:1241:A:C2	2.85	0.45
12:CL:25:PRO:C	12:CL:27:LEU:H	2.19	0.45
12:CL:28:LYS:C	12:CL:30:ALA:N	2.68	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1228:C:O3'	13:CM:116:THR:HA	2.17	0.45
13:CM:89:GLY:C	13:CM:90:LEU:O	2.55	0.45
25:AY:155:LYS:HA	25:AY:158:GLU:HB3	1.98	0.45
43:BI:98:ALA:O	43:BI:109:ILE:HG21	2.17	0.45
43:BI:109:ILE:HD12	43:BI:111:PRO:HD3	1.98	0.45
1:AA:693:G:N2	23:AW:38:A:C2	2.77	0.45
7:AG:140:ASP:O	7:AG:143:ARG:HB2	2.17	0.45
11:AK:23:ALA:CB	11:AK:91:ARG:HG2	2.45	0.45
22:AV:41:C:H2'	22:AV:42:C:C6	2.51	0.45
13:AM:86:CYS:SG	13:AM:89:GLY:N	2.90	0.45
11:CK:60:ALA:O	11:CK:62:GLN:N	2.49	0.45
11:CK:72:ALA:HB1	11:CK:77:MET:HE3	1.99	0.45
20:AT:58:LYS:O	20:AT:62:LEU:HB2	2.16	0.45
1:AA:866:C:C2	1:AA:867:G:H1'	2.51	0.45
1:AA:865:A:C2	1:AA:918:A:H4'	2.52	0.45
25:CY:38:LEU:O	25:CY:40:HIS:N	2.44	0.45
8:AH:8:ASP:O	8:AH:12:ARG:HG3	2.16	0.45
9:AI:118:LYS:HB2	9:AI:121:ARG:HB2	1.97	0.45
12:CL:89:ARG:HB2	12:CL:89:ARG:CZ	2.46	0.45
9:CI:93:ARG:C	9:CI:95:LYS:H	2.19	0.45
46:DP:113:LYS:HG2	46:DP:115:LEU:CD2	2.46	0.45
46:DP:114:ILE:HD11	46:DP:130:PHE:CZ	2.52	0.45
38:BD:133:LEU:HD12	38:BD:186:HIS:O	2.17	0.45
56:BZ:143:GLY:C	56:BZ:144:LEU:HD22	2.37	0.45
35:BA:323:G:O2'	35:BA:1205:U:N3	2.43	0.45
35:BA:2672:G:C3'	35:BA:2673:G:H5''	2.45	0.45
1:CA:389:A:H2'	1:CA:390:C:H5'	1.98	0.45
1:CA:390:C:O5'	1:CA:390:C:H6	1.98	0.45
54:DX:62:LYS:HB3	54:DX:69:TYR:H	1.82	0.45
1:AA:1443:G:C6	1:AA:1460:A:C2	3.04	0.45
17:CQ:59:ILE:CD1	17:CQ:73:VAL:HA	2.47	0.45
1:AA:255:G:H5''	17:AQ:17:LYS:HB2	1.99	0.45
35:BA:2704:C:C4	35:BA:2705:A:N7	2.85	0.45
32:D6:37:ARG:O	32:D6:48:VAL:O	2.33	0.45
20:CT:24:LEU:O	20:CT:25:ARG:C	2.54	0.45
1:AA:389:A:H2'	1:AA:390:C:H5'	1.99	0.45
35:DA:1786:A:C2	35:DA:2606:C:H1'	2.51	0.45
42:DH:158:HIS:HE1	42:DH:168:PRO:HB2	1.82	0.45
35:DA:1953:A:H2	35:DA:2549:G:N3	2.14	0.45
26:B0:25:ARG:HG3	26:B0:29:GLN:HE21	1.81	0.45
26:B0:42:GLY:HA3	35:BA:2331:G:O4'	2.16	0.45
35:BA:290:G:N2	35:BA:291:C:H1'	2.32	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:347:A:H2'	35:BA:348:G:H8	1.80	0.45
35:BA:916:G:H2'	35:BA:917:A:H5''	1.98	0.45
9:AI:13:ALA:HB2	9:AI:68:GLY:HA3	1.98	0.45
1:AA:1095:U:H2'	1:AA:1096:C:H6	1.82	0.45
4:CD:4:TYR:O	4:CD:5:ILE:CB	2.64	0.45
4:CD:4:TYR:O	4:CD:5:ILE:HB	2.16	0.45
46:BP:56:SER:O	46:BP:57:THR:CB	2.65	0.45
1:CA:895:G:H2'	1:CA:896:C:C6	2.51	0.45
35:BA:977:G:C6	35:BA:987:G:C6	3.05	0.45
53:DW:12:ILE:HG13	53:DW:42:ARG:NH1	2.31	0.45
1:AA:245:C:O2	1:AA:283:C:N3	2.49	0.45
1:CA:928:G:C2	1:CA:1390:U:O2	2.70	0.45
1:AA:885:G:H2'	1:AA:886:G:H8	1.81	0.45
35:DA:2840:C:O2'	35:DA:2841:C:H5'	2.17	0.45
1:CA:1040:U:H2'	1:CA:1041:A:H8	1.81	0.45
35:DA:645:C:O2	35:DA:645:C:C2'	2.64	0.45
3:AC:92:ALA:HB2	3:AC:99:VAL:HG22	1.97	0.45
57:DC:75:LEU:C	57:DC:75:LEU:HD23	2.37	0.45
53:BW:9:TYR:CD2	53:BW:9:TYR:N	2.83	0.45
16:CP:53:VAL:HG23	16:CP:54:GLU:N	2.31	0.45
1:CA:1015:A:H8	1:CA:1015:A:O5'	1.99	0.45
1:AA:650:G:O2'	1:AA:651:C:H5'	2.16	0.45
35:BA:532:A:H4'	35:BA:533:G:C1'	2.46	0.45
38:DD:69:ARG:C	38:DD:71:ASP:H	2.20	0.45
35:BA:2322:A:H2'	35:BA:2323:G:O4'	2.16	0.45
1:CA:373:A:C8	1:CA:482:A:C8	3.05	0.45
9:CI:33:PHE:C	9:CI:35:GLU:H	2.19	0.45
1:CA:189(K):U:H2'	1:CA:189(L):G:C8	2.51	0.45
35:DA:2330:G:N2	35:DA:2386:C:C2	2.84	0.45
35:BA:1048:A:N6	35:BA:1106:A:C8	2.84	0.45
36:DB:13:A:N1	36:DB:69:G:O2'	2.50	0.45
1:AA:411:A:H2'	1:AA:412:A:H4'	1.99	0.45
35:BA:2003:G:C6	35:BA:2004:G:C5	3.05	0.45
53:DW:45:TYR:C	53:DW:45:TYR:CD2	2.89	0.45
35:DA:1145:C:H2'	35:DA:1146:C:C6	2.51	0.45
45:DO:76:ALA:HB3	50:DT:75:ILE:HD13	1.97	0.45
50:DT:61:PHE:CZ	50:DT:76:PHE:HB3	2.52	0.45
35:DA:1778:U:C5	35:DA:1784:A:N3	2.84	0.45
38:DD:35:LYS:HZ1	38:DD:104:TYR:HB2	1.80	0.45
16:CP:19:ILE:CG2	16:CP:36:ILE:HG13	2.42	0.45
35:BA:2759:G:H5'	35:BA:2759:G:H8	1.81	0.45
50:BT:115:ARG:HB3	50:BT:116:ALA:H	1.65	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
50:BT:33:LYS:HE2	50:BT:43:GLN:OE1	2.17	0.45
56:BZ:28:MET:HA	56:BZ:88:PHE:HB2	1.99	0.45
56:BZ:71:VAL:HG13	56:BZ:86:VAL:CG1	2.47	0.45
35:DA:2057:A:O2'	35:DA:2058:A:H5'	2.17	0.45
44:BN:33:LEU:HD23	44:BN:38:HIS:CE1	2.52	0.45
28:B2:13:ALA:N	28:B2:14:ARG:HE	2.15	0.45
28:B2:17:SER:O	28:B2:18:PRO:C	2.53	0.45
35:DA:1862:G:C2	35:DA:1863:G:C8	3.05	0.45
27:B1:71:TYR:O	27:B1:75:GLU:HG2	2.16	0.45
41:BG:41:GLN:O	41:BG:43:LEU:N	2.45	0.45
34:B8:6:THR:O	34:B8:8:LYS:N	2.50	0.45
54:DX:31:HIS:HD2	54:DX:33:LYS:O	2.00	0.45
54:DX:76:ARG:O	54:DX:77:LYS:HB2	2.17	0.45
47:DQ:110:THR:HG1	47:DQ:113:GLN:HG3	1.80	0.45
56:DZ:10:ARG:HG2	56:DZ:38:TYR:HD2	1.81	0.45
56:DZ:89:PHE:CE1	56:DZ:96:VAL:HG21	2.52	0.45
51:DU:76:TYR:O	51:DU:80:ILE:HG12	2.16	0.45
51:DU:96:ALA:C	51:DU:98:LEU:N	2.69	0.45
47:DQ:58:PHE:O	47:DQ:59:ARG:C	2.54	0.45
19:CS:10:PHE:CD1	19:CS:10:PHE:N	2.84	0.45
36:BB:28:C:H42	36:BB:56:G:H1	1.62	0.45
49:BS:101:LEU:HD13	49:BS:101:LEU:O	2.16	0.45
35:BA:610:G:C6	35:BA:611:C:N4	2.85	0.45
40:BF:20:LEU:HD12	40:BF:199:TRP:HH2	1.82	0.45
40:BF:20:LEU:HD13	40:BF:203:GLN:OE1	2.17	0.45
27:D1:89:GLU:C	27:D1:93:GLU:OE2	2.54	0.45
34:D8:40:GLU:CD	34:D8:44:LYS:HE3	2.37	0.45
35:DA:2415:G:O3'	46:DP:66:GLY:CA	2.50	0.45
34:B8:56:GLU:O	34:B8:58:ILE:N	2.50	0.45
35:BA:804:A:H2'	35:BA:806:C:N4	2.31	0.45
47:BQ:43:THR:HG1	47:BQ:45:GLN:HB2	1.80	0.45
47:BQ:75:THR:HA	47:BQ:88:GLY:CA	2.28	0.45
1:AA:1421:G:H2'	1:AA:1422:G:C8	2.51	0.45
49:DS:28:VAL:C	49:DS:89:ARG:HG2	2.37	0.45
27:D1:23:LYS:NZ	27:D1:23:LYS:CA	2.79	0.45
44:DN:28:THR:O	44:DN:31:ALA:HB3	2.17	0.45
44:BN:26:LEU:CD2	44:BN:30:ILE:HD11	2.47	0.45
2:CB:47:THR:O	2:CB:51:LEU:HG	2.17	0.45
4:AD:172:PRO:HD2	4:AD:173:TRP:CZ3	2.52	0.45
4:AD:187:ARG:NH1	4:AD:187:ARG:HG2	2.29	0.45
55:DY:65:ALA:O	55:DY:67:LEU:N	2.50	0.45
43:DI:114:LEU:O	43:DI:129:THR:O	2.35	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
47:DQ:90:VAL:O	47:DQ:90:VAL:HG12	2.16	0.45
18:AR:31:LEU:HG	18:AR:65:ILE:HD13	1.99	0.45
18:AR:73:ALA:HB3	18:AR:79:LEU:HD12	1.97	0.45
25:CY:121:TYR:O	25:CY:124:GLU:HB2	2.17	0.45
43:BI:39:ALA:O	43:BI:40:THR:C	2.55	0.45
35:BA:296:C:N4	35:BA:343:C:H42	2.15	0.45
1:CA:259:G:H2'	1:CA:260:G:H8	1.80	0.45
1:CA:263:A:OP2	20:CT:79:ARG:NH1	2.50	0.45
1:CA:939:G:C4	1:CA:940:C:C5	3.04	0.45
12:CL:6:THR:HG23	12:CL:9:GLN:N	2.11	0.45
27:B1:32:LYS:HG2	35:BA:2396:G:O2'	2.17	0.45
35:BA:1310:G:H1	35:BA:1604:C:H42	1.65	0.45
43:BI:98:ALA:HB1	43:BI:109:ILE:CG1	2.46	0.45
55:BY:19:LYS:HG2	55:BY:19:LYS:O	2.17	0.45
1:AA:691:G:O2'	1:AA:692:U:H5'	2.17	0.45
23:AW:31:G:C5	23:AW:32:G:N7	2.85	0.45
9:CI:118:LYS:HB2	9:CI:121:ARG:HB2	1.99	0.45
9:AI:47:LEU:N	9:AI:47:LEU:CD1	2.80	0.45
31:D5:40:LYS:NZ	31:D5:50:GLY:HA2	2.30	0.45
1:CA:512:U:H2'	1:CA:513:C:H6	1.81	0.45
35:DA:1609:A:C5	35:DA:1616:A:C8	3.05	0.45
35:BA:2298:A:C2	35:BA:2321:G:C4	3.05	0.45
35:DA:542:C:C4	35:DA:543:C:N4	2.82	0.45
46:BP:96:THR:HG22	46:BP:126:VAL:H	1.82	0.45
7:CG:66:VAL:C	7:CG:68:ASN:H	2.19	0.45
46:BP:77:ARG:CB	46:BP:78:PRO:HD2	2.38	0.45
1:CA:1380:U:O2	7:CG:3:ARG:NH1	2.46	0.45
1:CA:936:C:H2'	1:CA:937:A:O4'	2.16	0.45
14:AN:8:GLU:O	14:AN:11:LYS:N	2.44	0.45
35:BA:2308:G:N7	35:BA:2310:A:H5'	2.31	0.45
1:CA:328:C:O2'	1:CA:329:A:OP2	2.28	0.45
1:AA:460:G:N2	1:AA:472:A:H62	2.14	0.45
5:CE:89:ILE:CD1	5:CE:91:LEU:HD11	2.46	0.45
35:DA:2579:C:H4'	39:DE:134:ILE:CD1	2.47	0.45
26:B0:37:LEU:O	26:B0:38:VAL:HG22	2.17	0.45
35:BA:1303:G:N2	35:BA:1304:C:C2	2.84	0.45
1:AA:1303:C:O2	1:AA:1303:C:C2'	2.59	0.45
54:DX:14:SER:O	54:DX:15:GLU:C	2.55	0.45
38:BD:247:ALA:HB2	38:BD:253:GLN:HA	1.99	0.45
35:BA:1528(A):A:N7	35:BA:1529:G:C8	2.85	0.45
1:AA:1397:C:N4	24:AX:22:U:C4	2.81	0.45
1:AA:136:C:H42	1:AA:227:G:H1	1.65	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:302:G:H2'	1:CA:303:A:O4'	2.16	0.45
35:BA:2762:G:C3'	35:BA:2763:G:C5'	2.94	0.45
1:CA:1387:G:C6	1:CA:1388:C:N4	2.85	0.45
35:DA:361:G:C3'	35:DA:362:U:H5''	2.47	0.45
35:BA:2009:G:C2	35:BA:2010:G:C8	3.05	0.45
1:AA:299:G:C6	1:AA:300:A:N1	2.85	0.45
35:DA:987:G:H2'	35:DA:988:A:O4'	2.17	0.45
55:BY:49:VAL:O	55:BY:53:PRO:CG	2.65	0.45
7:AG:22:LEU:HD12	7:AG:22:LEU:O	2.16	0.45
55:DY:49:VAL:O	55:DY:53:PRO:CG	2.65	0.45
25:AY:108:GLU:O	25:AY:111:ARG:N	2.43	0.45
35:DA:1517:G:C2'	35:DA:1518:U:H5'	2.47	0.45
35:DA:426:C:HO2'	35:DA:427:U:H5'	1.82	0.45
35:BA:1655:A:H4'	39:BE:115:GLY:N	2.30	0.45
50:BT:58:ASN:ND2	50:BT:58:ASN:O	2.50	0.45
1:AA:363:A:O2'	1:AA:364:A:H5'	2.16	0.45
53:DW:9:TYR:CD2	53:DW:9:TYR:N	2.84	0.45
50:DT:58:ASN:O	50:DT:58:ASN:ND2	2.50	0.45
35:DA:1165:U:O2'	35:DA:1166:C:H5'	2.16	0.45
1:CA:1235:U:O3'	21:CU:3:LYS:HB2	2.17	0.45
35:BA:2792:G:N3	35:BA:2792:G:H2'	2.31	0.45
35:BA:1745(A):C:H5'	35:BA:1746:G:OP2	2.16	0.45
35:BA:2474:C:H2'	35:BA:2474:C:O2	2.16	0.45
35:BA:791:C:O2	35:BA:794:G:H5'	2.16	0.45
9:AI:33:PHE:C	9:AI:35:GLU:H	2.19	0.45
35:DA:1051:G:C2'	35:DA:1052:C:H5''	2.47	0.45
55:DY:61:ILE:O	55:DY:62:GLU:HB2	2.16	0.45
35:DA:1753:G:C8	35:DA:1755:A:OP2	2.70	0.45
35:DA:2725:A:N7	35:DA:2727:G:C5	2.85	0.45
50:DT:80:SER:CB	50:DT:81:PRO:HD2	2.35	0.45
1:CA:973:G:O3'	14:CN:41:ARG:NH2	2.49	0.45
35:BA:1799:G:O3'	38:BD:264:LYS:NZ	2.47	0.45
38:BD:106:ILE:HD13	38:BD:157:ARG:HB2	1.99	0.45
38:BD:218:ARG:HG3	38:BD:218:ARG:HH11	1.82	0.45
1:CA:18:C:H5''	5:CE:127:ASN:ND2	2.32	0.45
38:DD:21:PHE:O	38:DD:22:SER:C	2.54	0.45
41:DG:107:LEU:HD13	41:DG:178:PHE:HE1	1.82	0.45
41:DG:104:GLU:O	41:DG:108:ASN:N	2.50	0.45
35:BA:631:A:H4'	46:BP:65:ARG:HG3	1.98	0.45
50:BT:29:ARG:HG3	50:BT:84:GLN:O	2.15	0.45
47:BQ:66:ILE:HG22	47:BQ:104:PHE:HE2	1.74	0.45
56:BZ:28:MET:HG2	56:BZ:37:VAL:HG22	1.99	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:DE:48:GLN:CG	39:DE:78:LEU:HD12	2.45	0.45
2:AB:88:ALA:CB	2:AB:223:ILE:HD11	2.47	0.45
51:DU:52:ARG:O	51:DU:55:ARG:N	2.49	0.45
32:D6:51:GLU:O	32:D6:52:VAL:HB	2.17	0.45
49:BS:38:GLN:HG3	49:BS:49:VAL:O	2.16	0.45
49:BS:87:PHE:HZ	49:BS:97:ARG:HH21	1.63	0.45
4:CD:104:VAL:HG21	4:CD:140:VAL:CG2	2.47	0.45
4:CD:173:TRP:C	4:CD:186:LEU:HB2	2.37	0.45
4:CD:178:VAL:C	4:CD:180:GLY:H	2.19	0.45
36:DB:74:U:C3'	36:DB:75:G:C5'	2.90	0.45
35:DA:2640:G:C8	35:DA:2640:G:H5'	2.51	0.45
44:BN:67:LEU:C	44:BN:69:GLN:N	2.69	0.45
35:BA:443:A:OP1	40:BF:46:ARG:HB2	2.16	0.45
35:BA:621:A:H2'	35:BA:622:G:C5'	2.42	0.45
40:BF:101:LEU:HD12	40:BF:102:PRO:CD	2.39	0.45
44:DN:65:LYS:C	44:DN:66:LYS:HE3	2.37	0.45
34:B8:22:VAL:HB	34:B8:53:PRO:HB3	1.95	0.45
35:BA:1187:G:OP1	52:BV:82:ARG:NH2	2.42	0.45
35:BA:832:G:OP1	46:BP:40:SER:HB3	2.16	0.45
35:DA:443:A:OP1	40:DF:46:ARG:HB2	2.17	0.45
40:DF:1:MET:O	40:DF:3:GLU:N	2.49	0.45
47:BQ:7:MET:O	47:BQ:8:LYS:HB3	2.17	0.45
48:DR:76:VAL:HG13	48:DR:77:ARG:N	2.31	0.45
39:BE:163:GLU:O	39:BE:165:VAL:N	2.50	0.45
35:BA:2820:A:H8	39:BE:191:PRO:CB	2.30	0.45
1:AA:1423:G:H2'	1:AA:1424:C:C6	2.52	0.45
1:AA:1436:U:O2'	1:AA:1437:C:H5'	2.17	0.45
50:BT:106:SER:C	50:BT:107:ASP:OD1	2.55	0.45
50:BT:109:GLU:O	50:BT:110:ILE:C	2.54	0.45
2:AB:72:GLY:HA2	2:AB:165:VAL:HG22	1.99	0.45
44:DN:17:ASP:OD2	44:DN:55:VAL:O	2.34	0.45
1:CA:656:C:O2'	1:CA:657:G:H5'	2.17	0.45
6:CF:10:LEU:HD12	6:CF:10:LEU:N	2.31	0.45
11:CK:116:HIS:O	11:CK:117:ASN:HB3	2.17	0.45
18:CR:44:LEU:O	18:CR:51:LEU:HD21	2.17	0.45
35:DA:1204:A:N1	35:DA:1241:A:C2	2.85	0.45
1:AA:408:A:H2'	1:AA:409:G:O4'	2.15	0.45
4:AD:170:VAL:CG1	4:AD:174:LEU:HB2	2.46	0.45
35:DA:307:G:N2	35:DA:309:G:H3'	2.32	0.45
1:AA:1315:U:O2'	1:AA:1316:G:H5'	2.16	0.45
35:DA:869:G:O2'	35:DA:870:A:H5'	2.16	0.45
47:DQ:85:LYS:HG3	47:DQ:86:GLY:H	1.79	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
18:AR:43:PHE:CD1	18:AR:43:PHE:N	2.81	0.45
47:BQ:54:MET:HG3	47:BQ:64:ILE:HD13	1.99	0.45
51:DU:26:GLY:C	51:DU:28:ARG:H	2.20	0.45
1:AA:1105:A:H2'	1:AA:1106:G:H8	1.82	0.45
35:DA:295:G:C2	35:DA:296:C:C6	3.05	0.45
7:AG:102:ARG:HG3	7:AG:106:GLN:NE2	2.30	0.45
35:DA:29:U:O2'	35:DA:30:G:H5'	2.16	0.45
35:BA:1213:A:H2'	35:BA:1214:A:C8	2.47	0.45
1:CA:190:U:O2'	1:CA:191:G:H5'	2.17	0.45
25:AY:6:LEU:C	25:AY:6:LEU:HD23	2.37	0.45
25:AY:6:LEU:C	25:AY:8:ALA:N	2.70	0.45
7:CG:94:ARG:HG3	7:CG:94:ARG:H	1.63	0.45
33:B7:39:ARG:HH11	33:B7:39:ARG:HG2	1.80	0.45
35:DA:2755:C:H6	35:DA:2755:C:H3'	1.81	0.45
42:DH:66:GLY:O	42:DH:67:LEU:C	2.54	0.45
55:BY:15:VAL:HG12	55:BY:17:SER:H	1.81	0.45
2:CB:102:LEU:HD22	2:CB:176:GLU:HB3	1.98	0.45
23:AW:40:C:O2'	23:AW:41:C:H5'	2.17	0.45
8:AH:120:THR:O	8:AH:122:ARG:N	2.50	0.45
24:AX:13:A:HO2'	24:AX:14:U:H5'	1.81	0.45
8:AH:45:ILE:HD13	8:AH:62:TYR:O	2.16	0.45
1:AA:1346:A:H5''	9:AI:120:ARG:NH1	2.24	0.45
42:BH:67:LEU:C	42:BH:71:LEU:HD22	2.37	0.45
9:CI:17:VAL:HA	9:CI:63:ILE:HG23	1.98	0.45
33:D7:29:LYS:HZ2	33:D7:32:LYS:NZ	2.14	0.45
56:BZ:108:PRO:C	56:BZ:109:ALA:O	2.52	0.45
46:BP:100:LEU:CD2	46:BP:100:LEU:N	2.79	0.45
46:BP:80:TYR:CZ	46:BP:111:ARG:HG2	2.52	0.45
7:CG:121:ALA:N	7:CG:124:LEU:HD12	2.31	0.45
35:BA:1786:A:C2	35:BA:2606:C:H1'	2.51	0.45
7:AG:69:VAL:HG12	7:AG:69:VAL:O	2.17	0.45
35:DA:374:A:H2'	35:DA:375:C:O4'	2.17	0.45
26:D0:36:ILE:HA	26:D0:60:PHE:CB	2.47	0.45
1:CA:1465:C:H2'	1:CA:1466:C:H6	1.81	0.45
13:CM:71:ARG:O	13:CM:74:VAL:HB	2.16	0.45
39:DE:173:VAL:CG1	39:DE:174:ASP:N	2.80	0.45
11:AK:96:ARG:O	11:AK:99:GLN:HG2	2.16	0.45
1:CA:814:A:C8	1:CA:816:A:C8	3.05	0.45
13:AM:36:LYS:HB2	13:AM:59:TYR:CZ	2.51	0.45
13:AM:68:GLY:O	13:AM:70:LEU:N	2.49	0.45
26:B0:36:ILE:HA	26:B0:60:PHE:CB	2.47	0.45
2:CB:22:LYS:O	2:CB:24:TRP:N	2.50	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:277:C:OP1	17:AQ:41:LYS:HE3	2.17	0.45
29:D3:29:ARG:O	29:D3:30:ARG:C	2.55	0.45
7:AG:47:CYS:CA	7:AG:58:PRO:HG3	2.47	0.45
15:AO:82:ILE:HG23	15:AO:83:GLU:N	2.32	0.45
35:BA:1635:G:H2'	35:BA:1636:C:H6	1.82	0.45
28:D2:30:ARG:N	28:D2:30:ARG:CD	2.78	0.45
54:DX:89:ILE:O	54:DX:89:ILE:CG2	2.65	0.45
46:BP:59:LEU:HA	46:BP:61:ARG:HD2	1.99	0.45
36:BB:82:G:H2'	36:BB:83:G:C8	2.49	0.45
1:CA:243:A:C2	1:CA:246:A:C8	3.05	0.45
1:CA:245:C:C2'	1:CA:246:A:H5'	2.47	0.45
1:AA:21:G:H2'	1:AA:22:G:C8	2.51	0.45
1:AA:902:G:O2'	1:AA:903:G:H5'	2.17	0.45
35:DA:479:A:HO2'	35:DA:481:G:H8	1.63	0.45
53:DW:50:VAL:HG13	53:DW:105:VAL:HG21	1.99	0.45
35:DA:718:A:H2'	35:DA:719:C:O4'	2.16	0.45
1:CA:1030(C):G:N7	1:CA:1031:G:N2	2.65	0.45
35:BA:448:U:H4'	35:BA:449:A:OP2	2.17	0.45
19:CS:22:LEU:C	19:CS:22:LEU:HD13	2.37	0.45
35:DA:1759:A:H2'	35:DA:1760:A:H8	1.80	0.45
1:AA:761:G:H2'	1:AA:762:C:H6	1.81	0.45
56:DZ:175:VAL:HA	56:DZ:176:PRO:HD3	1.84	0.45
35:BA:1655:A:O2'	39:BE:115:GLY:HA3	2.17	0.45
1:AA:1006:C:H2'	1:AA:1007:C:C6	2.52	0.45
38:BD:138:VAL:HG21	38:BD:166:GLN:O	2.17	0.45
35:BA:373:U:H1'	35:BA:423:A:N3	2.32	0.45
1:AA:936:C:H2'	1:AA:937:A:O4'	2.17	0.45
35:BA:1695:G:H2'	35:BA:1696:G:C4'	2.46	0.45
35:BA:1910:G:N1	35:BA:1921:G:C5	2.85	0.45
11:CK:48:ILE:C	11:CK:50:TYR:H	2.20	0.45
23:CW:51:U:H3	23:CW:65:G:H22	1.64	0.45
35:DA:2553:G:H3'	35:DA:2554:U:H5''	1.98	0.45
2:CB:23:ARG:HG2	2:CB:23:ARG:O	2.16	0.45
42:BH:59:ARG:HG2	42:BH:59:ARG:O	2.17	0.45
1:CA:152:A:N6	1:CA:170:U:N3	2.65	0.45
10:AJ:47:PHE:HD1	10:AJ:47:PHE:O	2.00	0.45
16:AP:29:ASP:OD2	16:AP:29:ASP:N	2.50	0.45
35:DA:1638:C:H1'	35:DA:2698:U:O2'	2.17	0.45
35:DA:2711:A:OP2	35:DA:2712(A):A:OP2	2.35	0.45
45:DO:44:LYS:HA	45:DO:44:LYS:HD3	1.81	0.45
50:DT:62:THR:CG2	50:DT:75:ILE:HA	2.24	0.45
1:CA:1231:G:O2'	1:CA:1232:U:H5'	2.16	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:BD:198:ASN:ND2	38:BD:198:ASN:C	2.69	0.45
1:CA:920:U:C2	1:CA:921:U:C5	3.05	0.45
41:DG:39:ILE:HA	41:DG:157:ILE:CB	2.46	0.45
41:DG:180:PHE:CB	41:DG:182:LYS:HG3	2.47	0.45
34:B8:35:GLN:NE2	34:B8:36:LYS:HZ2	2.15	0.45
35:BA:2683:C:O2'	35:BA:2684:U:H5'	2.16	0.45
35:BA:2689:U:O2'	35:BA:2690:C:OP2	2.26	0.45
45:BO:6:THR:CG2	45:BO:7:TYR:H	2.23	0.45
50:BT:66:VAL:HG13	50:BT:71:GLY:N	2.31	0.45
39:DE:119:ARG:HD2	39:DE:120:TRP:CE2	2.51	0.45
35:BA:2041:U:H2'	35:BA:2042:A:C8	2.52	0.45
35:BA:996:A:H4'	51:BU:92:ARG:NE	2.32	0.45
51:BU:105:VAL:HG12	51:BU:109:LEU:HD11	1.99	0.45
42:DH:136:ILE:H	42:DH:136:ILE:CD1	2.23	0.45
42:DH:151:ILE:HD13	42:DH:151:ILE:N	2.32	0.45
39:DE:83:ASP:O	39:DE:84:PHE:HB2	2.17	0.45
2:AB:236:TYR:HB3	2:AB:239:VAL:HB	1.99	0.45
2:AB:74:LYS:O	2:AB:75:LYS:C	2.55	0.45
41:BG:161:THR:HG22	41:BG:163:ALA:N	2.31	0.45
54:DX:82:GLN:HG3	54:DX:83:VAL:H	1.74	0.45
35:DA:904:C:H2'	35:DA:905:U:H5'	1.99	0.45
35:DA:2467:C:H4'	47:DQ:123:HIS:CE1	2.52	0.45
51:DU:87:GLY:O	51:DU:88:ILE:HG23	2.16	0.45
19:CS:10:PHE:HE2	19:CS:70:LYS:NZ	2.15	0.45
1:CA:502:G:C2	1:CA:544:G:C2	3.05	0.45
47:BQ:20:ALA:O	47:BQ:23:GLY:N	2.37	0.45
40:BF:103:LYS:HA	40:BF:106:ARG:HE	1.81	0.45
35:BA:2050:C:H2'	35:BA:2051:A:C8	2.51	0.45
35:BA:1224:C:O2'	35:BA:1225:G:H5'	2.16	0.45
35:BA:2070:G:C2	35:BA:2071:A:C4	3.05	0.45
35:DA:443:A:OP1	40:DF:46:ARG:CB	2.64	0.45
35:BA:869:G:O2'	47:BQ:8:LYS:HD3	2.17	0.45
3:AC:112:SER:OG	3:AC:114:PRO:HD2	2.17	0.45
1:AA:63:C:H42	1:AA:104:G:H1	1.64	0.45
1:AA:327:A:C2	1:AA:329:A:C4	3.05	0.45
35:DA:2376:A:H2'	35:DA:2377:A:O4'	2.17	0.45
36:DB:7:G:H2'	36:DB:8:U:O4'	2.16	0.45
49:DS:89:ARG:CB	49:DS:97:ARG:HH22	2.30	0.45
2:CB:236:TYR:HB3	2:CB:239:VAL:HB	1.99	0.45
2:AB:47:THR:O	2:AB:51:LEU:HG	2.16	0.45
35:DA:202:U:O2'	35:DA:203:C:H5'	2.16	0.45
44:BN:103:VAL:O	44:BN:106:MET:HB2	2.16	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:CB:69:LEU:C	2:CB:69:LEU:CD1	2.85	0.45
35:DA:674:G:H2'	35:DA:804:A:H61	1.82	0.45
35:DA:808:G:O2'	35:DA:1254:A:O2'	2.30	0.45
46:DP:23:PRO:HB2	46:DP:33:ARG:NE	2.32	0.45
35:DA:684:G:N2	35:DA:787:U:H2'	2.31	0.45
35:BA:1885:A:H2'	35:BA:1886:C:O4'	2.17	0.45
1:AA:1316:G:H2'	1:AA:1317:C:H5'	1.99	0.45
18:AR:40:LEU:O	18:AR:42:ARG:N	2.50	0.45
35:BA:2738:A:C2	35:BA:2739:U:C6	3.05	0.45
1:CA:780:A:C2	1:CA:803:G:C6	3.05	0.45
35:DA:2740:A:C2'	35:DA:2741:A:C8	2.92	0.45
35:DA:27:G:H2'	35:DA:28:A:OP2	2.17	0.45
25:CY:64:ARG:N	25:CY:64:ARG:HD2	2.31	0.45
21:CU:24:ARG:HD2	21:CU:24:ARG:N	2.32	0.45
12:CL:32:PHE:CB	12:CL:84:LEU:HD21	2.46	0.45
25:AY:172:ALA:O	25:AY:175:LEU:N	2.49	0.45
11:AK:41:THR:HG21	11:AK:71:LYS:CD	2.47	0.45
26:B0:16:SER:CB	35:BA:2261:C:H3'	2.47	0.45
55:BY:71:LYS:HB2	55:BY:71:LYS:HZ2	1.82	0.45
35:DA:619:G:H3'	35:DA:620:G:N2	2.31	0.45
11:CK:64:ALA:C	11:CK:66:LEU:N	2.69	0.45
11:CK:41:THR:HG21	11:CK:71:LYS:CD	2.47	0.45
1:CA:1105:A:H2'	1:CA:1106:G:H8	1.81	0.45
1:AA:863:U:H2'	1:AA:865:A:OP2	2.16	0.45
1:AA:922:G:H4'	5:AE:20:GLN:HA	1.99	0.45
1:AA:18:C:C5'	5:AE:127:ASN:HD21	2.28	0.45
43:DI:12:LEU:N	43:DI:12:LEU:HD23	2.32	0.45
1:CA:1351:U:H6	1:CA:1351:U:O5'	2.00	0.45
8:AH:26:VAL:CG1	8:AH:59:LEU:HB2	2.47	0.45
9:AI:89:ASN:C	9:AI:91:ASP:H	2.19	0.45
8:CH:10:LEU:O	8:CH:14:ARG:HB2	2.17	0.45
8:CH:5:PRO:O	8:CH:8:ASP:HB3	2.16	0.45
5:AE:147:ASP:C	5:AE:150:ARG:HB3	2.37	0.45
9:AI:119:ALA:O	9:AI:120:ARG:HB2	2.17	0.45
1:CA:514:C:O2'	1:CA:515:G:H5'	2.17	0.45
38:BD:133:LEU:O	38:BD:136:ILE:HG13	2.16	0.45
1:CA:932:C:H4'	7:CG:4:ARG:NH2	2.32	0.45
7:AG:120:ILE:HG22	7:AG:124:LEU:CD1	2.46	0.45
6:AF:45:LEU:CD1	6:AF:46:ARG:N	2.78	0.45
26:D0:7:LEU:CA	47:DQ:83:MET:SD	3.05	0.45
1:CA:1425:U:H1'	1:CA:1476:G:N2	2.32	0.45
35:BA:1578:U:H2'	35:BA:1579:A:H5''	1.99	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1197:G:O2'	1:AA:1198:G:H5'	2.17	0.45
17:AQ:59:ILE:HG23	17:AQ:71:PHE:HB3	1.98	0.45
5:AE:77:PRO:HG2	5:AE:78:HIS:H	1.82	0.45
3:CC:178:LEU:C	3:CC:180:ALA:H	2.19	0.45
1:CA:10:A:H2'	1:CA:11:G:C8	2.51	0.45
46:DP:95:VAL:HG23	46:DP:125:VAL:CB	2.46	0.45
35:BA:2014:A:C2	35:BA:2015:A:C2	3.05	0.45
35:DA:469:G:C2'	35:DA:470:A:H5''	2.46	0.45
33:D7:2:LYS:HG2	35:DA:1620:G:O2'	2.17	0.45
53:DW:86:LEU:HA	53:DW:87:PRO:HD3	1.81	0.45
8:CH:107:LEU:HD23	8:CH:107:LEU:O	2.17	0.45
1:CA:1277:C:H2'	1:CA:1278:U:H5'	1.99	0.45
1:AA:276:G:O2'	1:AA:277:C:H5'	2.17	0.45
7:AG:50:ILE:O	7:AG:50:ILE:HG22	2.16	0.45
15:AO:32:LEU:O	15:AO:36:ILE:HG13	2.16	0.45
15:AO:53:HIS:O	15:AO:56:LEU:HB3	2.16	0.45
3:AC:76:VAL:CG2	3:AC:77:ILE:N	2.79	0.45
35:BA:361:G:C3'	35:BA:362:U:H5''	2.46	0.45
35:DA:523:C:C5	35:DA:524:U:H5	2.34	0.45
35:BA:184:C:H2'	35:BA:185:U:H6	1.77	0.45
38:DD:247:ALA:CB	38:DD:253:GLN:HA	2.46	0.45
56:DZ:100:VAL:HG22	56:DZ:101:PRO:HD2	1.99	0.45
33:B7:48:LYS:CD	33:B7:48:LYS:N	2.79	0.45
36:BB:60:C:O2'	36:BB:61:G:H5'	2.16	0.45
1:AA:359:U:H2'	1:AA:360:A:H8	1.80	0.45
35:DA:1531:C:H3'	35:DA:1532:C:C5'	2.46	0.45
23:CW:43:G:H2'	23:CW:44:A:C5'	2.46	0.45
35:DA:2861:G:C2	35:DA:2862:G:C8	3.05	0.45
6:AF:98:LEU:HD12	6:AF:98:LEU:N	2.31	0.45
35:DA:1350:C:C2'	35:DA:1351:C:H5'	2.47	0.45
35:BA:2037:G:H2'	35:BA:2038:G:H8	1.79	0.45
35:DA:1013:C:O2'	35:DA:1014:U:H5'	2.16	0.45
35:DA:949:C:O2'	35:DA:950:G:H5'	2.16	0.45
11:AK:18:ARG:O	11:AK:33:THR:N	2.47	0.45
35:BA:1557:C:OP2	35:BA:1558:A:O2'	2.35	0.45
35:BA:2552:U:H2'	35:BA:2554:U:H5''	1.98	0.45
7:AG:57:GLU:C	7:AG:59:LEU:H	2.20	0.45
38:DD:85:ASP:OD1	38:DD:87:ASN:HB2	2.17	0.45
4:AD:21:LEU:HD22	4:AD:115:ARG:HG3	1.98	0.45
35:DA:2228:G:C6	35:DA:2229:C:C4	3.05	0.45
35:DA:1989:G:H2'	35:DA:1990:C:H5'	1.98	0.45
45:DO:11:ALA:HB2	45:DO:64:ARG:NH2	2.32	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:CN:37:PHE:CE1	14:CN:53:LEU:HD22	2.50	0.45
38:BD:206:LEU:HD23	38:BD:211:ARG:NH1	2.32	0.45
5:CE:20:GLN:O	5:CE:23:GLY:O	2.35	0.45
50:BT:83:ILE:CG1	50:BT:84:GLN:HG2	2.45	0.45
36:BB:74:U:H3'	36:BB:75:G:H5''	1.97	0.45
56:BZ:125:LEU:O	56:BZ:165:VAL:CG2	2.65	0.45
35:BA:994:C:H1'	52:BV:10:LYS:HE2	1.99	0.45
52:BV:2:PHE:O	52:BV:3:ALA:HB2	2.16	0.45
1:AA:972:C:H5'	10:AJ:57:LYS:HZ3	1.82	0.45
28:B2:32:LEU:HG	28:B2:33:MET:H	1.81	0.45
28:B2:46:GLN:O	28:B2:50:ILE:O	2.35	0.45
35:BA:1601:G:OP2	54:BX:58:HIS:CD2	2.70	0.45
39:DE:88:GLY:O	39:DE:89:ASP:CB	2.64	0.45
35:DA:61:G:H1	35:DA:94:C:N4	2.13	0.45
54:DX:51:VAL:CG1	54:DX:80:ILE:N	2.79	0.45
56:DZ:69:THR:O	56:DZ:70:LEU:HD23	2.17	0.45
1:AA:1057:G:H5''	3:AC:154:SER:HG	1.80	0.45
49:BS:101:LEU:C	49:BS:101:LEU:HD13	2.38	0.45
49:BS:89:ARG:CB	49:BS:97:ARG:HH22	2.30	0.45
4:CD:58:LEU:CD1	4:CD:59:ARG:N	2.77	0.45
4:CD:63:LYS:O	4:CD:64:LEU:C	2.54	0.45
43:DI:87:LYS:HD2	43:DI:121:LYS:O	2.17	0.45
43:DI:89:TYR:O	43:DI:121:LYS:HE2	2.17	0.45
35:BA:239:U:O2'	35:BA:622:G:H4'	2.16	0.45
40:BF:34:TRP:O	40:BF:35:GLU:C	2.54	0.45
46:BP:16:ARG:HD3	46:BP:16:ARG:O	2.17	0.45
5:CE:55:VAL:O	5:CE:58:ALA:HB3	2.16	0.45
35:BA:1256:G:O2'	40:BF:82:ILE:HD12	2.16	0.45
35:BA:27:G:C2'	35:BA:28:A:OP2	2.64	0.45
35:BA:576:U:H2'	35:BA:577:G:H8	1.82	0.45
35:BA:814:C:H1'	35:BA:1225:G:H21	1.81	0.45
52:BV:72:VAL:O	52:BV:73:SER:HB3	2.17	0.45
52:BV:85:LYS:O	52:BV:87:HIS:N	2.45	0.45
35:BA:300:A:C6	35:BA:334:C:H5'	2.52	0.45
49:DS:27:SER:CA	49:DS:89:ARG:HD2	2.42	0.45
49:DS:97:ARG:O	49:DS:98:VAL:C	2.54	0.45
2:AB:197:VAL:HB	2:AB:200:ILE:HG12	1.99	0.45
44:DN:29:LYS:O	44:DN:31:ALA:N	2.49	0.45
47:BQ:110:THR:HG1	47:BQ:113:GLN:HG3	1.81	0.45
6:CF:72:VAL:O	6:CF:75:LEU:HB2	2.17	0.45
15:CO:56:LEU:O	15:CO:57:LEU:C	2.55	0.45
34:D8:59:LYS:CB	34:D8:59:LYS:NZ	2.75	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AD:108:LEU:N	4:AD:108:LEU:HD12	2.32	0.45
35:DA:79:G:C4	35:DA:80:G:C8	3.05	0.45
4:AD:61:LYS:NZ	4:AD:62:GLN:NE2	2.65	0.45
6:AF:10:LEU:HD13	6:AF:61:LEU:CD1	2.45	0.45
6:AF:69:GLU:O	6:AF:70:ASP:C	2.55	0.45
18:AR:44:LEU:O	18:AR:51:LEU:HD21	2.17	0.45
1:CA:802:A:C2'	1:CA:803:G:H5'	2.46	0.45
35:DA:2024:G:H2'	35:DA:2025:C:C6	2.50	0.45
44:DN:77:GLY:O	44:DN:78:TYR:CB	2.64	0.45
1:AA:1106:G:H5''	3:AC:172:ARG:HG2	1.98	0.45
25:CY:150:SER:C	25:CY:152:ASP:N	2.71	0.45
43:BI:12:LEU:HD23	43:BI:12:LEU:N	2.32	0.45
1:AA:451:A:C1'	1:AA:452:A:C8	2.99	0.45
16:AP:40:ASP:H	16:AP:48:TRP:HB2	1.82	0.45
1:CA:192:U:C2	1:CA:193:C:C5	3.05	0.45
44:BN:76:SER:O	44:BN:77:GLY:O	2.34	0.45
1:AA:685:G:H21	1:AA:686:U:H3	1.61	0.45
11:AK:69:ALA:O	11:AK:73:MET:HG2	2.17	0.45
35:DA:2746:U:H2'	35:DA:2747:G:H8	1.81	0.45
1:CA:602:A:O2'	1:CA:603:U:H5'	2.17	0.45
35:BA:2247:A:H2'	35:BA:2248:C:H6	1.81	0.45
1:CA:1075:C:H5'	2:CB:103:THR:HG21	1.99	0.45
39:DE:132:HIS:CD2	39:DE:135:HIS:NE2	2.84	0.45
8:CH:23:SER:HB2	8:CH:61:VAL:O	2.16	0.45
1:AA:1342:C:H2'	1:AA:1343:G:C8	2.51	0.45
42:BH:66:GLY:O	42:BH:69:ARG:N	2.50	0.45
9:CI:47:LEU:N	9:CI:47:LEU:CD1	2.79	0.45
5:CE:145:LYS:C	5:CE:148:VAL:HB	2.36	0.45
35:BA:1175:U:O3'	35:BA:1176:G:H3'	2.16	0.45
46:BP:114:ILE:HD11	46:BP:130:PHE:CE2	2.52	0.45
35:DA:2092:U:C4'	35:DA:2093:G:H5''	2.37	0.45
31:B5:23:HIS:O	31:B5:24:ALA:C	2.56	0.45
40:BF:178:PRO:HG2	40:BF:179:GLU:HG3	1.99	0.45
35:BA:2831:G:P	39:BE:58:ARG:NH1	2.90	0.45
35:DA:121:G:H2'	35:DA:122:G:C8	2.52	0.45
23:CW:19:G:H1'	23:CW:59:A:C2	2.51	0.45
26:D0:51:VAL:CG2	26:D0:81:VAL:HG23	2.47	0.45
4:AD:128:VAL:CG1	4:AD:129:ASN:H	2.12	0.45
1:AA:662:G:O2'	1:AA:836:G:H5''	2.17	0.45
1:AA:833:U:H2'	1:AA:834:C:C5	2.52	0.45
35:BA:523:C:C4	35:BA:524:U:C5	3.05	0.45
35:BA:2627:G:N2	35:BA:2781:A:C2	2.85	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:470:A:H2'	35:DA:471:A:O4'	2.17	0.45
54:BX:63:LYS:O	54:BX:68:ARG:HA	2.17	0.45
35:BA:1710:C:H2'	35:BA:1711:C:H6	1.80	0.45
35:BA:447:A:C4	35:BA:473:G:C8	3.05	0.45
26:B0:39:ARG:NH2	35:BA:2354:G:N2	2.64	0.45
1:AA:1302:U:O2'	1:AA:1303:C:H5'	2.17	0.45
12:CL:119:LYS:HD3	12:CL:120:TYR:CE1	2.50	0.45
29:D3:40:THR:O	29:D3:43:ILE:N	2.49	0.45
28:D2:36:ARG:NH1	54:DX:92:LEU:HD22	2.32	0.45
35:DA:916:G:H2'	35:DA:917:A:H5''	1.99	0.45
35:DA:154:G:C6	35:DA:173:G:C6	3.05	0.45
35:BA:2350:C:H2'	35:BA:2351:G:O4'	2.17	0.45
35:DA:479:A:H61	35:DA:503:A:H61	1.65	0.45
1:AA:296:U:H2'	1:AA:297:G:O4'	2.17	0.45
17:AQ:10:VAL:HG12	17:AQ:53:LEU:CD1	2.46	0.45
35:BA:1406:U:H3'	35:BA:1407:C:C6	2.46	0.45
53:DW:65:LEU:CD2	53:DW:67:ASP:HB2	2.47	0.45
53:DW:65:LEU:HD22	53:DW:68:ARG:H	1.81	0.45
35:DA:1935:G:H1'	35:DA:1964:G:H21	1.82	0.45
1:AA:1046:A:H2'	1:AA:1046:A:N3	2.30	0.45
36:DB:16:G:H2'	36:DB:17:C:C6	2.51	0.45
1:AA:1040:U:H2'	1:AA:1041:A:H8	1.81	0.45
35:BA:1444:G:C2	35:BA:1548:C:C2	3.05	0.45
35:BA:838:C:N4	35:BA:940:G:H1	2.14	0.45
35:BA:702:G:C2	35:BA:731:C:N3	2.85	0.45
35:DA:702:G:C2	35:DA:731:C:N3	2.85	0.45
1:CA:189(E):U:O2'	1:CA:189(F):U:H5'	2.16	0.45
11:CK:48:ILE:O	11:CK:50:TYR:N	2.42	0.45
35:BA:178:G:O2'	35:BA:179:G:H5'	2.17	0.45
35:BA:151:C:H2'	35:BA:152:G:H8	1.80	0.45
2:AB:221:LEU:C	2:AB:221:LEU:HD13	2.37	0.45
2:AB:114:ARG:HD2	2:AB:118:LEU:HG	1.99	0.45
39:DE:72:VAL:O	39:DE:73:GLU:O	2.34	0.45
53:DW:103:ILE:HG13	53:DW:103:ILE:O	2.17	0.45
35:DA:2474:C:O2	35:DA:2474:C:C2'	2.64	0.45
9:CI:25:LYS:HG3	9:CI:25:LYS:O	2.16	0.45
9:AI:125:TYR:CD2	9:AI:125:TYR:C	2.88	0.45
57:DC:42:GLU:O	57:DC:212:VAL:HA	2.17	0.45
35:DA:2713:A:C2'	35:DA:2714:G:H5'	2.47	0.45
50:DT:100:TYR:CD2	50:DT:103:ARG:CZ	2.95	0.45
50:DT:109:GLU:O	50:DT:110:ILE:C	2.54	0.45
50:DT:83:ILE:O	50:DT:84:GLN:C	2.55	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
43:BI:87:LYS:CE	43:BI:121:LYS:HG2	2.47	0.45
1:CA:1230:C:C2'	1:CA:1231:G:H5'	2.46	0.45
10:CJ:48:THR:CB	10:CJ:62:HIS:HB3	2.47	0.45
14:CN:24:CYS:HB3	14:CN:27:CYS:O	2.16	0.45
14:CN:26:ARG:HB2	14:CN:39:LEU:CD2	2.47	0.45
35:BA:1798:U:N3	35:BA:1819:A:C2	2.85	0.45
38:BD:241:PRO:O	38:BD:242:ARG:HB2	2.16	0.45
38:BD:39:LYS:HB2	38:BD:62:TYR:CB	2.47	0.45
35:DA:729:G:C4	35:DA:1775:U:C2	3.05	0.45
34:B8:25:MET:HB3	34:B8:26:LYS:H	1.52	0.45
34:B8:30:ARG:O	34:B8:30:ARG:CG	2.65	0.45
47:DQ:34:LEU:HG	47:DQ:103:MET:HB2	1.99	0.45
56:BZ:27:VAL:O	56:BZ:27:VAL:HG13	2.16	0.45
39:BE:1:MET:H2	39:BE:84:PHE:HB2	1.82	0.45
44:BN:38:HIS:O	44:BN:40:PRO:HD3	2.16	0.45
51:BU:108:GLU:OE1	51:BU:112:ARG:NH2	2.46	0.45
28:B2:53:LEU:HG	35:BA:77:C:H5'	1.97	0.45
54:BX:35:THR:HG23	54:BX:36:LYS:N	2.32	0.45
39:DE:65:GLY:O	39:DE:66:HIS:C	2.55	0.45
2:AB:236:TYR:C	2:AB:238:LEU:H	2.20	0.45
41:BG:133:LEU:C	41:BG:133:LEU:CD1	2.86	0.45
41:BG:77:ILE:C	41:BG:79:ASN:N	2.70	0.45
42:BH:146:ALA:O	42:BH:148:ILE:N	2.50	0.45
42:BH:89:ILE:HG12	42:BH:90:LYS:N	2.32	0.45
10:AJ:8:LEU:HB2	10:AJ:16:LEU:HD11	1.98	0.45
1:AA:1203:C:H2'	1:AA:1204:A:O4'	2.18	0.45
36:BB:49:C:O2'	36:BB:50:G:H5'	2.17	0.45
49:BS:25:ARG:HA	49:BS:87:PHE:O	2.17	0.45
4:CD:154:ASN:HB2	4:CD:159:ARG:HH21	1.82	0.45
35:BA:259:G:N2	35:BA:621:A:H8	2.07	0.45
35:DA:1018:C:H2'	35:DA:1019:U:H6	1.82	0.45
35:BA:27:G:H2'	35:BA:28:A:OP2	2.17	0.45
40:DF:107:LYS:O	40:DF:108:LYS:C	2.55	0.45
40:DF:114:VAL:HG12	40:DF:192:LEU:CD1	2.47	0.45
35:DA:1586:A:N1	35:DA:1587:A:C4	2.85	0.45
35:DA:1652:A:H62	48:DR:11:ASN:ND2	2.14	0.45
1:AA:61:G:O2'	1:AA:62:U:H5'	2.17	0.45
35:BA:1281:G:O6	35:BA:1286:A:N7	2.50	0.45
35:BA:1753:G:C8	35:BA:1755:A:OP2	2.70	0.45
35:BA:2714:G:H8	35:BA:2714:G:H5''	1.81	0.45
48:BR:41:ALA:C	48:BR:43:GLU:N	2.68	0.45
49:DS:66:ALA:O	49:DS:67:ARG:HB2	2.17	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:BN:30:ILE:O	44:BN:30:ILE:HG22	2.16	0.45
44:BN:35:ARG:HD3	44:BN:37:LYS:HD3	1.99	0.45
55:DY:11:ASP:OD1	55:DY:12:THR:N	2.50	0.45
55:DY:22:GLY:O	55:DY:23:ARG:CG	2.59	0.45
18:AR:36:ASN:HB2	18:AR:39:VAL:CG2	2.46	0.45
35:DA:2023:G:O2'	35:DA:2024:G:H5'	2.17	0.45
7:AG:6:ARG:O	7:AG:7:ALA:C	2.55	0.45
25:CY:161:ILE:O	25:CY:162:GLN:C	2.56	0.45
1:CA:1446:U:C2	1:CA:1457:G:N1	2.85	0.45
50:DT:11:GLU:N	50:DT:11:GLU:OE1	2.47	0.45
7:CG:104:LEU:H	7:CG:104:LEU:HD22	1.82	0.45
1:AA:553:A:O2'	1:AA:554:C:H5'	2.16	0.45
1:CA:691:G:O2'	1:CA:692:U:H5'	2.17	0.45
11:CK:23:ALA:O	11:CK:87:THR:N	2.48	0.45
7:CG:92:SER:CB	7:CG:94:ARG:HE	2.30	0.45
35:DA:2245:U:H5'	35:DA:2246:G:C5'	2.41	0.45
43:BI:97:ILE:CD1	43:BI:116:LEU:HD22	2.46	0.45
40:DF:132:VAL:CG2	40:DF:133:ASN:H	2.05	0.45
26:B0:12:ASN:O	26:B0:14:ARG:N	2.50	0.45
55:BY:31:LEU:CD1	55:BY:34:LYS:N	2.77	0.45
1:AA:690:G:N1	1:AA:691:G:C2	2.85	0.45
40:DF:102:PRO:O	40:DF:103:LYS:C	2.55	0.45
20:AT:64:ASP:OD1	20:AT:81:LYS:HD2	2.17	0.45
1:CA:1118:C:OP1	9:CI:104:ARG:HD3	2.16	0.45
8:AH:7:ALA:HA	8:AH:10:LEU:HG	1.98	0.45
31:B5:40:LYS:HZ3	31:B5:46:CYS:N	2.14	0.45
54:DX:26:TYR:HD1	54:DX:26:TYR:H	1.62	0.45
42:BH:38:SER:C	42:BH:40:GLU:N	2.71	0.45
33:D7:39:ARG:HH11	33:D7:39:ARG:HG2	1.82	0.45
40:BF:139:PHE:O	40:BF:142:TRP:HB3	2.17	0.45
35:BA:1264:G:C3'	35:BA:1265:A:H5''	2.47	0.45
1:AA:586:C:H1'	1:AA:878:G:O2'	2.17	0.45
1:CA:1490:C:H2'	1:CA:1491:G:O4'	2.17	0.45
35:BA:491:G:N2	35:BA:492:A:H1'	2.32	0.45
2:AB:105:PHE:O	2:AB:106:LYS:C	2.55	0.45
35:BA:16:G:H2'	35:BA:17:G:H8	1.82	0.45
1:CA:712:A:O2'	1:CA:713:G:H5'	2.17	0.45
17:CQ:60:ILE:HG12	17:CQ:61:GLU:N	2.31	0.45
1:CA:1437:C:H2'	1:CA:1438:G:O5'	2.17	0.45
20:CT:12:ALA:C	20:CT:14:LYS:H	2.20	0.45
35:DA:1937:A:H2'	35:DA:1938:A:H5'	1.99	0.45
31:D5:25:LEU:HD12	53:DW:23:LEU:HD11	1.98	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1364:G:H2'	35:DA:1364:G:N3	2.32	0.45
5:CE:76:ILE:HG23	5:CE:77:PRO:CD	2.46	0.45
32:B6:32:ASN:CG	32:B6:33:LYS:N	2.64	0.45
1:CA:1255:G:H5'	3:CC:26:LYS:NZ	2.32	0.45
35:BA:1230:C:O2'	35:BA:1231:G:H5'	2.17	0.45
8:CH:31:PHE:HA	8:CH:34:GLU:HG2	1.98	0.45
19:AS:41:VAL:CG1	19:AS:44:MET:HB2	2.46	0.45
35:BA:967:C:C2'	35:BA:968:G:H5'	2.47	0.45
13:AM:8:GLU:C	13:AM:9:ILE:HD12	2.38	0.45
35:BA:1301:A:O2'	35:BA:1302:A:P	2.75	0.45
1:AA:1118:C:P	9:AI:104:ARG:HG3	2.57	0.45
35:BA:2392:A:H1'	46:BP:60:MET:HE3	1.99	0.45
46:BP:59:LEU:CA	46:BP:61:ARG:CZ	2.90	0.45
35:DA:2660:A:H2'	35:DA:2661:G:O4'	2.16	0.45
27:B1:41:ARG:HH12	35:BA:189:G:C3'	2.30	0.45
35:DA:1450:G:H2'	35:DA:1450(A):C:H6	1.81	0.45
35:DA:523:C:C4	35:DA:524:U:C5	3.05	0.45
35:BA:2350:C:O2'	35:BA:2351:G:H5'	2.16	0.45
1:CA:299:G:C6	1:CA:300:A:C6	3.05	0.45
17:AQ:12:SER:HA	17:AQ:14:LYS:HZ1	1.82	0.45
1:AA:785:G:C2'	1:AA:786:G:H5'	2.47	0.45
1:AA:1293:G:O2'	1:AA:1294:G:P	2.75	0.45
53:DW:62:HIS:O	53:DW:64:MET:HG3	2.16	0.45
36:BB:61:G:C2	36:BB:62:C:C2	3.05	0.45
50:BT:6:LEU:O	50:BT:6:LEU:HD23	2.17	0.45
1:CA:473:G:H5''	16:CP:81:ARG:NE	2.30	0.45
29:B3:22:ALA:O	29:B3:25:ALA:HB3	2.16	0.45
1:CA:1246:C:H2'	1:CA:1247:U:H6	1.81	0.45
35:DA:35:G:O2'	35:DA:36:G:H5'	2.17	0.45
35:DA:2828:C:H2'	35:DA:2829:C:H6	1.80	0.45
35:DA:1668:A:C5	35:DA:1674:G:C5	3.04	0.45
35:DA:2560:C:C2'	35:DA:2561:A:H5'	2.46	0.45
35:DA:2359:C:H2'	35:DA:2360:A:O4'	2.16	0.45
35:BA:1831:G:H2'	35:BA:1832:C:C6	2.52	0.45
35:DA:764:A:C2	35:DA:781:A:C2	3.05	0.45
35:BA:2474:C:O2	35:BA:2474:C:C2'	2.65	0.45
1:AA:1476:G:C2	1:AA:1477:C:C2	3.05	0.45
36:DB:97:G:C2	36:DB:98:G:C8	3.05	0.45
5:CE:136:MET:HB3	5:CE:140:ARG:HH21	1.81	0.45
35:DA:2654:A:N1	35:DA:2665:A:H5''	2.32	0.45
56:DZ:156:LYS:O	56:DZ:156:LYS:HG2	2.17	0.45
25:AY:142:LYS:HD2	25:AY:142:LYS:O	2.17	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:CC:27:LYS:NZ	3:CC:27:LYS:O	2.50	0.45
51:DU:43:GLY:HA3	52:DV:76:LYS:HB2	1.99	0.45
42:BH:39:PRO:O	42:BH:42:ARG:HG3	2.17	0.45
40:BF:77:ASP:C	40:BF:79:GLY:N	2.71	0.45
35:DA:1991:U:H2'	35:DA:1992:G:H5''	1.96	0.44
35:DA:2000:G:C2	35:DA:2001:A:C8	3.05	0.44
45:DO:107:ARG:NH1	50:DT:36:GLU:N	2.61	0.44
1:CA:1232:U:H2'	1:CA:1233:G:O4'	2.17	0.44
35:DA:2313:C:H2'	35:DA:2314:C:C6	2.52	0.44
1:CA:1125:U:O4	10:CJ:5:ARG:HD3	2.17	0.44
32:B6:26:ASN:O	32:B6:27:LYS:HD3	2.16	0.44
34:B8:32:LEU:HD23	34:B8:35:GLN:C	2.38	0.44
34:B8:29:LYS:HZ1	34:B8:44:LYS:HB3	1.82	0.44
45:BO:76:ALA:HB3	50:BT:75:ILE:CG1	2.46	0.44
35:DA:2056:G:C8	35:DA:2577:A:C6	3.05	0.44
44:BN:44:PRO:O	44:BN:46:VAL:N	2.49	0.44
54:BX:53:LYS:HZ2	54:BX:55:ASN:HD21	1.63	0.44
27:B1:56:GLN:HG3	27:B1:57:GLU:N	2.31	0.44
41:BG:111:LEU:HB3	41:BG:117:PHE:CE2	2.51	0.44
41:BG:135:LEU:HG	41:BG:136:ARG:N	2.28	0.44
41:BG:169:ALA:CA	41:BG:173:LEU:HD23	2.47	0.44
41:BG:173:LEU:N	41:BG:173:LEU:CD2	2.72	0.44
42:BH:92:ILE:CG2	42:BH:93:GLY:N	2.73	0.44
35:DA:2636:U:H2'	35:DA:2637:U:H6	1.81	0.44
3:AC:134:ILE:HD11	3:AC:153:VAL:CG2	2.46	0.44
19:CS:6:LYS:HG2	19:CS:7:LYS:NZ	2.32	0.44
45:DO:114:ILE:N	45:DO:114:ILE:CD1	2.71	0.44
1:CA:402:G:O2'	1:CA:403:C:H5'	2.17	0.44
4:CD:29:PRO:C	4:CD:30:LYS:HG2	2.38	0.44
4:CD:65:ARG:NH1	4:CD:72:GLU:CA	2.80	0.44
36:DB:74:U:H3'	36:DB:75:G:H5''	1.94	0.44
40:BF:102:PRO:O	40:BF:104:LYS:N	2.50	0.44
40:BF:5:ALA:C	40:BF:6:VAL:HG22	2.38	0.44
27:D1:46:LEU:HD22	27:D1:48:LYS:CE	2.47	0.44
35:BA:1254:A:H5'	35:BA:1255:U:C5'	2.47	0.44
35:BA:2498:C:C2'	35:BA:2499:C:H5'	2.47	0.44
40:BF:53:THR:CG2	40:BF:56:GLU:OE1	2.65	0.44
40:DF:123:LEU:HD12	40:DF:124:LEU:N	2.31	0.44
40:DF:45:ARG:HG3	40:DF:46:ARG:N	2.32	0.44
55:BY:77:PRO:O	55:BY:78:ALA:CB	2.64	0.44
55:BY:86:ARG:NH2	55:BY:95:LYS:NZ	2.63	0.44
1:AA:1422:G:H1	1:AA:1479:C:N4	2.14	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
20:AT:51:GLU:O	20:AT:52:ALA:C	2.55	0.44
48:BR:97:VAL:HG13	48:BR:114:VAL:HG23	1.98	0.44
48:BR:28:LEU:HD12	48:BR:29:LEU:CD1	2.47	0.44
48:BR:53:HIS:CA	48:BR:56:LYS:HB2	2.46	0.44
49:DS:26:LEU:HG	49:DS:39:ILE:HD11	1.99	0.44
2:AB:188:ALA:HB1	2:AB:192:SER:HB2	1.99	0.44
27:D1:41:ARG:NH2	35:DA:205:G:C6	2.85	0.44
44:DN:22:THR:N	44:DN:61:ARG:HB2	2.32	0.44
45:BO:113:LYS:HA	45:BO:116:SER:OG	2.16	0.44
6:CF:10:LEU:HD13	6:CF:61:LEU:CD1	2.46	0.44
6:CF:69:GLU:CD	6:CF:69:GLU:N	2.70	0.44
35:DA:577:G:H2'	35:DA:578:A:H8	1.80	0.44
35:DA:809:G:H2'	35:DA:810:U:C6	2.52	0.44
40:DF:63:LYS:HZ3	40:DF:67:GLN:HB3	1.80	0.44
46:DP:47:ASP:CG	46:DP:49:ARG:HB3	2.37	0.44
35:DA:1242:A:N1	46:DP:8:PRO:CG	2.79	0.44
4:AD:162:LEU:O	4:AD:165:MET:HB2	2.17	0.44
1:AA:756:C:H2'	1:AA:757:U:O4'	2.17	0.44
47:BQ:50:ALA:O	47:BQ:54:MET:CB	2.65	0.44
35:BA:2740:A:C6	35:BA:2764:A:C8	3.05	0.44
35:DA:563:G:C6	35:DA:564:C:N4	2.85	0.44
51:DU:21:ALA:O	51:DU:22:LYS:C	2.55	0.44
35:DA:472:A:H2'	35:DA:473:G:H5'	1.99	0.44
12:CL:84:LEU:HB3	12:CL:101:VAL:HB	2.00	0.44
12:CL:97:ARG:C	12:CL:98:TYR:CD1	2.90	0.44
19:CS:40:ILE:HD13	19:CS:62:ILE:CD1	2.47	0.44
21:AU:21:TYR:HD1	21:AU:21:TYR:N	2.14	0.44
16:AP:48:TRP:CE3	16:AP:49:LEU:N	2.83	0.44
35:BA:2020:A:C5	35:BA:2022:U:C5	3.05	0.44
52:BV:78:LYS:CD	52:BV:79:VAL:N	2.68	0.44
33:B7:28:ARG:O	33:B7:29:LYS:C	2.56	0.44
35:BA:1353:A:C5	35:BA:1378:A:C5	3.05	0.44
19:AS:40:ILE:HG21	19:AS:62:ILE:HD11	1.99	0.44
55:BY:18:GLY:O	55:BY:20:TYR:N	2.51	0.44
1:AA:790:A:C6	1:AA:791:G:C6	3.04	0.44
1:AA:1307:U:C4'	13:AM:109:THR:HG21	2.47	0.44
13:AM:89:GLY:C	13:AM:90:LEU:O	2.55	0.44
1:AA:190:U:O2'	1:AA:191:G:H5'	2.16	0.44
20:AT:63:ILE:O	20:AT:64:ASP:C	2.55	0.44
1:CA:1106:G:H5''	3:CC:172:ARG:HG2	1.99	0.44
5:CE:36:ASP:CG	5:CE:37:ARG:N	2.70	0.44
12:AL:76:ASN:HD21	12:AL:108:ALA:HB2	1.82	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
18:CR:53:ARG:HH22	18:CR:59:SER:C	2.20	0.44
1:CA:511:C:O2'	1:CA:512:U:H6	2.00	0.44
56:DZ:145:GLU:HA	56:DZ:145:GLU:OE1	2.17	0.44
9:CI:58:ARG:HD3	9:CI:59:PHE:CE1	2.51	0.44
35:DA:1264:G:H2'	35:DA:1265:A:C8	2.51	0.44
7:CG:64:GLN:O	7:CG:66:VAL:N	2.50	0.44
23:AW:44:A:H2'	23:AW:45:A:C8	2.53	0.44
40:BF:148:LEU:CD2	40:BF:191:ARG:HD3	2.47	0.44
53:DW:8:ARG:HG3	53:DW:8:ARG:NH1	2.31	0.44
53:BW:96:ILE:HG13	53:BW:97:LYS:H	1.82	0.44
39:DE:14:ILE:O	39:DE:20:ALA:HA	2.18	0.44
8:AH:87:SER:OG	8:AH:92:ARG:HA	2.17	0.44
35:BA:1578:U:OP2	35:BA:1578:U:C6	2.69	0.44
17:AQ:47:PRO:HG2	17:AQ:48:GLU:CD	2.37	0.44
7:CG:47:CYS:CA	7:CG:58:PRO:HG3	2.47	0.44
1:AA:313:A:H2'	1:AA:314:C:H6	1.76	0.44
57:DC:70:LYS:C	57:DC:72:VAL:H	2.19	0.44
35:BA:447:A:C2	35:BA:473:G:C8	3.05	0.44
29:D3:16:PRO:HB2	29:D3:18:ASP:OD1	2.16	0.44
35:BA:1301:A:O2'	35:BA:1302:A:C2'	2.59	0.44
12:CL:38:THR:CG2	12:CL:57:LYS:HB2	2.47	0.44
12:CL:119:LYS:O	12:CL:120:TYR:CB	2.62	0.44
35:BA:1388:G:H1	35:BA:1399:C:N4	2.15	0.44
35:DA:1289:C:O2'	35:DA:1290:C:H5'	2.16	0.44
35:DA:1444:G:C2	35:DA:1548:C:C2	3.05	0.44
36:BB:64:C:O2'	36:BB:65:C:H5'	2.17	0.44
53:BW:43:GLY:O	53:BW:44:ALA:C	2.55	0.44
1:AA:1521:G:H2'	1:AA:1522:U:C6	2.51	0.44
35:BA:1906:G:C8	35:BA:1929:G:C4	3.05	0.44
10:AJ:22:LYS:O	10:AJ:24:VAL:N	2.41	0.44
39:DE:38:THR:C	39:DE:40:GLU:N	2.69	0.44
35:BA:639:U:C4	35:BA:640:C:N4	2.86	0.44
35:DA:977:G:C6	35:DA:987:G:C6	3.04	0.44
4:CD:192:GLU:C	4:CD:194:LEU:N	2.70	0.44
35:DA:717:G:H2'	35:DA:718:A:O4'	2.16	0.44
1:CA:124:G:C6	1:CA:125:U:C4	3.05	0.44
35:BA:608:A:H2'	35:BA:608:A:N3	2.32	0.44
1:CA:651:C:O2'	1:CA:652:U:H5'	2.17	0.44
37:BC:86:ALA:HA	37:BC:89:ALA:HB2	1.98	0.44
35:BA:845:G:C8	35:BA:845:G:OP2	2.69	0.44
35:DA:1431:U:O2'	35:DA:1432:C:H5'	2.16	0.44
35:BA:151:C:N4	35:BA:175:G:H1	2.15	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:785:G:C4	35:BA:786:C:C5	3.05	0.44
37:BC:65:PRO:HG2	37:BC:189:ILE:CA	2.48	0.44
1:AA:839:U:O2	1:AA:839:U:O4'	2.33	0.44
35:DA:1923:U:H2'	35:DA:1924:C:H6	1.82	0.44
5:CE:60:TYR:HE2	5:CE:64:ARG:NE	2.15	0.44
35:DA:2295:C:O2'	35:DA:2296:U:H5'	2.17	0.44
1:AA:318:G:H2'	1:AA:319:G:H8	1.81	0.44
35:DA:1831:G:O2'	35:DA:1832:C:H5'	2.16	0.44
57:DC:105:ASP:O	57:DC:106:ALA:HB2	2.16	0.44
35:BA:2330:G:N2	35:BA:2386:C:C2	2.85	0.44
1:CA:1440:C:N4	1:CA:1441:G:C2	2.85	0.44
35:DA:2714:G:C5	35:DA:2715:C:C4	3.05	0.44
45:DO:101:PRO:C	45:DO:102:VAL:HG22	2.38	0.44
45:DO:85:VAL:CG1	45:DO:86:ILE:N	2.80	0.44
50:DT:53:ARG:HG2	50:DT:53:ARG:O	2.16	0.44
50:DT:32:TYR:HD2	50:DT:81:PRO:CB	2.30	0.44
50:DT:92:GLY:C	50:DT:94:ALA:H	2.18	0.44
41:DG:23:PHE:HZ	41:DG:167:GLU:HB3	1.82	0.44
38:BD:34:VAL:HG22	38:BD:35:LYS:NZ	2.33	0.44
1:CA:922:G:N3	1:CA:1398:A:C2	2.76	0.44
1:CA:922:G:C6	1:CA:923:A:C6	3.05	0.44
35:DA:1790:C:H2'	35:DA:1791:A:N7	2.33	0.44
38:DD:94:LEU:HD13	38:DD:94:LEU:C	2.37	0.44
35:DA:2313:C:H4'	41:DG:40:ASN:ND2	2.33	0.44
41:DG:135:LEU:HB3	41:DG:155:MET:HE3	1.99	0.44
41:DG:131:TYR:O	41:DG:159:VAL:HG21	2.17	0.44
35:BA:1992:G:N1	35:BA:1997:G:N1	2.65	0.44
50:BT:75:ILE:N	50:BT:75:ILE:CD1	2.77	0.44
39:BE:179:GLU:O	39:BE:180:ASN:CB	2.65	0.44
39:BE:78:LEU:C	39:BE:79:ARG:HD2	2.37	0.44
19:AS:78:ARG:HH11	19:AS:78:ARG:HG3	1.80	0.44
35:BA:93:G:H2'	35:BA:94:C:O4'	2.18	0.44
27:B1:68:PRO:O	27:B1:69:LYS:C	2.54	0.44
41:BG:170:ARG:NH1	41:BG:170:ARG:HG3	2.33	0.44
35:BA:253:C:C2'	35:BA:254:G:H5'	2.47	0.44
54:DX:32:PRO:O	54:DX:75:ASP:OD2	2.35	0.44
54:DX:84:ALA:O	54:DX:86:GLY:N	2.50	0.44
42:BH:144:VAL:O	42:BH:144:VAL:CG1	2.65	0.44
42:BH:88:LEU:O	42:BH:89:ILE:CG2	2.65	0.44
47:DQ:134:ARG:HH12	56:DZ:119:GLU:CD	2.20	0.44
56:DZ:165:VAL:HG12	56:DZ:166:SER:N	2.31	0.44
1:CA:1065:U:H5'	1:CA:1190:G:N2	2.12	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
49:BS:106:ARG:O	49:BS:106:ARG:HD2	2.17	0.44
49:BS:38:GLN:CG	49:BS:39:ILE:N	2.78	0.44
49:BS:77:ALA:O	49:BS:80:LEU:N	2.45	0.44
4:CD:12:CYS:SG	4:CD:18:LYS:HG2	2.57	0.44
36:DB:75:G:N7	36:DB:76:G:N7	2.65	0.44
47:BQ:125:LEU:HB3	47:BQ:127:ILE:CD1	2.47	0.44
40:BF:39:TRP:CG	40:BF:101:LEU:HB2	2.52	0.44
25:AY:34:ASN:ND2	25:AY:36:ALA:HB3	2.32	0.44
46:BP:71:VAL:HG22	46:BP:72:PRO:CG	2.47	0.44
35:BA:814:C:H1'	35:BA:1225:G:N2	2.32	0.44
27:B1:40:ARG:NH1	35:BA:2081:C:O2'	2.50	0.44
35:BA:806:C:O2	35:BA:2444:G:O2'	2.34	0.44
40:BF:64:ILE:HG12	40:BF:65:TRP:NE1	2.33	0.44
52:BV:75:PHE:HE1	52:BV:89:GLN:HB2	1.83	0.44
35:DA:1655:A:O2'	39:DE:115:GLY:HA3	2.18	0.44
35:BA:2820:A:HO2'	35:BA:2821:A:P	2.40	0.44
1:AA:1464:G:C2	1:AA:1465:C:C5	3.05	0.44
1:AA:1473:A:O2'	1:AA:1474:G:H5'	2.15	0.44
35:BA:1456:G:C4	35:BA:1457:A:N7	2.85	0.44
35:BA:2713:A:H3'	35:BA:2714:G:H5'	1.99	0.44
48:BR:17:ARG:NH1	48:BR:17:ARG:HG2	2.28	0.44
50:BT:102:ILE:O	50:BT:103:ARG:C	2.56	0.44
36:DB:57:A:H1'	41:DG:30:GLU:CA	2.47	0.44
49:DS:25:ARG:HA	49:DS:87:PHE:O	2.18	0.44
2:CB:75:LYS:CA	2:CB:75:LYS:HE3	2.48	0.44
44:BN:51:PHE:CZ	44:BN:119:ARG:HD2	2.52	0.44
15:CO:36:ILE:HG22	15:CO:37:ASN:N	2.32	0.44
18:CR:33:ASP:OD2	18:CR:34:TYR:N	2.49	0.44
52:DV:73:SER:OG	52:DV:89:GLN:O	2.29	0.44
35:DA:1204:A:N1	35:DA:1241:A:H2	2.15	0.44
1:AA:402:G:C6	1:AA:403:C:C4	3.04	0.44
19:AS:10:PHE:CD1	19:AS:10:PHE:N	2.85	0.44
12:AL:7:ILE:O	12:AL:8:ASN:C	2.56	0.44
47:DQ:73:PRO:HG3	47:DQ:93:TYR:CE2	2.53	0.44
35:DA:1131:G:N2	35:DA:1132:A:C5	2.85	0.44
35:DA:532:A:H4'	35:DA:533:G:O4'	2.17	0.44
42:DH:17:VAL:HG12	42:DH:19:VAL:HG23	1.99	0.44
7:AG:107:ALA:O	7:AG:110:GLN:HB2	2.16	0.44
25:CY:150:SER:N	25:CY:153:GLU:OE1	2.36	0.44
25:CY:15:GLN:N	25:CY:168:PHE:HZ	2.16	0.44
13:CM:89:GLY:O	13:CM:90:LEU:O	2.34	0.44
25:AY:170:ALA:O	25:AY:172:ALA:N	2.50	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:756:C:O2'	1:CA:757:U:H5'	2.18	0.44
35:BA:2034:U:C2'	35:BA:2035:G:H5'	2.47	0.44
16:CP:55:ARG:O	16:CP:56:ALA:C	2.56	0.44
11:AK:62:GLN:C	11:AK:64:ALA:N	2.69	0.44
33:B7:16:HIS:ND1	35:BA:465:G:H4'	2.32	0.44
35:DA:2426:A:C3'	35:DA:2427:C:C5'	2.84	0.44
35:DA:1591:G:H2'	35:DA:1592:C:H5'	1.99	0.44
35:BA:2245:U:H5'	35:BA:2246:G:C5'	2.41	0.44
55:BY:28:LYS:CB	55:BY:39:VAL:H	2.30	0.44
2:CB:180:LEU:C	2:CB:182:ILE:H	2.20	0.44
11:CK:73:MET:SD	11:CK:103:LEU:CD1	3.06	0.44
11:CK:67:ASP:HA	11:CK:70:LYS:HB3	1.98	0.44
1:AA:184:G:O4'	1:AA:224:C:H4'	2.16	0.44
35:DA:926:A:H5'	35:DA:926:A:C8	2.51	0.44
1:AA:824:C:H2'	1:AA:825:G:H8	1.82	0.44
29:B3:4:LEU:C	29:B3:4:LEU:HD23	2.37	0.44
42:BH:61:HIS:C	42:BH:63:SER:N	2.71	0.44
35:DA:1175:U:O3'	35:DA:1176:G:H3'	2.18	0.44
5:CE:147:ASP:HA	5:CE:150:ARG:CB	2.43	0.44
35:BA:543:C:C6	35:BA:547:A:C8	3.04	0.44
31:D5:23:HIS:O	31:D5:24:ALA:C	2.53	0.44
53:BW:14:PRO:O	53:BW:16:LYS:N	2.50	0.44
35:BA:17:G:H4'	51:BU:25:TRP:HH2	1.77	0.44
40:DF:167:ALA:O	40:DF:168:ARG:C	2.55	0.44
35:BA:120:U:O4	35:BA:177:G:C8	2.70	0.44
20:CT:26:ASN:HD22	20:CT:27:LYS:N	2.14	0.44
1:AA:662:G:O2'	1:AA:836:G:C5'	2.65	0.44
35:BA:523:C:C5	35:BA:524:U:H5	2.35	0.44
19:CS:33:THR:CG2	19:CS:51:VAL:HG22	2.48	0.44
37:BC:70:LYS:C	37:BC:72:VAL:H	2.20	0.44
32:D6:33:LYS:CA	32:D6:33:LYS:HE2	2.40	0.44
1:CA:66:G:H2'	1:CA:66:G:N3	2.31	0.44
26:B0:51:VAL:CG2	26:B0:81:VAL:HG23	2.48	0.44
35:BA:1945:G:C6	35:BA:1946:U:O4	2.71	0.44
35:BA:968:G:H2'	35:BA:969:U:C6	2.51	0.44
15:AO:56:LEU:HA	15:AO:59:MET:CE	2.47	0.44
31:D5:15:ARG:HA	31:D5:18:ALA:HB2	1.98	0.44
35:DA:2101:G:C6	35:DA:2102:U:C6	3.05	0.44
35:BA:154:G:H1	35:BA:172:C:N4	2.08	0.44
31:B5:42:PRO:C	31:B5:43:HIS:CD2	2.91	0.44
35:DA:1843:C:H1'	38:DD:255:LYS:HZ3	1.82	0.44
35:DA:1526:G:H2'	35:DA:1527:G:O4'	2.18	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1464:C:H1'	35:DA:1528(A):A:N3	2.32	0.44
35:DA:2464:C:O2'	35:DA:2465:C:O5'	2.35	0.44
6:AF:19:LEU:HD23	6:AF:19:LEU:O	2.16	0.44
35:DA:2775:A:O2'	35:DA:2776:A:C5'	2.64	0.44
19:CS:43:GLU:C	19:CS:45:VAL:N	2.64	0.44
17:AQ:11:VAL:HG23	17:AQ:20:THR:HB	1.99	0.44
35:BA:897:C:O2'	35:BA:898:C:H5'	2.17	0.44
7:AG:23:VAL:HG12	7:AG:27:ILE:HD11	1.98	0.44
7:AG:15:ASP:OD2	7:AG:44:TYR:OH	2.35	0.44
36:BB:61:G:H2'	36:BB:62:C:H6	1.77	0.44
3:CC:181:ASN:HD21	3:CC:204:LEU:HB2	1.82	0.44
35:DA:1889:A:N1	35:DA:2234:G:H1'	2.32	0.44
35:BA:304:G:C2	35:BA:305:U:C2	3.06	0.44
1:AA:76:C:N4	1:AA:93:G:H1	2.14	0.44
1:CA:356:A:H1'	1:CA:368:U:O2'	2.18	0.44
17:AQ:56:VAL:O	17:AQ:76:LEU:HD12	2.17	0.44
3:AC:99:VAL:HG23	3:AC:99:VAL:O	2.17	0.44
35:BA:1525:G:H2'	35:BA:1526:G:C8	2.52	0.44
1:AA:524:G:H2'	1:AA:525:C:H6	1.79	0.44
1:CA:831:U:H2'	1:CA:832:C:C5	2.53	0.44
35:BA:39:C:C4	35:BA:40:C:N4	2.85	0.44
1:AA:1419:G:N2	1:AA:1482:G:N9	2.66	0.44
23:AW:68:C:O2'	23:AW:69:C:H5'	2.17	0.44
35:BA:147:U:H2'	35:BA:148:C:C6	2.52	0.44
35:BA:182:A:N3	35:BA:433:C:O2'	2.46	0.44
35:DA:2531:A:H2	35:DA:2658:C:O2	2.00	0.44
46:DP:138:LEU:HD23	46:DP:142:GLY:HA3	1.98	0.44
35:BA:1305:C:C2'	35:BA:1306:C:H5'	2.47	0.44
3:AC:190:ARG:O	3:AC:191:THR:O	2.35	0.44
35:DA:641:C:H2'	35:DA:642:G:O4'	2.17	0.44
35:DA:1478:G:HO2'	35:DA:1558:A:H2	1.66	0.44
46:DP:29:LYS:N	46:DP:29:LYS:HD2	2.32	0.44
1:AA:189(K):U:H2'	1:AA:189(L):G:C8	2.52	0.44
35:BA:2654:A:N1	35:BA:2665:A:H5''	2.32	0.44
35:DA:2727:G:C4	35:DA:2728:U:C5	3.05	0.44
50:DT:78:LEU:O	50:DT:78:LEU:HD23	2.18	0.44
39:DE:11:MET:N	50:DT:8:LYS:HE3	2.33	0.44
14:CN:47:LEU:HB3	14:CN:53:LEU:HG	2.00	0.44
14:CN:47:LEU:O	14:CN:51:GLY:N	2.51	0.44
35:BA:1807:G:C2	35:BA:1811:G:O6	2.69	0.44
1:CA:16:A:C2	1:CA:17:U:C6	3.05	0.44
45:BO:43:VAL:HG21	45:BO:52:VAL:CG1	2.47	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
45:BO:87:ILE:HD13	45:BO:92:GLU:C	2.38	0.44
50:BT:51:ARG:O	50:BT:61:PHE:HA	2.17	0.44
56:BZ:11:GLU:HB2	56:BZ:13:GLU:OE2	2.16	0.44
35:BA:2892:A:N6	35:BA:2893:G:N2	2.65	0.44
39:BE:87:GLU:O	39:BE:88:GLY:O	2.35	0.44
52:BV:18:LEU:CD2	52:BV:19:LYS:N	2.70	0.44
52:BV:20:LEU:N	52:BV:20:LEU:HD12	2.32	0.44
42:DH:121:ILE:CG2	42:DH:133:VAL:HG11	2.47	0.44
39:DE:4:ILE:HD11	39:DE:29:GLY:H	1.82	0.44
35:DA:60:G:C5	35:DA:63:U:C4	3.05	0.44
28:D2:26:ARG:NH2	54:DX:6:ASP:CA	2.75	0.44
55:BY:46:LYS:C	55:BY:47:LYS:HD2	2.38	0.44
56:DZ:118:GLN:HG3	56:DZ:120:ILE:CD1	2.47	0.44
56:DZ:28:MET:CE	56:DZ:37:VAL:HG21	2.48	0.44
51:DU:111:GLU:C	51:DU:113:ALA:N	2.69	0.44
1:AA:1051:C:H2'	1:AA:1052:U:H6	1.83	0.44
35:BA:1860:G:H2'	35:BA:1861:G:C8	2.52	0.44
1:CA:434:U:H2'	1:CA:435:C:C1'	2.47	0.44
44:BN:96:GLU:HG2	44:BN:97:ARG:N	2.32	0.44
35:BA:234:C:O5'	35:BA:234:C:H6	2.00	0.44
35:DA:389:G:C8	35:DA:2413:G:H4'	2.53	0.44
27:D1:14:VAL:O	27:D1:15:ALA:O	2.34	0.44
3:CC:8:ILE:C	3:CC:10:PHE:N	2.70	0.44
35:BA:990:A:O5'	35:BA:991:C:OP2	2.36	0.44
40:DF:20:LEU:HD12	40:DF:199:TRP:HH2	1.81	0.44
35:BA:908:C:O2'	35:BA:909:A:H5'	2.17	0.44
48:DR:24:GLN:CB	48:DR:44:LEU:HD21	2.41	0.44
1:AA:101:A:H2'	1:AA:102:G:C8	2.51	0.44
1:AA:1434:A:H2'	1:AA:1435:G:C8	2.52	0.44
35:BA:2712(A):A:OP2	35:BA:2714:G:OP2	2.35	0.44
49:DS:106:ARG:HB3	49:DS:106:ARG:HE	1.51	0.44
49:DS:31:SER:CB	49:DS:34:HIS:O	2.66	0.44
49:DS:38:GLN:HG3	49:DS:49:VAL:O	2.17	0.44
49:DS:53:SER:OG	49:DS:54:LEU:N	2.47	0.44
35:BA:2476:A:N3	35:BA:2476:A:H2'	2.31	0.44
18:CR:26:LEU:HD21	18:CR:42:ARG:NH1	2.32	0.44
35:DA:2070:G:H2'	35:DA:2071:A:C8	2.52	0.44
35:DA:824:A:H2'	35:DA:825:C:C6	2.52	0.44
46:DP:47:ASP:HB3	46:DP:48:PRO:CA	2.47	0.44
1:AA:429:U:H4'	1:AA:430:A:O5'	2.14	0.44
4:AD:114:ARG:O	4:AD:117:ALA:HB3	2.17	0.44
43:DI:68:LEU:HD23	43:DI:136:VAL:HG11	1.99	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
43:DI:94:ALA:HB1	43:DI:114:LEU:HD12	1.99	0.44
43:DI:93:THR:O	43:DI:96:ASP:OD2	2.35	0.44
6:AF:21:LEU:CA	6:AF:24:GLU:HG2	2.46	0.44
6:AF:33:TYR:HD1	6:AF:75:LEU:CG	2.24	0.44
18:AR:29:PHE:HD2	18:AR:29:PHE:H	1.66	0.44
1:CA:1504:G:OP1	1:CA:1507:A:H4'	2.17	0.44
35:DA:2027:G:C6	35:DA:2028:U:C4	3.06	0.44
35:DA:2498:C:C2'	35:DA:2499:C:H5'	2.46	0.44
42:DH:19:VAL:HG22	42:DH:24:VAL:HG13	1.99	0.44
2:AB:142:LEU:HD23	2:AB:142:LEU:C	2.37	0.44
35:DA:579:G:C6	35:DA:580:C:N4	2.86	0.44
25:CY:160:GLU:C	25:CY:164:ILE:HD13	2.38	0.44
1:CA:1304:G:N7	1:CA:1305:G:C6	2.85	0.44
35:BA:296:C:C2'	35:BA:297:C:H5'	2.48	0.44
16:AP:73:LEU:CD2	16:AP:73:LEU:N	2.79	0.44
20:CT:43:LEU:HA	20:CT:46:GLU:HB3	2.00	0.44
1:CA:261:U:OP1	20:CT:79:ARG:NH2	2.50	0.44
1:CA:881:G:P	12:CL:12:ARG:HH22	2.40	0.44
35:BA:2617:C:O2'	35:BA:2618:G:H5'	2.17	0.44
11:CK:23:ALA:CB	11:CK:91:ARG:HG2	2.47	0.44
35:DA:2388:A:H5'	35:DA:2389:G:OP2	2.18	0.44
40:DF:160:ASN:HB3	40:DF:163:VAL:CG2	2.46	0.44
40:DF:160:ASN:CB	40:DF:163:VAL:HG23	2.48	0.44
42:DH:54:ARG:HB2	42:DH:61:HIS:HD2	1.83	0.44
7:AG:148:ASN:C	7:AG:150:ALA:N	2.70	0.44
40:DF:34:TRP:O	40:DF:35:GLU:C	2.55	0.44
11:CK:64:ALA:O	11:CK:66:LEU:N	2.51	0.44
35:DA:926:A:C4	35:DA:927:G:C8	3.06	0.44
2:CB:115:LEU:CB	2:CB:145:LEU:HD11	2.46	0.44
18:AR:53:ARG:HH12	18:AR:59:SER:CA	2.26	0.44
8:CH:35:ILE:N	8:CH:35:ILE:HD13	2.31	0.44
12:AL:54:LYS:HD2	12:AL:54:LYS:H	1.79	0.44
35:BA:1174:A:OP1	35:BA:1175:U:H5''	2.17	0.44
53:BW:88:ARG:HB2	53:BW:93:ALA:HA	1.99	0.44
40:DF:178:PRO:HG2	40:DF:179:GLU:HG3	1.98	0.44
39:DE:101:ARG:HH11	39:DE:169:ASN:HD22	1.66	0.44
38:DD:218:ARG:HG3	38:DD:218:ARG:NH1	2.33	0.44
1:CA:445:G:N1	1:CA:490:G:C6	2.85	0.44
35:DA:121:G:H4'	35:DA:149:A:H5'	1.99	0.44
35:DA:149:A:H2'	35:DA:150:C:H6	1.83	0.44
12:AL:41:ARG:HG2	12:AL:42:THR:H	1.83	0.44
5:AE:103:GLY:C	5:AE:106:PRO:HD2	2.37	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1042:G:H3'	35:BA:1043:C:O4'	2.18	0.44
1:CA:101:A:H2'	1:CA:102:G:C8	2.49	0.44
20:CT:26:ASN:CB	20:CT:71:THR:HG23	2.42	0.44
19:AS:33:THR:HG22	19:AS:49:ILE:HG22	2.00	0.44
1:AA:116:A:H2'	1:AA:117:G:O4'	2.17	0.44
1:AA:835:U:O2'	1:AA:836:G:H5'	2.18	0.44
5:CE:110:LEU:HB3	5:CE:115:VAL:HG21	1.99	0.44
5:CE:72:GLN:OE1	5:CE:77:PRO:HA	2.18	0.44
13:CM:23:TYR:HB3	13:CM:67:GLU:HA	2.00	0.44
13:CM:73:GLU:HG2	13:CM:77:ASN:HD21	1.83	0.44
13:AM:33:ALA:HA	13:AM:59:TYR:CE2	2.52	0.44
35:BA:1231:G:H2'	35:BA:1232:G:H8	1.81	0.44
35:DA:348:G:H2'	35:DA:349:G:H8	1.82	0.44
35:DA:966:G:H2'	35:DA:967:C:H6	1.83	0.44
13:AM:13:LYS:O	13:AM:45:VAL:HG23	2.17	0.44
35:BA:1298:C:H3'	35:BA:1299:G:C8	2.49	0.44
20:AT:83:ARG:HA	20:AT:86:ARG:HD3	1.98	0.44
1:AA:66:G:N2	1:AA:172:A:C2	2.85	0.44
35:DA:1425:G:H2'	35:DA:1426:G:C8	2.50	0.44
1:CA:1300:G:HO2'	1:CA:1301:U:P	2.41	0.44
35:BA:1448:G:H5'	35:BA:1449:A:OP1	2.16	0.44
35:BA:2763:G:C8	35:BA:2763:G:H5'	2.52	0.44
1:CA:341:C:H2'	1:CA:342:C:H6	1.80	0.44
35:BA:2008:C:H2'	35:BA:2009:G:H8	1.83	0.44
35:BA:481:G:O2'	35:BA:482:A:P	2.74	0.44
35:BA:2075:U:C4	35:BA:2238:G:C6	3.06	0.44
1:AA:688:G:H5'	11:AK:46:GLY:C	2.38	0.44
35:BA:2352:A:C2'	35:BA:2353:G:H5'	2.47	0.44
35:DA:1388:G:O2'	35:DA:1389:G:H5'	2.17	0.44
35:DA:976:C:H2'	35:DA:977:G:C8	2.53	0.44
1:CA:1365:G:H2'	1:CA:1366:C:O4'	2.17	0.44
1:AA:243:A:C2	1:AA:245:C:C2	3.05	0.44
1:CA:1293:G:O2'	1:CA:1294:G:P	2.76	0.44
1:CA:799:G:H2'	1:CA:800:G:H5'	1.99	0.44
4:AD:192:GLU:O	4:AD:194:LEU:N	2.51	0.44
7:CG:27:ILE:HD11	7:CG:43:PHE:CE2	2.51	0.44
1:CA:1030(B):C:H2'	1:CA:1030(C):G:H5'	1.99	0.44
35:DA:2088:G:H2'	35:DA:2089:U:O4'	2.17	0.44
6:CF:37:VAL:HG13	6:CF:65:VAL:HG11	1.99	0.44
19:CS:22:LEU:HD21	19:CS:28:LYS:N	2.33	0.44
35:DA:2881:C:C4	35:DA:2882:A:N7	2.86	0.44
35:BA:884:C:H4'	35:BA:892:G:C8	2.52	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
7:AG:11:GLN:HG3	7:AG:12:LEU:N	2.31	0.44
17:CQ:64:PRO:C	17:CQ:65:ILE:HD12	2.37	0.44
42:BH:30:LYS:HZ1	42:BH:81:GLU:HA	1.82	0.44
9:CI:49:PRO:HG3	9:CI:78:LYS:HG2	1.98	0.44
3:AC:92:ALA:C	3:AC:94:LEU:N	2.71	0.44
37:BC:75:LEU:HD23	37:BC:75:LEU:C	2.38	0.44
35:DA:151:C:N4	35:DA:175:G:H1	2.14	0.44
3:CC:95:THR:HG22	3:CC:97:LYS:HB2	1.98	0.44
35:BA:1180:C:C2'	35:BA:1181:C:H5'	2.46	0.44
1:AA:794:A:O2'	1:AA:795:C:H5'	2.18	0.44
1:AA:935:A:H2'	1:AA:936:C:H6	1.83	0.44
1:CA:524:G:H2'	1:CA:525:C:H6	1.81	0.44
35:DA:1381:G:O2'	35:DA:1382:G:H5'	2.17	0.44
1:AA:373:A:C8	1:AA:482:A:C8	3.05	0.44
1:AA:1011:G:C2'	1:AA:1012:U:H5'	2.47	0.44
35:DA:1051:G:C2	35:DA:1052:C:N4	2.86	0.44
35:DA:1831:G:H2'	35:DA:1832:C:C6	2.52	0.44
53:BW:29:LEU:HD21	53:BW:33:ARG:HH21	1.82	0.44
50:DT:114:LEU:N	50:DT:114:LEU:HD23	2.31	0.44
35:BA:1806:C:H42	35:BA:1812:A:N6	2.15	0.44
35:BA:782:A:H8	35:BA:782:A:P	2.40	0.44
38:BD:81:ALA:N	38:BD:94:LEU:CD1	2.79	0.44
35:DA:1791:A:OP2	35:DA:1791:A:H8	2.00	0.44
41:DG:102:PHE:CZ	41:DG:141:PHE:HE1	2.35	0.44
34:B8:29:LYS:NZ	34:B8:44:LYS:HB2	2.32	0.44
35:BA:1675:C:H2'	35:BA:1676:A:O4'	2.17	0.44
35:BA:2851:A:H2'	35:BA:2852:G:C8	2.52	0.44
50:BT:119:LYS:O	50:BT:123:GLN:HG2	2.17	0.44
36:BB:103:G:O2'	36:BB:104:U:H5'	2.16	0.44
47:BQ:134:ARG:CG	47:BQ:135:ASP:N	2.79	0.44
51:BU:58:ARG:HB3	58:BU:201:MG:MG	1.42	0.44
52:BV:61:VAL:O	52:BV:62:LEU:HD23	2.18	0.44
42:DH:102:ALA:HB2	42:DH:116:GLU:HA	1.98	0.44
1:AA:971:G:H5''	1:AA:972:C:H5''	1.99	0.44
54:BX:31:HIS:O	54:BX:32:PRO:C	2.54	0.44
54:BX:55:ASN:O	54:BX:77:LYS:HB3	2.18	0.44
54:BX:8:ILE:H	54:BX:8:ILE:CD1	2.22	0.44
35:DA:2808:U:H5'	35:DA:2891:G:O6	2.18	0.44
39:DE:49:LEU:HD23	39:DE:81:ILE:CG1	2.48	0.44
27:B1:43:TYR:HD2	27:B1:45:ASN:HD21	1.63	0.44
41:BG:138:GLN:NE2	41:BG:152:LEU:HA	2.32	0.44
41:BG:77:ILE:C	41:BG:79:ASN:H	2.21	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
55:DY:7:VAL:HB	55:DY:8:LYS:NZ	2.32	0.44
35:DA:142(A):C:C4	35:DA:143:G:N7	2.86	0.44
35:DA:60:G:C2	35:DA:74:A:C4	3.05	0.44
35:BA:483:A:H2'	35:BA:484:C:O4'	2.17	0.44
56:DZ:150:LEU:HD23	56:DZ:171:ILE:HG13	2.00	0.44
56:DZ:47:VAL:O	56:DZ:48:PHE:C	2.56	0.44
44:DN:39:ARG:HA	44:DN:40:PRO:HD2	1.86	0.44
51:DU:110:VAL:O	51:DU:113:ALA:HB3	2.17	0.44
52:DV:19:LYS:NZ	52:DV:20:LEU:N	2.60	0.44
1:CA:1188:A:H2'	1:CA:1189:C:O4'	2.18	0.44
36:BB:115:G:O4'	49:BS:47:THR:HB	2.17	0.44
4:CD:21:LEU:HD22	4:CD:115:ARG:HG3	1.98	0.44
4:CD:64:LEU:HG	4:CD:65:ARG:N	2.31	0.44
1:CA:1057:G:H2'	1:CA:1058:G:C5'	2.47	0.44
40:BF:32:LEU:HD23	40:BF:33:LEU:N	2.31	0.44
25:AY:34:ASN:HD21	25:AY:36:ALA:HB3	1.82	0.44
44:DN:96:GLU:HG2	44:DN:97:ARG:N	2.32	0.44
34:B8:59:LYS:HB2	34:B8:59:LYS:NZ	2.27	0.44
52:BV:70:ILE:CG2	52:BV:90:PRO:HB2	2.48	0.44
40:DF:123:LEU:HD13	40:DF:192:LEU:HD22	1.99	0.44
40:DF:25:PRO:HG3	40:DF:119:ARG:CA	2.47	0.44
40:DF:5:ALA:C	40:DF:6:VAL:HG22	2.38	0.44
47:BQ:71:ASP:N	47:BQ:94:VAL:O	2.40	0.44
39:DE:163:GLU:O	39:DE:165:VAL:N	2.51	0.44
48:DR:19:ALA:O	48:DR:20:LEU:C	2.53	0.44
48:DR:28:LEU:HA	48:DR:34:ILE:CD1	2.47	0.44
48:DR:2:ARG:NE	48:DR:5:LYS:CE	2.81	0.44
35:BA:2820:A:O2'	35:BA:2821:A:OP1	2.33	0.44
35:BA:1278:A:O2'	35:BA:1279:G:H5'	2.17	0.44
2:CB:12:GLU:O	2:CB:14:GLY:N	2.51	0.44
44:DN:51:PHE:CZ	44:DN:119:ARG:HD2	2.53	0.44
44:DN:23:LEU:O	44:DN:25:ARG:N	2.48	0.44
2:CB:195:ASP:C	2:CB:197:VAL:H	2.19	0.44
35:DA:814:C:OP1	52:DV:84:LYS:HA	2.16	0.44
40:DF:70:THR:O	40:DF:72:ARG:N	2.49	0.44
35:DA:1239:G:H2'	35:DA:1240:U:O4'	2.17	0.44
4:AD:100:ARG:NH2	4:AD:137:SER:HA	2.31	0.44
3:AC:14:ILE:HG12	3:AC:15:THR:N	2.32	0.44
6:AF:69:GLU:CD	6:AF:69:GLU:N	2.71	0.44
1:CA:570:G:O6	1:CA:873:A:C2	2.70	0.44
16:AP:55:ARG:O	16:AP:56:ALA:C	2.55	0.44
19:CS:63:THR:HG22	19:CS:66:MET:HE2	1.99	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:183:G:O6	1:CA:194:C:N4	2.51	0.44
25:AY:18:LEU:HD22	25:AY:171:LYS:HB3	2.00	0.44
25:AY:154:THR:O	25:AY:157:ALA:N	2.51	0.44
35:DA:2262:U:H4'	35:DA:2328:A:H2	1.79	0.44
42:DH:38:SER:C	42:DH:40:GLU:N	2.71	0.44
35:BA:925:C:C2'	35:BA:926:A:C5'	2.84	0.44
8:AH:97:VAL:CG1	8:AH:98:LYS:H	2.18	0.44
25:CY:41:LEU:H	25:CY:41:LEU:CD1	2.23	0.44
9:CI:11:LYS:C	9:CI:13:ALA:N	2.70	0.44
8:AH:35:ILE:HG22	8:AH:111:ILE:HD13	1.99	0.44
1:AA:1372:U:OP1	9:AI:71:SER:HB3	2.16	0.44
8:CH:14:ARG:HB3	8:CH:14:ARG:NH1	2.32	0.44
8:CH:1:MET:HE2	8:CH:2:LEU:H	1.82	0.44
8:CH:45:ILE:HD13	8:CH:62:TYR:O	2.17	0.44
1:AA:1348:U:H2'	1:AA:1349:A:H8	1.83	0.44
12:CL:45:PRO:HA	12:CL:93:LEU:CD2	2.47	0.44
1:CA:1150:U:O3'	10:CJ:41:PRO:HA	2.17	0.44
33:D7:5:TRP:C	33:D7:6:GLN:NE2	2.70	0.44
35:DA:1309:G:C2'	35:DA:1310:G:H5'	2.48	0.44
38:BD:77:ALA:HB1	38:BD:97:TYR:HA	1.99	0.44
40:BF:160:ASN:OD1	40:BF:163:VAL:HG23	2.18	0.44
1:CA:935:A:H2'	1:CA:936:C:H6	1.81	0.44
39:DE:201:THR:HG22	39:DE:202:LYS:N	2.32	0.44
39:BE:201:THR:HG22	39:BE:203:LYS:HB3	1.99	0.44
29:D3:9:VAL:HG23	29:D3:10:LYS:N	2.33	0.44
41:BG:53:LEU:N	41:BG:53:LEU:CD2	2.81	0.44
35:BA:1418:G:H1	35:BA:1579:A:C5'	2.26	0.44
40:DF:148:LEU:HD13	40:DF:154:VAL:HG21	1.99	0.44
40:DF:164:ARG:O	40:DF:166:ALA:N	2.50	0.44
32:B6:13:CYS:O	32:B6:21:TYR:HA	2.17	0.44
5:AE:82:VAL:HG11	5:AE:134:ALA:O	2.18	0.44
1:CA:63:C:H42	1:CA:104:G:H1	1.64	0.44
7:CG:54:THR:OG1	7:CG:56:GLN:HG2	2.18	0.44
27:D1:18:ILE:HG23	27:D1:42:GLN:O	2.16	0.44
35:BA:852:G:C2'	35:BA:853:G:H5'	2.47	0.44
25:CY:108:GLU:CG	25:CY:111:ARG:NH2	2.80	0.44
1:CA:64:G:H4'	1:CA:66:G:OP1	2.18	0.44
46:DP:57:THR:HG22	46:DP:57:THR:O	2.16	0.44
19:CS:41:VAL:CG1	19:CS:44:MET:HB2	2.47	0.44
1:AA:1118:C:OP1	9:AI:104:ARG:HD3	2.18	0.44
1:AA:658:G:H1'	15:AO:22:THR:CB	2.41	0.44
38:DD:164:GLN:C	38:DD:165:ILE:HD12	2.38	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:BV:43:GLU:HA	52:BV:47:VAL:N	2.33	0.44
10:AJ:23:ILE:HG23	10:AJ:85:LEU:HD13	1.99	0.44
35:BA:2351:G:HO2'	35:BA:2352:A:H8	1.63	0.44
3:CC:76:VAL:CG2	3:CC:77:ILE:N	2.81	0.44
1:CA:1242:C:P	21:CU:10:ARG:HH12	2.40	0.44
36:DB:24:G:H4'	36:DB:25:A:N7	2.33	0.44
35:BA:1853:A:N6	35:BA:1889:A:C8	2.86	0.44
35:DA:704:G:N2	35:DA:726:G:C4	2.85	0.44
1:CA:629:G:H2'	1:CA:630:G:O4'	2.17	0.44
1:AA:1030(B):C:H2'	1:AA:1030(C):G:H5'	1.98	0.44
35:DA:306:U:H2'	35:DA:306:U:O2	2.18	0.44
56:BZ:133:ILE:O	56:BZ:133:ILE:HG22	2.18	0.44
35:BA:2555:U:H2'	35:BA:2556:C:C5'	2.48	0.44
35:BA:644:A:C2'	35:BA:645:C:H5''	2.47	0.44
43:BI:41:GLU:O	43:BI:44:LEU:HB3	2.17	0.44
13:CM:40:ASN:HA	13:CM:41:PRO:HD3	1.80	0.44
35:DA:68:G:H2'	35:DA:68:G:N3	2.32	0.44
35:BA:1396:U:O2	35:BA:1396:U:C2'	2.65	0.44
1:AA:622:A:C8	1:AA:623:C:C6	3.05	0.44
35:DA:1358:G:N7	35:DA:1371:G:C6	2.86	0.44
40:BF:17:ARG:HG3	40:BF:17:ARG:NH1	2.32	0.44
35:DA:2123:G:H21	57:DC:42:GLU:CD	2.20	0.44
31:B5:19:ARG:HG3	35:BA:2046:G:H5'	2.00	0.44
1:AA:1135:U:H2'	1:AA:1137:C:O2	2.18	0.44
35:DA:1284:A:H2'	35:DA:1285:G:O4'	2.17	0.44
35:BA:954:G:N3	35:BA:954:G:H2'	2.33	0.44
26:B0:84:LEU:HD12	26:B0:84:LEU:C	2.38	0.44
39:BE:107:THR:O	39:BE:190:GLY:HA2	2.17	0.44
50:DT:78:LEU:HD23	50:DT:79:HIS:ND1	2.33	0.44
1:CA:1223:C:OP2	1:CA:1224:G:H8	2.00	0.44
35:DA:1825:A:H2'	35:DA:1826:G:C8	2.52	0.44
41:DG:56:ALA:O	41:DG:60:LEU:HB2	2.18	0.44
34:B8:36:LYS:HE2	34:B8:36:LYS:HB2	1.80	0.44
35:BA:1989:G:H2'	35:BA:1990:C:H5'	1.99	0.44
45:BO:87:ILE:HD13	45:BO:87:ILE:HA	1.87	0.44
45:BO:93:PRO:C	45:BO:95:GLY:N	2.69	0.44
56:BZ:128:VAL:HG21	56:BZ:132:ASN:O	2.18	0.44
56:BZ:76:LEU:HD23	56:BZ:76:LEU:N	2.33	0.44
35:BA:2808:U:H5'	35:BA:2891:G:O6	2.17	0.44
39:BE:47:VAL:CG1	39:BE:49:LEU:HD21	2.47	0.44
39:BE:52:LEU:HD23	39:BE:75:VAL:HG22	1.96	0.44
42:DH:92:ILE:O	42:DH:94:TYR:N	2.49	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2811:G:H5''	35:DA:2811:G:H8	1.82	0.44
2:AB:12:GLU:O	2:AB:14:GLY:N	2.51	0.44
41:BG:173:LEU:O	41:BG:174:GLU:C	2.56	0.44
34:D8:32:LEU:HD11	34:D8:41:ILE:HG22	1.98	0.44
42:BH:130:ARG:CB	42:BH:130:ARG:HH11	2.30	0.44
56:DZ:53:ILE:CG2	56:DZ:71:VAL:HB	2.47	0.44
44:DN:110:GLY:O	44:DN:111:PRO:C	2.55	0.44
44:DN:38:HIS:CG	44:DN:39:ARG:N	2.86	0.44
44:DN:46:VAL:CG2	44:DN:48:MET:HG3	2.48	0.44
51:DU:63:VAL:O	51:DU:64:ARG:C	2.55	0.44
4:CD:98:GLU:C	4:CD:100:ARG:N	2.71	0.44
1:CA:1203:C:H2'	1:CA:1204:A:O4'	2.18	0.44
40:BF:102:PRO:O	40:BF:103:LYS:C	2.55	0.44
40:BF:25:PRO:HG3	40:BF:119:ARG:CA	2.48	0.44
35:BA:1254:A:H5'	35:BA:1255:U:H5'	1.99	0.44
35:BA:572:A:H5''	35:BA:573:G:OP2	2.18	0.44
40:BF:90:PHE:O	40:BF:91:GLY:C	2.56	0.44
46:BP:48:PRO:HG2	46:BP:49:ARG:H	1.83	0.44
46:BP:48:PRO:O	46:BP:50:ARG:N	2.51	0.44
40:DF:192:LEU:C	40:DF:192:LEU:HD23	2.37	0.44
48:DR:73:VAL:HG23	48:DR:74:LYS:HD3	1.98	0.44
1:AA:103:C:OP2	20:AT:14:LYS:HD2	2.17	0.44
1:AA:59:A:C2	1:AA:331:G:C2	3.06	0.44
48:BR:73:VAL:HG23	48:BR:74:LYS:H	1.82	0.44
36:DB:51:G:H2'	36:DB:52:A:C1'	2.48	0.44
2:CB:211:ILE:O	2:CB:212:GLN:C	2.56	0.44
35:BA:2467:C:H4'	47:BQ:123:HIS:CE1	2.52	0.44
44:BN:26:LEU:HG	44:BN:27:ALA:N	2.31	0.44
15:CO:62:GLN:O	15:CO:63:ARG:C	2.55	0.44
15:CO:60:VAL:O	15:CO:63:ARG:N	2.49	0.44
35:DA:942:G:C6	35:DA:943:U:N3	2.85	0.44
46:DP:47:ASP:HB2	46:DP:51:PHE:HD2	1.83	0.44
52:DV:72:VAL:O	52:DV:73:SER:HB3	2.17	0.44
52:DV:90:PRO:CD	52:DV:91:TYR:H	2.31	0.44
19:AS:72:GLY:O	19:AS:74:PHE:N	2.51	0.44
35:DA:908:C:O2'	35:DA:909:A:H5'	2.17	0.44
6:AF:97:PHE:N	18:AR:30:ASP:OD1	2.49	0.44
1:CA:1502:A:C2	1:CA:1505:G:N2	2.83	0.44
35:DA:2034:U:C2'	35:DA:2035:G:H5'	2.47	0.44
16:AP:55:ARG:O	16:AP:58:TYR:N	2.50	0.44
35:DA:27:G:C2'	35:DA:28:A:OP2	2.66	0.44
35:DA:18:C:C2	35:DA:19:C:C5	3.06	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
21:AU:24:ARG:HD2	21:AU:24:ARG:N	2.32	0.44
1:CA:757:U:O2'	1:CA:879:C:H1'	2.17	0.44
33:B7:31:LEU:HD23	33:B7:42:LEU:HD22	1.98	0.44
35:BA:1431:U:C2'	35:BA:1432:C:H5'	2.48	0.44
35:DA:2282:G:O2'	35:DA:2283:C:OP2	2.24	0.44
12:AL:37:CYS:O	12:AL:79:GLU:O	2.35	0.44
7:AG:78:ARG:HG3	7:AG:79:ARG:N	2.32	0.44
1:AA:1228:C:OP1	13:AM:115:LYS:HG3	2.18	0.44
40:DF:103:LYS:HA	40:DF:106:ARG:HE	1.83	0.44
1:AA:601:C:H42	1:AA:637:G:H1	1.65	0.44
5:AE:12:LEU:HD22	5:AE:12:LEU:C	2.38	0.44
12:AL:117:ARG:NH2	12:AL:124:LYS:HA	2.32	0.44
35:DA:2475:C:N4	35:DA:2529:G:H22	1.97	0.44
1:AA:1129:C:H4'	1:AA:1130:A:H5'	1.98	0.44
9:AI:83:ARG:O	9:AI:86:VAL:CG1	2.64	0.44
8:CH:26:VAL:CG2	8:CH:32:LYS:HZ3	2.27	0.44
35:BA:2752:C:C5	35:BA:2753:A:N7	2.86	0.44
9:CI:28:VAL:CG1	9:CI:29:ASN:H	2.31	0.44
9:CI:27:THR:HG23	9:CI:31:GLN:O	2.17	0.44
1:CA:1168:A:H2'	1:CA:1169:A:H8	1.83	0.44
35:DA:627:A:OP1	35:DA:627:A:H8	2.00	0.44
46:DP:82:GLY:HA2	46:DP:113:LYS:O	2.17	0.44
46:BP:96:THR:HB	46:BP:97:PRO:HD2	2.00	0.44
16:CP:39:TYR:CD1	16:CP:39:TYR:C	2.90	0.44
19:CS:52:TYR:CG	19:CS:53:ASN:N	2.86	0.44
31:B5:16:ARG:CG	31:B5:16:ARG:NH1	2.77	0.44
35:BA:1615:C:C5	35:BA:1617:C:C6	3.05	0.44
53:BW:13:SER:HA	53:BW:14:PRO:HD3	1.79	0.44
8:AH:88:LYS:O	8:AH:92:ARG:HD2	2.17	0.44
38:DD:53:PHE:HB3	38:DD:218:ARG:HB2	1.99	0.44
35:DA:1042:G:H3'	35:DA:1043:C:O4'	2.18	0.44
13:AM:22:ILE:N	13:AM:22:ILE:HD12	2.32	0.44
5:AE:103:GLY:O	5:AE:106:PRO:CD	2.65	0.44
5:AE:90:VAL:HG21	5:AE:121:LYS:HB3	1.97	0.44
1:CA:1464:G:C2	1:CA:1465:C:C5	3.06	0.44
7:CG:47:CYS:HB3	7:CG:58:PRO:CG	2.48	0.44
35:DA:1983:C:H4'	35:DA:2606:C:H4'	1.99	0.44
32:B6:32:ASN:HD22	32:B6:33:LYS:HE3	1.82	0.44
35:BA:1707:G:C4	35:BA:1708:C:C5	3.05	0.44
1:CA:767:A:H2'	1:CA:768:A:C8	2.51	0.44
26:B0:29:GLN:HB2	26:B0:67:VAL:HG23	1.99	0.44
39:BE:38:THR:C	39:BE:40:GLU:N	2.70	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1334:G:O2'	35:BA:1335:U:H5'	2.17	0.44
35:BA:968:G:C2	35:BA:969:U:C2	3.05	0.44
35:DA:1684:C:O2'	35:DA:1685:C:H5'	2.18	0.44
9:AI:8:GLY:O	9:AI:14:VAL:HG13	2.18	0.44
15:AO:66:LEU:N	15:AO:66:LEU:HD12	2.32	0.44
1:CA:761:G:H2'	1:CA:762:C:C6	2.53	0.44
1:AA:1095:U:H5'	1:AA:1109:C:O2	2.17	0.44
36:DB:78:A:H2'	36:DB:79:C:O4'	2.17	0.44
35:BA:2463:C:O2'	35:BA:2464:C:H5'	2.17	0.44
35:BA:1450:G:H2'	35:BA:1450(A):C:H6	1.83	0.44
1:CA:1097:C:H2'	1:CA:1098:C:H6	1.81	0.44
6:AF:83:ASP:C	6:AF:85:VAL:N	2.70	0.44
1:AA:137:C:N4	1:AA:226:G:H1	2.09	0.44
1:CA:149:A:C2	1:CA:150:C:C4	3.06	0.44
1:CA:1315:U:O2'	1:CA:1316:G:H5'	2.17	0.44
35:BA:2073:C:O2'	35:BA:2074:U:H5'	2.17	0.44
35:BA:976:C:H2'	35:BA:977:G:H8	1.83	0.44
12:CL:76:ASN:HD21	12:CL:108:ALA:HB2	1.83	0.44
13:CM:16:ASP:OD2	13:CM:16:ASP:N	2.51	0.44
1:CA:783:C:C6	1:CA:784:C:H5	2.36	0.44
35:DA:601:C:H2'	35:DA:602:G:O4'	2.17	0.44
17:CQ:9:VAL:O	17:CQ:21:VAL:HG13	2.18	0.44
25:AY:112:LYS:HG3	25:AY:116:ARG:HD2	1.99	0.44
36:DB:16:G:H2'	36:DB:17:C:H6	1.83	0.44
38:BD:125:ILE:H	38:BD:125:ILE:HD12	1.77	0.44
1:CA:50:A:N3	1:CA:52:G:H1'	2.33	0.44
1:CA:52:G:C6	1:CA:360:A:C2	3.05	0.44
35:BA:1350:C:C2'	35:BA:1351:C:H5'	2.47	0.44
35:DA:632:A:C2	35:DA:2403:C:H1'	2.52	0.44
35:BA:1467:C:H42	35:BA:1525:G:H1	1.64	0.44
57:DC:82:LYS:O	57:DC:83:ILE:HD13	2.17	0.44
1:AA:1415:G:C2	1:AA:1416:G:C8	3.06	0.44
35:DA:1217:C:OP2	51:DU:15:LYS:NZ	2.27	0.44
1:AA:127:G:OP1	1:AA:635:G:H1'	2.18	0.44
35:DA:948:G:H2'	35:DA:949:C:C6	2.53	0.44
1:CA:573:A:C2	1:CA:574:A:C2	3.05	0.44
1:AA:611:A:C2'	1:AA:612:C:H5'	2.47	0.44
25:CY:61:PRO:HD2	25:CY:65:THR:O	2.17	0.44
1:AA:509:A:C2	1:AA:510:A:C2	3.05	0.44
35:DA:1267:U:C2'	35:DA:1267:U:O2	2.64	0.44
12:CL:104:VAL:HG12	12:CL:105:TYR:N	2.32	0.44
35:DA:1955:U:O2'	35:DA:1956:U:H5'	2.17	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
23:CW:52:C:H2'	23:CW:53:G:O4'	2.17	0.44
53:DW:43:GLY:O	53:DW:44:ALA:C	2.56	0.44
5:CE:136:MET:O	5:CE:137:GLU:C	2.56	0.44
35:BA:727:A:H3'	35:BA:728:G:C8	2.52	0.44
35:DA:715:G:H2'	35:DA:716:A:C8	2.53	0.44
2:CB:152:PHE:CD1	2:CB:152:PHE:C	2.91	0.44
30:D4:13:ARG:O	30:D4:15:ILE:N	2.43	0.44
1:CA:346:G:H2'	1:CA:346:G:N3	2.32	0.44
50:DT:61:PHE:CE1	50:DT:76:PHE:HD1	2.36	0.44
50:DT:51:ARG:HB3	50:DT:62:THR:OG1	2.18	0.44
50:DT:29:ARG:HG3	50:DT:84:GLN:O	2.17	0.44
19:CS:78:ARG:CD	19:CS:78:ARG:H	2.31	0.44
35:BA:1784:A:H4'	35:BA:1785:A:O5'	2.18	0.44
38:BD:92:ILE:CA	38:BD:107:ALA:HB2	2.48	0.44
5:CE:20:GLN:O	5:CE:21:ALA:C	2.56	0.44
38:DD:233:HIS:O	38:DD:234:GLY:C	2.56	0.44
38:DD:39:LYS:HB2	38:DD:62:TYR:CB	2.48	0.44
16:CP:9:PHE:HE2	16:CP:18:ARG:NE	2.15	0.44
41:DG:117:PHE:CZ	41:DG:179:PRO:HG3	2.53	0.44
35:DA:2312:U:OP1	41:DG:73:ALA:HA	2.18	0.44
1:AA:1441:G:H4'	1:AA:1442:G:C4	2.53	0.44
35:BA:1992:G:C2	35:BA:1997:G:C6	3.06	0.44
35:BA:2679:A:H2'	35:BA:2680:C:H6	1.82	0.44
50:BT:30:VAL:CG1	50:BT:44:ASP:HA	2.38	0.44
56:BZ:10:ARG:HG2	56:BZ:11:GLU:N	2.28	0.44
56:BZ:120:ILE:O	56:BZ:121:HIS:HB2	2.18	0.44
56:BZ:3:TYR:N	56:BZ:57:ILE:HG13	2.33	0.44
56:BZ:24:LEU:HB2	56:BZ:41:LEU:HD23	1.99	0.44
56:BZ:69:THR:HG22	56:BZ:90:VAL:HG22	2.00	0.44
35:DA:2052:G:P	39:DE:141:ILE:HD11	2.58	0.44
44:BN:41:ASP:O	44:BN:42:TRP:C	2.55	0.44
54:BX:29:TRP:HE3	54:BX:76:ARG:HB3	1.82	0.44
39:DE:105:THR:HG22	39:DE:106:GLY:N	2.33	0.44
35:DA:1882:C:H5'	35:DA:1883:G:OP2	2.17	0.44
55:DY:81:LYS:HD3	55:DY:97:ARG:N	2.32	0.44
54:DX:55:ASN:O	54:DX:77:LYS:CB	2.65	0.44
54:DX:60:ARG:CB	54:DX:72:LYS:H	2.31	0.44
54:DX:75:ASP:C	54:DX:76:ARG:HG3	2.38	0.44
35:DA:2420:C:O2'	35:DA:2421:G:H5'	2.18	0.44
42:BH:160:LYS:O	42:BH:163:TYR:CE1	2.70	0.44
35:DA:2039:C:H2'	35:DA:2040:C:C6	2.52	0.44
35:DA:2778:A:H4'	35:DA:2779:U:OP1	2.17	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:DV:93:GLU:HG2	52:DV:94:LEU:H	1.82	0.44
47:DQ:54:MET:HG3	47:DQ:64:ILE:HD13	1.99	0.44
19:CS:12:ASP:HB3	19:CS:15:LEU:CD2	2.45	0.44
19:CS:36:ARG:HB3	19:CS:36:ARG:HH11	1.82	0.44
35:BA:1862:G:C2	35:BA:1863:G:C8	3.06	0.44
36:BB:52:A:O2'	36:BB:53:A:C8	2.67	0.44
49:BS:54:LEU:O	49:BS:56:LEU:N	2.48	0.44
49:BS:72:ALA:C	49:BS:76:LYS:HG2	2.38	0.44
4:CD:64:LEU:O	4:CD:65:ARG:C	2.55	0.44
4:CD:68:TYR:CE2	4:CD:97:LEU:HD22	2.52	0.44
36:DB:74:U:C5	36:DB:75:G:N7	2.85	0.44
44:BN:72:TYR:HB2	44:BN:85:ILE:HB	1.99	0.44
40:BF:117:ARG:NH2	40:BF:187:VAL:HA	2.32	0.44
40:BF:186:ILE:HG23	40:BF:192:LEU:HD12	1.98	0.44
46:DP:71:VAL:CB	46:DP:72:PRO:HD3	2.43	0.44
35:BA:2569:G:C2	35:BA:2570:G:C8	3.05	0.44
35:BA:2579:C:H4'	39:BE:134:ILE:CD1	2.47	0.44
34:D8:25:MET:HB2	46:DP:62:LEU:CD1	2.48	0.44
35:DA:1142(A):A:C5	35:DA:1144:G:N7	2.85	0.44
55:BY:88:LYS:O	55:BY:90:LEU:HD23	2.18	0.44
35:BA:870:A:N1	35:BA:871:U:C2	2.86	0.44
2:CB:236:TYR:HA	2:CB:239:VAL:HG21	1.97	0.44
2:CB:83:MET:HB2	2:CB:84:GLU:H	1.52	0.44
44:DN:56:ASN:HA	44:DN:124:ALA:CA	2.37	0.44
44:BN:55:VAL:CG1	44:BN:126:PRO:HA	2.48	0.44
1:CA:738:C:C2	1:CA:739:C:C5	3.06	0.44
35:DA:812:C:O2	35:DA:1250:G:N1	2.51	0.44
40:DF:53:THR:C	40:DF:55:GLY:N	2.70	0.44
52:DV:88:ARG:HG3	52:DV:88:ARG:HH11	1.83	0.44
55:DY:15:VAL:HG12	55:DY:17:SER:H	1.82	0.44
4:AD:33:MET:C	4:AD:35:ARG:H	2.20	0.44
43:DI:94:ALA:HA	43:DI:97:ILE:HG13	2.00	0.44
47:DQ:16:ARG:CG	47:DQ:17:LEU:H	2.22	0.44
47:BQ:52:VAL:CG1	47:BQ:53:ALA:N	2.67	0.44
1:CA:1530:G:C4	1:CA:1531:A:C8	3.06	0.44
51:DU:8:VAL:O	51:DU:9:VAL:C	2.56	0.44
25:CY:34:ASN:ND2	25:CY:36:ALA:HB3	2.33	0.44
21:CU:12:LYS:O	21:CU:22:ARG:NH1	2.51	0.44
1:CA:1307:U:C4'	13:CM:109:THR:HG21	2.48	0.44
1:AA:1312:G:N2	1:AA:1326:C:C2	2.86	0.44
25:AY:144:ALA:O	25:AY:147:LEU:O	2.35	0.44
1:AA:686:U:H1'	1:AA:687:A:C8	2.52	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
11:AK:21:ILE:HG23	11:AK:30:VAL:HG12	2.00	0.44
40:DF:39:TRP:CG	40:DF:101:LEU:HB2	2.50	0.44
11:CK:73:MET:SD	11:CK:103:LEU:HD13	2.57	0.44
5:AE:112:LEU:O	5:AE:114:GLY:N	2.50	0.44
1:CA:1368:G:H4'	14:CN:61:TRP:HZ2	1.83	0.44
12:AL:119:LYS:O	12:AL:120:TYR:CB	2.63	0.44
12:AL:45:PRO:HA	12:AL:93:LEU:CD2	2.47	0.44
8:AH:63:LEU:HB3	8:AH:64:LYS:H	1.64	0.44
46:DP:85:LEU:HB2	46:DP:120:ALA:HB2	1.99	0.44
5:AE:145:LYS:C	5:AE:148:VAL:HB	2.38	0.44
5:AE:153:LYS:HB3	5:AE:154:GLY:H	1.59	0.44
1:AA:562:C:O2'	12:AL:15:ARG:HB3	2.18	0.44
42:BH:35:VAL:O	42:BH:37:VAL:HG23	2.18	0.44
33:D7:30:VAL:O	33:D7:34:ARG:N	2.42	0.44
35:DA:1608:A:C5	35:DA:1611:C:C4	3.06	0.44
16:CP:67:THR:HG21	16:CP:69:THR:HG23	2.00	0.44
35:BA:323:G:C3'	40:BF:169:ASN:HD21	2.30	0.44
15:AO:18:PHE:O	15:AO:19:PRO:C	2.55	0.44
35:BA:2831:G:O2'	35:BA:2883:A:H2'	2.18	0.44
35:DA:2208:A:H1'	35:DA:2219:G:N3	2.32	0.44
35:DA:2831:G:P	39:DE:58:ARG:NH1	2.90	0.44
5:AE:139:LEU:H	5:AE:139:LEU:HG	1.48	0.44
35:DA:468:G:C2	35:DA:469:G:H1'	2.53	0.44
35:DA:745:G:P	39:DE:133:LYS:HE3	2.57	0.44
13:AM:54:VAL:O	13:AM:58:GLU:HG2	2.18	0.44
35:BA:460:A:C2	35:BA:470:A:C4	3.06	0.44
2:AB:24:TRP:CZ3	2:AB:26:PRO:HA	2.53	0.44
35:DA:1152:C:O2'	35:DA:1153:C:H5'	2.18	0.44
35:BA:1298:C:C3'	35:BA:1299:G:H8	2.29	0.44
15:AO:80:ALA:O	15:AO:81:LEU:C	2.55	0.44
15:AO:87:ILE:O	15:AO:88:ARG:HB2	2.18	0.44
2:AB:19:HIS:O	2:AB:20:GLU:O	2.35	0.44
48:DR:4:LEU:O	48:DR:6:SER:N	2.51	0.44
35:DA:191:A:C2	35:DA:192:C:C2	3.05	0.44
35:DA:2194:G:C4	35:DA:2195:C:C5	3.06	0.44
38:DD:247:ALA:HB2	38:DD:253:GLN:HA	2.00	0.44
7:CG:145:ALA:C	7:CG:147:ALA:H	2.19	0.44
1:CA:137:C:N4	1:CA:226:G:H1	2.10	0.44
9:AI:42:ARG:NH2	9:AI:75:ASP:OD1	2.50	0.44
9:AI:18:PHE:HD1	9:AI:62:TYR:CD2	2.35	0.44
35:DA:1406:U:H2'	35:DA:1407:C:C6	2.52	0.44
7:CG:27:ILE:HG23	7:CG:40:ALA:N	2.33	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:BB:24:G:H4'	36:BB:25:A:H8	1.81	0.44
57:DC:21:THR:O	57:DC:22:ILE:C	2.55	0.44
35:BA:601:C:H2'	35:BA:602:G:O4'	2.18	0.44
19:CS:22:LEU:HD22	19:CS:27:GLU:HB2	2.00	0.44
53:BW:65:LEU:O	53:BW:69:LEU:HG	2.17	0.44
35:BA:839:U:H2'	35:BA:840:C:C6	2.53	0.44
35:BA:2068:U:N3	35:BA:2430:A:C2	2.80	0.44
35:BA:1912:A:H5'	35:BA:1918:A:N1	2.33	0.44
1:CA:132:C:N4	1:CA:231:G:N1	2.65	0.44
1:AA:814:A:C8	1:AA:816:A:C8	3.06	0.44
53:BW:80:PRO:O	53:BW:100:THR:HG22	2.17	0.44
1:AA:189(B):C:H2'	1:AA:189(C):C:H6	1.82	0.44
39:DE:16:ARG:O	39:DE:18:ASP:N	2.51	0.44
17:CQ:100:LYS:HA	17:CQ:100:LYS:HD3	1.80	0.44
35:BA:1832:C:H2'	35:BA:1833:U:O4'	2.16	0.44
7:CG:115:ARG:HB2	7:CG:118:VAL:CG2	2.48	0.44
1:CA:39:G:O2'	1:CA:40:C:H5'	2.17	0.44
35:DA:2793:G:C2	35:DA:2794:C:N3	2.85	0.44
1:AA:1111:A:N1	3:AC:177:THR:OG1	2.45	0.44
38:DD:147:LEU:HB3	38:DD:148:GLU:H	1.59	0.44
13:AM:4:ILE:HG22	13:AM:5:ALA:H	1.82	0.44
35:BA:1051:G:C2'	35:BA:1052:C:H5''	2.47	0.44
2:AB:152:PHE:CD1	2:AB:152:PHE:C	2.90	0.44
16:CP:29:ASP:OD2	16:CP:29:ASP:N	2.49	0.44
35:DA:139(A):G:N2	54:DX:44:GLU:OE1	2.50	0.44
1:AA:889:A:H5'	1:AA:891:U:O4'	2.17	0.44
35:DA:483:A:H2'	35:DA:484:C:O4'	2.17	0.44
1:CA:1229:A:H2'	1:CA:1230:C:C6	2.52	0.44
35:BA:1813:G:N3	38:BD:50:THR:HB	2.33	0.44
38:BD:61:LEU:HD12	38:BD:62:TYR:H	1.83	0.44
35:DA:1778:U:H2'	35:DA:1779:U:H6	1.82	0.44
35:DA:1783:A:C2	35:DA:2587:A:C5	3.06	0.44
35:DA:729:G:N3	35:DA:729:G:H3'	2.32	0.44
38:DD:92:ILE:HD12	38:DD:92:ILE:C	2.37	0.44
34:B8:32:LEU:HD11	34:B8:41:ILE:HG22	1.99	0.44
35:BA:2727:G:C4	35:BA:2728:U:C5	3.06	0.44
47:BQ:137:TYR:HE2	56:BZ:76:LEU:HD22	1.83	0.44
56:BZ:157:LEU:HA	56:BZ:158:PRO:HD2	1.68	0.44
35:DA:2512:C:H4'	39:DE:122:PHE:CE2	2.53	0.44
52:BV:4:ILE:CD1	52:BV:40:LEU:HD11	2.48	0.44
52:BV:36:PRO:HG2	52:BV:60:GLU:CD	2.38	0.44
1:AA:1232:U:H2'	1:AA:1233:G:O4'	2.17	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:961:U:O2'	1:AA:962:C:H5'	2.18	0.44
1:AA:973:G:O3'	14:AN:41:ARG:NH2	2.51	0.44
28:B2:44:LEU:HD12	28:B2:44:LEU:HA	1.76	0.44
54:BX:35:THR:O	54:BX:36:LYS:C	2.56	0.44
39:DE:4:ILE:CD1	39:DE:28:ALA:HB1	2.48	0.44
2:AB:213:LEU:HD22	2:AB:214:ILE:HG12	2.00	0.44
41:BG:101:ILE:HG23	41:BG:102:PHE:H	1.83	0.44
41:BG:120:LEU:HD22	41:BG:133:LEU:CD2	2.48	0.44
28:D2:13:ALA:C	28:D2:14:ARG:NE	2.71	0.44
35:DA:1341:U:H5'	54:DX:57:LEU:HD21	1.99	0.44
54:DX:33:LYS:O	54:DX:34:ALA:C	2.54	0.44
54:DX:8:ILE:H	54:DX:8:ILE:CD1	2.25	0.44
35:DA:559:G:H2'	35:DA:560:C:H6	1.82	0.44
44:DN:44:PRO:O	44:DN:46:VAL:N	2.51	0.44
51:DU:57:PHE:O	51:DU:58:ARG:C	2.55	0.44
1:AA:1057:G:H2'	1:AA:1058:G:C5'	2.47	0.44
47:DQ:52:VAL:O	47:DQ:53:ALA:C	2.55	0.44
3:CC:52:LEU:CD2	3:CC:52:LEU:H	2.21	0.44
19:CS:6:LYS:N	19:CS:6:LYS:CD	2.80	0.44
49:BS:28:VAL:H	49:BS:89:ARG:CB	2.29	0.44
4:CD:100:ARG:O	4:CD:101:LEU:C	2.56	0.44
4:CD:33:MET:C	4:CD:35:ARG:H	2.21	0.44
4:CD:56:VAL:C	4:CD:58:LEU:H	2.21	0.44
40:BF:34:TRP:HA	40:BF:37:VAL:CG2	2.48	0.44
35:DA:1024:G:P	35:DA:1025:G:H3'	2.58	0.44
35:BA:666:G:C5	35:BA:667:U:C5	3.06	0.44
46:BP:30:THR:O	46:BP:33:ARG:N	2.46	0.44
40:DF:43:LYS:HG3	40:DF:44:ARG:N	2.33	0.44
35:BA:2819:G:H2'	35:BA:2821:A:N7	2.32	0.44
35:BA:1638:C:OP1	35:BA:2710:C:O2'	2.36	0.44
48:BR:75:LEU:O	48:BR:79:LEU:HB2	2.18	0.44
41:DG:25:TYR:OH	41:DG:168:GLU:HG3	2.18	0.44
2:CB:213:LEU:C	2:CB:213:LEU:CD2	2.86	0.44
2:CB:219:VAL:O	2:CB:222:ILE:HG22	2.17	0.44
44:DN:17:ASP:O	44:DN:19:GLU:HG3	2.18	0.44
44:BN:55:VAL:HG11	44:BN:127:ASP:H	1.83	0.44
15:CO:66:LEU:N	15:CO:66:LEU:HD12	2.32	0.44
6:CF:100:ASN:CB	18:CR:28:GLU:HA	2.46	0.44
2:CB:164:VAL:O	2:CB:165:VAL:O	2.36	0.44
2:CB:203:GLY:O	2:CB:204:ASN:O	2.36	0.44
35:DA:250:G:H2'	35:DA:251:A:H8	1.83	0.44
55:DY:28:LYS:NZ	55:DY:37:VAL:HG12	2.28	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:719:C:O2	18:AR:50:ILE:N	2.36	0.44
6:AF:24:GLU:HG3	6:AF:25:ILE:HD13	1.99	0.44
18:AR:66:LEU:O	18:AR:69:THR:OG1	2.30	0.44
18:AR:76:LEU:O	18:AR:78:LEU:HG	2.17	0.44
2:AB:142:LEU:HD23	2:AB:142:LEU:O	2.18	0.44
7:AG:104:LEU:O	7:AG:107:ALA:HB3	2.17	0.44
25:CY:139:LYS:O	25:CY:142:LYS:N	2.51	0.44
35:BA:1204:A:N1	35:BA:1241:A:H2	2.16	0.44
1:CA:954:G:C5	1:CA:955:U:C4	3.06	0.44
1:AA:1323:G:H4'	1:AA:1363:C:O2	2.18	0.44
1:CA:1457:G:O2'	1:CA:1458:G:H5'	2.17	0.44
20:CT:51:GLU:O	20:CT:52:ALA:C	2.56	0.44
25:AY:66:LEU:HB2	25:AY:101:ILE:HD13	1.99	0.44
25:AY:133:ARG:NH1	25:AY:162:GLN:OE1	2.51	0.44
7:CG:102:ARG:HG3	7:CG:106:GLN:NE2	2.33	0.44
7:CG:26:PHE:CZ	7:CG:30:ILE:HD11	2.53	0.44
12:AL:27:LEU:O	12:AL:28:LYS:C	2.56	0.44
11:AK:72:ALA:O	11:AK:77:MET:HB2	2.17	0.44
35:BA:1608:A:H1'	35:BA:1610:A:OP2	2.17	0.44
35:DA:2748:A:C2	35:DA:2757:A:C4	3.05	0.44
35:BA:2646:C:H2'	35:BA:2647:U:C6	2.52	0.44
1:AA:638:G:O2'	1:AA:639:G:H5'	2.18	0.44
8:AH:125:ARG:HG3	8:AH:125:ARG:HH11	1.83	0.44
5:AE:37:ARG:NH1	5:AE:37:ARG:HG2	2.33	0.44
1:AA:1079:G:O3'	5:AE:14:ARG:NH2	2.51	0.44
9:AI:58:ARG:HD3	9:AI:59:PHE:CE1	2.53	0.44
8:CH:86:ILE:HG13	8:CH:133:LEU:HD23	2.00	0.44
31:D5:31:VAL:HG11	35:DA:2886:G:H21	1.83	0.44
35:DA:2121:G:C6	35:DA:2176:A:N6	2.86	0.44
1:AA:1346:A:N6	1:AA:1374:A:H3'	2.31	0.44
1:CA:511:C:C2	1:CA:512:U:C4	3.06	0.44
33:D7:34:ARG:C	33:D7:36:GLN:N	2.71	0.44
35:BA:2299:G:C2	35:BA:2318:G:C8	3.05	0.44
35:DA:542:C:H2'	35:DA:542:C:O2	2.18	0.44
5:CE:150:ARG:HB2	5:CE:150:ARG:CZ	2.48	0.44
35:BA:1175:U:C4'	35:BA:1176:G:H3'	2.45	0.44
46:BP:101:VAL:CB	46:BP:107:LYS:HA	2.48	0.44
35:BA:2121:G:C6	35:BA:2176:A:N6	2.86	0.44
39:DE:137:HIS:CB	39:DE:138:PRO:HD2	2.36	0.44
11:CK:96:ARG:O	11:CK:99:GLN:HG2	2.17	0.44
38:DD:43:ARG:HB2	38:DD:54:ARG:HB2	1.98	0.44
1:CA:269:C:H2'	1:CA:270:A:C8	2.52	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:374:A:C2'	35:DA:375:C:H5'	2.47	0.44
1:AA:1457:G:C2	1:AA:1458:G:C5	3.05	0.44
26:D0:23:VAL:CG1	26:D0:24:LYS:N	2.80	0.44
35:BA:49:A:OP1	35:BA:50:U:H3'	2.17	0.44
20:CT:22:ARG:O	20:CT:26:ASN:ND2	2.51	0.44
35:DA:1930:G:H22	35:DA:1968:G:C3'	2.31	0.44
35:DA:1930:G:HO2'	35:DA:1931:U:P	2.40	0.44
1:AA:1255:G:H5'	3:AC:26:LYS:NZ	2.32	0.44
35:DA:2795:G:O6	35:DA:2801(A):A:C2	2.71	0.44
35:BA:737:C:H2'	35:BA:738:G:O5'	2.17	0.44
13:AM:10:PRO:HB2	13:AM:18:ALA:HB1	2.00	0.44
35:BA:1298:C:H2'	35:BA:1299:G:H8	1.82	0.44
1:AA:1300:G:HO2'	1:AA:1301:U:P	2.41	0.44
35:DA:1353:A:H4'	38:DD:38:LYS:HZ1	1.83	0.44
1:CA:1298:C:O4'	1:CA:1299:A:C4	2.71	0.44
1:AA:810:C:H2'	1:AA:811:C:O4'	2.17	0.44
1:AA:226:G:O2'	1:AA:227:G:H5'	2.18	0.44
1:AA:227:G:C6	1:AA:228:A:C6	3.05	0.44
52:DV:1:MET:CE	52:DV:46:VAL:HG23	2.48	0.44
41:BG:33:ARG:HB2	41:BG:162:THR:OG1	2.18	0.44
23:CW:34:U:O2	23:CW:36:A:C8	2.70	0.44
35:DA:1388:G:H1	35:DA:1399:C:N4	2.14	0.44
7:CG:140:ASP:OD1	7:CG:143:ARG:NH2	2.44	0.44
1:AA:570:G:C6	1:AA:873:A:N1	2.85	0.44
1:CA:126:G:H5'	1:CA:633:G:H22	1.81	0.44
10:CJ:22:LYS:O	10:CJ:24:VAL:N	2.42	0.44
1:AA:1030(D):A:C2'	1:AA:1031:G:H5'	2.47	0.44
35:DA:2880:C:H4'	48:DR:90:ARG:NH1	2.33	0.44
35:DA:644:A:C2'	35:DA:645:C:H5''	2.48	0.44
29:B3:23:LEU:H	29:B3:23:LEU:HD12	1.83	0.44
3:CC:206:GLU:HB3	3:CC:207:VAL:H	1.58	0.44
35:BA:1910:G:C2	35:BA:1921:G:C4	3.06	0.44
35:DA:2650:U:H2'	35:DA:2651:C:H6	1.83	0.44
1:AA:125:U:H2'	1:AA:126:G:C8	2.53	0.44
1:AA:858:G:O6	1:AA:869:G:H3'	2.17	0.44
1:AA:132:C:N4	1:AA:231:G:N1	2.65	0.44
3:AC:37:GLN:NE2	14:AN:52:GLN:OE1	2.50	0.44
43:DI:42:SER:C	43:DI:44:LEU:H	2.21	0.44
29:D3:23:LEU:O	29:D3:28:LEU:HB2	2.17	0.44
35:BA:2254:C:C5	35:BA:2255:G:N7	2.86	0.44
1:CA:1157:A:H4'	1:CA:1158:C:O5'	2.17	0.44
35:BA:2792:G:O6	35:BA:2804:C:N3	2.51	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2228:G:P	38:DD:263:ARG:HH21	2.40	0.44
35:DA:1035:U:H5''	42:DH:59:ARG:NH1	2.33	0.44
36:BB:39:A:H2'	36:BB:39:A:N3	2.33	0.44
1:AA:401:C:O5'	1:AA:401:C:H6	2.01	0.44
50:DT:32:TYR:HB2	50:DT:33:LYS:H	1.45	0.44
50:DT:65:LYS:HG3	50:DT:66:VAL:N	2.33	0.44
50:DT:79:HIS:O	50:DT:80:SER:HB2	2.18	0.44
50:DT:88:ILE:HG22	50:DT:89:VAL:HG23	2.00	0.44
1:CA:949:A:C2	1:CA:1233:G:N3	2.86	0.44
38:BD:211:ARG:C	38:BD:213:ARG:N	2.69	0.44
38:DD:91:ARG:O	38:DD:107:ALA:HB3	2.18	0.44
38:DD:206:LEU:HD23	38:DD:211:ARG:NH1	2.32	0.44
38:DD:268:ARG:HB2	38:DD:268:ARG:CZ	2.47	0.44
41:DG:109:VAL:O	41:DG:110:ALA:C	2.56	0.44
41:DG:131:TYR:CE1	41:DG:133:LEU:HG	2.53	0.44
32:B6:51:GLU:O	32:B6:52:VAL:HB	2.18	0.44
35:BA:249:C:H5'	35:BA:2394:C:O2'	2.18	0.44
36:BB:103:G:H1'	56:BZ:73:GLN:HE22	1.83	0.44
47:BQ:138:ASP:OD1	56:BZ:99:TYR:HE1	2.00	0.44
52:BV:36:PRO:CG	52:BV:60:GLU:OE1	2.66	0.44
1:AA:949:A:C2	1:AA:1233:G:N3	2.86	0.44
28:B2:46:GLN:HE21	28:B2:47:ASN:N	2.14	0.44
28:B2:52:ASP:OD2	35:BA:72:U:H1'	2.18	0.44
35:DA:1863:G:H1	35:DA:1879:C:H42	1.66	0.44
27:B1:52:ARG:NH1	35:BA:2199:A:H5'	2.33	0.44
2:AB:77:ALA:HB1	2:AB:211:ILE:HD13	1.99	0.44
30:B4:6:HIS:N	41:BG:67:LYS:HE3	2.32	0.44
42:BH:121:ILE:HG22	42:BH:133:VAL:HG11	1.99	0.44
42:BH:87:LEU:CD1	42:BH:148:ILE:HG21	2.48	0.44
35:DA:559:G:N2	51:DU:49:HIS:HD2	2.14	0.44
35:DA:559:G:O2'	35:DA:560:C:H5'	2.17	0.44
52:DV:61:VAL:HG21	52:DV:100:ARG:H	1.82	0.44
10:AJ:98:ILE:HG22	10:AJ:99:LYS:N	2.33	0.44
1:AA:1049:U:OP1	14:AN:3:ARG:NH1	2.50	0.44
4:CD:14:ARG:C	4:CD:16:GLY:N	2.71	0.44
25:AY:58:VAL:HG22	25:AY:68:VAL:HG13	1.99	0.44
34:B8:2:PRO:O	34:B8:3:LYS:HB2	2.17	0.44
35:BA:2029:G:H2'	35:BA:2031:A:OP2	2.18	0.44
35:BA:585:G:H2'	35:BA:586:A:N7	2.32	0.44
35:BA:664:C:H4'	35:BA:941:A:OP1	2.18	0.44
40:BF:53:THR:HG23	40:BF:56:GLU:H	1.83	0.44
51:BU:7:GLY:C	51:BU:8:VAL:CG2	2.86	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AC:109:PRO:HA	3:AC:115:LEU:HD12	1.99	0.44
1:AA:100:C:H2'	1:AA:101:A:C8	2.53	0.44
36:DB:115:G:H2'	36:DB:116:G:C8	2.52	0.44
49:DS:56:LEU:O	49:DS:57:LYS:HB3	2.18	0.44
44:BN:19:GLU:C	44:BN:21:LYS:H	2.21	0.44
6:CF:39:LYS:CG	6:CF:40:VAL:H	2.28	0.44
34:D8:56:GLU:HA	34:D8:59:LYS:CE	2.47	0.44
35:DA:792:G:N3	35:DA:2072:G:H1'	2.33	0.44
40:DF:89:VAL:HG12	40:DF:90:PHE:CD1	2.53	0.44
46:DP:48:PRO:CG	46:DP:49:ARG:N	2.81	0.44
1:AA:1410:G:N2	1:AA:1491:G:H1'	2.33	0.44
3:AC:11:ARG:O	3:AC:14:ILE:O	2.35	0.44
1:AA:583:A:H2'	1:AA:584:G:C8	2.53	0.44
47:DQ:70:PRO:HA	47:DQ:94:VAL:C	2.38	0.44
6:AF:9:VAL:HG12	6:AF:10:LEU:N	2.33	0.44
18:AR:37:VAL:O	18:AR:40:LEU:N	2.50	0.44
1:CA:1500:A:OP1	1:CA:1505:G:OP1	2.35	0.44
35:DA:2029:G:C4	35:DA:2031:A:OP2	2.70	0.44
35:DA:567:A:N1	35:DA:568:U:O2	2.51	0.44
51:DU:8:VAL:O	51:DU:10:ARG:N	2.51	0.44
25:CY:10:THR:C	25:CY:14:MET:HG3	2.33	0.44
25:CY:25:LEU:C	25:CY:27:GLY:N	2.71	0.44
16:AP:23:ASP:OD1	16:AP:24:ALA:N	2.50	0.44
1:AA:1009:G:O2'	1:AA:1010:G:H5'	2.18	0.44
1:CA:756:C:H2'	1:CA:757:U:O4'	2.18	0.44
35:BA:2163:C:O2'	35:BA:2164:C:P	2.75	0.44
35:BA:2701:C:C3'	35:BA:2702:U:H5''	2.31	0.44
35:BA:530:G:C5	35:BA:2022:U:H5''	2.52	0.44
1:AA:708:C:H2'	1:AA:709:G:H8	1.83	0.44
19:AS:63:THR:HG22	19:AS:66:MET:CE	2.48	0.44
26:D0:16:SER:CB	35:DA:2261:C:H3'	2.48	0.44
35:DA:2262:U:H2'	35:DA:2263:C:C5'	2.41	0.44
8:AH:122:ARG:CA	8:AH:125:ARG:HB3	2.43	0.44
8:CH:63:LEU:HB3	8:CH:64:LYS:H	1.64	0.44
35:DA:2128:C:H5'	35:DA:2173:A:H2	1.83	0.44
42:BH:13:LYS:CA	42:BH:13:LYS:HE2	2.35	0.44
18:CR:62:GLU:O	18:CR:63:GLN:C	2.56	0.44
42:BH:41:MET:HE1	42:BH:55:PRO:HD2	1.99	0.44
35:DA:1175:U:H4'	35:DA:1176:G:H5'	1.98	0.44
46:BP:113:LYS:HG2	46:BP:115:LEU:CD2	2.48	0.44
1:CA:452:A:H4'	16:CP:72:ARG:CZ	2.47	0.44
40:BF:167:ALA:O	40:BF:168:ARG:C	2.56	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:BF:160:ASN:HB3	40:BF:163:VAL:CG2	2.47	0.44
11:CK:30:VAL:HG21	11:CK:68:ALA:HB2	2.00	0.44
35:DA:707:G:H3'	35:DA:708:C:C6	2.53	0.44
35:BA:614:U:C4'	35:BA:614(C):A:H62	2.31	0.44
39:DE:103:ASP:OD1	39:DE:201:THR:HA	2.18	0.44
38:DD:72:LYS:HB2	38:DD:97:TYR:HE2	1.82	0.44
1:CA:677:U:H2'	1:CA:678:U:C6	2.53	0.44
26:D0:39:ARG:NH2	35:DA:2354:G:N2	2.65	0.44
5:AE:105:VAL:HB	5:AE:106:PRO:HD3	2.00	0.44
1:CA:385:C:H2'	1:CA:386:C:C6	2.51	0.44
20:CT:27:LYS:C	20:CT:27:LYS:HD3	2.38	0.44
1:AA:664:G:P	18:AR:64:ARG:HH21	2.41	0.44
1:CA:725:G:O2'	1:CA:726:C:H5'	2.17	0.44
53:BW:75:TYR:HE1	53:BW:104:THR:HB	1.74	0.44
23:CW:17:C:H5''	23:CW:18:U:C6	2.53	0.44
46:DP:57:THR:C	46:DP:59:LEU:N	2.70	0.44
8:AH:53:VAL:O	8:AH:54:ASP:CB	2.66	0.44
53:BW:19:LEU:O	53:BW:20:VAL:C	2.56	0.44
35:BA:1720:U:H2'	35:BA:1721:G:C5'	2.48	0.44
36:DB:100:A:C4	36:DB:101:G:C8	3.05	0.44
35:DA:2660:A:H2'	35:DA:2661:G:C8	2.53	0.44
35:DA:695:G:C6	35:DA:696:G:N7	2.86	0.44
52:BV:46:VAL:HG12	52:BV:47:VAL:N	2.33	0.44
35:BA:2352:A:H2'	35:BA:2353:G:H5'	2.00	0.44
1:AA:1243:C:OP2	21:AU:10:ARG:NH1	2.50	0.44
45:DO:13:ASN:HD22	45:DO:97:ARG:HG2	1.82	0.44
17:AQ:14:LYS:HB2	17:AQ:14:LYS:HZ3	1.82	0.44
53:BW:24:ILE:O	53:BW:26:GLY:N	2.50	0.44
35:BA:7:G:H4'	44:BN:13:TRP:CZ2	2.52	0.44
7:AG:27:ILE:HD11	7:AG:43:PHE:CD2	2.53	0.44
35:BA:431:U:H6	35:BA:431:U:O5'	2.00	0.44
1:CA:241:C:C1'	1:CA:286:G:N2	2.81	0.44
35:DA:1853:A:N1	35:DA:2087:G:H1'	2.33	0.44
6:CF:37:VAL:HG13	6:CF:65:VAL:HG12	1.99	0.44
35:BA:1517:G:C2'	35:BA:1518:U:H5'	2.48	0.44
45:BO:47:ILE:HG23	45:BO:48:PRO:N	2.33	0.44
35:BA:426:C:H2'	35:BA:427:U:C5'	2.48	0.44
3:CC:61:ALA:O	3:CC:62:ASP:HB2	2.18	0.44
35:DA:42:G:H2'	35:DA:43:A:H8	1.78	0.44
35:BA:422:A:C6	35:BA:423:A:C6	3.06	0.44
35:DA:2517:C:C4	35:DA:2542:A:C6	3.06	0.44
35:DA:40:C:H2'	35:DA:41:C:C6	2.50	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:751:A:H62	35:DA:789:A:N6	2.15	0.44
35:DA:1669:A:H5"	35:DA:2550:G:OP1	2.18	0.44
17:AQ:99:SER:O	17:AQ:100:LYS:HE2	2.18	0.44
35:BA:641:C:C2'	35:BA:642:G:H5'	2.48	0.44
13:AM:4:ILE:HG22	13:AM:5:ALA:N	2.33	0.44
42:DH:59:ARG:HG2	42:DH:59:ARG:O	2.18	0.44
7:CG:57:GLU:O	7:CG:59:LEU:N	2.49	0.44
35:BA:1507:A:C2	35:BA:1508:A:H1'	2.53	0.44
1:CA:433:C:H6	1:CA:433:C:O5'	2.01	0.44
35:BA:761:A:H8	35:BA:761:A:O5'	2.01	0.44
35:BA:688:U:H5'	35:BA:1780:A:C2	2.53	0.44
7:CG:32:ARG:O	7:CG:33:ASP:HB2	2.18	0.44
35:DA:2711:A:C8	35:DA:2714:G:O4'	2.71	0.44
45:DO:43:VAL:HG11	45:DO:46:ALA:HB2	1.99	0.44
50:DT:62:THR:HG22	50:DT:75:ILE:CA	2.23	0.44
50:DT:29:ARG:HG2	50:DT:86:ILE:N	2.33	0.44
14:CN:22:THR:O	14:CN:23:ARG:HB2	2.17	0.44
41:DG:16:ARG:HG3	41:DG:16:ARG:NH1	2.32	0.44
35:DA:1788:C:C2	35:DA:1789:A:C8	3.06	0.44
35:DA:1802:A:H2'	35:DA:1803:A:C8	2.53	0.44
41:DG:88:ILE:HG22	41:DG:89:GLY:N	2.33	0.44
41:DG:93:THR:C	41:DG:94:LEU:HD23	2.39	0.44
34:B8:39:LYS:HZ2	34:B8:40:GLU:HA	1.82	0.44
35:BA:2285:C:H6	35:BA:2285:C:H3'	1.83	0.44
56:BZ:120:ILE:HB	56:BZ:171:ILE:O	2.17	0.44
39:DE:140:SER:OG	39:DE:141:ILE:N	2.51	0.44
51:BU:54:LYS:O	51:BU:58:ARG:HG3	2.18	0.44
9:AI:114:TYR:HE1	10:AJ:60:ARG:H	1.58	0.44
14:AN:26:ARG:HB2	14:AN:39:LEU:CD2	2.47	0.44
14:AN:41:ARG:HG3	14:AN:42:ILE:N	2.31	0.44
28:B2:14:ARG:NE	28:B2:14:ARG:H	2.15	0.44
35:BA:1601:G:OP2	54:BX:58:HIS:HD2	2.01	0.44
54:BX:49:VAL:HG13	54:BX:85:PRO:HB3	1.98	0.44
35:DA:2892:A:N6	35:DA:2893:G:N2	2.66	0.44
39:DE:33:VAL:HG11	39:DE:89:ASP:N	2.11	0.44
39:DE:51:PHE:C	39:DE:51:PHE:CD1	2.91	0.44
27:B1:10:LYS:HA	27:B1:13:ILE:CG2	2.47	0.44
41:BG:114:ILE:HD12	41:BG:117:PHE:CD2	2.53	0.44
41:BG:73:ALA:HB2	41:BG:87:PRO:CG	2.44	0.44
55:DY:90:LEU:HD23	55:DY:90:LEU:N	2.33	0.44
28:D2:32:LEU:CG	28:D2:33:MET:N	2.81	0.44
56:DZ:33:LEU:CD2	56:DZ:35:ARG:HB2	2.42	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
56:DZ:48:PHE:CE2	56:DZ:52:SER:HA	2.53	0.44
51:DU:74:LEU:HD12	51:DU:74:LEU:O	2.17	0.44
4:CD:101:LEU:CD2	4:CD:121:VAL:HG13	2.46	0.44
40:BF:41:LEU:HA	40:BF:44:ARG:CG	2.48	0.44
27:D1:62:VAL:CG2	27:D1:67:ILE:HA	2.28	0.44
35:DA:373:U:H1'	35:DA:423:A:N3	2.32	0.44
35:BA:1262:A:P	53:BW:99:ARG:HH12	2.41	0.44
40:DF:192:LEU:HD21	40:DF:194:MET:CE	2.46	0.44
47:BQ:70:PRO:HA	47:BQ:94:VAL:C	2.38	0.44
35:DA:1654:A:O2'	35:DA:1655:A:H5'	2.17	0.44
1:AA:1438:G:H2'	1:AA:1439:C:H6	1.82	0.44
48:BR:72:ASP:HB3	48:BR:75:LEU:HB2	2.00	0.44
49:DS:58:LEU:CD2	49:DS:65:VAL:HG13	2.48	0.44
49:DS:72:ALA:C	49:DS:76:LYS:HG2	2.37	0.44
2:CB:80:ILE:CD1	2:CB:215:LEU:HD12	2.47	0.44
44:DN:104:LYS:C	44:DN:106:MET:H	2.22	0.44
44:BN:17:ASP:O	44:BN:19:GLU:HG3	2.18	0.44
15:CO:83:GLU:O	15:CO:83:GLU:HG2	2.18	0.44
18:CR:22:VAL:HG13	18:CR:25:THR:HB	2.00	0.44
2:CB:51:LEU:O	2:CB:55:PHE:HD2	2.01	0.44
4:AD:126:ILE:CG2	4:AD:127:THR:N	2.79	0.44
4:AD:173:TRP:C	4:AD:186:LEU:HB2	2.39	0.44
46:DP:147:LEU:HB2	46:DP:148:LEU:H	1.57	0.44
4:AD:62:GLN:HB3	4:AD:66:ARG:HH22	1.81	0.44
35:DA:1130:U:O2	35:DA:2025:C:H5"	2.18	0.44
51:DU:39:LEU:O	51:DU:40:PHE:C	2.55	0.44
1:CA:1312:G:N2	1:CA:1326:C:C2	2.86	0.44
16:AP:74:LEU:O	16:AP:77:ALA:HB3	2.18	0.44
25:AY:18:LEU:O	25:AY:19:GLU:C	2.56	0.44
11:AK:109:VAL:HG22	18:AR:85:LEU:O	2.18	0.44
43:BI:112:LYS:C	43:BI:114:LEU:H	2.22	0.44
12:AL:38:THR:CG2	12:AL:57:LYS:HB2	2.47	0.44
8:CH:125:ARG:HG3	8:CH:125:ARG:HH11	1.83	0.44
8:CH:121:ASP:O	8:CH:125:ARG:NE	2.51	0.44
55:BY:11:ASP:OD1	55:BY:12:THR:N	2.51	0.44
55:BY:15:VAL:HG12	55:BY:16:ALA:N	2.25	0.44
35:DA:975(A):G:N3	35:DA:1156:A:H2	2.15	0.44
1:AA:511:C:O2'	1:AA:512:U:H6	2.01	0.44
9:AI:17:VAL:HG22	9:AI:63:ILE:CG2	2.48	0.44
31:D5:40:LYS:NZ	31:D5:46:CYS:H	2.16	0.44
4:AD:145:GLU:C	4:AD:146:ILE:HD13	2.38	0.44
42:BH:66:GLY:CA	42:BH:69:ARG:HB2	2.36	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:CI:3:GLN:HA	9:CI:19:LEU:O	2.17	0.44
9:CI:28:VAL:O	9:CI:30:GLY:N	2.51	0.44
9:CI:5:TYR:HE1	9:CI:7:THR:OG1	1.99	0.44
35:BA:1175:U:H4'	35:BA:1176:G:H5'	2.00	0.44
15:CO:11:VAL:HG13	15:CO:15:PHE:CE1	2.53	0.44
46:BP:95:VAL:HG23	46:BP:125:VAL:CB	2.46	0.44
35:BA:1615:C:H5	35:BA:1617:C:C5	2.35	0.44
39:DE:167:VAL:HG22	39:DE:170:LEU:HD11	2.00	0.44
35:BA:1484:G:H3'	35:BA:1485:G:C5'	2.46	0.44
35:BA:2795:G:O6	35:BA:2801(A):A:C2	2.71	0.44
36:BB:20:C:H2'	36:BB:21:G:C5'	2.38	0.44
53:DW:6:ILE:HG22	53:DW:6:ILE:O	2.17	0.44
16:AP:12:LYS:O	16:AP:13:HIS:HB2	2.17	0.44
3:AC:88:ARG:HG2	3:AC:101:LEU:CB	2.47	0.44
12:CL:21:LYS:CD	12:CL:21:LYS:H	2.09	0.44
5:CE:41:VAL:CG1	5:CE:113:ALA:HA	2.48	0.44
1:CA:1254:C:H2'	1:CA:1255:G:H8	1.82	0.44
1:CA:766:A:C5	1:CA:814:A:C2	3.06	0.44
35:BA:290:G:O2'	35:BA:291:C:H5'	2.18	0.44
13:CM:8:GLU:C	13:CM:9:ILE:HD12	2.38	0.44
11:CK:127:LYS:O	11:CK:127:LYS:HE2	2.18	0.44
15:AO:85:LEU:HB2	15:AO:87:ILE:CD1	2.48	0.44
35:DA:1807:G:C2	35:DA:1811:G:O6	2.71	0.44
31:D5:15:ARG:HH11	31:D5:15:ARG:HG3	1.83	0.44
35:BA:2195:C:C2'	35:BA:2196:C:H5'	2.48	0.44
1:CA:339:C:O2'	1:CA:340:U:H5'	2.17	0.44
53:BW:50:VAL:HG13	53:BW:105:VAL:HG21	1.99	0.44
1:CA:1340:A:O2'	22:CV:31:U:H5'	2.18	0.44
34:B8:17:THR:HG22	35:BA:650:C:O2'	2.17	0.44
1:CA:1242:C:O5'	21:CU:10:ARG:NH1	2.51	0.44
29:B3:58:VAL:HG12	29:B3:59:VAL:N	2.33	0.44
1:AA:565:U:H2'	1:AA:566:G:H8	1.83	0.44
35:BA:718:A:H2'	35:BA:719:C:O4'	2.18	0.44
1:CA:125:U:H2'	1:CA:126:G:C8	2.53	0.44
53:DW:65:LEU:O	53:DW:69:LEU:HG	2.18	0.44
9:CI:42:ARG:NH2	9:CI:75:ASP:OD1	2.51	0.44
43:DI:25:TYR:HE2	43:DI:29:TYR:CD2	2.36	0.44
36:BB:16:G:H2'	36:BB:17:C:C6	2.52	0.44
45:DO:17:ARG:O	45:DO:18:LYS:CG	2.66	0.44
35:DA:2073:C:H2'	35:DA:2074:U:H6	1.83	0.44
38:DD:109:ASP:HB2	38:DD:197:GLY:HA2	2.00	0.44
35:DA:1227:G:OP1	51:DU:13:LYS:HE2	2.18	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1161:C:H2'	1:CA:1162:C:C6	2.53	0.44
1:CA:828:A:H2'	1:CA:829:G:O4'	2.17	0.44
50:DT:121:ILE:CG2	50:DT:122:ASP:N	2.80	0.44
53:BW:9:TYR:H	53:BW:9:TYR:HD2	1.66	0.44
3:CC:35:GLU:OE2	3:CC:95:THR:HG23	2.18	0.44
35:DA:826:U:H2'	35:DA:828:U:O4'	2.18	0.44
35:DA:38:A:H2'	35:DA:39:C:H6	1.83	0.44
35:DA:1305:C:C2'	35:DA:1306:C:H5'	2.48	0.44
50:DT:57:PHE:CG	50:DT:58:ASN:N	2.85	0.44
43:BI:42:SER:C	43:BI:44:LEU:H	2.20	0.44
15:CO:6:GLU:N	15:CO:6:GLU:OE1	2.33	0.44
1:AA:44:G:N2	1:AA:45:U:H1'	2.33	0.44
25:AY:184:LEU:O	25:AY:185:GLY:OXT	2.35	0.44
7:AG:115:ARG:HB2	7:AG:118:VAL:CG2	2.48	0.44
35:DA:2004:G:H2'	35:DA:2005:A:C8	2.53	0.44
1:CA:152:A:N6	1:CA:170:U:C2	2.86	0.44
35:DA:2584:U:O2	35:DA:2584:U:O4'	2.33	0.44
35:DA:2696:U:H2'	35:DA:2697:G:C8	2.52	0.43
35:DA:2726:U:HO2'	35:DA:2727:G:C5'	2.31	0.43
43:BI:79:ILE:C	43:BI:81:VAL:H	2.21	0.43
43:BI:91:SER:H	43:BI:121:LYS:HE2	1.82	0.43
10:CJ:48:THR:HG1	10:CJ:62:HIS:CG	2.36	0.43
14:CN:22:THR:HB	14:CN:33:VAL:HG21	1.99	0.43
41:DG:11:TYR:O	41:DG:12:TYR:C	2.56	0.43
38:BD:267:SER:HA	38:BD:270:ILE:CG1	2.48	0.43
38:BD:43:ARG:HB2	38:BD:54:ARG:HB2	2.00	0.43
38:DD:241:PRO:O	38:DD:242:ARG:HB2	2.18	0.43
38:DD:82:ILE:HA	38:DD:92:ILE:O	2.18	0.43
41:DG:92:VAL:CG2	41:DG:93:THR:H	2.27	0.43
47:DQ:68:ILE:CD1	47:DQ:68:ILE:N	2.80	0.43
1:AA:1442:G:C8	1:AA:1442(B):A:C2	3.06	0.43
35:BA:2864:G:H5'	35:BA:2864:G:C8	2.49	0.43
56:BZ:27:VAL:O	56:BZ:88:PHE:N	2.41	0.43
35:BA:2810:A:C2'	39:BE:61:ARG:NH2	2.81	0.43
35:BA:996:A:C1'	51:BU:92:ARG:HH21	2.31	0.43
35:BA:1346:G:H1	35:BA:1600:C:H42	1.65	0.43
35:BA:393:C:H2'	35:BA:394:A:C8	2.50	0.43
2:AB:212:GLN:HE22	2:AB:216:SER:HB2	1.76	0.43
41:BG:108:ASN:C	41:BG:112:PRO:HG2	2.39	0.43
41:BG:133:LEU:HD12	41:BG:133:LEU:C	2.38	0.43
28:D2:13:ALA:O	28:D2:14:ARG:O	2.35	0.43
42:BH:124:GLU:HB2	42:BH:132:ARG:O	2.18	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
56:DZ:40:ASP:OD1	56:DZ:43:GLU:N	2.34	0.43
44:DN:39:ARG:HG3	44:DN:39:ARG:HH11	1.83	0.43
51:DU:106:PHE:O	51:DU:107:ALA:C	2.56	0.43
35:BA:1882:C:O2	35:BA:1882:C:H2'	2.18	0.43
1:CA:1057:G:C2'	1:CA:1058:G:H5'	2.48	0.43
1:CA:1203:C:OP1	14:CN:3:ARG:CD	2.63	0.43
40:BF:157:VAL:HB	40:BF:194:MET:CB	2.48	0.43
35:BA:2052:G:H2'	35:BA:2053:G:C8	2.41	0.43
27:D1:87:PRO:O	27:D1:91:LYS:N	2.40	0.43
35:BA:579:G:C2	35:BA:1262:A:C4	3.07	0.43
46:BP:48:PRO:CG	46:BP:49:ARG:H	2.31	0.43
40:DF:182:ASN:O	40:DF:182:ASN:OD1	2.36	0.43
40:DF:21:ALA:C	40:DF:23:ASP:N	2.71	0.43
47:BQ:16:ARG:HG2	47:BQ:17:LEU:N	2.25	0.43
48:DR:81:ASP:O	48:DR:82:GLU:HB2	2.17	0.43
48:BR:2:ARG:HE	48:BR:5:LYS:HZ2	1.66	0.43
20:AT:24:LEU:O	20:AT:27:LYS:CB	2.66	0.43
35:BA:1326:U:C2'	35:BA:1327:C:H5'	2.48	0.43
48:BR:19:ALA:O	48:BR:20:LEU:C	2.55	0.43
36:DB:28:C:H42	36:DB:56:G:H1	1.66	0.43
49:DS:26:LEU:CD2	49:DS:28:VAL:HG22	2.47	0.43
2:CB:236:TYR:C	2:CB:238:LEU:H	2.20	0.43
18:CR:40:LEU:O	18:CR:43:PHE:HD1	2.02	0.43
18:CR:76:LEU:O	18:CR:78:LEU:HG	2.17	0.43
35:DA:1259:G:H2'	35:DA:1260:G:C8	2.52	0.43
35:DA:813:U:H2'	35:DA:814:C:H6	1.77	0.43
35:DA:685:A:C2	35:DA:787:U:H1'	2.53	0.43
1:AA:407:G:O2'	4:AD:116:GLN:HG3	2.18	0.43
1:AA:434:U:H2'	1:AA:435:C:C1'	2.48	0.43
4:AD:160:GLN:O	4:AD:163:GLU:HB3	2.18	0.43
1:AA:1410:G:C2	1:AA:1491:G:N3	2.86	0.43
12:AL:6:THR:H	12:AL:9:GLN:NE2	2.15	0.43
17:AQ:27:PHE:O	17:AQ:36:ILE:HG13	2.18	0.43
1:AA:1357:A:N7	1:AA:1358:U:C4	2.86	0.43
4:AD:18:LYS:HE3	4:AD:31:CYS:CB	2.48	0.43
4:AD:74:GLN:C	4:AD:76:ARG:N	2.71	0.43
1:AA:735:C:HO2'	1:AA:736:C:H5'	1.80	0.43
1:CA:1497:G:C6	1:CA:1498:U:O4	2.71	0.43
35:DA:1912:A:H5'	35:DA:1918:A:N1	2.33	0.43
35:DA:961:C:C5	35:DA:2031:A:C2	3.06	0.43
25:CY:10:THR:O	25:CY:12:SER:N	2.51	0.43
1:CA:1323:G:H4'	1:CA:1363:C:O2	2.18	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1268:A:H4'	21:CU:20:LYS:H	1.82	0.43
35:DA:17:G:H2'	35:DA:18:C:C6	2.52	0.43
17:CQ:29:HIS:ND1	17:CQ:31:LEU:N	2.52	0.43
35:BA:1131:G:C2	35:BA:1132:A:N7	2.85	0.43
1:CA:692:U:H5	11:CK:26:ASN:CG	2.21	0.43
38:BD:31:LYS:O	38:BD:32:SER:O	2.35	0.43
40:DF:160:ASN:OD1	40:DF:163:VAL:HG23	2.18	0.43
13:AM:91:ARG:CB	13:AM:96:LEU:O	2.63	0.43
35:DA:261:G:HO2'	35:DA:609:A:H2	1.61	0.43
46:DP:16:ARG:O	46:DP:18:ARG:N	2.51	0.43
1:AA:15:G:H1'	5:AE:19:MET:HG2	1.99	0.43
25:CY:41:LEU:HD22	25:CY:83:ILE:CD1	2.48	0.43
12:AL:119:LYS:HD3	12:AL:120:TYR:CE1	2.52	0.43
1:CA:561:U:O2'	1:CA:562:C:P	2.76	0.43
1:CA:824:C:H4'	8:CH:1:MET:H1	1.83	0.43
5:AE:147:ASP:O	5:AE:151:LEU:HG	2.18	0.43
1:AA:561:U:O2'	1:AA:562:C:P	2.76	0.43
12:CL:47:LYS:HG2	12:CL:48:PRO:HD3	2.00	0.43
31:B5:31:VAL:O	31:B5:32:PRO:O	2.36	0.43
1:CA:1169:A:C2	1:CA:1170:A:C4	3.06	0.43
46:DP:131:SER:O	46:DP:135:LEU:N	2.51	0.43
1:AA:445:G:N1	1:AA:490:G:C6	2.86	0.43
56:BZ:19:ARG:HB3	56:BZ:19:ARG:HH11	1.83	0.43
1:CA:933:G:OP2	7:CG:3:ARG:HB3	2.17	0.43
5:AE:99:GLY:O	5:AE:117:ASP:HA	2.18	0.43
35:DA:724:U:H2'	35:DA:725:G:H5'	2.00	0.43
35:BA:2883:A:C5'	35:BA:2884:U:H5'	2.48	0.43
35:DA:2704:C:C2	35:DA:2705:A:C8	3.05	0.43
2:AB:100:GLY:O	2:AB:104:ASN:C	2.56	0.43
35:BA:724:U:H2'	35:BA:725:G:H5'	1.98	0.43
7:AG:66:VAL:HB	7:AG:67:GLU:OE2	2.18	0.43
35:DA:2832:U:O4	35:DA:2883:A:H5''	2.18	0.43
35:DA:2831:G:O2'	35:DA:2883:A:H2'	2.17	0.43
35:BA:444:C:O2'	35:BA:445:C:H5'	2.18	0.43
35:BA:1042:G:N3	35:BA:1114:G:N2	2.66	0.43
1:CA:1434:A:H2'	1:CA:1435:G:O4'	2.18	0.43
57:DC:59:ARG:HB2	57:DC:62:VAL:CG2	2.41	0.43
1:AA:831:U:H2'	1:AA:832:C:C5	2.53	0.43
35:DA:1982:C:C2	35:DA:1983:C:C5	3.05	0.43
35:BA:2636:U:H2'	35:BA:2637:U:H6	1.83	0.43
35:DA:1615:C:H5	35:DA:1617:C:C2	2.37	0.43
35:BA:855:G:C6	35:BA:856:C:C4	3.06	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:974:G:C4	35:DA:989:G:C2	3.05	0.43
13:AM:9:ILE:HD13	41:BG:146:TYR:OH	2.17	0.43
9:AI:9:ARG:HA	9:AI:14:VAL:HA	1.99	0.43
1:AA:1299:A:C5	1:AA:1301:U:N3	2.86	0.43
15:AO:33:THR:HG23	15:AO:63:ARG:HH11	1.81	0.43
38:DD:139:GLY:H	38:DD:165:ILE:HB	1.82	0.43
1:CA:1239:A:N6	1:CA:1299:A:H62	2.08	0.43
36:DB:64:C:O2'	36:DB:65:C:H5'	2.18	0.43
1:AA:227:G:C2	1:AA:228:A:C4	3.05	0.43
1:CA:1271:G:H5'	1:CA:1314:C:C5'	2.42	0.43
35:DA:552:G:H1'	35:DA:1220:A:C2	2.53	0.43
1:CA:783:C:H2'	1:CA:784:C:H6	1.83	0.43
35:DA:604:G:H2'	35:DA:605:C:C6	2.53	0.43
35:DA:604:G:O6	35:DA:625:G:C6	2.70	0.43
35:BA:1889:A:H1'	35:BA:2087:G:O4'	2.18	0.43
53:DW:67:ASP:N	53:DW:69:LEU:HD11	2.33	0.43
35:DA:1853:A:H2'	35:DA:1854:A:O4'	2.17	0.43
19:AS:22:LEU:HD22	19:AS:27:GLU:HB2	1.99	0.43
35:DA:838:C:O2'	35:DA:839:U:H5'	2.17	0.43
35:BA:1767:C:O2	35:BA:1985:G:N2	2.43	0.43
35:BA:2882:A:OP1	48:BR:96:ARG:HD3	2.17	0.43
1:CA:702:A:C3'	1:CA:703:G:H5'	2.48	0.43
35:BA:40:C:H2'	35:BA:41:C:C6	2.51	0.43
35:DA:826:U:C2	35:DA:828:U:H1'	2.53	0.43
5:AE:87:SER:OG	5:AE:125:SER:CB	2.66	0.43
52:DV:58:VAL:HG12	52:DV:101:GLY:C	2.38	0.43
53:DW:80:PRO:O	53:DW:100:THR:HG22	2.17	0.43
35:DA:2460:U:C2'	35:DA:2461:C:H5'	2.48	0.43
1:CA:44:G:C2	1:CA:399:G:C2	3.05	0.43
3:AC:121:ALA:HB1	3:AC:188:LEU:O	2.18	0.43
35:DA:118:A:H1'	35:DA:178:G:O4'	2.17	0.43
7:CG:133:GLY:HA2	7:CG:136:LYS:CG	2.47	0.43
35:BA:2374:C:O2'	35:BA:2375:G:H5'	2.18	0.43
4:AD:167:GLY:O	4:AD:168:ARG:C	2.56	0.43
5:AE:62:ALA:O	5:AE:65:ASN:N	2.47	0.43
1:AA:433:C:H6	1:AA:433:C:O5'	2.00	0.43
35:DA:2400:G:H2'	35:DA:2401:U:H6	1.83	0.43
1:AA:1086:U:O2'	1:AA:1087:G:H5'	2.18	0.43
45:DO:67:LYS:O	45:DO:68:GLU:C	2.55	0.43
45:DO:65:THR:HA	45:DO:82:ASN:HA	2.00	0.43
50:DT:107:ASP:CG	50:DT:109:GLU:H	2.20	0.43
45:DO:76:ALA:CB	50:DT:75:ILE:HD13	2.47	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1050:G:H2'	1:CA:1051:C:H6	1.82	0.43
1:CA:1049:U:O2'	1:CA:1050:G:OP2	2.29	0.43
1:CA:951:G:C6	1:CA:1231:G:C6	3.06	0.43
1:CA:1080:A:C5'	5:CE:16:THR:HG21	2.48	0.43
35:DA:1813:G:N3	38:DD:50:THR:HB	2.33	0.43
41:DG:38:VAL:O	41:DG:38:VAL:HG12	2.17	0.43
35:BA:2566:A:N6	45:BO:28:SER:HB2	2.33	0.43
45:BO:43:VAL:HG12	45:BO:43:VAL:O	2.18	0.43
50:BT:28:VAL:O	50:BT:29:ARG:CD	2.66	0.43
50:BT:48:ILE:CD1	50:BT:48:ILE:N	2.81	0.43
35:BA:902:C:H2'	35:BA:903:C:H6	1.81	0.43
35:BA:2633:G:H5'	35:BA:2811:G:O2'	2.17	0.43
39:BE:35:GLN:HE22	39:BE:37:ARG:HH21	1.65	0.43
52:BV:29:PRO:C	52:BV:31:ALA:H	2.21	0.43
1:AA:972:C:C2'	10:AJ:55:LYS:HD3	2.47	0.43
10:AJ:57:LYS:HD2	10:AJ:60:ARG:HH21	1.83	0.43
54:BX:60:ARG:CG	54:BX:74:PRO:HD2	2.33	0.43
39:DE:50:GLY:HA3	39:DE:74:PRO:HG3	2.00	0.43
35:DA:1882:C:H2'	35:DA:1882:C:O2	2.17	0.43
57:DC:49:ILE:HB	57:DC:50:ASP:H	1.50	0.43
35:BA:2300:G:H1	35:BA:2316:C:N4	2.10	0.43
35:BA:242:G:N3	35:BA:254:G:C6	2.87	0.43
28:D2:41:ILE:N	28:D2:41:ILE:CD1	2.75	0.43
56:DZ:29:TYR:HA	56:DZ:33:LEU:O	2.18	0.43
56:DZ:37:VAL:O	56:DZ:37:VAL:HG23	2.17	0.43
51:DU:90:VAL:O	51:DU:92:ARG:N	2.48	0.43
52:DV:22:VAL:HB	52:DV:94:LEU:CB	2.39	0.43
47:DQ:57:HIS:ND1	47:DQ:58:PHE:N	2.66	0.43
19:CS:72:GLY:O	19:CS:74:PHE:N	2.51	0.43
45:DO:118:ALA:HA	45:DO:119:PRO:HD2	1.87	0.43
32:D6:27:LYS:HG3	35:DA:2286:A:OP2	2.16	0.43
35:DA:2287:A:C2	35:DA:2289:G:C8	3.05	0.43
36:BB:51:G:H2'	36:BB:52:A:C1'	2.48	0.43
49:BS:13:ARG:O	49:BS:15:ARG:HD3	2.18	0.43
4:CD:100:ARG:NH2	4:CD:137:SER:HA	2.34	0.43
4:CD:109:GLY:O	4:CD:161:ASN:HB3	2.18	0.43
4:CD:64:LEU:CD2	4:CD:203:VAL:HG21	2.48	0.43
40:BF:114:VAL:HG11	40:BF:202:PHE:CE2	2.47	0.43
40:BF:3:GLU:HB3	40:BF:20:LEU:O	2.18	0.43
35:BA:389:G:H22	46:BP:71:VAL:CG1	2.10	0.43
34:B8:56:GLU:CA	34:B8:59:LYS:NZ	2.80	0.43
35:BA:572:A:H2'	35:BA:573:G:O4'	2.18	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:585:G:C5	35:BA:1251:C:C4	3.05	0.43
46:BP:47:ASP:OD1	46:BP:50:ARG:HG3	2.19	0.43
40:DF:114:VAL:CG1	40:DF:202:PHE:HE2	2.31	0.43
47:BQ:12:GLN:HE21	47:BQ:72:LYS:HA	1.83	0.43
48:DR:10:LEU:HB3	48:DR:17:ARG:HE	1.83	0.43
48:DR:53:HIS:O	48:DR:56:LYS:CB	2.65	0.43
1:AA:322:C:O2'	1:AA:323:U:H5'	2.18	0.43
20:AT:36:LEU:O	20:AT:37:SER:C	2.56	0.43
35:BA:1453:U:H4'	35:BA:1455:G:OP1	2.19	0.43
36:DB:7:G:C4'	49:DS:29:PHE:HE2	2.31	0.43
44:BN:31:ALA:O	44:BN:32:THR:C	2.56	0.43
2:CB:169:LYS:O	2:CB:172:ILE:CD1	2.66	0.43
35:DA:675:A:O2'	35:DA:676:A:H5'	2.18	0.43
35:DA:823:G:N1	35:DA:835:A:C4	2.86	0.43
35:DA:942:G:H2'	35:DA:943:U:O4'	2.18	0.43
52:DV:89:GLN:NE2	52:DV:89:GLN:HA	2.33	0.43
19:AS:11:VAL:HG22	19:AS:16:LEU:HD11	1.98	0.43
19:AS:6:LYS:HG2	19:AS:7:LYS:NZ	2.32	0.43
35:DA:78:A:N1	35:DA:109:G:C6	2.87	0.43
35:DA:99:U:OP1	35:DA:102:G:OP1	2.36	0.43
55:DY:28:LYS:HZ2	55:DY:37:VAL:CG1	2.26	0.43
55:DY:37:VAL:O	55:DY:38:ILE:CB	2.65	0.43
1:AA:584:G:O2'	1:AA:585:G:H5'	2.18	0.43
35:BA:366:C:C4	35:BA:404:C:C5	3.06	0.43
47:DQ:7:MET:O	47:DQ:8:LYS:HB3	2.18	0.43
6:AF:33:TYR:CE1	6:AF:75:LEU:HA	2.53	0.43
6:AF:88:VAL:CG1	6:AF:89:MET:N	2.81	0.43
1:CA:1403:C:C1'	1:CA:1500:A:N1	2.71	0.43
35:DA:2736:G:H2'	35:DA:2737:G:H8	1.82	0.43
12:CL:28:LYS:O	12:CL:30:ALA:N	2.51	0.43
1:CA:1227:A:N7	1:CA:1228:C:C2	2.86	0.43
35:DA:2702:U:OP1	35:DA:2702:U:O4'	2.36	0.43
25:AY:28:LEU:O	25:AY:30:THR:N	2.49	0.43
25:AY:122:ALA:O	25:AY:126:ARG:NH1	2.51	0.43
7:CG:30:ILE:HD13	7:CG:105:VAL:HG13	1.99	0.43
35:BA:2123:G:H21	37:BC:42:GLU:CD	2.21	0.43
11:CK:29:ILE:CG2	11:CK:44:SER:HB3	2.35	0.43
25:AY:158:GLU:CD	25:AY:158:GLU:C	2.76	0.43
33:B7:19:ARG:HH11	33:B7:19:ARG:HG2	1.83	0.43
35:BA:1605:C:H2'	35:BA:1606:G:O4'	2.18	0.43
26:D0:16:SER:HB3	35:DA:2261:C:H3'	2.00	0.43
2:CB:105:PHE:HA	2:CB:108:ILE:CG2	2.48	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1228:C:O3'	13:AM:116:THR:HA	2.18	0.43
35:BA:924:C:O2'	35:BA:925:C:H5'	2.18	0.43
1:AA:192:U:C2	1:AA:193:C:C5	3.06	0.43
1:AA:260:G:H2'	1:AA:261:U:C6	2.53	0.43
1:AA:1502:A:H2	1:AA:1505:G:N1	2.12	0.43
8:AH:48:TYR:O	8:AH:49:GLU:HB3	2.19	0.43
1:AA:1342:C:O2'	1:AA:1343:G:H5'	2.17	0.43
1:CA:515:G:N2	1:CA:537:G:C4	2.87	0.43
31:B5:31:VAL:CB	31:B5:32:PRO:HD2	2.34	0.43
46:BP:85:LEU:HB2	46:BP:120:ALA:HB2	2.00	0.43
33:D7:16:HIS:CE1	35:DA:465:G:C4'	3.01	0.43
35:DA:543:C:C6	35:DA:547:A:C8	3.06	0.43
5:CE:147:ASP:CA	5:CE:150:ARG:HH11	2.18	0.43
38:BD:69:ARG:C	38:BD:71:ASP:H	2.21	0.43
46:BP:114:ILE:HD11	46:BP:130:PHE:CZ	2.53	0.43
7:CG:111:ARG:HH11	7:CG:111:ARG:HB3	1.83	0.43
46:DP:75:ILE:O	46:DP:76:LYS:C	2.56	0.43
40:BF:164:ARG:O	40:BF:165:ARG:C	2.56	0.43
35:BA:2832:U:C5	35:BA:2884:U:H5''	2.54	0.43
39:BE:169:ASN:OD1	39:BE:201:THR:CG2	2.66	0.43
1:CA:1115:C:H2'	1:CA:1116:C:C6	2.53	0.43
13:AM:19:LEU:O	13:AM:22:ILE:HB	2.18	0.43
35:DA:49:A:H4'	35:DA:50:U:H5''	1.99	0.43
1:AA:1054:C:O2'	1:AA:1055:A:H5''	2.18	0.43
35:DA:856:C:H4'	35:DA:857:C:OP2	2.18	0.43
5:AE:102:ALA:CB	5:AE:106:PRO:HG2	2.47	0.43
1:AA:35:G:C4	1:AA:550:G:N2	2.86	0.43
20:CT:71:THR:HB	20:CT:72:LEU:H	1.49	0.43
35:DA:462:C:O2'	35:DA:463:G:H5'	2.18	0.43
35:DA:1958:C:O2'	35:DA:1959:G:H5'	2.18	0.43
13:AM:23:TYR:HB3	13:AM:67:GLU:HA	1.99	0.43
13:AM:73:GLU:HG2	13:AM:77:ASN:HD21	1.82	0.43
29:B3:11:SER:OG	29:B3:13:ILE:HG12	2.18	0.43
35:BA:1300:U:H1'	35:BA:1626:G:N2	2.33	0.43
35:DA:1683:C:H2'	35:DA:1684:C:H6	1.83	0.43
7:AG:54:THR:OG1	7:AG:56:GLN:HG2	2.18	0.43
15:AO:85:LEU:CD1	15:AO:87:ILE:HD11	2.48	0.43
35:DA:1334:G:O2'	35:DA:1335:U:H5'	2.18	0.43
54:DX:88:LYS:HB3	54:DX:89:ILE:HD12	1.99	0.43
35:DA:1528(A):A:N7	35:DA:1529:G:C8	2.86	0.43
35:DA:2464:C:N4	35:DA:2487:G:N1	2.66	0.43
6:AF:12:PRO:HG2	6:AF:13:ASN:H	1.82	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:CV:29:G:H2'	22:CV:30:A:H8	1.84	0.43
35:DA:986:C:C2'	35:DA:987:G:H5'	2.47	0.43
10:CJ:32:ALA:N	10:CJ:78:ASN:CG	2.71	0.43
35:BA:1889:A:N1	35:BA:2234:G:H1'	2.33	0.43
35:DA:1935:G:H3'	35:DA:1962:C:N4	2.29	0.43
35:BA:695:G:C6	35:BA:696:G:N7	2.87	0.43
35:DA:608:A:N3	35:DA:608:A:H2'	2.33	0.43
35:BA:36:G:O2'	35:BA:37:C:H5'	2.18	0.43
40:BF:22:ALA:HB1	40:BF:26:ALA:CB	2.48	0.43
3:AC:61:ALA:O	3:AC:62:ASP:HB2	2.19	0.43
8:CH:91:ARG:CG	8:CH:91:ARG:NH1	2.79	0.43
35:DA:947:G:H2'	35:DA:948:G:H8	1.83	0.43
38:BD:75:ILE:HG21	38:BD:99:ASP:HB2	2.00	0.43
1:AA:829:G:H2'	1:AA:830:G:C8	2.53	0.43
1:AA:859:A:O2'	1:AA:860:A:H5'	2.18	0.43
2:CB:114:ARG:HD2	2:CB:118:LEU:HG	1.99	0.43
4:AD:138:TYR:C	4:AD:138:TYR:CD2	2.92	0.43
1:AA:318:G:C2	1:AA:319:G:C5	3.06	0.43
32:D6:44:ARG:HG2	32:D6:44:ARG:HH11	1.83	0.43
3:AC:27:LYS:O	3:AC:27:LYS:NZ	2.50	0.43
5:CE:68:GLU:OE2	5:CE:70:PRO:HD3	2.18	0.43
39:DE:9:VAL:CG2	50:DT:8:LYS:HB2	2.49	0.43
3:CC:25:GLY:O	3:CC:28:GLN:N	2.51	0.43
1:CA:866:C:C2	1:CA:867:G:H1'	2.53	0.43
35:DA:1823:G:O2'	35:DA:1824:G:H5'	2.18	0.43
38:DD:34:VAL:HG22	38:DD:35:LYS:NZ	2.33	0.43
35:DA:2306:C:N4	41:DG:43:LEU:O	2.43	0.43
39:BE:188:VAL:O	39:BE:188:VAL:HG13	2.18	0.43
1:AA:608:A:H2'	1:AA:609:A:O4'	2.18	0.43
56:BZ:167:PRO:O	56:BZ:168:GLU:CB	2.66	0.43
35:DA:2051:A:C4'	39:DE:141:ILE:HD11	2.47	0.43
39:DE:120:TRP:CD2	39:DE:155:LYS:HD3	2.53	0.43
39:BE:53:PRO:O	39:BE:55:ASN:OD1	2.36	0.43
39:BE:49:LEU:HD23	39:BE:81:ILE:CG1	2.48	0.43
35:BA:1011:G:C5	35:BA:1151:G:N1	2.86	0.43
44:BN:110:GLY:O	44:BN:113:GLY:N	2.51	0.43
44:BN:36:GLY:HA3	44:BN:48:MET:SD	2.58	0.43
44:BN:39:ARG:HG3	44:BN:39:ARG:HH11	1.83	0.43
44:BN:42:TRP:HE3	44:BN:48:MET:SD	2.41	0.43
51:BU:59:ARG:C	51:BU:61:TRP:N	2.68	0.43
51:BU:88:ILE:O	51:BU:88:ILE:CD1	2.66	0.43
1:AA:973:G:C8	1:AA:974:A:C8	3.06	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
28:B2:20:GLU:O	28:B2:23:LYS:HB3	2.18	0.43
28:B2:57:ILE:CD1	28:B2:59:ARG:CZ	2.96	0.43
54:BX:35:THR:O	54:BX:36:LYS:O	2.36	0.43
39:DE:3:GLY:O	39:DE:4:ILE:CB	2.66	0.43
34:B8:11:LYS:O	34:B8:11:LYS:CG	2.67	0.43
34:B8:6:THR:CB	34:B8:63:PRO:HD3	2.48	0.43
28:D2:15:LYS:O	28:D2:16:LEU:C	2.56	0.43
28:D2:41:ILE:O	28:D2:43:GLN:N	2.51	0.43
35:DA:70:G:H21	35:DA:71:A:H62	1.65	0.43
35:DA:74:A:O2'	35:DA:75:G:OP2	2.32	0.43
54:DX:36:LYS:HZ2	54:DX:39:ILE:HA	1.78	0.43
41:BG:27:ASN:CG	41:BG:28:VAL:N	2.72	0.43
42:BH:83:TYR:HD1	42:BH:84:SER:N	2.16	0.43
56:DZ:30:ASN:O	56:DZ:32:HIS:N	2.51	0.43
52:DV:3:ALA:O	52:DV:14:VAL:N	2.46	0.43
14:AN:3:ARG:HB3	14:AN:3:ARG:NH1	2.32	0.43
1:CA:1220:G:H21	19:CS:54:GLY:HA2	1.83	0.43
35:DA:2284:C:N3	35:DA:2384:G:N2	2.48	0.43
49:BS:66:ALA:CA	49:BS:69:VAL:HG12	2.48	0.43
1:CA:544:G:C5	1:CA:545:C:C5	3.06	0.43
4:CD:13:ARG:O	4:CD:14:ARG:C	2.56	0.43
4:CD:58:LEU:C	4:CD:58:LEU:HD13	2.38	0.43
47:BQ:127:ILE:HG22	47:BQ:128:LYS:N	2.19	0.43
44:BN:66:LYS:HA	44:BN:66:LYS:HE3	2.01	0.43
1:CA:994:A:H2	14:CN:4:LYS:HG3	1.83	0.43
3:CC:150:LYS:O	3:CC:201:TYR:N	2.46	0.43
35:BA:606:U:H2'	35:BA:607:U:O4'	2.17	0.43
27:D1:85:LEU:CD2	27:D1:85:LEU:H	2.31	0.43
34:D8:29:LYS:NZ	34:D8:44:LYS:HB2	2.33	0.43
35:DA:1142(A):A:C4	35:DA:1144:G:N7	2.86	0.43
44:DN:62:VAL:HG21	44:DN:66:LYS:HB2	2.00	0.43
35:BA:1164:G:C6	35:BA:1165:U:C4	3.07	0.43
40:DF:155:LEU:HD12	40:DF:174:VAL:O	2.18	0.43
40:DF:6:VAL:HB	40:DF:7:TYR:H	1.62	0.43
35:BA:869:G:C4	35:BA:870:A:C8	3.06	0.43
35:DA:1281:G:H1	35:DA:1286:A:H62	1.65	0.43
35:DA:2821:A:H2'	35:DA:2822:G:H8	1.76	0.43
48:DR:62:ALA:O	48:DR:63:ARG:C	2.56	0.43
35:BA:1638:C:H1'	35:BA:2698:U:O2'	2.18	0.43
2:CB:212:GLN:NE2	2:CB:216:SER:CB	2.78	0.43
44:BN:23:LEU:O	44:BN:25:ARG:N	2.48	0.43
44:BN:26:LEU:CD2	44:BN:99:LEU:HD11	2.48	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
15:CO:70:LEU:HD12	15:CO:70:LEU:HA	1.85	0.43
2:CB:36:ARG:HG3	2:CB:37:ASN:N	2.33	0.43
34:D8:56:GLU:O	34:D8:59:LYS:NZ	2.39	0.43
35:DA:1187:G:OP1	52:DV:82:ARG:NH2	2.40	0.43
35:DA:804:A:H2'	35:DA:806:C:N4	2.33	0.43
4:AD:105:VAL:HG13	4:AD:110:PHE:HB2	2.01	0.43
4:AD:150:GLU:O	4:AD:153:ARG:N	2.48	0.43
4:AD:157:LEU:O	4:AD:161:ASN:OD1	2.35	0.43
4:AD:161:ASN:O	4:AD:165:MET:HB2	2.18	0.43
19:AS:10:PHE:HE2	19:AS:70:LYS:NZ	2.14	0.43
35:DA:103:A:H2'	35:DA:104:U:C6	2.53	0.43
55:DY:14:LEU:O	55:DY:72:VAL:HA	2.17	0.43
55:DY:34:LYS:O	55:DY:35:TYR:HB3	2.18	0.43
4:AD:30:LYS:HA	4:AD:35:ARG:HD2	1.99	0.43
6:AF:72:VAL:O	6:AF:75:LEU:HB2	2.18	0.43
35:DA:1916:A:H3'	35:DA:1917:U:H6	1.82	0.43
35:DA:564:C:H2'	35:DA:565:C:H6	1.75	0.43
3:AC:172:ARG:NH1	3:AC:172:ARG:HB3	2.33	0.43
35:DA:510:C:OP1	35:DA:511:U:OP2	2.36	0.43
25:CY:105:PRO:O	25:CY:106:LEU:HD23	2.19	0.43
25:CY:171:LYS:HD3	25:CY:171:LYS:HA	1.83	0.43
1:CA:953:G:O2'	1:CA:954:G:H5'	2.18	0.43
1:AA:1328:C:P	21:AU:21:TYR:HH	2.42	0.43
1:AA:452:A:H4'	16:AP:72:ARG:CZ	2.48	0.43
25:AY:132:ILE:O	25:AY:136:ALA:HB2	2.19	0.43
7:CG:62:PHE:CG	7:CG:62:PHE:O	2.71	0.43
1:AA:552:U:H2'	1:AA:553:A:C8	2.53	0.43
12:AL:28:LYS:O	12:AL:30:ALA:N	2.51	0.43
35:BA:2173:A:P	35:BA:2173:A:H3'	2.58	0.43
35:BA:975(A):G:N3	35:BA:1156:A:H2	2.15	0.43
11:AK:92:GLU:HA	11:AK:95:ILE:HG12	2.01	0.43
35:BA:1309:G:H2'	35:BA:1310:G:C5'	2.48	0.43
8:CH:120:THR:C	8:CH:122:ARG:H	2.21	0.43
1:AA:1340:A:OP2	23:AW:36:A:H5'	2.17	0.43
23:AW:39:A:H2'	23:AW:40:C:C5'	2.47	0.43
35:DA:260:G:N3	35:DA:260:G:H2'	2.32	0.43
35:DA:619:G:H5''	35:DA:620:G:OP2	2.18	0.43
35:DA:598:G:C6	35:DA:660:G:C6	3.06	0.43
1:AA:640:A:H2'	1:AA:641:U:H5'	2.00	0.43
8:AH:127:LEU:HD13	8:AH:127:LEU:C	2.39	0.43
2:CB:115:LEU:HD21	2:CB:153:ARG:NE	2.32	0.43
1:CA:381:C:H2'	1:CA:382:A:O4'	2.18	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:CI:116:LYS:HA	9:CI:121:ARG:O	2.18	0.43
8:AH:14:ARG:HH11	8:AH:14:ARG:HB3	1.82	0.43
8:AH:36:LEU:O	8:AH:37:ARG:C	2.57	0.43
39:DE:132:HIS:O	39:DE:135:HIS:CD2	2.72	0.43
8:CH:12:ARG:HA	8:CH:15:ASN:HD22	1.82	0.43
8:CH:51:VAL:HG11	8:CH:60:ARG:CG	2.45	0.43
8:CH:85:ARG:HH11	8:CH:85:ARG:HG3	1.83	0.43
5:AE:150:ARG:HB2	5:AE:150:ARG:CZ	2.46	0.43
29:B3:9:VAL:HG23	29:B3:10:LYS:N	2.33	0.43
1:CA:521:G:O2'	1:CA:522:C:H5'	2.18	0.43
33:D7:34:ARG:O	33:D7:36:GLN:N	2.52	0.43
38:BD:133:LEU:HB3	38:BD:173:VAL:HG11	2.00	0.43
35:DA:1263:U:C5	35:DA:1264:G:C6	3.06	0.43
53:DW:14:PRO:O	53:DW:15:ARG:C	2.56	0.43
16:CP:77:ALA:HB3	16:CP:79:VAL:HG23	2.00	0.43
15:AO:11:VAL:O	15:AO:14:GLU:HB3	2.18	0.43
38:DD:134:ARG:C	38:DD:136:ILE:H	2.21	0.43
1:AA:780:A:H2	1:AA:803:G:C6	2.36	0.43
11:CK:65:ALA:HB1	11:CK:98:LEU:HD23	2.01	0.43
53:BW:84:ARG:HB2	53:BW:96:ILE:CG2	2.48	0.43
35:DA:724:U:C2'	35:DA:725:G:H5'	2.48	0.43
35:DA:2199:A:H2'	35:DA:2199:A:N3	2.33	0.43
23:AW:49:C:H2'	23:AW:60:A:H4'	1.99	0.43
35:BA:723:G:C6	35:BA:724:U:C4	3.06	0.43
13:AM:19:LEU:C	13:AM:22:ILE:HD13	2.39	0.43
17:CQ:59:ILE:HG23	17:CQ:71:PHE:HB3	2.00	0.43
17:CQ:74:LEU:HD12	17:CQ:75:ARG:CG	2.41	0.43
40:DF:9:ILE:HG12	40:DF:15:SER:N	2.32	0.43
35:DA:323:G:C3'	40:DF:169:ASN:HD21	2.30	0.43
1:AA:969:A:O2'	1:AA:970:C:H5'	2.17	0.43
1:CA:61:G:O2'	1:CA:62:U:H5'	2.18	0.43
43:DI:54:GLN:HA	43:DI:57:ARG:HB3	2.00	0.43
1:CA:460:G:N2	1:CA:472:A:H62	2.15	0.43
1:AA:722:A:O2'	1:AA:723:U:C6	2.70	0.43
29:B3:14:GLY:H	29:B3:20:LYS:NZ	2.15	0.43
2:AB:22:LYS:O	2:AB:24:TRP:N	2.51	0.43
48:BR:4:LEU:HD22	48:BR:4:LEU:O	2.18	0.43
48:BR:4:LEU:O	48:BR:6:SER:N	2.51	0.43
1:CA:763:G:C5	1:CA:764:C:C5	3.06	0.43
35:BA:154:G:C6	35:BA:173:G:C6	3.06	0.43
16:AP:27:LYS:N	16:AP:27:LYS:HD2	2.28	0.43
35:DA:1525:G:H2'	35:DA:1526:G:C8	2.53	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1387:G:C6	1:AA:1388:C:N4	2.87	0.43
35:DA:2008:C:H2'	35:DA:2009:G:H8	1.82	0.43
1:AA:302:G:N3	1:AA:556:C:H4'	2.33	0.43
7:AG:25:ALA:CA	7:AG:28:ASN:HD22	2.31	0.43
35:DA:605:C:H2'	35:DA:606:U:H6	1.83	0.43
17:CQ:11:VAL:HG23	17:CQ:20:THR:CG2	2.49	0.43
10:CJ:3:LYS:O	10:CJ:100:THR:HA	2.19	0.43
35:BA:431:U:C2'	35:BA:432:A:H5'	2.48	0.43
10:CJ:23:ILE:HG23	10:CJ:85:LEU:HD22	2.00	0.43
35:BA:2880:C:H1'	48:BR:92:GLY:O	2.18	0.43
1:AA:50:A:N3	1:AA:52:G:H1'	2.34	0.43
29:D3:35:ARG:HG3	29:D3:35:ARG:NH1	2.33	0.43
37:BC:21:THR:O	37:BC:22:ILE:C	2.57	0.43
31:B5:15:ARG:HA	31:B5:18:ALA:HB2	1.98	0.43
31:B5:15:ARG:HH11	31:B5:15:ARG:HG3	1.83	0.43
1:AA:1151:A:C4	1:AA:1152:A:N7	2.86	0.43
23:CW:25:U:H2'	23:CW:26:C:O4'	2.18	0.43
35:BA:1766:U:H2'	35:BA:1767:C:C6	2.52	0.43
51:DU:14:HIS:C	51:DU:16:LYS:N	2.70	0.43
1:CA:1164:G:C2'	1:CA:1165:C:H5'	2.49	0.43
11:AK:86:GLY:N	11:AK:112:THR:HG23	2.32	0.43
1:CA:355:C:C2	1:CA:356:A:C8	3.06	0.43
35:BA:1469:A:C2'	35:BA:1470:G:H5'	2.47	0.43
1:AA:290:C:O2'	1:AA:291:C:H5'	2.18	0.43
55:BY:84:ARG:C	55:BY:85:VAL:CG2	2.85	0.43
35:BA:121:G:H2'	35:BA:122:G:C8	2.52	0.43
35:BA:410:G:C2	35:BA:418:G:C2	3.05	0.43
35:BA:1668:A:C5	35:BA:1674:G:C5	3.06	0.43
47:DQ:77:LYS:HA	47:DQ:78:PRO:HD3	1.83	0.43
1:CA:189(B):C:H2'	1:CA:189(C):C:H6	1.82	0.43
8:AH:50:ARG:H	8:AH:50:ARG:HG3	1.61	0.43
54:DX:43:VAL:C	54:DX:45:THR:N	2.71	0.43
35:BA:2586:C:O2'	35:BA:2587:A:H5'	2.18	0.43
15:CO:3:ILE:HG13	15:CO:3:ILE:O	2.18	0.43
9:CI:125:TYR:C	9:CI:125:TYR:CD2	2.91	0.43
32:B6:44:ARG:HG2	32:B6:44:ARG:HH11	1.84	0.43
35:DA:2566:A:C6	45:DO:28:SER:HB2	2.53	0.43
45:DO:1:MET:CG	45:DO:32:TYR:CD2	2.95	0.43
50:DT:51:ARG:O	50:DT:61:PHE:HA	2.19	0.43
41:DG:14:GLU:OE1	41:DG:15:VAL:HG23	2.17	0.43
38:BD:53:PHE:HB3	38:BD:218:ARG:HB2	2.00	0.43
5:CE:12:LEU:C	5:CE:12:LEU:HD22	2.39	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1397:C:N3	24:CX:22:U:C6	2.86	0.43
35:DA:1803:A:H4'	38:DD:259:THR:CG2	2.48	0.43
35:DA:2300:G:H1	35:DA:2316:C:N4	2.10	0.43
35:DA:2313:C:OP1	41:DG:71:THR:HG21	2.19	0.43
41:DG:136:ARG:O	41:DG:136:ARG:HD3	2.17	0.43
41:DG:96:ARG:HA	41:DG:99:MET:HE2	2.01	0.43
35:BA:2727:G:C5	35:BA:2728:U:H5	2.36	0.43
45:BO:1:MET:H3	45:BO:1:MET:CE	2.30	0.43
50:BT:35:LYS:NZ	50:BT:41:ARG:HE	2.13	0.43
50:BT:72:VAL:CG1	50:BT:73:GLU:N	2.81	0.43
36:BB:74:U:C5	36:BB:75:G:N7	2.87	0.43
35:DA:2574:G:C5	35:DA:2575:C:C5	3.07	0.43
39:BE:79:ARG:NH1	39:BE:79:ARG:HG2	2.32	0.43
44:BN:46:VAL:CG2	44:BN:48:MET:HG3	2.48	0.43
42:DH:86:GLU:HA	42:DH:132:ARG:CB	2.48	0.43
10:AJ:49:VAL:HG11	14:AN:41:ARG:HB2	2.01	0.43
28:B2:51:ARG:HD3	28:B2:51:ARG:C	2.39	0.43
39:DE:49:LEU:N	39:DE:49:LEU:CD2	2.77	0.43
41:BG:174:GLU:C	41:BG:176:LEU:H	2.22	0.43
41:BG:69:ALA:O	41:BG:90:LEU:HA	2.18	0.43
28:D2:14:ARG:HE	28:D2:15:LYS:N	2.15	0.43
54:DX:53:LYS:CE	54:DX:55:ASN:HD21	2.32	0.43
54:DX:77:LYS:HA	54:DX:77:LYS:CE	2.46	0.43
34:D8:32:LEU:HD23	34:D8:35:GLN:C	2.39	0.43
34:D8:35:GLN:HE21	34:D8:36:LYS:HZ3	1.66	0.43
56:DZ:116:VAL:HG12	56:DZ:117:LEU:N	2.31	0.43
56:DZ:5:LEU:O	56:DZ:59:LEU:HA	2.19	0.43
56:DZ:6:LYS:CB	56:DZ:8:TYR:CE1	2.98	0.43
35:DA:994:C:H1'	52:DV:10:LYS:HE2	2.00	0.43
52:DV:34:GLU:O	52:DV:62:LEU:HG	2.19	0.43
47:DQ:48:GLU:O	47:DQ:49:ALA:C	2.56	0.43
1:CA:1319:A:OP2	19:CS:5:LEU:HD23	2.18	0.43
45:DO:113:LYS:HA	45:DO:116:SER:OG	2.19	0.43
49:BS:106:ARG:NH1	49:BS:107:GLU:O	2.51	0.43
49:BS:26:LEU:N	49:BS:88:ASP:HB2	2.33	0.43
1:CA:404:U:C2	1:CA:405:U:C5	3.07	0.43
4:CD:79:PHE:HE1	4:CD:204:ILE:HA	1.82	0.43
4:CD:72:GLU:O	4:CD:76:ARG:HB2	2.19	0.43
35:BA:1022:G:O2'	35:BA:1023:U:OP2	2.32	0.43
3:CC:154:SER:O	3:CC:165:THR:HA	2.19	0.43
40:BF:32:LEU:O	40:BF:35:GLU:CB	2.67	0.43
40:BF:45:ARG:NH1	40:BF:97:TYR:CE2	2.87	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:243:U:C2'	35:DA:244:A:H5'	2.48	0.43
34:B8:59:LYS:CB	34:B8:59:LYS:NZ	2.75	0.43
35:BA:1195:G:C2	35:BA:1196:C:C5	3.07	0.43
35:BA:562:U:C2'	35:BA:563:G:OP2	2.66	0.43
48:DR:49:ASP:O	48:DR:52:ILE:N	2.51	0.43
48:DR:60:LEU:HA	48:DR:63:ARG:HB2	2.00	0.43
48:DR:73:VAL:HG23	48:DR:74:LYS:N	2.33	0.43
35:BA:2714:G:C6	35:BA:2715:C:N3	2.87	0.43
48:BR:20:LEU:O	48:BR:21:TYR:C	2.54	0.43
48:BR:34:ILE:HG22	48:BR:35:THR:H	1.84	0.43
1:CA:908:A:C2'	1:CA:909:A:H8	2.08	0.43
49:DS:26:LEU:N	49:DS:88:ASP:HB2	2.34	0.43
6:CF:33:TYR:CE1	6:CF:75:LEU:HA	2.53	0.43
2:CB:71:VAL:O	2:CB:164:VAL:HG13	2.17	0.43
52:DV:75:PHE:HD1	52:DV:87:HIS:HB3	1.81	0.43
4:AD:177:ASP:O	4:AD:177:ASP:OD1	2.36	0.43
4:AD:92:VAL:O	4:AD:93:PHE:C	2.56	0.43
1:AA:1489:G:C4	1:AA:1490:C:C5	3.06	0.43
19:AS:36:ARG:HH11	19:AS:36:ARG:HB3	1.83	0.43
1:AA:582:U:H2'	1:AA:583:A:H8	1.83	0.43
1:AA:544:G:C5	1:AA:545:C:C5	3.06	0.43
43:DI:109:ILE:HD12	43:DI:111:PRO:HD3	2.00	0.43
35:DA:869:G:C4	35:DA:870:A:C8	3.06	0.43
1:CA:1497:G:HO2'	1:CA:1518:A:H2	1.65	0.43
1:CA:1518:A:N1	1:CA:1519:A:C6	2.86	0.43
35:DA:2020:A:C5	35:DA:2022:U:C5	3.06	0.43
35:DA:514:A:C2	35:DA:515:A:C4	3.06	0.43
25:CY:123:GLU:O	25:CY:126:ARG:HB2	2.18	0.43
25:CY:152:ASP:O	25:CY:155:LYS:HB2	2.18	0.43
25:AY:29:ARG:HA	25:AY:32:ARG:HE	1.83	0.43
25:AY:87:ASP:O	25:AY:88:LEU:C	2.56	0.43
12:AL:27:LEU:C	12:AL:29:GLY:N	2.71	0.43
51:BU:36:ARG:HG2	51:BU:40:PHE:CE2	2.52	0.43
11:CK:88:GLY:C	11:CK:91:ARG:HB2	2.38	0.43
25:AY:150:SER:OG	26:B0:7:LEU:CB	2.67	0.43
35:BA:2495:G:C6	35:BA:2496:C:C4	3.06	0.43
47:BQ:81:VAL:CG2	47:BQ:82:ARG:HG2	2.47	0.43
33:B7:34:ARG:NH1	35:BA:466:A:OP1	2.52	0.43
43:BI:93:THR:N	43:BI:96:ASP:OD2	2.51	0.43
35:DA:1245:G:OP1	46:DP:16:ARG:NE	2.51	0.43
20:AT:97:ALA:HA	20:AT:98:PRO:HD3	1.87	0.43
18:AR:62:GLU:O	18:AR:63:GLN:C	2.57	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:AI:17:VAL:HA	9:AI:63:ILE:HG23	1.99	0.43
8:CH:111:ILE:N	8:CH:135:CYS:O	2.51	0.43
8:CH:28:ALA:O	8:CH:29:SER:HB2	2.18	0.43
35:DA:2886:G:H2'	35:DA:2887:U:C6	2.54	0.43
18:CR:53:ARG:NH2	18:CR:60:ALA:CA	2.81	0.43
29:B3:6:VAL:HG12	29:B3:56:VAL:HA	2.00	0.43
35:BA:272(C):G:H1	35:BA:365:C:H42	1.66	0.43
35:BA:2755:C:H6	35:BA:2755:C:H3'	1.83	0.43
35:DA:1174:A:OP2	35:DA:1175:U:H5''	2.19	0.43
1:AA:1169:A:C2	1:AA:1170:A:C4	3.06	0.43
46:BP:107:LYS:C	46:BP:109:GLY:N	2.71	0.43
46:BP:95:VAL:HG23	46:BP:125:VAL:CG2	2.48	0.43
35:BA:322:A:OP1	40:BF:168:ARG:HD3	2.19	0.43
35:DA:491:G:C4	35:DA:492:A:C8	3.06	0.43
35:DA:493:G:HO2'	53:DW:8:ARG:H	1.65	0.43
1:AA:779:C:O2'	11:AK:120:ARG:HD3	2.18	0.43
6:CF:54:LYS:O	6:CF:56:PRO:HD3	2.19	0.43
35:DA:769:G:H2'	35:DA:770:G:H8	1.83	0.43
39:BE:103:ASP:OD1	39:BE:201:THR:HA	2.19	0.43
55:BY:7:VAL:HB	55:BY:8:LYS:NZ	2.33	0.43
2:AB:180:LEU:C	2:AB:182:ILE:H	2.21	0.43
35:BA:708:C:H5'	35:BA:709:U:OP2	2.18	0.43
1:CA:391:G:C6	1:CA:392:G:N7	2.86	0.43
1:AA:933:G:OP2	7:AG:3:ARG:HB3	2.19	0.43
1:AA:267:C:OP2	17:AQ:67:LYS:HD2	2.18	0.43
26:D0:25:ARG:HG3	26:D0:29:GLN:HE21	1.81	0.43
20:CT:13:LEU:HD13	20:CT:14:LYS:N	2.33	0.43
20:CT:24:LEU:O	20:CT:27:LYS:N	2.52	0.43
38:DD:145:VAL:HG12	38:DD:146:GLU:H	1.82	0.43
1:CA:723:U:H5''	1:CA:724:G:OP2	2.18	0.43
29:B3:19:GLN:C	29:B3:21:ALA:H	2.21	0.43
8:AH:53:VAL:HG12	8:AH:54:ASP:OD2	2.19	0.43
1:CA:1480:G:H2'	1:CA:1481:U:H6	1.83	0.43
1:AA:1365:G:H2'	1:AA:1366:C:O4'	2.17	0.43
35:BA:2487:G:O2'	35:BA:2488:A:H5'	2.18	0.43
36:DB:81:G:H5'	36:DB:82:G:OP2	2.18	0.43
36:BB:81:G:H4'	36:BB:81:G:OP1	2.18	0.43
35:DA:191:A:C2	35:DA:192:C:C4	3.07	0.43
25:CY:45:TYR:HB2	25:CY:78:ALA:CB	2.46	0.43
1:CA:811:C:H4'	1:CA:900:A:H62	1.80	0.43
32:D6:40:CYS:SG	32:D6:45:LYS:HD2	2.59	0.43
35:DA:884:C:H4'	35:DA:892:G:C8	2.54	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
26:B0:75:LEU:HD23	26:B0:75:LEU:O	2.18	0.43
37:BC:184:LYS:C	37:BC:186:ALA:N	2.71	0.43
35:BA:1526:G:H2'	35:BA:1527:G:O4'	2.18	0.43
29:B3:22:ALA:O	29:B3:26:LEU:HG	2.18	0.43
53:BW:77:ASP:O	53:BW:102:HIS:HB2	2.18	0.43
40:BF:26:ALA:HB1	40:BF:27:GLU:OE1	2.18	0.43
3:CC:92:ALA:HB2	3:CC:99:VAL:HG22	1.99	0.43
35:DA:1306:C:H2'	35:DA:1307:A:H8	1.83	0.43
38:DD:199:ALA:O	38:DD:201:HIS:N	2.52	0.43
38:DD:75:ILE:HG21	38:DD:99:ASP:HB2	2.01	0.43
1:AA:189(E):U:O2'	1:AA:189(F):U:H5'	2.18	0.43
35:DA:1474:C:H3'	35:DA:1475:G:H8	1.83	0.43
1:CA:1332:A:C2	1:CA:1333:A:C5	3.07	0.43
1:AA:44:G:C2	1:AA:399:G:C2	3.07	0.43
1:AA:23:C:C2'	1:AA:24:U:H5'	2.48	0.43
1:CA:24:U:O2'	1:CA:25:C:H5'	2.19	0.43
35:BA:1035:U:H5''	42:BH:59:ARG:NH1	2.33	0.43
13:AM:124:PRO:HB2	13:AM:125:ARG:H	1.63	0.43
36:BB:70:C:O2'	36:BB:71:C:H5'	2.19	0.43
12:AL:95:GLY:O	12:AL:97:ARG:N	2.51	0.43
45:DO:61:VAL:O	45:DO:61:VAL:HG13	2.18	0.43
14:CN:34:TYR:O	14:CN:36:PHE:N	2.52	0.43
35:BA:1800:C:N3	35:BA:1818:U:O2	2.51	0.43
38:DD:271:ILE:O	38:DD:272:ALA:O	2.37	0.43
38:DD:57:GLY:O	38:DD:58:HIS:O	2.35	0.43
41:DG:139:LEU:HD22	41:DG:146:TYR:CD1	2.53	0.43
41:DG:161:THR:HG22	41:DG:163:ALA:CB	2.49	0.43
45:BO:104:ARG:HH21	50:BT:33:LYS:CE	2.31	0.43
45:BO:64:ARG:HB2	45:BO:64:ARG:HH11	1.84	0.43
1:AA:1065:U:O2'	1:AA:1066:C:OP2	2.26	0.43
35:BA:998:C:OP2	51:BU:93:LYS:NZ	2.48	0.43
42:DH:127:GLU:CB	42:DH:130:ARG:HB3	2.49	0.43
42:DH:160:LYS:O	42:DH:163:TYR:CE1	2.71	0.43
42:DH:89:ILE:HD13	42:DH:90:LYS:N	2.33	0.43
54:BX:60:ARG:CB	54:BX:72:LYS:H	2.30	0.43
35:DA:2633:G:H5'	35:DA:2811:G:O2'	2.18	0.43
35:DA:1861:G:H2'	35:DA:1862:G:H8	1.83	0.43
35:BA:2205:C:C2	35:BA:2220:G:N1	2.87	0.43
41:BG:138:GLN:HG3	41:BG:152:LEU:HD22	2.00	0.43
41:BG:5:VAL:CG1	41:BG:6:ALA:H	2.08	0.43
55:DY:86:ARG:NH2	55:DY:95:LYS:NZ	2.66	0.43
28:D2:47:ASN:O	28:D2:48:HIS:C	2.56	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:93:G:H2'	35:DA:94:C:O4'	2.18	0.43
54:DX:75:ASP:O	54:DX:76:ARG:HG3	2.19	0.43
42:BH:149:ARG:HH21	42:BH:154:PRO:HG3	1.84	0.43
47:DQ:134:ARG:CG	47:DQ:135:ASP:H	2.15	0.43
56:DZ:10:ARG:CG	56:DZ:38:TYR:HD2	2.30	0.43
56:DZ:45:ASP:C	56:DZ:49:ARG:HG2	2.38	0.43
51:DU:92:ARG:HG3	51:DU:94:ASN:H	1.82	0.43
51:DU:92:ARG:CZ	52:DV:11:GLN:H	2.31	0.43
38:DD:235:GLY:O	38:DD:237:GLU:HG2	2.19	0.43
1:CA:1320:C:H5'	19:CS:70:LYS:HD3	2.00	0.43
45:DO:115:VAL:O	45:DO:118:ALA:HB3	2.19	0.43
49:BS:37:ALA:O	49:BS:38:GLN:HB2	2.18	0.43
49:BS:69:VAL:CG1	49:BS:70:GLY:N	2.81	0.43
1:CA:407:G:N1	1:CA:408:A:C5	2.87	0.43
35:BA:225:A:H2'	35:BA:226:G:O4'	2.18	0.43
35:BA:258:G:C6	35:BA:259:G:C5	3.06	0.43
34:D8:29:LYS:HZ1	34:D8:44:LYS:HB3	1.84	0.43
34:D8:30:ARG:HH21	46:DP:62:LEU:HD23	1.82	0.43
51:BU:8:VAL:O	51:BU:9:VAL:C	2.57	0.43
40:DF:2:LYS:HG3	40:DF:25:PRO:CB	2.23	0.43
35:BA:1586:A:N1	35:BA:1587:A:C4	2.86	0.43
47:BQ:90:VAL:HG12	47:BQ:90:VAL:O	2.18	0.43
39:DE:108:SER:O	39:DE:162:ALA:HA	2.17	0.43
48:DR:31:HIS:O	48:DR:33:ARG:N	2.49	0.43
1:AA:107:G:H2'	1:AA:108:G:H5'	2.00	0.43
1:AA:1423:G:C6	1:AA:1424:C:C4	3.06	0.43
2:CB:77:ALA:HB1	2:CB:211:ILE:HD13	2.00	0.43
44:DN:55:VAL:CG1	44:DN:126:PRO:HA	2.48	0.43
15:CO:32:LEU:O	15:CO:36:ILE:HG13	2.18	0.43
34:D8:22:VAL:CB	34:D8:53:PRO:HB2	2.36	0.43
34:D8:4:MET:CE	34:D8:61:LEU:HD12	2.48	0.43
40:DF:63:LYS:HA	40:DF:76:GLY:O	2.19	0.43
52:DV:70:ILE:CG2	52:DV:90:PRO:HB2	2.48	0.43
4:AD:148:VAL:O	4:AD:149:ALA:O	2.36	0.43
4:AD:39:PRO:HB3	4:AD:40:PRO:HD2	2.01	0.43
47:DQ:16:ARG:HH11	47:DQ:16:ARG:CB	2.30	0.43
1:CA:1402:C:H2'	1:CA:1403:C:C5'	2.49	0.43
35:DA:1916:A:H3'	35:DA:1917:U:C6	2.53	0.43
3:AC:173:VAL:O	3:AC:173:VAL:CG1	2.63	0.43
25:CY:3:LEU:O	25:CY:5:GLU:N	2.51	0.43
35:DA:404:C:C3'	35:DA:405:U:H5'	2.47	0.43
44:BN:15:LEU:C	44:BN:15:LEU:HD13	2.38	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:AY:64:ARG:NE	25:AY:64:ARG:HA	2.34	0.43
7:AG:92:SER:CB	7:AG:94:ARG:HE	2.31	0.43
25:AY:174:GLN:NE2	25:AY:175:LEU:N	2.67	0.43
1:CA:584:G:O2'	1:CA:585:G:H5'	2.19	0.43
23:CW:2:G:H21	23:CW:3:C:H1'	1.80	0.43
26:B0:32:ARG:HB2	26:B0:35:ASN:ND2	2.34	0.43
25:AY:150:SER:HB2	25:AY:152:ASP:OD1	2.18	0.43
35:BA:2283:C:C6	35:BA:2389:G:H2'	2.54	0.43
1:AA:692:U:H5	11:AK:26:ASN:CG	2.22	0.43
1:AA:956:U:H2'	1:AA:957:U:C6	2.54	0.43
5:AE:41:VAL:CG1	5:AE:113:ALA:HA	2.49	0.43
5:AE:6:PHE:HB2	5:AE:34:VAL:CG1	2.48	0.43
1:CA:1105:A:O2'	1:CA:1106:G:H5'	2.18	0.43
9:CI:8:GLY:O	9:CI:14:VAL:HG13	2.18	0.43
9:AI:86:VAL:HG13	9:AI:87:GLN:N	2.33	0.43
46:DP:96:THR:HB	46:DP:97:PRO:HD2	2.01	0.43
38:BD:76:PRO:O	38:BD:98:VAL:HG23	2.18	0.43
56:BZ:140:ASP:O	56:BZ:142:SER:N	2.51	0.43
1:CA:376:G:O3'	16:CP:5:ARG:HD2	2.18	0.43
39:BE:14:ILE:O	39:BE:20:ALA:HA	2.18	0.43
38:DD:142:VAL:HA	38:DD:194:GLY:N	2.32	0.43
11:CK:30:VAL:HG23	11:CK:30:VAL:O	2.18	0.43
35:BA:2307:G:C3'	35:BA:2307:G:N3	2.78	0.43
35:BA:486:C:O2	35:BA:495:G:C2	2.72	0.43
7:AG:60:LYS:NZ	7:AG:63:LYS:HG2	2.34	0.43
2:AB:171:ALA:O	2:AB:174:VAL:N	2.51	0.43
7:AG:111:ARG:HB3	7:AG:111:ARG:HH11	1.82	0.43
1:CA:445:G:H2'	1:CA:446:G:O4'	2.19	0.43
17:CQ:60:ILE:HB	17:CQ:74:LEU:HD23	1.99	0.43
40:DF:170:LEU:HD23	40:DF:173:VAL:HB	2.00	0.43
32:B6:15:GLU:CD	32:B6:18:ARG:HG3	2.39	0.43
35:BA:49:A:C6	35:BA:177:G:C5	3.06	0.43
35:BA:2801:A:O2'	35:BA:2895:U:C4'	2.66	0.43
1:CA:1253:G:OP1	10:CJ:44:VAL:HG11	2.18	0.43
1:CA:731:G:O2'	1:CA:732:C:H5'	2.18	0.43
35:DA:207:A:H2'	35:DA:208:C:O4'	2.19	0.43
13:CM:36:LYS:O	13:CM:37:THR:HG23	2.17	0.43
1:AA:1296:C:H4'	1:AA:1302:U:O4	2.18	0.43
35:DA:1340:U:C5	35:DA:1603:A:C1'	3.01	0.43
1:AA:741:G:C2'	1:AA:742:G:O4'	2.66	0.43
48:DR:99:LYS:C	48:DR:100:LEU:HD22	2.39	0.43
38:DD:139:GLY:O	38:DD:140:THR:C	2.57	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
11:CK:79:SER:HA	11:CK:104:GLN:HB3	2.00	0.43
1:CA:1296:C:H3'	1:CA:1297:C:C6	2.52	0.43
36:DB:99:G:O2'	36:DB:100:A:O4'	2.30	0.43
1:CA:1089:G:H1	1:CA:1096:C:H42	1.66	0.43
1:CA:1095:U:H2'	1:CA:1096:C:H6	1.82	0.43
35:DA:1289:C:C2	35:DA:1290:C:C5	3.07	0.43
35:DA:2488:A:O2'	35:DA:2489:G:H5'	2.18	0.43
35:DA:1835:G:H2'	35:DA:1835:G:N3	2.33	0.43
52:BV:1:MET:CE	52:BV:46:VAL:HG23	2.47	0.43
40:BF:10:PRO:CG	40:BF:13:SER:OG	2.67	0.43
35:DA:186:G:C2'	35:DA:187:G:H5'	2.48	0.43
1:AA:246:A:O3'	1:AA:247:G:H4'	2.19	0.43
35:BA:880:G:N1	35:BA:898:C:N4	2.66	0.43
53:BW:27:LYS:H	53:BW:71:VAL:HB	1.82	0.43
35:BA:1406:U:H2'	35:BA:1407:C:C6	2.54	0.43
7:CG:18:TYR:HE1	7:CG:44:TYR:CE2	2.36	0.43
10:CJ:22:LYS:C	10:CJ:22:LYS:HD2	2.39	0.43
23:CW:8:U:O4	23:CW:14:A:N7	2.51	0.43
36:BB:24:G:H4'	36:BB:25:A:N7	2.34	0.43
40:DF:22:ALA:HB1	40:DF:26:ALA:CB	2.47	0.43
43:BI:29:TYR:C	43:BI:32:PRO:HD2	2.39	0.43
35:DA:738:G:C2'	35:DA:739:G:H5'	2.48	0.43
37:BC:82:LYS:O	37:BC:83:ILE:HD13	2.19	0.43
35:DA:1128:A:H2	35:DA:2516:G:N3	2.15	0.43
35:DA:827:U:H2'	35:DA:2068:U:H3	1.83	0.43
35:DA:2824:C:H2'	35:DA:2825:C:O4'	2.19	0.43
25:CY:180:GLU:O	25:CY:181:GLN:C	2.56	0.43
47:DQ:42:ILE:N	47:DQ:42:ILE:HD12	2.33	0.43
36:BB:43:C:H3'	36:BB:44:G:H5'	2.00	0.43
1:CA:44:G:H2'	1:CA:45:U:O4'	2.18	0.43
11:CK:92:GLU:HA	11:CK:95:ILE:HG12	2.00	0.43
35:DA:2718:G:O2'	35:DA:2719:G:H5'	2.18	0.43
35:DA:785:G:C5	35:DA:786:C:C5	3.06	0.43
21:CU:7:ARG:O	21:CU:21:TYR:HD2	2.01	0.43
35:DA:2322:A:H2'	35:DA:2323:G:O4'	2.18	0.43
1:CA:27:G:H2'	1:CA:28:G:O4'	2.18	0.43
1:AA:152:A:N6	1:AA:170:U:C2	2.87	0.43
35:DA:2228:G:H2'	35:DA:2229:C:C6	2.53	0.43
35:BA:1632:A:C6	35:BA:1633:G:C6	3.06	0.43
35:DA:2483:C:O2	35:DA:2483:C:H2'	2.18	0.43
35:BA:1511:C:H2'	35:BA:1512:U:C6	2.53	0.43
1:CA:890:G:N2	1:CA:906:G:H2'	2.33	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1507:A:C2	35:DA:1508:A:H1'	2.54	0.43
35:DA:2714:G:C6	35:DA:2715:C:N3	2.86	0.43
50:DT:115:ARG:HB3	50:DT:116:ALA:H	1.67	0.43
1:CA:971:G:H5''	1:CA:972:C:H5''	2.01	0.43
1:CA:972:C:C4'	10:CJ:57:LYS:CG	2.91	0.43
41:DG:18:GLU:HA	41:DG:18:GLU:OE1	2.18	0.43
35:DA:1800:C:OP1	38:DD:264:LYS:NZ	2.51	0.43
38:DD:61:LEU:O	38:DD:63:ARG:NH1	2.51	0.43
41:DG:135:LEU:HB3	41:DG:155:MET:HG2	2.01	0.43
41:DG:39:ILE:O	41:DG:39:ILE:HG12	2.18	0.43
34:B8:35:GLN:NE2	34:B8:36:LYS:NZ	2.67	0.43
35:BA:1997:G:C2	35:BA:1998:G:N7	2.87	0.43
45:BO:105:GLU:O	45:BO:108:GLU:HB2	2.19	0.43
45:BO:23:ARG:HG3	45:BO:24:VAL:N	2.33	0.43
56:BZ:91:LEU:HD23	56:BZ:130:PRO:HG3	2.00	0.43
39:BE:65:GLY:O	39:BE:66:HIS:C	2.57	0.43
35:DA:1495:A:H2	35:DA:1496:A:C4	2.36	0.43
35:BA:537:C:C2	35:BA:538:G:C8	3.06	0.43
51:BU:92:ARG:HG3	51:BU:94:ASN:H	1.83	0.43
54:BX:72:LYS:O	54:BX:73:ARG:CB	2.67	0.43
35:DA:2805:G:H2'	35:DA:2807:G:C8	2.54	0.43
27:B1:18:ILE:HA	27:B1:44:PRO:HD2	2.00	0.43
27:B1:72:GLU:O	27:B1:76:ARG:NH2	2.51	0.43
35:BA:2314:C:H2'	35:BA:2315:G:C8	2.50	0.43
41:BG:169:ALA:C	41:BG:171:ALA:N	2.70	0.43
55:DY:81:LYS:HA	55:DY:82:PRO:HD3	1.86	0.43
51:DU:74:LEU:HD22	51:DU:78:THR:CG2	2.48	0.43
1:CA:1191:A:H5''	3:CC:4:LYS:HZ2	1.82	0.43
38:DD:14:ARG:CG	38:DD:14:ARG:NH1	2.81	0.43
38:DD:8:PRO:HB3	38:DD:14:ARG:HA	1.99	0.43
35:BA:1861:G:H2'	35:BA:1862:G:C8	2.53	0.43
4:CD:97:LEU:CD2	4:CD:97:LEU:O	2.66	0.43
35:BA:259:G:HO2'	35:BA:621:A:HO2'	1.61	0.43
3:AC:6:HIS:CD2	3:AC:8:ILE:H	2.36	0.43
35:BA:2241:A:C2	35:BA:2242:G:C5	3.06	0.43
40:BF:53:THR:N	40:BF:56:GLU:HB2	2.17	0.43
35:BA:958:U:OP2	47:BQ:14:ARG:NH1	2.51	0.43
47:BQ:16:ARG:HH11	47:BQ:16:ARG:HB3	1.78	0.43
35:DA:2819:G:H2'	35:DA:2821:A:N7	2.33	0.43
20:AT:43:LEU:O	20:AT:47:GLY:N	2.52	0.43
20:AT:84:LEU:HD13	20:AT:84:LEU:C	2.39	0.43
48:BR:44:LEU:CD1	48:BR:48:VAL:HG23	2.49	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:BR:55:ALA:HA	48:BR:80:PHE:CZ	2.54	0.43
50:BT:107:ASP:CG	50:BT:109:GLU:H	2.21	0.43
41:DG:26:GLN:N	41:DG:30:GLU:OE2	2.51	0.43
49:DS:25:ARG:HD3	49:DS:42:ASP:OD2	2.19	0.43
49:DS:83:LYS:O	49:DS:85:VAL:HG13	2.19	0.43
49:DS:92:TYR:CG	49:DS:93:LYS:N	2.83	0.43
44:DN:120:LEU:C	44:DN:120:LEU:CD1	2.86	0.43
44:BN:120:LEU:CD1	44:BN:120:LEU:C	2.87	0.43
1:CA:662:G:O2'	1:CA:836:G:C5'	2.67	0.43
35:DA:1257:C:H2'	35:DA:1258:C:H6	1.84	0.43
35:DA:833:U:H2'	35:DA:834:C:H6	1.81	0.43
35:DA:869:G:H2'	35:DA:870:A:O4'	2.19	0.43
35:DA:910:A:N1	35:DA:2277:G:H1'	2.33	0.43
35:DA:532:A:H4'	35:DA:533:G:C1'	2.48	0.43
25:CY:128:ALA:O	25:CY:132:ILE:CG1	2.65	0.43
25:CY:137:LEU:O	25:CY:138:ASP:C	2.57	0.43
25:CY:167:GLU:O	25:CY:168:PHE:C	2.56	0.43
35:BA:1239:G:H2'	35:BA:1240:U:O4'	2.18	0.43
20:CT:36:LEU:O	20:CT:37:SER:C	2.56	0.43
20:CT:78:ALA:O	20:CT:81:LYS:N	2.51	0.43
35:BA:2127:G:O3'	35:BA:2128:C:C4'	2.66	0.43
35:BA:685:A:C4	35:BA:689:A:N6	2.86	0.43
35:DA:2246:G:H2'	35:DA:2247:A:H8	1.81	0.43
43:BI:111:PRO:HA	43:BI:114:LEU:CD1	2.49	0.43
55:BY:28:LYS:O	55:BY:29:GLU:C	2.57	0.43
55:BY:65:ALA:O	55:BY:67:LEU:N	2.51	0.43
1:CA:1071:C:H5''	5:CE:49:PRO:HG2	1.99	0.43
1:AA:953:G:O2'	1:AA:954:G:H5'	2.19	0.43
1:AA:954:G:C5	1:AA:955:U:C4	3.07	0.43
8:AH:120:THR:N	8:AH:123:GLU:OE1	2.52	0.43
20:AT:53:LEU:O	20:AT:56:MET:N	2.52	0.43
1:AA:514:C:N4	1:AA:537:G:H1	2.15	0.43
8:AH:46:LYS:HG3	8:AH:63:LEU:O	2.19	0.43
8:AH:26:VAL:HG12	8:AH:59:LEU:HB2	2.01	0.43
35:BA:2472:G:H5'	35:BA:2473:U:C5'	2.47	0.43
31:B5:30:LEU:HD23	31:B5:41:PRO:HA	2.00	0.43
12:AL:102:ARG:NH1	12:AL:102:ARG:CG	2.78	0.43
42:BH:12:PRO:O	42:BH:13:LYS:CB	2.67	0.43
1:AA:1368:G:H4'	14:AN:61:TRP:HZ2	1.83	0.43
54:DX:18:TYR:HA	54:DX:21:PHE:CG	2.53	0.43
35:BA:542:C:C4	35:BA:543:C:N4	2.84	0.43
46:BP:111:ARG:HA	46:BP:128:HIS:CE1	2.53	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:BP:115:LEU:HB3	46:BP:131:SER:OG	2.19	0.43
35:DA:2225:A:H4'	35:DA:2226:C:C5'	2.47	0.43
16:CP:38:TYR:CE1	16:CP:50:LYS:HB3	2.54	0.43
16:CP:48:TRP:CE3	16:CP:49:LEU:N	2.86	0.43
40:BF:164:ARG:O	40:BF:166:ALA:N	2.51	0.43
35:BA:1938:A:H4'	35:BA:1939:U:OP2	2.18	0.43
1:AA:777:A:O2'	1:AA:778:G:H5'	2.19	0.43
35:BA:1268:A:H2	53:BW:88:ARG:NH2	2.17	0.43
40:BF:178:PRO:C	40:BF:180:GLY:N	2.72	0.43
35:DA:1042:G:N3	35:DA:1114:G:N2	2.66	0.43
7:AG:60:LYS:HD2	7:AG:63:LYS:HG2	1.99	0.43
35:DA:679:C:O2	35:DA:679:C:H2'	2.18	0.43
12:CL:41:ARG:HG2	12:CL:42:THR:H	1.83	0.43
2:AB:177:ALA:O	2:AB:180:LEU:N	2.49	0.43
35:DA:2884:U:H2'	35:DA:2885:C:C5'	2.46	0.43
35:DA:98:G:N3	35:DA:98:G:H2'	2.32	0.43
1:AA:235:C:O2'	1:AA:236:G:H5'	2.19	0.43
17:AQ:74:LEU:HD12	17:AQ:75:ARG:CG	2.42	0.43
35:BA:2171:A:O2'	35:BA:2172:U:H6	2.00	0.43
5:AE:72:GLN:OE1	5:AE:77:PRO:HA	2.18	0.43
1:CA:1466:C:O2'	1:CA:1467:G:H5'	2.18	0.43
35:DA:2189:U:H2'	35:DA:2190:G:C4'	2.49	0.43
46:DP:95:VAL:HG23	46:DP:125:VAL:CG2	2.48	0.43
13:AM:51:ALA:O	13:AM:55:ARG:HB2	2.18	0.43
26:B0:40:GLN:O	26:B0:57:PHE:HB2	2.18	0.43
11:CK:126:ARG:O	11:CK:127:LYS:C	2.56	0.43
15:AO:66:LEU:O	15:AO:69:TYR:N	2.51	0.43
1:AA:1098:C:C2	1:AA:1099:G:C8	3.06	0.43
1:CA:597:G:C6	1:CA:644:G:C6	3.07	0.43
46:BP:58:THR:O	46:BP:58:THR:HG22	2.19	0.43
31:D5:18:ALA:O	31:D5:19:ARG:C	2.55	0.43
23:AW:13:C:H42	23:AW:23:G:H1	1.66	0.43
27:B1:41:ARG:NH1	35:BA:189:G:O5'	2.51	0.43
6:CF:82:ARG:HA	6:CF:82:ARG:HH11	1.83	0.43
35:BA:2660:A:H2'	35:BA:2661:G:O4'	2.19	0.43
35:DA:171:G:C5	35:DA:172:C:C5	3.07	0.43
35:BA:1644:C:HO2'	35:BA:1645:G:H5'	1.82	0.43
35:DA:2290:G:H1	35:DA:2342:C:N4	2.17	0.43
1:AA:1288:A:O5'	1:AA:1288:A:H8	2.01	0.43
7:AG:23:VAL:C	7:AG:27:ILE:HD13	2.38	0.43
4:AD:194:LEU:O	4:AD:195:ALA:HB3	2.18	0.43
19:AS:22:LEU:HD21	19:AS:28:LYS:N	2.33	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1161:C:H2'	1:AA:1162:C:C6	2.54	0.43
1:CA:797:C:O2'	1:CA:798:G:H5'	2.19	0.43
1:CA:1163:C:H2'	1:CA:1164:G:C8	2.49	0.43
7:CG:42:ILE:HG23	7:CG:117:ALA:HA	2.00	0.43
1:CA:356:A:C4	1:CA:357:G:C8	3.06	0.43
25:CY:58:VAL:HG12	25:CY:66:LEU:HD11	1.99	0.43
3:AC:95:THR:HG22	3:AC:97:LYS:H	1.84	0.43
53:DW:9:TYR:HD2	53:DW:9:TYR:H	1.66	0.43
1:AA:792:A:N3	1:AA:794:A:C5	2.87	0.43
31:D5:9:LYS:NZ	31:D5:9:LYS:HB3	2.34	0.43
11:CK:49:GLY:C	11:CK:50:TYR:HD2	2.22	0.43
55:DY:84:ARG:O	55:DY:85:VAL:HG22	2.18	0.43
53:DW:61:ASN:HA	53:DW:61:ASN:HD22	1.55	0.43
52:BV:58:VAL:HG12	52:BV:101:GLY:C	2.38	0.43
57:DC:65:PRO:HG2	57:DC:189:ILE:CA	2.48	0.43
6:AF:100:ASN:HD22	6:AF:100:ASN:HA	1.51	0.43
25:AY:90:LEU:HD21	25:AY:104:PRO:HD2	2.01	0.43
35:BA:2553:G:H3'	35:BA:2554:U:H5''	2.01	0.43
1:AA:1146:A:C2'	1:AA:1147:C:O5'	2.67	0.43
4:CD:138:TYR:CD2	4:CD:138:TYR:C	2.92	0.43
7:CG:133:GLY:HA2	7:CG:136:LYS:HG2	2.01	0.43
5:CE:64:ARG:HH11	5:CE:64:ARG:HG3	1.83	0.43
1:CA:1328:C:P	21:CU:21:TYR:OH	2.76	0.43
26:D0:56:ASP:OD2	26:D0:58:THR:OG1	2.36	0.43
43:DI:1:MET:HB2	43:DI:21:VAL:O	2.18	0.43
35:BA:2228:G:C6	35:BA:2229:C:C4	3.07	0.43
35:DA:2330:G:H1	35:DA:2385:C:H42	1.66	0.43
1:AA:1476:G:C6	1:AA:1477:C:C4	3.07	0.43
35:DA:2540:C:N4	35:DA:2541:A:C6	2.86	0.43
30:B4:17:GLY:O	30:B4:19:GLY:N	2.39	0.43
35:BA:1145:C:H2'	35:BA:1146:C:C6	2.53	0.43
36:BB:63:G:N3	36:BB:63:G:H2'	2.32	0.43
14:AN:9:LYS:HB2	14:AN:9:LYS:HE3	1.82	0.43
1:CA:318:G:C2	1:CA:319:G:C5	3.06	0.43
35:BA:2453:A:O2'	35:BA:2454:G:H5'	2.18	0.43
12:CL:78:GLN:O	12:CL:80:HIS:N	2.51	0.43
35:DA:1638:C:H2'	35:DA:1639:U:O4'	2.17	0.43
39:DE:188:VAL:HG13	39:DE:188:VAL:O	2.19	0.43
43:BI:86:THR:O	43:BI:122:GLU:OE2	2.36	0.43
43:BI:85:GLU:HB3	43:BI:86:THR:H	1.51	0.43
1:CA:971:G:C4'	1:CA:972:C:H5''	2.43	0.43
41:DG:5:VAL:CG1	41:DG:6:ALA:N	2.61	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1778:U:H5	35:BA:1784:A:N3	2.17	0.43
35:BA:1902:C:H5'	38:BD:246:PRO:CD	2.49	0.43
38:BD:43:ARG:HB3	38:BD:54:ARG:CB	2.49	0.43
38:DD:20:ASP:OD1	38:DD:21:PHE:N	2.52	0.43
38:DD:213:ARG:C	38:DD:215:LEU:N	2.72	0.43
38:DD:240:ALA:HA	38:DD:241:PRO:HD3	1.85	0.43
38:DD:27:THR:HG21	38:DD:83:GLU:CG	2.30	0.43
35:DA:2310:A:N7	41:DG:75:LYS:NZ	2.61	0.43
10:CJ:28:ARG:NH2	10:CJ:34:VAL:O	2.52	0.43
35:BA:2415:G:C6	35:BA:2416:C:C4	3.07	0.43
47:DQ:20:ALA:HA	47:DQ:98:LYS:CB	2.45	0.43
35:BA:2633:G:N2	35:BA:2634:G:H1'	2.33	0.43
39:BE:4:ILE:CD1	39:BE:28:ALA:HB1	2.48	0.43
39:BE:47:VAL:CG1	39:BE:49:LEU:HD11	2.48	0.43
35:BA:1149:G:H2'	35:BA:1150:C:C6	2.54	0.43
51:BU:63:VAL:O	51:BU:64:ARG:C	2.57	0.43
42:DH:160:LYS:HB3	42:DH:161:GLY:H	1.72	0.43
1:AA:1230:C:C2'	1:AA:1231:G:H5'	2.49	0.43
39:DE:63:LEU:O	39:DE:65:GLY:N	2.52	0.43
27:B1:89:GLU:O	27:B1:93:GLU:CD	2.56	0.43
54:DX:59:VAL:HG22	54:DX:74:PRO:O	2.19	0.43
54:DX:76:ARG:O	54:DX:77:LYS:CB	2.65	0.43
42:BH:86:GLU:HA	42:BH:132:ARG:CB	2.49	0.43
35:DA:2476:A:N3	35:DA:2476:A:H2'	2.33	0.43
56:DZ:97:GLU:HB3	56:DZ:125:LEU:CD2	2.37	0.43
35:DA:2382:G:C3'	35:DA:2383:G:H5'	2.49	0.43
49:BS:51:ALA:HA	49:BS:56:LEU:HD13	2.01	0.43
1:CA:408:A:C2	1:CA:409:G:C4	3.06	0.43
4:CD:66:ARG:O	4:CD:69:GLY:N	2.51	0.43
43:DI:81:VAL:O	43:DI:83:ALA:N	2.52	0.43
47:BQ:68:ILE:N	47:BQ:68:ILE:CD1	2.79	0.43
27:D1:74:VAL:C	27:D1:76:ARG:H	2.21	0.43
46:DP:62:LEU:H	46:DP:62:LEU:HD12	1.80	0.43
27:B1:23:LYS:N	27:B1:38:SER:O	2.51	0.43
35:BA:198:C:H5'	35:BA:2244:U:OP1	2.19	0.43
35:BA:812:C:O2	35:BA:1250:G:N1	2.51	0.43
1:AA:60:A:H4'	1:AA:61:G:O5'	2.19	0.43
48:BR:12:ARG:HG3	48:BR:12:ARG:NH1	2.33	0.43
50:BT:112:ARG:C	50:BT:112:ARG:HD3	2.39	0.43
50:BT:105:LEU:O	50:BT:113:LYS:NZ	2.52	0.43
49:DS:106:ARG:HD2	49:DS:106:ARG:O	2.19	0.43
49:DS:87:PHE:CE2	49:DS:88:ASP:O	2.72	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
47:BQ:113:GLN:O	47:BQ:116:GLU:HB3	2.19	0.43
15:CO:87:ILE:O	15:CO:88:ARG:HB2	2.17	0.43
35:DA:1224:C:O2'	35:DA:1225:G:H5'	2.19	0.43
35:DA:792:G:N7	35:DA:2440:C:H1'	2.34	0.43
35:DA:677:A:N6	35:DA:802:A:N7	2.67	0.43
1:AA:429:U:H4'	1:AA:430:A:OP1	2.18	0.43
1:CA:1361:G:H2'	1:CA:1362:C:C6	2.53	0.43
12:AL:5:PRO:CG	12:AL:10:LEU:HD21	2.49	0.43
12:AL:6:THR:HG23	12:AL:9:GLN:N	2.12	0.43
1:AA:502:G:C6	1:AA:503:C:C4	3.07	0.43
4:AD:14:ARG:C	4:AD:16:GLY:N	2.72	0.43
12:AL:114:LYS:HB3	12:AL:114:LYS:HE2	1.93	0.43
35:BA:402:A:C2'	35:BA:403:U:H5'	2.48	0.43
47:BQ:58:PHE:O	47:BQ:58:PHE:HD1	2.02	0.43
1:AA:450:G:OP1	1:AA:452:A:OP2	2.36	0.43
1:CA:690:G:N1	1:CA:691:G:C2	2.87	0.43
38:BD:31:LYS:HA	38:BD:31:LYS:HZ2	1.75	0.43
40:DF:160:ASN:HD21	40:DF:162:LEU:HB2	1.83	0.43
35:BA:78:A:O2'	35:BA:79:G:H5'	2.19	0.43
13:AM:92:HIS:ND1	13:AM:98:VAL:HG21	2.34	0.43
1:AA:1500:A:OP1	1:AA:1505:G:OP1	2.37	0.43
35:DA:1656:C:O2'	35:DA:1657:C:H5'	2.19	0.43
9:AI:3:GLN:HA	9:AI:19:LEU:O	2.18	0.43
16:AP:14:ASN:H	16:AP:15:PRO:CD	2.28	0.43
1:AA:563:A:H2	12:AL:15:ARG:NH1	2.17	0.43
54:DX:65:ARG:NE	54:DX:66:LEU:N	2.65	0.43
1:CA:452:A:C4	1:CA:453:A:C8	3.07	0.43
35:DA:2274:A:N6	35:DA:2276:G:C4	2.86	0.43
3:AC:104:GLN:NE2	3:AC:105:GLU:H	2.16	0.43
39:BE:103:ASP:HA	39:BE:168:MET:HA	2.00	0.43
23:AW:22:A:C6	23:AW:49:C:C2	3.07	0.43
1:AA:1459:C:C4	1:AA:1460:A:N7	2.87	0.43
17:CQ:68:ARG:HH11	17:CQ:68:ARG:HG2	1.84	0.43
1:AA:1056:U:C5'	3:AC:163:ALA:HB2	2.48	0.43
32:B6:15:GLU:O	32:B6:16:CYS:O	2.37	0.43
17:AQ:15:MET:HG2	17:AQ:16:GLN:N	2.33	0.43
3:CC:104:GLN:NE2	3:CC:105:GLU:H	2.16	0.43
1:CA:91:C:O5'	1:CA:91:C:H6	2.01	0.43
5:CE:101:ILE:HD11	5:CE:119:LEU:HD23	2.01	0.43
5:CE:73:ASN:HD22	5:CE:73:ASN:C	2.21	0.43
32:B6:28:ARG:HA	32:B6:32:ASN:CB	2.48	0.43
32:D6:32:ASN:HD22	32:D6:33:LYS:HE3	1.83	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:CY:107:THR:C	25:CY:111:ARG:NH1	2.72	0.43
13:CM:51:ALA:O	13:CM:55:ARG:HB2	2.18	0.43
1:AA:64:G:H4'	1:AA:66:G:OP1	2.18	0.43
43:BI:54:GLN:HA	43:BI:57:ARG:HB3	2.00	0.43
15:AO:85:LEU:HB2	15:AO:87:ILE:HG13	2.01	0.43
38:BD:139:GLY:O	38:BD:140:THR:C	2.56	0.43
35:DA:475:U:O4'	35:DA:509:C:C5	2.72	0.43
44:DN:3:THR:C	44:DN:5:VAL:N	2.71	0.43
35:DA:2006:C:H2'	35:DA:2007:C:C6	2.53	0.43
1:CA:668:G:O2'	15:CO:46:HIS:CD2	2.72	0.43
25:CY:72:ASP:HB3	25:CY:75:ALA:CB	2.49	0.43
43:DI:60:GLU:C	43:DI:62:LYS:H	2.22	0.43
17:CQ:14:LYS:HB2	17:CQ:14:LYS:HZ3	1.83	0.43
13:AM:14:ARG:HB2	13:AM:16:ASP:OD2	2.18	0.43
19:AS:22:LEU:C	19:AS:22:LEU:HD13	2.37	0.43
7:CG:11:GLN:CG	7:CG:12:LEU:N	2.82	0.43
35:DA:304:G:C2	35:DA:305:U:C2	3.07	0.43
1:CA:828:A:N7	1:CA:859:A:C8	2.87	0.43
16:AP:53:VAL:HG23	16:AP:54:GLU:N	2.31	0.43
35:BA:2670:A:C2	35:BA:2671:A:C8	3.06	0.43
35:DA:730:C:O2'	35:DA:731:C:H5'	2.18	0.43
55:DY:84:ARG:C	55:DY:85:VAL:CG2	2.86	0.43
35:DA:2064:C:H1'	35:DA:2450:A:C5	2.54	0.43
40:BF:80:ALA:O	40:BF:83:PHE:HB2	2.18	0.43
35:DA:2447:G:H2'	35:DA:2500:U:OP2	2.18	0.43
35:DA:1923:U:H2'	35:DA:1924:C:C6	2.54	0.43
1:CA:55:A:N7	1:CA:56:U:C4	2.87	0.43
1:CA:318:G:H2'	1:CA:319:G:H8	1.84	0.43
1:AA:1157:A:H4'	1:AA:1158:C:O5'	2.18	0.43
1:AA:1113:C:H6	1:AA:1113:C:O5'	2.02	0.43
35:DA:2602:A:H4'	35:DA:2603:G:O5'	2.19	0.43
35:DA:483:A:N7	35:DA:497:A:H2	2.16	0.43
55:DY:43:ASN:CG	55:DY:64:GLU:HA	2.38	0.43
35:DA:2713:A:H3'	35:DA:2714:G:H5'	2.00	0.43
35:DA:2864:G:C8	35:DA:2864:G:H5'	2.47	0.43
45:DO:10:VAL:HG21	45:DO:16:ALA:O	2.18	0.43
1:CA:973:G:P	10:CJ:57:LYS:NZ	2.92	0.43
35:BA:1788:C:OP1	38:BD:222:ARG:NH2	2.52	0.43
35:DA:1826:G:H2'	35:DA:1827:C:H6	1.84	0.43
38:DD:3:VAL:HG12	38:DD:4:LYS:N	2.33	0.43
16:CP:18:ARG:HD3	16:CP:35:LYS:CD	2.46	0.43
41:DG:103:LEU:O	41:DG:107:LEU:HB2	2.18	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:DG:116:ASP:CG	41:DG:117:PHE:H	2.22	0.43
34:B8:46:ARG:NH1	34:B8:46:ARG:CB	2.60	0.43
1:AA:1442(A):G:H5'	1:AA:1442(B):A:C2	2.53	0.43
45:BO:78:ARG:HB3	50:BT:73:GLU:CG	2.48	0.43
50:BT:82:LEU:O	50:BT:83:ILE:HG12	2.19	0.43
42:DH:136:ILE:CD1	42:DH:136:ILE:N	2.80	0.43
42:DH:83:TYR:HD1	42:DH:84:SER:N	2.16	0.43
28:B2:29:LYS:O	28:B2:32:LEU:N	2.52	0.43
28:B2:47:ASN:CG	28:B2:48:HIS:N	2.71	0.43
27:B1:62:VAL:O	27:B1:63:ALA:O	2.37	0.43
2:AB:84:GLU:HB3	2:AB:219:VAL:CG2	2.32	0.43
41:BG:110:ALA:O	41:BG:113:ARG:N	2.52	0.43
41:BG:173:LEU:HA	41:BG:176:LEU:CD1	2.27	0.43
56:DZ:147:GLY:O	56:DZ:148:ASP:CB	2.66	0.43
56:DZ:153:SER:C	56:DZ:154:ASP:OD2	2.57	0.43
56:DZ:69:THR:CG2	56:DZ:90:VAL:HG22	2.29	0.43
44:DN:38:HIS:O	44:DN:40:PRO:HD3	2.18	0.43
44:DN:46:VAL:HG11	44:DN:48:MET:CG	2.47	0.43
1:CA:984:C:H2'	1:CA:985:C:C6	2.54	0.43
19:CS:10:PHE:CE2	19:CS:70:LYS:NZ	2.87	0.43
19:CS:36:ARG:HH22	19:CS:75:ALA:CB	2.17	0.43
36:BB:7:G:H4'	49:BS:29:PHE:HE2	1.80	0.43
49:BS:31:SER:CB	49:BS:34:HIS:O	2.67	0.43
49:BS:51:ALA:HA	49:BS:56:LEU:CD1	2.48	0.43
4:CD:59:ARG:HA	4:CD:59:ARG:CZ	2.49	0.43
44:BN:62:VAL:HG21	44:BN:66:LYS:HB2	2.00	0.43
14:CN:3:ARG:O	14:CN:7:ILE:HG23	2.18	0.43
35:BA:1245:G:OP1	46:BP:16:ARG:NE	2.52	0.43
35:BA:259:G:C2	35:BA:260:G:C8	3.07	0.43
5:CE:48:ALA:O	5:CE:50:GLU:N	2.52	0.43
46:DP:65:ARG:O	46:DP:66:GLY:C	2.57	0.43
44:DN:66:LYS:HE3	44:DN:66:LYS:HA	1.99	0.43
35:BA:1195:G:C2	35:BA:1196:C:C4	3.06	0.43
35:BA:579:G:C6	35:BA:580:C:N4	2.87	0.43
35:BA:835:A:O2'	35:BA:836:G:H5'	2.19	0.43
48:DR:2:ARG:NE	48:DR:5:LYS:HZ2	2.14	0.43
1:AA:1434:A:H2'	1:AA:1435:G:H8	1.83	0.43
1:AA:61:G:H2'	1:AA:62:U:O4'	2.18	0.43
49:DS:28:VAL:H	49:DS:89:ARG:CB	2.30	0.43
49:DS:74:ALA:O	49:DS:75:GLU:C	2.57	0.43
2:AB:159:PRO:HB2	2:AB:162:ILE:HG22	2.01	0.43
2:AB:166:ASP:O	2:AB:167:PRO:O	2.37	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:CB:164:VAL:O	2:CB:186:ALA:CB	2.67	0.43
34:D8:2:PRO:HA	35:DA:591:C:O2	2.18	0.43
4:AD:172:PRO:C	4:AD:187:ARG:HH12	2.22	0.43
4:AD:98:GLU:C	4:AD:100:ARG:N	2.72	0.43
3:AC:11:ARG:HG2	3:AC:11:ARG:NH1	2.32	0.43
19:AS:5:LEU:H	19:AS:6:LYS:NZ	2.17	0.43
55:DY:37:VAL:CG2	55:DY:38:ILE:N	2.71	0.43
1:AA:1361:G:H2'	1:AA:1362:C:C6	2.54	0.43
35:BA:366:C:H5''	35:BA:403:U:N3	2.33	0.43
43:DI:132:PRO:O	43:DI:133:HIS:O	2.36	0.43
6:AF:70:ASP:O	6:AF:71:ARG:C	2.57	0.43
18:AR:74:ARG:CZ	18:AR:81:PHE:HA	2.49	0.43
1:CA:1502:A:H2	1:CA:1505:G:H22	1.64	0.43
1:CA:781:A:H4'	1:CA:1522:U:O2'	2.19	0.43
27:B1:34:THR:O	27:B1:35:THR:HG23	2.18	0.43
21:AU:19:GLY:O	21:AU:22:ARG:O	2.36	0.43
7:CG:26:PHE:O	7:CG:30:ILE:HG12	2.19	0.43
1:CA:821:G:O2'	1:CA:822:C:H5'	2.18	0.43
16:CP:55:ARG:O	16:CP:58:TYR:HB3	2.19	0.43
25:AY:154:THR:O	25:AY:157:ALA:HB3	2.19	0.43
1:AA:706:A:N7	1:AA:707:C:H5	2.17	0.43
8:CH:114:THR:CG2	8:CH:117:GLY:O	2.67	0.43
1:AA:922:G:N3	1:AA:1396:A:C2	2.87	0.43
1:AA:920:U:C2	1:AA:921:U:C5	3.06	0.43
1:AA:15:G:O3'	5:AE:24:ARG:NH2	2.52	0.43
1:AA:1506:U:OP1	24:AX:15:G:OP1	2.37	0.43
25:CY:68:VAL:C	25:CY:98:ALA:HA	2.38	0.43
1:CA:1368:G:OP2	9:CI:112:LYS:HE3	2.18	0.43
1:AA:515:G:N2	1:AA:537:G:C4	2.87	0.43
1:AA:825:G:O2'	1:AA:826:C:H5'	2.18	0.43
8:AH:16:ALA:HB1	8:AH:63:LEU:HD21	2.01	0.43
1:CA:563:A:H2	12:CL:15:ARG:NH1	2.16	0.43
9:AI:28:VAL:O	9:AI:30:GLY:N	2.51	0.43
8:CH:5:PRO:HA	8:CH:8:ASP:HB3	2.00	0.43
35:DA:1605:C:H2'	35:DA:1606:G:O4'	2.18	0.43
7:CG:65:ALA:HB2	7:CG:124:LEU:O	2.19	0.43
35:DA:491:G:N2	35:DA:492:A:H1'	2.34	0.43
38:DD:132:PRO:HB3	38:DD:188:GLU:O	2.19	0.43
35:BA:2591:C:H6	35:BA:2591:C:O5'	2.02	0.43
1:AA:680:C:N3	1:AA:711:G:C2	2.86	0.43
1:CA:684:A:C2	11:CK:39:PRO:HG2	2.54	0.43
11:CK:99:GLN:O	11:CK:101:SER:N	2.51	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2206:G:N3	35:DA:2207:G:H5'	2.33	0.43
2:AB:105:PHE:HA	2:AB:108:ILE:CG2	2.48	0.43
35:BA:724:U:C2'	35:BA:725:G:H5'	2.49	0.43
14:CN:6:LEU:C	14:CN:8:GLU:N	2.72	0.43
1:AA:932:C:H5''	7:AG:3:ARG:CD	2.37	0.43
1:AA:35:G:C4	1:AA:36:C:C5	3.06	0.43
27:D1:18:ILE:HG12	27:D1:43:TYR:HD1	1.84	0.43
20:CT:82:SER:O	20:CT:86:ARG:HB2	2.19	0.43
11:AK:99:GLN:O	11:AK:101:SER:N	2.52	0.43
26:B0:25:ARG:CB	26:B0:37:LEU:HD23	2.46	0.43
1:AA:725:G:O2'	1:AA:726:C:H5'	2.19	0.43
13:CM:33:ALA:HA	13:CM:59:TYR:CE2	2.54	0.43
13:AM:9:ILE:CD1	13:AM:9:ILE:N	2.82	0.43
35:BA:1298:C:C2'	35:BA:1299:G:C8	3.02	0.43
35:BA:1301:A:C2	35:BA:1303:G:C6	3.07	0.43
35:DA:1683:C:H2'	35:DA:1684:C:C6	2.53	0.43
38:BD:231:HIS:NE2	38:BD:249:PRO:HG3	2.33	0.43
48:BR:6:SER:HA	48:BR:8:ARG:HH21	1.79	0.43
35:DA:1569:A:O2'	35:DA:1570:A:H5'	2.19	0.43
1:AA:1496:C:H2'	1:AA:1497:G:O4'	2.19	0.43
1:CA:1479:C:H2'	1:CA:1480:G:H8	1.83	0.43
35:BA:1445(A):C:H2'	35:BA:1446:C:C6	2.52	0.43
16:AP:27:LYS:H	16:AP:27:LYS:CD	2.28	0.43
35:BA:2102:U:O4'	35:BA:2102:U:O2	2.36	0.43
1:CA:245:C:O2	1:CA:283:C:N3	2.51	0.43
35:DA:154(A):C:O2	35:DA:154(A):C:O4'	2.33	0.43
1:CA:1340:A:P	23:CW:36:A:H4'	2.58	0.43
35:DA:2543:G:O2'	35:DA:2544:G:H5'	2.19	0.43
1:CA:21:G:H2'	1:CA:22:G:C8	2.54	0.43
44:DN:128:HIS:HD2	44:DN:131:GLN:CB	2.31	0.43
7:AG:16:LEU:HD11	9:AI:42:ARG:HA	2.00	0.43
17:CQ:10:VAL:CG1	17:CQ:53:LEU:HA	2.49	0.43
35:BA:1853:A:H2'	35:BA:1854:A:O4'	2.19	0.43
1:AA:356:A:C4	1:AA:357:G:C8	3.07	0.43
29:D3:22:ALA:O	29:D3:26:LEU:HG	2.19	0.43
1:CA:630:G:H2'	1:CA:631:G:H5'	2.00	0.43
35:BA:1210:A:C8	35:BA:1237:A:N6	2.87	0.43
1:CA:786:G:C2	1:CA:797:C:O2	2.72	0.43
1:CA:357:G:O2'	1:CA:358:U:H5'	2.19	0.43
35:BA:1444:G:O6	35:BA:1466:G:C6	2.72	0.43
35:BA:1466:G:N2	35:BA:1547:C:C2	2.87	0.43
35:DA:1210:A:C8	35:DA:1237:A:N6	2.87	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
57:DC:184:LYS:C	57:DC:186:ALA:N	2.72	0.43
35:BA:127:A:H5''	35:BA:128:C:C6	2.54	0.43
35:BA:1358:G:N7	35:BA:1371:G:C6	2.86	0.43
1:CA:1131:G:C2	1:CA:1132:C:N4	2.87	0.43
1:CA:1132:C:C2'	1:CA:1133:G:H5'	2.49	0.43
13:AM:40:ASN:HA	13:AM:41:PRO:HD3	1.79	0.43
35:BA:392:C:H5''	35:BA:409:C:H5''	2.01	0.43
1:AA:1131:G:C2	1:AA:1132:C:N4	2.87	0.43
35:DA:1374:G:H2'	35:DA:1375:C:H6	1.83	0.43
35:DA:1560:G:OP1	35:DA:1561:G:OP2	2.37	0.43
4:AD:45:GLN:C	4:AD:46:LYS:HG3	2.39	0.43
1:CA:1011:G:H2'	1:CA:1012:U:H5'	2.01	0.43
35:BA:2447:G:H2'	35:BA:2500:U:OP2	2.18	0.43
56:BZ:47:VAL:O	56:BZ:51:ALA:CB	2.66	0.43
35:BA:1051:G:C2	35:BA:1052:C:N4	2.87	0.43
7:CG:57:GLU:C	7:CG:59:LEU:H	2.22	0.43
3:CC:190:ARG:O	3:CC:191:THR:O	2.36	0.43
12:CL:126:LYS:HA	12:CL:126:LYS:HD2	1.76	0.43
35:DA:1208:C:C4	35:DA:1209:G:N7	2.87	0.43
45:DO:105:GLU:O	45:DO:108:GLU:HB2	2.18	0.43
50:DT:48:ILE:HG22	50:DT:49:VAL:N	2.34	0.43
1:CA:1079:G:C2	1:CA:1080:A:C5	3.06	0.43
41:DG:109:VAL:C	41:DG:111:LEU:N	2.68	0.43
41:DG:130:ASN:HB3	41:DG:159:VAL:O	2.18	0.43
47:DQ:125:LEU:HB3	47:DQ:127:ILE:CD1	2.49	0.43
35:BA:1664:A:H61	35:BA:1996:C:H42	1.67	0.43
35:BA:2678:C:H2'	35:BA:2678:C:O2	2.17	0.43
35:BA:2679:A:H2'	35:BA:2680:C:C6	2.54	0.43
39:BE:23:VAL:CA	39:BE:184:VAL:O	2.66	0.43
45:BO:71:ARG:HH12	50:BT:74:ARG:HH22	1.66	0.43
45:BO:87:ILE:HG23	45:BO:88:ASN:O	2.19	0.43
50:BT:84:GLN:O	50:BT:84:GLN:HG3	2.19	0.43
16:AP:34:GLU:OE1	16:AP:36:ILE:HG23	2.19	0.43
56:BZ:11:GLU:HB2	56:BZ:13:GLU:CG	2.47	0.43
56:BZ:27:VAL:N	56:BZ:86:VAL:O	2.48	0.43
56:BZ:6:LYS:HB3	56:BZ:8:TYR:CE1	2.53	0.43
35:BA:534:U:O3'	51:BU:46:ALA:CB	2.67	0.43
44:BN:7:LYS:O	44:BN:8:GLN:C	2.58	0.43
51:BU:49:HIS:O	51:BU:52:ARG:N	2.52	0.43
35:BA:1160:G:H22	52:BV:10:LYS:HE3	1.84	0.43
42:DH:89:ILE:HG12	42:DH:90:LYS:H	1.81	0.43
14:AN:47:LEU:O	14:AN:51:GLY:N	2.52	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:B1:48:LYS:O	27:B1:49:VAL:CG2	2.65	0.43
42:BH:127:GLU:CB	42:BH:130:ARG:HB3	2.49	0.43
56:DZ:151:HIS:O	56:DZ:171:ILE:HD13	2.19	0.43
56:DZ:151:HIS:O	56:DZ:171:ILE:CD1	2.67	0.43
56:DZ:5:LEU:HD21	56:DZ:43:GLU:HB3	2.01	0.43
1:AA:1050:G:N2	1:AA:1209:C:H1'	2.34	0.43
49:BS:106:ARG:HD2	49:BS:107:GLU:O	2.19	0.43
49:BS:58:LEU:CD2	49:BS:65:VAL:HG13	2.48	0.43
35:BA:614(B):G:C4	40:BF:44:ARG:NH2	2.86	0.43
25:AY:96:GLY:C	25:AY:98:ALA:H	2.23	0.43
35:BA:2052:G:P	39:BE:141:ILE:HD11	2.59	0.43
35:DA:271(P):C:O2'	35:DA:271(Q):G:H5'	2.19	0.43
35:DA:1142(A):A:C4	35:DA:1144:G:C8	3.07	0.43
44:DN:98:VAL:O	44:DN:102:ALA:CB	2.67	0.43
35:BA:389:G:N1	46:BP:71:VAL:CG1	2.80	0.43
35:BA:1260:G:H2'	35:BA:1261:C:C6	2.54	0.43
48:DR:9:LYS:HZ1	48:DR:39:PRO:HA	1.82	0.43
1:AA:106:C:O2'	1:AA:379:C:OP1	2.37	0.43
20:AT:24:LEU:O	20:AT:25:ARG:C	2.57	0.43
35:BA:2711:A:OP2	35:BA:2712(A):A:OP2	2.37	0.43
48:BR:10:LEU:HD22	48:BR:17:ARG:CD	2.31	0.43
44:BN:56:ASN:CA	44:BN:125:GLY:H	2.29	0.43
11:CK:115:PRO:C	11:CK:116:HIS:ND1	2.72	0.43
18:CR:43:PHE:CD1	18:CR:43:PHE:N	2.78	0.43
52:DV:83:ARG:O	52:DV:84:LYS:CD	2.67	0.43
52:DV:88:ARG:CG	52:DV:88:ARG:HH11	2.32	0.43
4:AD:126:ILE:CG2	4:AD:127:THR:H	2.30	0.43
55:DY:31:LEU:HB2	55:DY:36:ALA:N	2.26	0.43
55:DY:31:LEU:HD12	55:DY:34:LYS:H	1.80	0.43
4:AD:17:VAL:CG1	4:AD:18:LYS:N	2.80	0.43
47:BQ:57:HIS:ND1	47:BQ:58:PHE:N	2.66	0.43
53:DW:4:LYS:HA	53:DW:106:ILE:HA	2.00	0.43
35:DA:2019:A:C6	35:DA:2020:A:C5	3.06	0.43
42:DH:44:VAL:HG12	42:DH:45:VAL:HG23	2.00	0.43
25:CY:5:GLU:O	25:CY:6:LEU:C	2.56	0.43
1:CA:1219:U:P	14:CN:19:ARG:HH22	2.42	0.43
1:AA:452:A:H1'	16:AP:72:ARG:NH1	2.34	0.43
35:DA:2700:C:H2'	35:DA:2701:C:H6	1.83	0.43
35:BA:1658:C:H2'	35:BA:1659:U:H6	1.79	0.43
1:CA:260:G:H2'	1:CA:261:U:C6	2.54	0.43
20:CT:64:ASP:OD1	20:CT:81:LYS:HD2	2.19	0.43
12:CL:6:THR:H	12:CL:9:GLN:NE2	2.17	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:DH:43:VAL:HB	42:DH:51:ARG:O	2.18	0.43
33:B7:34:ARG:HE	33:B7:39:ARG:HD2	1.83	0.43
33:B7:41:ARG:O	33:B7:42:LEU:C	2.54	0.43
35:BA:1354:A:H2'	35:BA:1355:G:H5'	2.00	0.43
55:BY:31:LEU:CG	55:BY:34:LYS:HB2	2.49	0.43
2:CB:173:ALA:O	2:CB:174:VAL:C	2.55	0.43
11:AK:51:LYS:HA	11:AK:55:LYS:HG3	2.01	0.43
11:AK:88:GLY:C	11:AK:91:ARG:HB2	2.38	0.43
35:BA:923:C:H2'	35:BA:924:C:C6	2.53	0.43
40:DF:102:PRO:O	40:DF:104:LYS:N	2.51	0.43
1:AA:919:A:H2'	1:AA:920:U:O5'	2.19	0.43
25:CY:84:ARG:C	25:CY:86:SER:N	2.72	0.43
8:AH:86:ILE:HG21	8:AH:133:LEU:CD2	2.49	0.43
9:AI:28:VAL:HG22	9:AI:63:ILE:HB	1.99	0.43
9:AI:24:GLY:CA	9:AI:60:ASP:HA	2.49	0.43
8:CH:26:VAL:CG1	8:CH:59:LEU:HB2	2.48	0.43
31:B5:54:GLY:O	31:B5:56:LYS:NZ	2.51	0.43
1:CA:523:A:N6	12:CL:53:ARG:NH2	2.66	0.43
9:CI:27:THR:CG2	9:CI:28:VAL:N	2.82	0.43
35:BA:2320:A:H2'	35:BA:2320:A:N3	2.34	0.43
38:BD:95:LEU:HD11	38:BD:105:ILE:HG22	2.00	0.43
35:BA:1403:C:C2'	35:BA:1404:C:O5'	2.67	0.43
15:AO:9:GLN:HB3	15:AO:13:GLN:NE2	2.17	0.43
35:DA:2319:G:C4	35:DA:2320:A:C6	3.06	0.43
35:BA:1613:G:C2'	35:BA:1617:C:N4	2.81	0.43
35:DA:2733:A:H2'	35:DA:2734:A:O4'	2.18	0.43
35:BA:2733:A:H2'	35:BA:2734:A:O4'	2.18	0.43
23:AW:16:C:H6	23:AW:60:A:H2	1.67	0.43
1:CA:32:A:C2	1:CA:33:A:C4	3.07	0.43
38:DD:66:ASP:OD2	38:DD:103:ARG:NH2	2.51	0.43
1:CA:680:C:N3	1:CA:711:G:C2	2.87	0.43
1:CA:107:G:H2'	1:CA:108:G:H5'	1.99	0.43
1:CA:59:A:C2	1:CA:331:G:C2	3.07	0.43
3:AC:180:ALA:O	3:AC:181:ASN:O	2.37	0.43
1:CA:729:A:H2'	1:CA:730:G:C8	2.53	0.43
35:BA:1231:G:H2'	35:BA:1232:G:C8	2.54	0.43
26:B0:40:GLN:HG3	26:B0:57:PHE:HB3	2.00	0.43
35:BA:863:A:OP1	47:BQ:21:THR:HB	2.18	0.43
35:DA:1153:C:C4	35:DA:1154:G:C2	3.07	0.43
35:DA:1315:C:H42	35:DA:1337:G:H1	1.66	0.43
35:DA:1338:G:N3	35:DA:1338:G:H2'	2.34	0.43
35:DA:1720:U:H2'	35:DA:1721:G:C5'	2.49	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:CY:52:LEU:O	25:CY:53:ASN:C	2.56	0.43
35:DA:1635:G:H2'	35:DA:1636:C:H6	1.84	0.43
35:BA:1400:G:H2'	35:BA:1401:G:H8	1.84	0.43
35:DA:431:U:C2'	35:DA:432:A:H5'	2.47	0.43
24:CX:15:G:H5''	24:CX:16:U:OP1	2.19	0.43
46:BP:57:THR:O	46:BP:57:THR:HG22	2.19	0.43
3:AC:73:PRO:O	3:AC:76:VAL:N	2.52	0.43
36:BB:64:C:H2'	36:BB:65:C:C6	2.54	0.43
1:CA:338:A:C4	1:CA:339:C:C5	3.07	0.43
23:CW:33:C:O2	23:CW:37:U:H5	2.01	0.43
45:DO:88:ASN:HB3	45:DO:92:GLU:O	2.19	0.43
53:DW:5:ALA:CB	53:DW:105:VAL:HB	2.48	0.43
13:CM:14:ARG:HB2	13:CM:16:ASP:OD2	2.18	0.43
9:AI:75:ASP:O	9:AI:78:LYS:NZ	2.44	0.43
29:D3:22:ALA:HB1	29:D3:46:ASN:HD22	1.84	0.43
19:CS:24:ALA:O	19:CS:25:LYS:HB2	2.19	0.43
53:BW:69:LEU:HD12	53:BW:69:LEU:N	2.32	0.43
1:AA:783:C:N4	1:AA:784:C:H41	2.16	0.43
1:AA:799:G:H2'	1:AA:800:G:H5'	2.01	0.43
35:BA:1680:U:O2	35:BA:1763:G:H3'	2.18	0.43
38:DD:70:TRP:CZ2	38:DD:150:LYS:HA	2.54	0.43
39:DE:2:LYS:HD3	39:DE:95:ILE:HG22	2.01	0.43
42:DH:79:VAL:O	42:DH:81:GLU:N	2.48	0.43
11:CK:124:LYS:HD2	11:CK:125:PHE:CE1	2.53	0.43
17:CQ:63:ARG:HG2	17:CQ:64:PRO:HD2	2.01	0.43
35:BA:556:G:C5	35:BA:557:U:C4	3.07	0.43
54:BX:89:ILE:O	54:BX:89:ILE:CG2	2.66	0.43
35:BA:2369:A:H2'	35:BA:2370:G:H8	1.84	0.43
35:DA:1491:G:H5'	38:DD:99:ASP:OD1	2.19	0.43
1:AA:129(A):G:N2	1:AA:189(F):U:H5''	2.34	0.43
35:BA:418:G:O2'	35:BA:419:C:H5'	2.19	0.43
51:BU:51:LYS:HE2	51:BU:51:LYS:CA	2.49	0.43
35:BA:2550:G:H2'	35:BA:2551:C:C6	2.54	0.43
1:AA:1237:C:C4'	1:AA:1334:G:N2	2.82	0.43
35:DA:1560:G:C2	35:DA:1561:G:C4	3.07	0.43
9:CI:98:PRO:O	9:CI:100:GLY:N	2.52	0.43
4:CD:138:TYR:C	4:CD:138:TYR:HD2	2.23	0.43
5:AE:64:ARG:HG3	5:AE:64:ARG:HH11	1.84	0.43
35:BA:2447:G:C6	35:BA:2501:C:C2	3.07	0.43
1:CA:1157:A:C1'	1:CA:1181:G:N2	2.81	0.43
1:AA:1157:A:H1'	1:AA:1181:G:N2	2.34	0.43
35:BA:936:C:H2'	35:BA:937:U:C6	2.54	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1544:A:H2'	35:DA:1545:A:OP2	2.19	0.43
51:BU:43:GLY:HA3	52:BV:76:LYS:HB2	2.00	0.43
40:DF:136:THR:O	40:DF:137:LYS:C	2.57	0.43
46:BP:29:LYS:HD2	46:BP:29:LYS:N	2.33	0.43
1:AA:346:G:N3	1:AA:346:G:H2'	2.33	0.43
36:DB:110:G:H2'	36:DB:111:G:H8	1.83	0.43
35:DA:2684:U:C2'	35:DA:2685:G:H5'	2.49	0.43
39:DE:9:VAL:O	39:DE:9:VAL:HG23	2.18	0.43
45:DO:108:GLU:O	45:DO:109:LYS:C	2.57	0.43
1:CA:961:U:C2'	1:CA:962:C:H5'	2.49	0.43
41:DG:16:ARG:HG3	41:DG:16:ARG:HH11	1.83	0.43
38:BD:19:ALA:O	38:BD:21:PHE:HE1	2.01	0.43
38:BD:57:GLY:O	38:BD:58:HIS:O	2.37	0.43
1:CA:865:A:O2'	1:CA:919:A:H5'	2.19	0.43
38:DD:91:ARG:HG2	38:DD:91:ARG:NH1	2.33	0.43
38:DD:81:ALA:H	38:DD:94:LEU:CD1	2.32	0.43
41:DG:125:PHE:HA	41:DG:131:TYR:HB2	2.01	0.43
41:DG:115:ARG:NH1	41:DG:136:ARG:HD2	2.33	0.43
41:DG:40:ASN:CG	41:DG:41:GLN:H	2.23	0.43
34:B8:39:LYS:HG2	34:B8:42:ARG:HH12	1.80	0.43
1:AA:1441:G:O3'	1:AA:1442:G:C8	2.71	0.43
35:BA:1992:G:O2'	35:BA:1993:U:P	2.76	0.43
39:BE:9:VAL:CG1	39:BE:25:VAL:HG12	2.49	0.43
50:BT:53:ARG:O	50:BT:53:ARG:HG2	2.19	0.43
50:BT:65:LYS:HE3	50:BT:66:VAL:H	1.83	0.43
56:BZ:24:LEU:HB2	56:BZ:41:LEU:CD2	2.49	0.43
47:BQ:137:TYR:HE2	56:BZ:76:LEU:CD2	2.32	0.43
51:BU:83:LEU:HD12	51:BU:113:ALA:HB2	2.00	0.43
51:BU:74:LEU:HD22	51:BU:78:THR:CG2	2.49	0.43
42:DH:144:VAL:CG1	42:DH:144:VAL:O	2.65	0.43
9:AI:126:SER:O	9:AI:128:ARG:HD3	2.19	0.43
10:AJ:50:ILE:HD11	14:AN:41:ARG:HH11	1.84	0.43
10:AJ:56:HIS:O	10:AJ:58:ASP:O	2.36	0.43
14:AN:24:CYS:SG	14:AN:39:LEU:HA	2.59	0.43
27:B1:11:ARG:CB	27:B1:12:PRO:CD	2.97	0.43
27:B1:87:PRO:O	27:B1:90:ILE:N	2.34	0.43
27:B1:73:LEU:HD21	27:B1:94:LEU:HB2	1.99	0.43
35:BA:2205:C:H1'	35:BA:2220:G:N2	2.34	0.43
2:AB:211:ILE:O	2:AB:215:LEU:N	2.47	0.43
41:BG:36:LYS:HB3	41:BG:36:LYS:HE2	1.90	0.43
41:BG:85:GLY:C	41:BG:87:PRO:HD2	2.39	0.43
28:D2:25:VAL:O	28:D2:28:LYS:N	2.52	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:71:A:OP2	35:DA:71:A:H3'	2.19	0.43
35:BA:2640:G:C8	35:BA:2640:G:H5'	2.54	0.43
56:DZ:148:ASP:O	56:DZ:149:SER:CB	2.66	0.43
56:DZ:57:ILE:N	56:DZ:57:ILE:CD1	2.79	0.43
51:DU:65:ILE:CD1	51:DU:65:ILE:H	2.31	0.43
51:DU:92:ARG:CG	51:DU:92:ARG:O	2.67	0.43
52:DV:27:ALA:O	52:DV:28:GLU:C	2.58	0.43
10:AJ:5:ARG:HG3	10:AJ:73:ASP:CG	2.39	0.43
10:AJ:8:LEU:HG	10:AJ:96:ILE:CG2	2.49	0.43
3:AC:150:LYS:HB3	3:AC:201:TYR:CB	2.41	0.43
35:DA:2469:A:O2'	47:DQ:56:ARG:HG3	2.19	0.43
49:BS:19:LYS:HB3	49:BS:20:ARG:NH2	2.33	0.43
49:BS:74:ALA:O	49:BS:75:GLU:C	2.58	0.43
49:BS:85:VAL:CG2	49:BS:86:ALA:H	2.17	0.43
4:CD:15:GLU:CD	4:CD:15:GLU:N	2.72	0.43
44:BN:87:LEU:O	44:BN:90:MET:HB2	2.19	0.43
35:BA:224:G:C6	35:BA:225:A:C5	3.07	0.43
40:BF:192:LEU:HD23	40:BF:192:LEU:C	2.39	0.43
46:BP:14:LYS:O	46:BP:15:ARG:CB	2.67	0.43
3:AC:8:ILE:C	3:AC:10:PHE:N	2.72	0.43
34:D8:30:ARG:CG	34:D8:30:ARG:O	2.65	0.43
35:BA:956:G:H5'	35:BA:957:A:OP2	2.19	0.43
48:DR:10:LEU:HD13	48:DR:17:ARG:CZ	2.49	0.43
39:BE:110:GLY:HA2	39:BE:161:GLY:CA	2.30	0.43
1:AA:320:C:O4'	1:AA:1434:A:H2	2.02	0.43
48:BR:53:HIS:C	48:BR:56:LYS:HB2	2.38	0.43
49:DS:28:VAL:O	49:DS:89:ARG:HG2	2.19	0.43
49:DS:36:TYR:O	49:DS:37:ALA:HB2	2.19	0.43
49:DS:54:LEU:O	49:DS:56:LEU:N	2.51	0.43
49:DS:77:ALA:O	49:DS:80:LEU:N	2.44	0.43
2:AB:33:TYR:HB2	2:AB:41:ILE:O	2.19	0.43
44:DN:17:ASP:OD2	44:DN:56:ASN:HB3	2.19	0.43
44:BN:17:ASP:OD2	44:BN:56:ASN:HB3	2.19	0.43
6:CF:24:GLU:HG3	6:CF:25:ILE:HD13	2.00	0.43
6:CF:2:ARG:N	6:CF:67:MET:O	2.50	0.43
15:CO:39:LEU:HD12	15:CO:56:LEU:HD13	2.00	0.43
15:CO:50:HIS:O	15:CO:53:HIS:CB	2.67	0.43
35:DA:818:G:H3'	35:DA:1187:G:H22	1.83	0.43
1:AA:435:C:N3	1:AA:436:C:C5	2.87	0.43
4:AD:102:ASP:HB3	4:AD:136:PRO:HB3	2.00	0.43
1:AA:585:G:O2'	1:AA:879:C:OP1	2.37	0.43
18:AR:36:ASN:HD21	18:AR:40:LEU:HD21	1.84	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1105:A:C2	1:AA:1106:G:N7	2.87	0.43
3:AC:173:VAL:HG12	3:AC:175:LEU:HG	2.01	0.43
35:DA:28:A:C8	35:DA:513:A:C5	3.07	0.43
25:CY:160:GLU:HG3	25:CY:164:ILE:HD11	2.01	0.43
25:CY:31:GLY:O	25:CY:32:ARG:CB	2.67	0.43
25:AY:32:ARG:NH2	25:AY:88:LEU:HG	2.34	0.43
35:BA:1942:C:C4	35:BA:1943:U:C4	3.07	0.43
35:BA:2020:A:C2	35:BA:2035:G:N1	2.87	0.43
33:B7:29:LYS:HZ3	33:B7:32:LYS:HZ2	1.67	0.43
8:AH:122:ARG:NH1	8:AH:122:ARG:CB	2.82	0.43
45:BO:119:PRO:O	45:BO:120:GLU:HB2	2.17	0.43
1:AA:925:G:H1	1:AA:1391:U:H3	1.65	0.43
1:AA:867:G:N2	1:AA:868:C:C2	2.87	0.43
9:CI:118:LYS:CB	9:CI:118:LYS:NZ	2.81	0.43
12:AL:117:ARG:HD2	12:AL:122:THR:HB	2.00	0.43
8:AH:20:TYR:HA	8:AH:65:TYR:CZ	2.50	0.43
18:AR:53:ARG:HH22	18:AR:59:SER:C	2.20	0.43
8:CH:88:LYS:O	8:CH:92:ARG:HD2	2.19	0.43
31:B5:51:TYR:HB3	31:B5:52:TYR:H	1.35	0.43
35:BA:2319:G:C4	35:BA:2320:A:C6	3.07	0.43
46:BP:83:VAL:O	46:BP:83:VAL:HG13	2.19	0.43
35:BA:1983:C:H4'	35:BA:2606:C:H4'	2.01	0.43
35:BA:1266:G:N2	35:BA:2012:G:C4	2.86	0.43
39:BE:201:THR:CG2	39:BE:203:LYS:HB3	2.49	0.43
1:CA:277:C:P	17:CQ:41:LYS:HZ1	2.42	0.43
35:BA:1578:U:O2	35:BA:1578:U:H2'	2.19	0.43
17:CQ:3:LYS:O	17:CQ:4:LYS:C	2.58	0.43
26:D0:26:TYR:C	26:D0:67:VAL:HG11	2.39	0.43
35:BA:1504:C:O2'	35:BA:1505:C:H5'	2.19	0.43
35:BA:270:A:OP2	35:BA:271(X):G:N2	2.47	0.43
1:AA:33:A:H2'	1:AA:34:C:H6	1.83	0.43
1:CA:321:A:O2'	1:CA:322:C:H5'	2.19	0.43
20:CT:12:ALA:C	20:CT:14:LYS:N	2.72	0.43
1:AA:663:A:H2'	1:AA:664:G:C8	2.53	0.43
1:AA:832:C:O2'	1:AA:833:U:P	2.76	0.43
35:DA:1982:C:H2'	35:DA:1983:C:C6	2.54	0.43
35:DA:1369:G:C2	35:DA:1370:C:C6	3.07	0.43
1:CA:1276:G:C2'	1:CA:1277:C:H5'	2.49	0.43
35:DA:349:G:N3	35:DA:349:G:H2'	2.33	0.43
2:CB:24:TRP:CZ3	2:CB:26:PRO:HA	2.54	0.43
1:AA:1296:C:H3'	1:AA:1297:C:C6	2.51	0.43
1:CA:761:G:H2'	1:CA:762:C:H6	1.83	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:863:A:OP1	47:DQ:21:THR:HB	2.19	0.43
56:DZ:77:ASP:O	56:DZ:78:LYS:C	2.58	0.43
56:DZ:79:ARG:C	56:DZ:80:ARG:HG2	2.39	0.43
31:B5:42:PRO:HB2	35:BA:2815:C:HO2'	1.80	0.43
44:BN:137:LYS:CG	44:BN:138:LEU:H	2.27	0.43
19:AS:43:GLU:OE1	19:AS:43:GLU:O	2.36	0.43
19:CS:43:GLU:O	19:CS:43:GLU:OE1	2.36	0.43
19:CS:45:VAL:C	19:CS:47:HIS:H	2.21	0.43
1:AA:696:A:C4	1:AA:697:U:C5	3.07	0.43
1:CA:1416:G:C6	1:CA:1485:U:O2	2.72	0.43
1:AA:1126:U:O2'	1:AA:1127:G:H5'	2.19	0.43
7:CG:23:VAL:C	7:CG:27:ILE:HD13	2.39	0.43
47:BQ:131:ILE:HD13	47:BQ:131:ILE:H	1.80	0.43
41:BG:18:GLU:O	41:BG:22:ARG:HB2	2.19	0.43
35:DA:2075:U:C4	35:DA:2238:G:C6	3.06	0.43
35:BA:826:U:H3'	35:BA:828:U:C6	2.54	0.43
1:CA:652:U:H2'	1:CA:752:G:N1	2.33	0.43
35:BA:1525:G:H2'	35:BA:1526:G:H8	1.83	0.43
47:BQ:22:LYS:NZ	47:BQ:22:LYS:CA	2.81	0.43
47:DQ:22:LYS:NZ	47:DQ:22:LYS:CA	2.82	0.43
35:BA:13:A:H2	35:BA:526:A:C5	2.35	0.43
35:BA:1488:G:N3	35:BA:1488:G:H2'	2.34	0.43
35:DA:1839:G:C4	35:DA:1840:G:C8	3.07	0.43
35:DA:751:A:H62	35:DA:789:A:H62	1.66	0.43
1:AA:38:G:C4	1:AA:397:A:N1	2.87	0.43
35:DA:382:G:H1	35:DA:392:C:H42	1.67	0.43
43:DI:42:SER:C	43:DI:44:LEU:N	2.71	0.43
39:BE:72:VAL:O	39:BE:73:GLU:O	2.37	0.43
35:BA:2083:G:O2'	35:BA:2084:C:H5'	2.19	0.43
35:DA:1745(A):C:H5'	35:DA:1746:G:OP2	2.18	0.43
4:CD:88:VAL:O	4:CD:88:VAL:HG12	2.19	0.43
35:BA:753:C:H6	35:BA:753:C:O5'	2.02	0.43
1:AA:369:C:OP2	1:AA:388:G:N2	2.46	0.43
35:DA:1997:G:C2	35:DA:1998:G:C5	3.07	0.42
35:DA:2727:G:C5	35:DA:2728:U:H5	2.37	0.42
39:DE:9:VAL:HG11	39:DE:25:VAL:HG12	2.00	0.42
50:DT:74:ARG:HG2	50:DT:74:ARG:NH1	2.32	0.42
1:CA:1050:G:H2'	1:CA:1051:C:C6	2.54	0.42
14:CN:39:LEU:HD11	14:CN:47:LEU:CD1	2.49	0.42
35:BA:1566:A:OP1	38:BD:211:ARG:NE	2.51	0.42
38:BD:260:ARG:CZ	38:BD:264:LYS:HD3	2.49	0.42
38:BD:34:VAL:CG2	38:BD:35:LYS:NZ	2.82	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:BD:82:ILE:HA	38:BD:92:ILE:O	2.19	0.42
1:CA:18:C:H2'	1:CA:19:C:H6	1.84	0.42
38:DD:211:ARG:HA	38:DD:214:TRP:CE3	2.54	0.42
41:DG:138:GLN:HB3	41:DG:152:LEU:HD23	2.01	0.42
45:BO:81:ASP:CG	45:BO:81:ASP:O	2.57	0.42
50:BT:28:VAL:HG21	50:BT:46:GLU:OE2	2.19	0.42
50:BT:87:ASP:OD2	50:BT:90:GLN:HG3	2.19	0.42
35:BA:2805:G:H2'	35:BA:2807:G:C8	2.53	0.42
52:BV:39:LEU:O	52:BV:50:PRO:HA	2.19	0.42
14:AN:39:LEU:HD11	14:AN:47:LEU:CD1	2.48	0.42
28:B2:22:GLU:O	28:B2:25:VAL:HG13	2.18	0.42
54:BX:32:PRO:HB3	54:BX:72:LYS:HD2	2.01	0.42
54:BX:40:LYS:C	54:BX:42:ALA:N	2.71	0.42
54:BX:77:LYS:HA	54:BX:77:LYS:CE	2.46	0.42
39:DE:3:GLY:CA	39:DE:81:ILE:HG21	2.49	0.42
35:BA:2223:G:H2'	35:BA:2224:G:C5'	2.48	0.42
41:BG:102:PHE:O	41:BG:106:LEU:HB3	2.19	0.42
41:BG:166:ASP:OD1	41:BG:166:ASP:C	2.57	0.42
35:DA:58:G:N3	35:DA:73:A:H2	2.17	0.42
35:DA:94(A):G:H2'	35:DA:95:G:O4'	2.19	0.42
42:BH:151:ILE:HD13	42:BH:151:ILE:H	1.83	0.42
35:BA:1495:A:OP1	35:BA:1495:A:O4'	2.37	0.42
3:AC:150:LYS:CB	3:AC:201:TYR:HB2	2.40	0.42
4:CD:171:GLY:HA2	4:CD:172:PRO:HD3	1.87	0.42
4:CD:19:LEU:O	4:CD:21:LEU:N	2.46	0.42
4:CD:33:MET:HE3	4:CD:33:MET:HA	2.01	0.42
4:CD:13:ARG:HH22	4:CD:36:ARG:HH11	1.66	0.42
43:DI:79:ILE:C	43:DI:81:VAL:H	2.21	0.42
40:BF:3:GLU:O	40:BF:19:GLU:CB	2.67	0.42
35:BA:660:G:C5'	40:BF:99:TYR:CE2	3.01	0.42
25:AY:36:ALA:C	25:AY:38:LEU:H	2.23	0.42
35:BA:2572:A:C6	39:BE:144:ARG:NH2	2.87	0.42
27:D1:76:ARG:C	27:D1:78:LYS:NZ	2.72	0.42
35:DA:2415:G:C2	35:DA:2416:C:C2	3.07	0.42
35:BA:195:A:N7	35:BA:197:A:OP1	2.52	0.42
35:BA:567:A:N1	35:BA:568:U:O2	2.51	0.42
35:BA:670:A:H5'	35:BA:671:C:OP1	2.19	0.42
35:BA:811:U:OP2	46:BP:24:GLY:HA2	2.19	0.42
40:DF:114:VAL:CG2	40:DF:115:ALA:N	2.73	0.42
48:DR:17:ARG:NH1	48:DR:17:ARG:CG	2.81	0.42
35:DA:1654:A:OP1	48:DR:2:ARG:HB2	2.19	0.42
48:DR:71:GLN:HB2	48:DR:71:GLN:HE21	1.58	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:BR:20:LEU:CG	48:BR:21:TYR:N	2.81	0.42
48:BR:30:THR:OG1	48:BR:75:LEU:HD21	2.19	0.42
48:BR:73:VAL:HG23	48:BR:74:LYS:HD3	2.00	0.42
2:CB:84:GLU:O	2:CB:219:VAL:HG11	2.19	0.42
2:CB:87:ARG:O	2:CB:223:ILE:HD11	2.19	0.42
2:AB:185:ILE:HG22	2:AB:199:TYR:CB	2.45	0.42
35:DA:200:U:H2'	35:DA:201:C:C5'	2.47	0.42
35:DA:2080:G:H2'	35:DA:2081:C:C6	2.54	0.42
44:DN:26:LEU:O	44:DN:30:ILE:HG13	2.19	0.42
44:DN:35:ARG:HD3	44:DN:37:LYS:HD3	2.00	0.42
44:BN:57:ALA:H	44:BN:124:ALA:HA	1.84	0.42
6:CF:27:GLN:O	6:CF:31:GLU:HG3	2.19	0.42
35:DA:809:G:C4'	35:DA:1254:A:H1'	2.48	0.42
46:DP:39:LYS:CD	46:DP:40:SER:N	2.65	0.42
4:AD:56:VAL:C	4:AD:58:LEU:H	2.23	0.42
43:DI:132:PRO:O	43:DI:135:GLU:HG2	2.19	0.42
35:DA:870:A:N1	35:DA:871:U:C2	2.87	0.42
18:AR:29:PHE:HD1	18:AR:39:VAL:HG11	1.83	0.42
1:CA:570:G:C5	1:CA:873:A:C6	3.07	0.42
51:DU:31:SER:HB3	51:DU:34:LYS:CG	2.48	0.42
35:DA:2738:A:C2	35:DA:2739:U:C6	3.07	0.42
2:AB:112:VAL:HG22	2:AB:149:LEU:HD22	2.01	0.42
2:AB:145:LEU:HD13	2:AB:145:LEU:C	2.39	0.42
25:CY:149:LEU:HA	25:CY:153:GLU:OE1	2.18	0.42
35:DA:19:C:H2'	35:DA:20:C:H6	1.84	0.42
1:CA:960:U:C4	1:CA:1225:A:H1'	2.54	0.42
16:AP:39:TYR:HB2	16:AP:49:LEU:HB2	1.99	0.42
51:BU:35:ALA:O	51:BU:36:ARG:C	2.57	0.42
25:AY:143:LEU:C	25:AY:145:LYS:H	2.22	0.42
25:AY:149:LEU:HA	25:AY:153:GLU:OE1	2.19	0.42
33:B7:16:HIS:CE1	35:BA:465:G:C4'	3.02	0.42
33:B7:29:LYS:NZ	33:B7:32:LYS:HZ2	2.17	0.42
35:DA:2262:U:C3'	35:DA:2263:C:H5''	2.49	0.42
35:DA:2283:C:C6	35:DA:2389:G:H2'	2.53	0.42
35:DA:1050:A:O2'	35:DA:2752:C:H1'	2.19	0.42
7:AG:143:ARG:NH1	7:AG:143:ARG:CB	2.81	0.42
1:AA:1307:U:O4'	13:AM:109:THR:HG21	2.19	0.42
8:AH:119:LEU:HB2	8:AH:120:THR:H	1.72	0.42
20:AT:78:ALA:O	20:AT:79:ARG:C	2.56	0.42
18:AR:53:ARG:NH2	18:AR:60:ALA:CA	2.82	0.42
9:AI:92:TYR:HB3	9:AI:95:LYS:HD2	2.00	0.42
8:CH:3:THR:O	8:CH:5:PRO:HD3	2.19	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
31:D5:40:LYS:NZ	31:D5:45:VAL:CA	2.76	0.42
16:AP:14:ASN:OD1	16:AP:16:HIS:HE1	2.02	0.42
9:AI:116:LYS:HA	9:AI:121:ARG:O	2.18	0.42
35:DA:1605:C:C5'	35:DA:1610:A:N6	2.82	0.42
35:DA:779:U:OP1	38:DD:49:ILE:HG23	2.19	0.42
1:AA:1115:C:H2'	1:AA:1116:C:C6	2.54	0.42
6:CF:53:ALA:O	6:CF:54:LYS:HB2	2.18	0.42
35:BA:1271:G:N2	35:BA:1617:C:H4'	2.34	0.42
35:BA:491:G:C4	35:BA:492:A:C8	3.07	0.42
35:DA:2223:G:O2'	35:DA:2224:G:H5'	2.19	0.42
1:CA:113:G:H2'	1:CA:114:U:H6	1.84	0.42
35:DA:2832:U:C5	35:DA:2884:U:H5''	2.54	0.42
1:AA:1459:C:C2'	1:AA:1460:A:H5'	2.49	0.42
17:CQ:67:LYS:C	17:CQ:70:ARG:HH12	2.22	0.42
40:DF:164:ARG:O	40:DF:165:ARG:C	2.58	0.42
1:AA:252:U:H5'	1:AA:253:U:OP2	2.19	0.42
5:AE:76:ILE:CG2	5:AE:78:HIS:O	2.67	0.42
5:AE:91:LEU:HD23	5:AE:110:LEU:HD11	2.00	0.42
16:AP:12:LYS:O	16:AP:13:HIS:CB	2.66	0.42
35:DA:1368:G:C6	35:DA:1369:G:N7	2.87	0.42
1:CA:66:G:O4'	1:CA:173:U:C4	2.72	0.42
35:BA:915:C:H2'	35:BA:916:G:H8	1.83	0.42
35:DA:2763:G:H8	35:DA:2763:G:H5'	1.83	0.42
35:DA:1806:C:H42	35:DA:1812:A:N6	2.17	0.42
1:CA:1088:G:C4	1:CA:1089:G:N7	2.87	0.42
43:DI:51:ILE:HA	43:DI:51:ILE:HD13	1.75	0.42
6:AF:82:ARG:HH11	6:AF:82:ARG:HA	1.84	0.42
45:BO:13:ASN:ND2	45:BO:97:ARG:HG2	2.34	0.42
25:AY:43:VAL:O	25:AY:50:VAL:HG22	2.19	0.42
39:BE:154:LYS:CE	39:BE:154:LYS:HA	2.45	0.42
40:BF:197:ASP:O	40:BF:200:GLU:HB3	2.19	0.42
1:AA:797:C:H2'	1:AA:798:G:H8	1.84	0.42
35:DA:898:C:N3	35:DA:899:A:H1'	2.34	0.42
1:CA:809:G:C2'	1:CA:810:C:O5'	2.66	0.42
27:D1:56:GLN:O	27:D1:57:GLU:HG2	2.19	0.42
53:BW:65:LEU:HD13	53:BW:68:ARG:HD2	2.01	0.42
8:CH:78:GLN:OE1	8:CH:78:GLN:HA	2.19	0.42
52:DV:51:VAL:HG12	52:DV:52:VAL:N	2.33	0.42
29:B3:26:LEU:O	29:B3:28:LEU:HG	2.19	0.42
46:BP:108:LYS:C	46:BP:110:TYR:N	2.70	0.42
35:BA:1553:A:OP1	35:BA:1553:A:H4'	2.19	0.42
46:DP:108:LYS:C	46:DP:110:TYR:N	2.71	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:271(L):U:H5''	35:BA:271(M):G:C4	2.54	0.42
1:AA:619:U:O2	4:AD:135:LEU:HD23	2.19	0.42
35:DA:325:G:H2'	35:DA:326:G:C8	2.50	0.42
1:AA:651:C:O2'	1:AA:652:U:H5'	2.19	0.42
1:AA:828:A:C8	1:AA:859:A:C4	3.07	0.42
1:AA:828:A:C8	1:AA:859:A:C5	3.07	0.42
35:BA:324:A:N6	35:BA:338:G:O2'	2.50	0.42
25:CY:62:ASP:OD1	25:CY:65:THR:HB	2.19	0.42
40:DF:17:ARG:HG3	40:DF:17:ARG:NH1	2.33	0.42
1:CA:1210:C:H4'	1:CA:1214:C:N4	2.34	0.42
1:CA:27:G:H2'	1:CA:28:G:C8	2.53	0.42
53:DW:44:ALA:O	53:DW:45:TYR:C	2.57	0.42
1:CA:1059:C:O2	10:CJ:53:PRO:HG3	2.19	0.42
10:CJ:47:PHE:HD1	10:CJ:47:PHE:O	2.01	0.42
1:CA:1135:U:H2'	1:CA:1137:C:O2	2.18	0.42
35:DA:2716:U:O2'	35:DA:2717:G:H5'	2.19	0.42
35:DA:2723:C:HO2'	35:DA:2724:C:H5'	1.84	0.42
35:DA:2851:A:C6	35:DA:2852:G:C6	3.07	0.42
50:DT:100:TYR:O	50:DT:101:PHE:C	2.57	0.42
35:DA:2685:G:OP1	50:DT:51:ARG:NH2	2.51	0.42
14:CN:33:VAL:HG12	14:CN:34:TYR:H	1.84	0.42
38:BD:45:ASN:OD1	38:BD:48:ARG:O	2.37	0.42
35:DA:1790:C:H3'	35:DA:1828:G:H22	1.84	0.42
38:DD:34:VAL:CG2	38:DD:35:LYS:NZ	2.82	0.42
16:CP:22:THR:HA	16:CP:33:ILE:HG12	2.01	0.42
41:DG:101:ILE:HG23	41:DG:102:PHE:H	1.84	0.42
41:DG:38:VAL:CG1	41:DG:91:ARG:HD3	2.48	0.42
10:CJ:98:ILE:HG22	10:CJ:99:LYS:N	2.34	0.42
47:DQ:38:GLU:HB2	47:DQ:127:ILE:HG23	2.01	0.42
50:BT:51:ARG:O	50:BT:52:ILE:HG23	2.19	0.42
56:BZ:44:PHE:C	56:BZ:44:PHE:CD1	2.93	0.42
35:DA:2052:G:C4	35:DA:2053:G:C8	3.07	0.42
39:BE:28:ALA:O	39:BE:180:ASN:OD1	2.37	0.42
44:BN:41:ASP:CA	51:BU:64:ARG:NH1	2.82	0.42
52:BV:61:VAL:CG1	52:BV:62:LEU:N	2.79	0.42
42:DH:127:GLU:HB2	42:DH:130:ARG:HB3	2.01	0.42
1:AA:1060:C:C5'	14:AN:45:ARG:HH22	2.15	0.42
54:BX:37:THR:HG23	54:BX:54:VAL:HB	2.00	0.42
2:AB:75:LYS:HE3	2:AB:75:LYS:CA	2.49	0.42
2:AB:84:GLU:O	2:AB:219:VAL:HG11	2.19	0.42
41:BG:101:ILE:HD11	41:BG:105:LYS:CE	2.43	0.42
54:DX:83:VAL:C	54:DX:85:PRO:HD3	2.40	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
56:DZ:8:TYR:CA	56:DZ:62:PRO:HG2	2.47	0.42
44:DN:36:GLY:HA3	44:DN:48:MET:SD	2.60	0.42
51:DU:46:ALA:O	51:DU:49:HIS:HB2	2.18	0.42
51:DU:64:ARG:NH2	51:DU:64:ARG:CA	2.82	0.42
51:DU:91:ASP:OD2	51:DU:96:ALA:CB	2.67	0.42
4:CD:152:SER:C	4:CD:154:ASN:H	2.22	0.42
4:CD:177:ASP:O	4:CD:177:ASP:OD1	2.37	0.42
55:BY:43:ASN:CG	55:BY:64:GLU:HA	2.40	0.42
35:BA:615:G:OP2	40:BF:43:LYS:HE2	2.20	0.42
40:BF:109:GLY:C	40:BF:111:ALA:N	2.72	0.42
25:AY:52:LEU:C	25:AY:54:GLN:N	2.70	0.42
25:AY:76:LEU:HG	25:AY:99:LEU:HD21	2.01	0.42
40:DF:46:ARG:HG3	40:DF:48:THR:CG2	2.47	0.42
1:AA:1433:A:C8	1:AA:1468:A:C6	3.06	0.42
1:AA:320:C:HO2'	1:AA:1435:G:H1'	1.84	0.42
20:AT:12:ALA:C	20:AT:14:LYS:H	2.22	0.42
20:AT:24:LEU:O	20:AT:27:LYS:N	2.52	0.42
2:CB:213:LEU:HD22	2:CB:214:ILE:HG12	2.01	0.42
2:AB:164:VAL:O	2:AB:165:VAL:O	2.36	0.42
2:AB:51:LEU:O	2:AB:55:PHE:CD2	2.72	0.42
6:CF:100:ASN:O	18:CR:28:GLU:HB3	2.19	0.42
35:DA:776:G:O6	35:DA:793:A:H2'	2.19	0.42
1:CA:778:G:C2'	1:CA:779:C:H5'	2.49	0.42
35:DA:2618:G:O2'	35:DA:2619:C:H5'	2.19	0.42
25:CY:130:ARG:HG2	25:CY:130:ARG:NH1	2.35	0.42
1:CA:553:A:O2'	1:CA:554:C:H5'	2.20	0.42
44:BN:15:LEU:HD12	44:BN:136:GLU:CB	2.48	0.42
35:BA:744:G:O2'	35:BA:745:G:H5'	2.19	0.42
1:AA:1017:G:C2	1:AA:1018:C:N3	2.88	0.42
25:AY:129:ILE:O	25:AY:132:ILE:N	2.52	0.42
1:CA:939:G:H2'	1:CA:940:C:C6	2.52	0.42
37:BC:44:HIS:CD2	37:BC:175:VAL:HA	2.54	0.42
42:BH:46:GLU:CG	42:BH:51:ARG:HB2	2.50	0.42
55:BY:31:LEU:HD12	55:BY:34:LYS:N	2.35	0.42
2:CB:100:GLY:O	2:CB:104:ASN:C	2.58	0.42
2:CB:105:PHE:O	2:CB:106:LYS:C	2.57	0.42
7:AG:143:ARG:HH11	7:AG:143:ARG:HB3	1.84	0.42
13:AM:116:THR:HG22	13:AM:117:VAL:H	1.80	0.42
35:DA:258:G:C6	35:DA:259:G:C5	3.07	0.42
5:AE:129:ILE:HG22	5:AE:130:ASN:N	2.33	0.42
9:CI:8:GLY:HA3	9:CI:15:ALA:HB3	2.01	0.42
1:AA:536:C:H2'	1:AA:537:G:C8	2.53	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:AH:14:ARG:NH1	8:AH:14:ARG:HB3	2.34	0.42
35:DA:2473:U:O2	35:DA:2473:U:H2'	2.19	0.42
9:AI:3:GLN:HG2	9:AI:20:ARG:HE	1.84	0.42
35:BA:2539:C:O2	35:BA:2539:C:H2'	2.20	0.42
8:CH:7:ALA:HA	8:CH:10:LEU:HG	2.00	0.42
2:AB:170:GLU:C	2:AB:172:ILE:N	2.71	0.42
1:CA:514:C:N4	1:CA:537:G:H1	2.15	0.42
9:CI:53:VAL:HG12	9:CI:95:LYS:CE	2.49	0.42
9:CI:83:ARG:C	9:CI:86:VAL:HG12	2.39	0.42
5:CE:144:THR:C	5:CE:148:VAL:HG23	2.38	0.42
38:BD:105:ILE:O	38:BD:105:ILE:HG23	2.19	0.42
38:BD:72:LYS:HB2	38:BD:97:TYR:HE2	1.84	0.42
51:DU:17:ILE:CA	51:DU:20:LEU:HD23	2.37	0.42
7:CG:63:LYS:HD2	7:CG:63:LYS:HA	1.85	0.42
40:BF:175:THR:HG23	40:BF:175:THR:O	2.19	0.42
1:AA:714:G:N2	1:AA:777:A:H1'	2.27	0.42
35:BA:1613:G:H3'	35:BA:1614:A:H5''	2.01	0.42
17:AQ:92:ARG:O	17:AQ:93:GLN:C	2.56	0.42
38:DD:77:ALA:CB	38:DD:97:TYR:CD1	3.02	0.42
35:BA:1416:G:H1'	35:BA:1417:C:C6	2.54	0.42
12:AL:41:ARG:HH11	12:AL:41:ARG:CB	2.22	0.42
40:DF:139:PHE:O	40:DF:142:TRP:HB3	2.18	0.42
17:AQ:17:LYS:HA	17:AQ:46:ASP:O	2.18	0.42
17:AQ:67:LYS:O	17:AQ:69:LYS:N	2.52	0.42
1:CA:61:G:H2'	1:CA:62:U:O4'	2.19	0.42
20:CT:16:HIS:O	20:CT:19:SER:N	2.52	0.42
20:CT:84:LEU:HD13	20:CT:84:LEU:C	2.38	0.42
53:DW:20:VAL:O	53:DW:21:VAL:C	2.58	0.42
1:AA:91:C:H6	1:AA:91:C:O5'	2.01	0.42
4:AD:3:ARG:HG2	4:AD:3:ARG:HH21	1.85	0.42
35:DA:460:A:C2	35:DA:470:A:C4	3.07	0.42
38:BD:164:GLN:C	38:BD:165:ILE:HD12	2.40	0.42
1:CA:1302:U:O2'	1:CA:1303:C:H5'	2.19	0.42
38:BD:13:ARG:HA	38:BD:13:ARG:HD2	1.95	0.42
29:D3:58:VAL:HG12	29:D3:59:VAL:N	2.33	0.42
35:DA:919:G:N2	35:DA:2269:A:OP2	2.47	0.42
36:DB:82:G:H2'	36:DB:83:G:C8	2.50	0.42
43:DI:48:GLU:CD	43:DI:48:GLU:C	2.77	0.42
35:DA:2464:C:O2'	35:DA:2465:C:P	2.76	0.42
1:CA:1316:G:H2'	1:CA:1317:C:H5'	2.01	0.42
35:BA:2009:G:N1	35:BA:2010:G:N7	2.67	0.42
56:BZ:139:VAL:HG12	56:BZ:141:VAL:N	2.34	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
7:CG:143:ARG:HH11	7:CG:143:ARG:HB3	1.82	0.42
7:CG:143:ARG:CB	7:CG:143:ARG:NH1	2.78	0.42
15:CO:43:LEU:C	15:CO:45:VAL:N	2.72	0.42
10:AJ:94:VAL:CG1	10:AJ:95:GLU:N	2.81	0.42
1:AA:68:G:N2	1:AA:69:G:H1'	2.33	0.42
17:CQ:10:VAL:HG11	17:CQ:53:LEU:HA	2.00	0.42
35:BA:704:G:N3	35:BA:726:G:C2	2.87	0.42
41:BG:14:GLU:O	41:BG:18:GLU:CB	2.66	0.42
35:DA:817:C:H4'	35:DA:932:G:C6	2.54	0.42
42:DH:79:VAL:HG23	42:DH:80:SER:N	2.34	0.42
1:AA:264:U:O2'	17:AQ:64:PRO:HB2	2.18	0.42
1:AA:474:G:H2'	1:AA:475:G:H8	1.83	0.42
35:DA:1210:A:H1'	35:DA:1212:G:C4	2.54	0.42
35:BA:2505:G:H2'	35:BA:2576:G:C6	2.54	0.42
44:DN:82:LEU:H	44:DN:82:LEU:HD12	1.83	0.42
1:AA:651:C:H2'	1:AA:652:U:H6	1.83	0.42
1:AA:828:A:N7	1:AA:859:A:C8	2.86	0.42
35:BA:1669:A:H2'	35:BA:1670:C:H5'	2.01	0.42
46:DP:29:LYS:N	46:DP:29:LYS:CD	2.82	0.42
35:DA:1208:C:C5	35:DA:1209:G:N7	2.87	0.42
35:DA:629:G:O2'	35:DA:630:G:H5'	2.19	0.42
35:BA:982:C:H6	35:BA:982:C:O5'	2.02	0.42
38:BD:88:ARG:HH11	38:BD:88:ARG:HG2	1.84	0.42
27:B1:21:ARG:HH11	27:B1:21:ARG:CG	2.32	0.42
35:DA:1664:A:OP1	35:DA:1665:A:OP2	2.36	0.42
35:DA:2697:G:C2	35:DA:2711:A:C2	3.07	0.42
50:DT:70:VAL:HG12	50:DT:71:GLY:O	2.18	0.42
43:BI:90:GLY:O	43:BI:91:SER:C	2.57	0.42
1:CA:974:A:C8	14:CN:31:ARG:NE	2.87	0.42
35:BA:783:A:H2'	35:BA:784:A:C4'	2.47	0.42
38:BD:211:ARG:HA	38:BD:214:TRP:CE3	2.53	0.42
38:BD:265:PRO:CG	38:BD:266:SER:N	2.82	0.42
38:BD:94:LEU:O	38:BD:94:LEU:CD1	2.65	0.42
35:DA:1797:C:N3	35:DA:1823:G:C6	2.87	0.42
35:DA:1805:U:C2	35:DA:1813:G:C2	3.08	0.42
38:DD:81:ALA:O	38:DD:94:LEU:HD12	2.19	0.42
16:CP:22:THR:HG22	16:CP:32:TYR:CA	2.47	0.42
35:BA:2285:C:H42	35:BA:2383:G:H1	1.67	0.42
35:BA:1666:G:C2'	35:BA:1667:G:H5'	2.49	0.42
56:BZ:56:VAL:HA	56:BZ:70:LEU:CG	2.49	0.42
39:BE:63:LEU:O	39:BE:65:GLY:N	2.52	0.42
44:BN:110:GLY:O	44:BN:111:PRO:C	2.56	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:BN:46:VAL:HG11	44:BN:48:MET:CG	2.47	0.42
44:BN:46:VAL:O	44:BN:47:ALA:CB	2.67	0.42
51:BU:66:ASN:OD1	51:BU:76:TYR:HB2	2.19	0.42
42:DH:94:TYR:CE1	42:DH:160:LYS:HD2	2.54	0.42
10:AJ:48:THR:CB	10:AJ:62:HIS:HB3	2.49	0.42
39:DE:6:GLY:CA	39:DE:27:LEU:O	2.67	0.42
35:BA:2208:A:H1'	35:BA:2219:G:N3	2.34	0.42
41:BG:160:VAL:CG1	41:BG:161:THR:N	2.81	0.42
41:BG:4:ASP:O	41:BG:4:ASP:OD1	2.37	0.42
42:BH:84:SER:O	42:BH:133:VAL:O	2.37	0.42
44:DN:46:VAL:O	44:DN:47:ALA:CB	2.65	0.42
36:BB:115:G:H2'	36:BB:116:G:C8	2.54	0.42
49:BS:20:ARG:HA	49:BS:20:ARG:HD3	1.66	0.42
4:CD:161:ASN:O	4:CD:165:MET:HB2	2.19	0.42
4:CD:17:VAL:CG1	4:CD:18:LYS:N	2.79	0.42
47:BQ:23:GLY:CA	47:BQ:101:ARG:HB2	2.48	0.42
47:BQ:20:ALA:CB	47:BQ:99:PRO:HG2	2.37	0.42
35:DA:2639:A:H3'	35:DA:2640:G:C5'	2.49	0.42
40:BF:111:ALA:O	40:BF:112:MET:C	2.58	0.42
25:AY:52:LEU:O	25:AY:52:LEU:HD23	2.19	0.42
35:BA:2571:C:C2'	35:BA:2571:C:O2	2.67	0.42
35:BA:2574:G:C5	35:BA:2575:C:C5	3.07	0.42
27:D1:53:VAL:HG12	27:D1:58:ILE:HG22	2.00	0.42
27:D1:89:GLU:O	27:D1:93:GLU:OE1	2.36	0.42
35:BA:675:A:C6	35:BA:676:A:C6	3.07	0.42
46:BP:34:GLY:O	46:BP:36:LYS:HG3	2.19	0.42
55:BY:81:LYS:HD3	55:BY:97:ARG:C	2.40	0.42
55:BY:76:CYS:CB	55:BY:96:ILE:HD11	2.49	0.42
47:BQ:70:PRO:HA	47:BQ:95:ALA:HB2	2.00	0.42
47:BQ:43:THR:CA	47:BQ:94:VAL:HG12	2.43	0.42
35:DA:1277:G:H2'	35:DA:1278:A:O4'	2.19	0.42
1:AA:385:C:H2'	1:AA:386:C:C6	2.53	0.42
49:DS:90:GLY:HA2	49:DS:92:TYR:CG	2.53	0.42
44:DN:55:VAL:HG11	44:DN:127:ASP:H	1.84	0.42
15:CO:55:GLY:O	15:CO:59:MET:HG3	2.19	0.42
2:CB:187:LEU:HD22	2:CB:188:ALA:N	2.35	0.42
40:DF:74:ARG:HD2	40:DF:74:ARG:H	1.84	0.42
4:AD:101:LEU:O	4:AD:104:VAL:N	2.52	0.42
46:DP:146:VAL:CG2	46:DP:147:LEU:H	2.04	0.42
1:AA:1220:G:H21	19:AS:54:GLY:HA2	1.84	0.42
4:AD:72:GLU:O	4:AD:76:ARG:N	2.48	0.42
35:DA:868:U:C4	35:DA:869:G:N7	2.88	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:DN:15:LEU:HD13	44:DN:15:LEU:C	2.40	0.42
11:AK:116:HIS:O	11:AK:117:ASN:HB3	2.19	0.42
35:BA:2483:C:N3	47:BQ:124:LYS:NZ	2.65	0.42
35:DA:2023:G:C2	35:DA:2024:G:C5	3.06	0.42
35:DA:296:C:C2'	35:DA:297:C:H5'	2.50	0.42
7:AG:26:PHE:O	7:AG:30:ILE:HG12	2.20	0.42
35:DA:29:U:H2'	35:DA:30:G:H8	1.84	0.42
21:CU:17:THR:O	21:CU:22:ARG:NH1	2.51	0.42
43:BI:133:HIS:CG	43:BI:134:PRO:HD2	2.53	0.42
42:DH:76:VAL:O	42:DH:77:LYS:C	2.57	0.42
35:BA:2261:C:O4'	35:BA:2388:A:H1'	2.19	0.42
46:DP:16:ARG:NH1	46:DP:18:ARG:CG	2.80	0.42
5:CE:112:LEU:O	5:CE:114:GLY:N	2.52	0.42
25:CY:86:SER:O	25:CY:88:LEU:N	2.51	0.42
1:CA:1348:U:H2'	1:CA:1349:A:H8	1.83	0.42
1:AA:1148:U:H2'	1:AA:1149:C:O4'	2.20	0.42
12:CL:48:PRO:HD2	12:CL:49:ASN:OD1	2.18	0.42
1:CA:522:C:N4	12:CL:53:ARG:NH2	2.59	0.42
1:CA:1372:U:OP1	9:CI:71:SER:HB3	2.19	0.42
9:CI:17:VAL:HG22	9:CI:63:ILE:CG2	2.46	0.42
9:CI:70:LYS:O	9:CI:73:GLN:HB2	2.19	0.42
9:CI:92:TYR:N	9:CI:92:TYR:CD1	2.85	0.42
46:BP:82:GLY:HA2	46:BP:113:LYS:O	2.19	0.42
23:AW:10:G:H22	23:AW:27:G:C1'	2.25	0.42
40:BF:160:ASN:ND2	40:BF:160:ASN:C	2.71	0.42
1:AA:777:A:H2'	1:AA:778:G:H8	1.84	0.42
40:BF:178:PRO:O	40:BF:180:GLY:N	2.53	0.42
39:BE:201:THR:HG22	39:BE:202:LYS:N	2.34	0.42
35:BA:19:C:H2'	35:BA:20:C:H6	1.83	0.42
35:BA:2114:A:C3'	35:BA:2115:G:H5'	2.49	0.42
1:CA:1197:G:O2'	1:CA:1198:G:H5'	2.19	0.42
35:BA:2704:C:C2	35:BA:2705:A:C8	3.07	0.42
38:BD:79:VAL:HG12	38:BD:79:VAL:O	2.19	0.42
19:CS:33:THR:HG22	19:CS:49:ILE:HG22	2.01	0.42
26:B0:23:VAL:CG1	26:B0:24:LYS:N	2.82	0.42
35:BA:229:A:H3'	35:BA:230:U:C5'	2.42	0.42
1:AA:1405:G:O2'	1:AA:1406:U:C5'	2.67	0.42
35:BA:2545:G:C2	35:BA:2546:U:C2	3.06	0.42
28:D2:34:GLU:O	28:D2:36:ARG:N	2.51	0.42
2:CB:30:ARG:HG3	2:CB:31:TYR:CD2	2.55	0.42
35:BA:203:C:C6	35:BA:204:A:C8	3.07	0.42
35:DA:1526:G:H2'	35:DA:1527:G:C8	2.54	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
56:BZ:61:LEU:HB2	56:BZ:65:GLN:C	2.39	0.42
52:DV:1:MET:HE2	52:DV:44:LYS:HB3	2.01	0.42
35:DA:2408:U:C6	35:DA:2408:U:OP2	2.73	0.42
36:BB:66:A:O2'	36:BB:67:G:P	2.77	0.42
35:DA:648:G:O4'	35:DA:2351:G:H5''	2.19	0.42
35:BA:1906:G:O2'	35:BA:1907:G:H5'	2.19	0.42
10:AJ:22:LYS:C	10:AJ:22:LYS:HD2	2.39	0.42
1:CA:1376:U:O2'	1:CA:1377:A:H5'	2.18	0.42
15:CO:45:VAL:HG12	15:CO:46:HIS:ND1	2.34	0.42
35:DA:798:G:C6	35:DA:799:G:C6	3.07	0.42
1:AA:696:A:H1'	1:AA:786:G:O2'	2.19	0.42
35:DA:880:G:N1	35:DA:898:C:N4	2.68	0.42
53:DW:65:LEU:HD13	53:DW:68:ARG:HD2	2.01	0.42
35:BA:64:A:C2	35:BA:65:C:C2	3.08	0.42
44:BN:3:THR:C	44:BN:5:VAL:N	2.71	0.42
35:DA:817:C:O2'	35:DA:839:U:OP1	2.36	0.42
43:BI:25:TYR:O	43:BI:30:LEU:HG	2.20	0.42
29:B3:22:ALA:HB1	29:B3:46:ASN:HD22	1.84	0.42
56:BZ:163:LEU:HD23	56:BZ:163:LEU:H	1.81	0.42
35:BA:372:G:HO2'	35:BA:373:U:P	2.41	0.42
35:DA:2517:C:C6	35:DA:2542:A:N1	2.87	0.42
37:BC:56:GLN:NE2	37:BC:169:GLY:H	2.17	0.42
38:DD:203:ASN:O	38:DD:204:ILE:C	2.57	0.42
1:AA:125:U:H2'	1:AA:126:G:H8	1.84	0.42
36:BB:43:C:H4'	41:BG:66:GLN:NE2	2.34	0.42
35:DA:2785:C:H2'	35:DA:2786:U:H6	1.83	0.42
41:DG:80:PHE:O	41:DG:81:LYS:CB	2.68	0.42
6:CF:97:PHE:N	18:CR:30:ASP:OD1	2.52	0.42
35:DA:2594:C:H2'	35:DA:2595:G:O4'	2.18	0.42
4:AD:138:TYR:C	4:AD:138:TYR:HD2	2.23	0.42
35:DA:2768:C:C2'	35:DA:2769:C:H5'	2.49	0.42
6:AF:42:GLU:C	6:AF:44:GLY:H	2.22	0.42
35:DA:1560:G:H2'	35:DA:1561:G:C8	2.54	0.42
1:CA:482:A:H3'	1:CA:483:C:C6	2.54	0.42
35:DA:2228:G:C5	35:DA:2229:C:C5	3.07	0.42
35:BA:937:U:H2'	35:BA:938:G:O4'	2.19	0.42
35:DA:2374:C:O2'	35:DA:2375:G:H5'	2.19	0.42
35:BA:593:G:H2'	35:BA:594:U:H6	1.83	0.42
1:CA:353:A:H5'	1:CA:353:A:H8	1.84	0.42
35:BA:139(A):G:N2	54:BX:44:GLU:OE1	2.52	0.42
8:CH:95:VAL:HG22	8:CH:131:GLY:O	2.20	0.42
13:CM:4:ILE:HG22	13:CM:5:ALA:H	1.84	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
45:DO:102:VAL:HB	45:DO:106:LEU:HD11	2.02	0.42
45:DO:6:THR:O	45:DO:20:MET:HA	2.19	0.42
50:DT:28:VAL:HG11	50:DT:46:GLU:CD	2.38	0.42
50:DT:80:SER:O	50:DT:81:PRO:C	2.55	0.42
19:CS:78:ARG:HH11	19:CS:78:ARG:HG3	1.84	0.42
41:DG:18:GLU:O	41:DG:22:ARG:HB3	2.19	0.42
35:BA:1797:C:H2'	35:BA:1798:U:H6	1.84	0.42
38:BD:92:ILE:CD1	38:BD:92:ILE:C	2.88	0.42
1:CA:1079:G:H2'	1:CA:1080:A:H8	1.82	0.42
1:CA:15:G:C4	1:CA:16:A:C8	3.08	0.42
41:DG:102:PHE:HD1	41:DG:106:LEU:HD22	1.83	0.42
41:DG:70:VAL:HG23	41:DG:70:VAL:O	2.20	0.42
1:AA:1442(A):G:C2	50:BT:118:ARG:HB2	2.55	0.42
35:BA:1952:A:C6	35:BA:1953:A:C6	3.07	0.42
45:BO:6:THR:CG2	45:BO:7:TYR:N	2.74	0.42
45:BO:87:ILE:HG13	45:BO:91:LEU:HD13	2.00	0.42
50:BT:51:ARG:O	50:BT:61:PHE:HB2	2.20	0.42
56:BZ:100:VAL:O	56:BZ:123:ASP:HA	2.19	0.42
35:DA:1495:A:OP2	35:DA:1495:A:O4'	2.37	0.42
35:BA:1003:G:N2	35:BA:1153:C:C2	2.87	0.42
35:BA:1153:C:C4	35:BA:1154:G:C2	3.07	0.42
51:BU:95:LEU:HD23	51:BU:95:LEU:HA	1.89	0.42
51:BU:97:ASP:O	51:BU:100:VAL:HG23	2.19	0.42
52:BV:34:GLU:O	52:BV:62:LEU:HG	2.19	0.42
42:DH:94:TYR:CZ	42:DH:160:LYS:HD2	2.55	0.42
54:BX:60:ARG:HE	54:BX:74:PRO:CG	2.33	0.42
39:DE:44:TYR:CE2	39:DE:46:ALA:HB2	2.55	0.42
39:DE:53:PRO:O	39:DE:55:ASN:OD1	2.36	0.42
41:BG:156:ASP:O	41:BG:157:ILE:C	2.57	0.42
41:BG:133:LEU:O	41:BG:157:ILE:O	2.36	0.42
41:BG:167:GLU:O	41:BG:170:ARG:HB3	2.19	0.42
42:BH:121:ILE:HG22	42:BH:133:VAL:CG1	2.49	0.42
56:DZ:40:ASP:OD1	56:DZ:42:VAL:HG13	2.18	0.42
56:DZ:56:VAL:CG1	56:DZ:57:ILE:N	2.82	0.42
35:DA:537:C:C2	35:DA:538:G:C8	3.06	0.42
51:DU:57:PHE:CD1	51:DU:60:LEU:HD12	2.54	0.42
44:DN:41:ASP:CA	51:DU:64:ARG:NH1	2.83	0.42
52:DV:20:LEU:N	52:DV:20:LEU:HD12	2.35	0.42
52:DV:36:PRO:HG2	52:DV:60:GLU:CD	2.39	0.42
4:CD:111:ALA:HA	4:CD:116:GLN:OE1	2.19	0.42
4:CD:120:LEU:N	4:CD:120:LEU:CD1	2.69	0.42
4:CD:150:GLU:O	4:CD:153:ARG:N	2.51	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1019:U:H3	35:BA:1142(A):A:N6	2.03	0.42
44:DN:70:LYS:HG2	44:DN:87:LEU:HD23	2.02	0.42
35:BA:510:C:OP1	35:BA:511:U:OP2	2.37	0.42
35:BA:562:U:O2'	35:BA:563:G:H5''	2.19	0.42
51:BU:10:ARG:O	51:BU:11:ARG:C	2.58	0.42
48:BR:53:HIS:O	48:BR:56:LYS:HB3	2.19	0.42
50:BT:108:ARG:HH11	50:BT:108:ARG:CB	2.32	0.42
1:CA:908:A:N3	1:CA:909:A:C8	2.87	0.42
49:DS:74:ALA:HB2	49:DS:101:LEU:HD11	2.00	0.42
27:D1:26:ARG:HB3	27:D1:34:THR:OG1	2.20	0.42
35:DA:201:C:H2'	35:DA:202:U:H5'	2.00	0.42
1:CA:659:U:C2	1:CA:660:G:C8	3.07	0.42
15:CO:36:ILE:O	15:CO:37:ASN:C	2.57	0.42
2:CB:167:PRO:O	2:CB:170:GLU:N	2.42	0.42
35:DA:1187:G:H8	35:DA:1187:G:O5'	2.03	0.42
40:DF:83:PHE:O	40:DF:84:VAL:C	2.57	0.42
46:DP:35:HIS:O	46:DP:35:HIS:CD2	2.72	0.42
35:DA:83:G:C4	35:DA:102:G:N2	2.88	0.42
55:DY:31:LEU:CD1	55:DY:34:LYS:N	2.79	0.42
35:BA:404:C:C3'	35:BA:405:U:H5'	2.47	0.42
47:DQ:70:PRO:O	47:DQ:71:ASP:HB3	2.19	0.42
6:AF:96:PRO:HB3	18:AR:30:ASP:CG	2.39	0.42
2:AB:113:HIS:C	2:AB:115:LEU:N	2.73	0.42
35:BA:742:G:H1	35:BA:756:C:N4	2.17	0.42
35:BA:1409:C:O2	35:BA:1594:G:N2	2.52	0.42
25:AY:7:TYR:CD2	25:AY:160:GLU:HG2	2.54	0.42
1:CA:600:C:C4	1:CA:639:G:N1	2.88	0.42
26:B0:16:SER:HB3	35:BA:2261:C:H3'	2.02	0.42
35:DA:618:C:H2'	35:DA:619:G:C8	2.54	0.42
25:CY:76:LEU:O	25:CY:79:ILE:HB	2.20	0.42
43:DI:38:LEU:HD12	43:DI:38:LEU:N	2.11	0.42
1:AA:537:G:OP1	12:AL:113:ARG:NH2	2.52	0.42
1:AA:522:C:N4	12:AL:53:ARG:NH2	2.58	0.42
1:CA:807:A:H2'	1:CA:808:C:C6	2.54	0.42
12:AL:102:ARG:CD	12:AL:108:ALA:O	2.67	0.42
1:CA:536:C:H2'	1:CA:537:G:C8	2.54	0.42
9:CI:4:TYR:H	9:CI:4:TYR:HD1	1.67	0.42
38:BD:69:ARG:NH2	38:BD:128:GLY:O	2.53	0.42
46:BP:126:VAL:HG22	46:BP:145:PRO:CB	2.48	0.42
1:CA:453:A:C6	1:CA:454:C:C4	3.08	0.42
23:AW:28:U:O4	23:AW:44:A:N1	2.53	0.42
35:BA:1982:C:H3'	35:BA:1982:C:OP1	2.20	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2704:C:C5	35:DA:2705:A:N7	2.87	0.42
1:CA:1423:G:H5'	45:DO:49:ARG:NH2	2.34	0.42
35:BA:1416:G:HO2'	35:BA:1417:C:H6	1.64	0.42
5:AE:135:THR:O	5:AE:138:ALA:HB3	2.19	0.42
32:D6:15:GLU:CD	32:D6:18:ARG:HG3	2.40	0.42
35:BA:271(V):G:H2'	35:BA:271(W):G:C8	2.54	0.42
1:CA:106:C:O2'	1:CA:107:G:H5'	2.19	0.42
29:B3:40:THR:HA	29:B3:44:ARG:CZ	2.48	0.42
35:DA:1847:A:N3	35:DA:1847:A:C2'	2.81	0.42
13:AM:69:GLU:HB2	13:AM:72:ALA:HB3	2.01	0.42
35:BA:1340:U:C5	35:BA:1603:A:C1'	3.02	0.42
36:BB:97:G:C2	36:BB:98:G:C8	3.07	0.42
1:AA:723:U:H5''	1:AA:724:G:OP2	2.18	0.42
32:B6:22:ALA:HB2	32:B6:39:TYR:CE2	2.54	0.42
7:AG:47:CYS:C	7:AG:58:PRO:HG3	2.40	0.42
11:CK:104:GLN:O	11:CK:106:LYS:N	2.52	0.42
35:DA:1710:C:H2'	35:DA:1711:C:H6	1.82	0.42
35:DA:213:A:C2'	35:DA:214:G:H5'	2.50	0.42
1:CA:1271:G:C5'	1:CA:1314:C:H5''	2.43	0.42
43:BI:48:GLU:CD	43:BI:48:GLU:C	2.78	0.42
53:BW:50:VAL:HG13	53:BW:51:LEU:N	2.34	0.42
35:BA:481:G:O2'	35:BA:482:A:H8	2.02	0.42
35:DA:920:G:O2'	35:DA:921:G:H5'	2.19	0.42
35:BA:2508:G:H2'	35:BA:2509:G:H8	1.83	0.42
1:AA:243:A:C2	1:AA:246:A:C8	3.06	0.42
7:AG:18:TYR:HE1	7:AG:44:TYR:CE2	2.38	0.42
7:AG:27:ILE:HG23	7:AG:40:ALA:N	2.34	0.42
35:BA:704:G:O2'	35:BA:726:G:N2	2.46	0.42
1:AA:189(I):G:H2'	1:AA:189(J):G:H8	1.83	0.42
35:DA:1853:A:H2'	35:DA:1854:A:C8	2.54	0.42
27:D1:56:GLN:NE2	27:D1:57:GLU:HB2	2.34	0.42
53:BW:65:LEU:HD22	53:BW:68:ARG:H	1.85	0.42
35:BA:2066:C:O2'	35:BA:2067:G:H5'	2.18	0.42
1:CA:1006:C:H2'	1:CA:1007:C:H6	1.84	0.42
1:AA:474:G:O2'	1:AA:475:G:H5'	2.20	0.42
35:DA:737:C:H2'	35:DA:738:G:O5'	2.18	0.42
29:D3:1:MET:O	29:D3:3:ARG:N	2.53	0.42
35:DA:39:C:C4	35:DA:40:C:N4	2.87	0.42
35:BA:68:G:N3	35:BA:68:G:H2'	2.34	0.42
35:DA:13:A:N6	35:DA:525:U:C5	2.87	0.42
2:CB:118:LEU:O	2:CB:119:GLU:C	2.58	0.42
35:DA:2548:G:C6	35:DA:2561:A:N1	2.87	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2658:C:N4	35:BA:2664:G:N2	2.68	0.42
35:BA:2768:C:C2'	35:BA:2769:C:H5'	2.50	0.42
36:BB:87:G:C2'	36:BB:88:C:H5''	2.49	0.42
1:AA:577:G:H1'	1:AA:816:A:N3	2.34	0.42
7:AG:130:GLY:C	7:AG:132:GLY:H	2.22	0.42
1:AA:594:G:H2'	1:AA:595:G:O4'	2.20	0.42
35:DA:749:C:C4	35:DA:1618:A:C2	3.07	0.42
35:BA:1956:U:C2'	35:BA:1957:C:H5'	2.49	0.42
35:BA:479:A:H61	35:BA:503:A:H61	1.67	0.42
5:AE:60:TYR:HE2	5:AE:64:ARG:NE	2.16	0.42
1:CA:1157:A:H1'	1:CA:1181:G:H21	1.85	0.42
35:DA:1283:G:N2	35:DA:1285:G:H3'	2.34	0.42
46:BP:29:LYS:CD	46:BP:29:LYS:N	2.82	0.42
3:AC:33:LEU:O	3:AC:36:ASP:HB3	2.19	0.42
34:B8:18:ALA:HB3	35:BA:651:G:H4'	2.01	0.42
7:CG:97:GLN:O	7:CG:98:SER:C	2.57	0.42
35:BA:2256:G:H2'	35:BA:2257:U:C6	2.55	0.42
27:D1:30:VAL:O	27:D1:30:VAL:HG12	2.19	0.42
12:AL:125:PRO:HG2	12:AL:125:PRO:O	2.19	0.42
36:DB:70:C:O2'	36:DB:71:C:H5'	2.17	0.42
35:DA:1973:G:H2'	35:DA:1974:C:C6	2.54	0.42
1:CA:1441:G:H5''	1:CA:1442:G:O4'	2.19	0.42
35:DA:1755:A:H2	35:DA:2716:U:C1'	2.25	0.42
45:DO:104:ARG:NH1	45:DO:104:ARG:CB	2.78	0.42
50:DT:108:ARG:HH11	50:DT:108:ARG:CB	2.33	0.42
50:DT:74:ARG:C	50:DT:75:ILE:HD12	2.40	0.42
43:BI:118:LYS:HZ2	43:BI:119:PRO:HD2	1.84	0.42
43:BI:80:PRO:O	43:BI:81:VAL:C	2.58	0.42
1:CA:1050:G:N2	1:CA:1209:C:H1'	2.34	0.42
53:DW:29:LEU:HD21	53:DW:33:ARG:HH21	1.84	0.42
1:AA:774:G:H5'	38:BD:202:LYS:NZ	2.34	0.42
35:BA:1779:U:H5	35:BA:1784:A:N7	2.14	0.42
35:BA:1794:U:O2'	35:BA:1900:A:O2'	2.35	0.42
38:BD:243:GLY:O	38:BD:244:ARG:HB3	2.19	0.42
38:BD:271:ILE:O	38:BD:272:ALA:O	2.36	0.42
38:BD:46:GLN:OE1	38:BD:46:GLN:N	2.52	0.42
38:DD:34:VAL:CG2	38:DD:35:LYS:HZ2	2.32	0.42
41:DG:36:LYS:O	41:DG:159:VAL:HA	2.19	0.42
34:B8:40:GLU:CD	34:B8:44:LYS:HE3	2.39	0.42
35:BA:1989:G:C2'	35:BA:1990:C:H5'	2.50	0.42
35:BA:1663:C:N3	35:BA:1992:G:O6	2.52	0.42
45:BO:43:VAL:C	45:BO:45:GLU:N	2.73	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
47:BQ:115:MET:CE	47:BQ:133:ARG:HH21	2.33	0.42
56:BZ:99:TYR:HB3	56:BZ:100:VAL:H	1.64	0.42
56:BZ:6:LYS:CE	56:BZ:6:LYS:H	2.29	0.42
47:BQ:141:GLN:OE1	56:BZ:70:LEU:CB	2.68	0.42
35:DA:1416:G:H1'	35:DA:1417:C:C6	2.55	0.42
35:BA:1152:C:HO2'	51:BU:76:TYR:HE2	1.66	0.42
35:BA:559:G:O2'	35:BA:560:C:H5'	2.19	0.42
44:BN:12:ARG:NH2	44:BN:39:ARG:NH1	2.67	0.42
51:BU:46:ALA:O	51:BU:49:HIS:HB2	2.20	0.42
35:BA:60:G:H21	35:BA:74:A:H2'	1.85	0.42
54:BX:82:GLN:O	54:BX:85:PRO:HD2	2.19	0.42
35:DA:2787:C:H2'	35:DA:2787:C:O2	2.20	0.42
39:DE:87:GLU:O	39:DE:88:GLY:O	2.37	0.42
27:B1:16:ASN:ND2	27:B1:17:SER:O	2.52	0.42
41:BG:43:LEU:HD23	41:BG:44:GLY:N	2.24	0.42
54:DX:57:LEU:CB	54:DX:76:ARG:HD2	2.43	0.42
54:DX:81:VAL:O	54:DX:82:GLN:O	2.37	0.42
56:DZ:48:PHE:CE1	56:DZ:52:SER:HA	2.54	0.42
35:DA:1159:U:H2'	35:DA:1160:G:C5'	2.48	0.42
51:DU:101:ARG:C	51:DU:102:GLU:HG2	2.39	0.42
1:AA:1123:A:C4'	10:AJ:36:GLY:HA3	2.16	0.42
1:CA:1190:G:OP2	3:CC:5:ILE:HG23	2.19	0.42
35:BA:1863:G:H1	35:BA:1879:C:H42	1.66	0.42
49:BS:87:PHE:HB2	49:BS:106:ARG:HD3	2.00	0.42
49:BS:28:VAL:C	49:BS:89:ARG:HG2	2.39	0.42
1:CA:544:G:C4	1:CA:545:C:C5	3.07	0.42
43:DI:80:PRO:O	43:DI:81:VAL:C	2.58	0.42
39:BE:134:ILE:N	39:BE:134:ILE:CD1	2.80	0.42
27:D1:71:TYR:O	27:D1:74:VAL:N	2.52	0.42
34:D8:39:LYS:NZ	34:D8:40:GLU:HA	2.35	0.42
35:BA:1165:U:O2'	35:BA:1166:C:H5'	2.20	0.42
55:BY:76:CYS:CB	55:BY:77:PRO:CD	2.98	0.42
48:DR:28:LEU:C	48:DR:30:THR:N	2.72	0.42
48:DR:59:ASP:O	48:DR:61:HIS:N	2.53	0.42
48:DR:73:VAL:HG23	48:DR:74:LYS:H	1.84	0.42
48:BR:9:LYS:O	48:BR:10:LEU:CD2	2.67	0.42
36:DB:7:G:C5'	49:DS:29:PHE:HE2	2.33	0.42
36:DB:7:G:C4'	49:DS:29:PHE:CE2	2.95	0.42
2:AB:36:ARG:HG3	2:AB:37:ASN:N	2.34	0.42
2:AB:51:LEU:HB3	2:AB:55:PHE:CE2	2.51	0.42
44:BN:123:TYR:CD1	44:BN:123:TYR:N	2.87	0.42
6:CF:100:ASN:OD1	18:CR:26:LEU:O	2.36	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
15:CO:82:ILE:HG23	15:CO:83:GLU:N	2.33	0.42
18:CR:40:LEU:O	18:CR:43:PHE:N	2.52	0.42
2:CB:168:THR:O	2:CB:169:LYS:C	2.56	0.42
35:DA:2071:A:H2'	35:DA:2072:G:C8	2.54	0.42
4:AD:30:LYS:HB3	4:AD:35:ARG:HD2	2.01	0.42
43:DI:111:PRO:HA	43:DI:114:LEU:CD1	2.48	0.42
47:BQ:54:MET:HG3	47:BQ:64:ILE:CD1	2.50	0.42
35:DA:2029:G:H2'	35:DA:2031:A:OP2	2.19	0.42
35:DA:2736:G:C4	35:DA:2737:G:C8	3.07	0.42
42:DH:19:VAL:CG1	42:DH:20:ALA:N	2.83	0.42
25:CY:152:ASP:OD2	26:D0:5:LYS:CB	2.67	0.42
1:CA:551:U:O2'	12:CL:86:ARG:HD2	2.19	0.42
1:CA:1225:A:H2'	1:CA:1225:A:N3	2.34	0.42
1:AA:376:G:H5''	16:AP:5:ARG:HB2	2.01	0.42
16:AP:38:TYR:CE1	16:AP:50:LYS:HB3	2.55	0.42
16:AP:67:THR:CG2	16:AP:69:THR:HG23	2.49	0.42
20:CT:35:THR:O	20:CT:36:LEU:C	2.58	0.42
25:AY:131:ASN:C	25:AY:133:ARG:H	2.23	0.42
25:AY:15:GLN:HA	25:AY:15:GLN:OE1	2.20	0.42
51:BU:21:ALA:O	51:BU:22:LYS:C	2.58	0.42
11:CK:26:ASN:O	11:CK:27:ASN:CB	2.68	0.42
35:BA:2250:G:H8	35:BA:2496:C:H5''	1.84	0.42
35:BA:307:G:N2	35:BA:309:G:H3'	2.34	0.42
35:DA:225:A:H2'	35:DA:226:G:O4'	2.19	0.42
35:DA:660:G:H4'	40:DF:38:ARG:NH1	2.34	0.42
5:AE:67:VAL:HG22	5:AE:68:GLU:O	2.20	0.42
2:CB:112:VAL:HG22	2:CB:149:LEU:HD22	2.01	0.42
12:AL:119:LYS:C	12:AL:121:GLY:N	2.73	0.42
9:AI:83:ARG:HA	9:AI:86:VAL:HG12	2.00	0.42
56:DZ:19:ARG:NH2	56:DZ:84:GLU:OE2	2.53	0.42
12:AL:55:VAL:CG1	12:AL:56:ALA:N	2.80	0.42
46:DP:80:TYR:CE1	46:DP:111:ARG:HG2	2.55	0.42
38:BD:134:ARG:HB2	38:BD:135:PHE:H	1.64	0.42
35:BA:637:A:OP2	46:BP:115:LEU:HB2	2.19	0.42
16:CP:73:LEU:CD2	16:CP:73:LEU:N	2.81	0.42
56:BZ:19:ARG:NH1	56:BZ:19:ARG:CB	2.82	0.42
35:BA:1786:A:N9	35:BA:1938:A:N6	2.59	0.42
19:CS:53:ASN:HD22	19:CS:55:LYS:H	1.66	0.42
33:B7:2:LYS:HG2	35:BA:1620:G:O2'	2.19	0.42
14:AN:8:GLU:C	14:AN:10:ALA:N	2.72	0.42
35:DA:768:G:O2'	35:DA:1379:A:N6	2.51	0.42
39:DE:201:THR:HG22	39:DE:203:LYS:HB3	2.01	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
23:AW:16:C:H1'	23:AW:61:U:H1'	2.01	0.42
1:CA:36:C:O2'	1:CA:37:U:H5'	2.19	0.42
35:DA:2832:U:C2	35:DA:2834:G:N2	2.87	0.42
1:CA:277:C:OP1	17:CQ:41:LYS:HE3	2.19	0.42
35:DA:1300:U:O2	35:DA:1626:G:C4	2.72	0.42
1:CA:1054:C:OP1	1:CA:1197:G:OP2	2.37	0.42
35:DA:1980:G:C2	35:DA:1982:C:C4	3.07	0.42
5:CE:80:ILE:CD1	5:CE:91:LEU:HB2	2.49	0.42
35:BA:2627:G:C2	35:BA:2781:A:H2	2.37	0.42
35:DA:1619:G:C2	35:DA:1620:G:C8	3.08	0.42
35:DA:2186:G:H3'	35:DA:2187:G:H5''	2.01	0.42
35:DA:746:A:C5	35:DA:2611:U:H5''	2.54	0.42
1:AA:896:C:O2'	1:AA:897:C:H5'	2.19	0.42
35:DA:347:A:H2'	35:DA:348:G:H8	1.80	0.42
36:BB:99:G:O2'	36:BB:100:A:O4'	2.31	0.42
35:BA:1300:U:C2	35:BA:1626:G:C4	3.08	0.42
35:DA:229:A:H3'	35:DA:230:U:C5'	2.43	0.42
35:DA:2817:G:N2	35:DA:2836:U:H1'	2.27	0.42
35:DA:1711:C:H2'	35:DA:1712:C:C6	2.54	0.42
1:AA:1271:G:C5'	1:AA:1314:C:H5''	2.42	0.42
48:DR:7:GLY:O	48:DR:8:ARG:O	2.37	0.42
5:AE:152:ARG:HG2	8:AH:43:GLY:O	2.18	0.42
35:DA:2407:G:C2	35:DA:2408:U:C4	3.07	0.42
35:BA:2290:G:H1	35:BA:2342:C:N4	2.17	0.42
53:BW:35:ILE:HD13	53:BW:35:ILE:HA	1.88	0.42
35:BA:1034:G:C2	35:BA:1122:G:H1'	2.54	0.42
10:AJ:32:ALA:N	10:AJ:78:ASN:HD21	2.17	0.42
12:CL:76:ASN:C	12:CL:77:LEU:HD23	2.40	0.42
35:BA:2508:G:C2	35:BA:2582:G:C6	3.08	0.42
40:DF:32:LEU:CD2	40:DF:33:LEU:N	2.82	0.42
25:CY:72:ASP:O	25:CY:75:ALA:N	2.52	0.42
1:CA:783:C:N4	1:CA:784:C:H41	2.17	0.42
4:AD:192:GLU:C	4:AD:194:LEU:N	2.72	0.42
3:AC:58:GLU:HB2	3:AC:65:ALA:HB2	2.00	0.42
7:CG:15:ASP:HB3	7:CG:20:ASP:H	1.85	0.42
7:CG:16:LEU:HD11	9:CI:42:ARG:HA	2.01	0.42
8:AH:78:GLN:OE1	8:AH:78:GLN:HA	2.20	0.42
1:AA:1155:G:H2'	1:AA:1156:G:H5'	2.01	0.42
35:DA:1680:U:O2	35:DA:1763:G:H3'	2.19	0.42
43:BI:28:ASN:C	43:BI:32:PRO:HG2	2.39	0.42
43:BI:25:TYR:CE2	43:BI:29:TYR:CD2	3.07	0.42
1:CA:785:G:C2'	1:CA:786:G:H5'	2.50	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:826:U:H2'	35:BA:828:U:O4'	2.20	0.42
35:BA:438:G:H2'	35:BA:440:G:C8	2.54	0.42
1:CA:751:U:H2'	1:CA:752:G:H5'	2.02	0.42
54:BX:88:LYS:HB3	54:BX:89:ILE:HD12	2.02	0.42
54:BX:89:ILE:HA	54:BX:92:LEU:HB2	2.02	0.42
35:DA:1764:G:O2'	35:DA:1765:C:H5'	2.19	0.42
35:BA:2023:G:O2'	35:BA:2024:G:H5'	2.20	0.42
1:CA:868:C:H2'	1:CA:869:G:O4'	2.19	0.42
13:AM:43:THR:HB	13:AM:44:ARG:H	1.60	0.42
35:BA:948:G:H1'	35:BA:984:A:C2	2.54	0.42
1:CA:574:A:HO2'	1:CA:882:C:HO2'	1.67	0.42
35:BA:1912:A:C2	35:BA:1919:A:C5	3.07	0.42
35:DA:1354:A:H2'	35:DA:1355:G:H5'	2.01	0.42
35:DA:2531:A:C2	35:DA:2658:C:O2	2.73	0.42
35:BA:1267:U:O2	35:BA:1267:U:C2'	2.65	0.42
15:AO:43:LEU:C	15:AO:45:VAL:N	2.72	0.42
7:AG:133:GLY:HA2	7:AG:136:LYS:HG2	2.01	0.42
20:CT:93:GLU:N	20:CT:93:GLU:OE1	2.52	0.42
1:AA:39:G:O2'	1:AA:40:C:H5'	2.20	0.42
1:AA:27:G:H2'	1:AA:28:G:C8	2.54	0.42
35:DA:253:C:C2'	35:DA:254:G:H5'	2.49	0.42
35:BA:218:A:O2'	35:BA:219:G:H5'	2.19	0.42
46:DP:98:GLU:HA	46:DP:98:GLU:OE1	2.20	0.42
17:AQ:6:LEU:HD23	17:AQ:6:LEU:HA	1.90	0.42
36:DB:39:A:H2'	36:DB:39:A:N3	2.35	0.42
35:DA:2866:U:C6	35:DA:2868:A:C1'	3.02	0.42
45:DO:104:ARG:NH2	50:DT:33:LYS:CE	2.82	0.42
45:DO:62:VAL:O	45:DO:63:VAL:CG1	2.67	0.42
50:DT:119:LYS:O	50:DT:123:GLN:HG2	2.19	0.42
50:DT:50:ILE:HD11	50:DT:64:ARG:HB3	2.02	0.42
35:BA:1789:A:O2'	35:BA:1790:C:H5'	2.19	0.42
38:BD:96:HIS:ND1	38:BD:102:LYS:HD2	2.35	0.42
38:DD:265:PRO:O	38:DD:266:SER:C	2.58	0.42
41:DG:107:LEU:HD23	41:DG:111:LEU:CD1	2.49	0.42
35:BA:2287:A:N6	35:BA:2344:U:N3	2.68	0.42
35:BA:2679:A:C6	35:BA:2680:C:C4	3.07	0.42
35:BA:2864:G:OP1	50:BT:119:LYS:HD2	2.19	0.42
50:BT:52:ILE:HA	50:BT:61:PHE:HA	2.01	0.42
56:BZ:129:SER:HA	56:BZ:130:PRO:HD3	1.87	0.42
56:BZ:85:HIS:ND1	56:BZ:86:VAL:N	2.68	0.42
35:BA:2810:A:N6	35:BA:2891:G:H1'	2.35	0.42
1:AA:1063:C:H3'	1:AA:1064:G:H2'	2.00	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1188:A:H2'	1:AA:1189:C:O4'	2.19	0.42
1:AA:1192:C:P	3:AC:4:LYS:HZ1	2.43	0.42
51:BU:111:GLU:O	51:BU:112:ARG:C	2.57	0.42
51:BU:57:PHE:CD1	51:BU:60:LEU:HD12	2.54	0.42
1:AA:951:G:C2	1:AA:1231:G:C4	3.07	0.42
14:AN:34:TYR:O	14:AN:36:PHE:N	2.53	0.42
35:BA:61:G:H1	35:BA:94:C:N4	2.16	0.42
39:DE:33:VAL:CG1	39:DE:89:ASP:N	2.73	0.42
27:B1:13:ILE:CG1	27:B1:14:VAL:H	2.13	0.42
27:B1:73:LEU:HA	27:B1:76:ARG:HH11	1.80	0.42
41:BG:107:LEU:HD23	41:BG:111:LEU:CD1	2.49	0.42
41:BG:174:GLU:C	41:BG:176:LEU:N	2.73	0.42
41:BG:4:ASP:O	41:BG:5:VAL:HG22	2.20	0.42
35:DA:58:G:N3	35:DA:70:G:C2	2.87	0.42
54:DX:23:GLU:HG3	54:DX:24:GLY:N	2.34	0.42
54:DX:61:GLY:H	54:DX:70:LEU:CD2	2.32	0.42
42:BH:105:LEU:HD22	42:BH:105:LEU:H	1.84	0.42
42:BH:122:THR:CB	42:BH:134:SER:HB2	2.44	0.42
56:DZ:58:VAL:O	56:DZ:59:LEU:C	2.58	0.42
51:DU:103:PRO:C	51:DU:105:VAL:N	2.71	0.42
51:DU:111:GLU:O	51:DU:115:ALA:CB	2.67	0.42
51:DU:83:LEU:HD12	51:DU:113:ALA:HB2	2.00	0.42
51:DU:95:LEU:HD23	51:DU:95:LEU:HA	1.88	0.42
47:DQ:55:VAL:C	47:DQ:57:HIS:N	2.72	0.42
1:CA:435:C:N3	1:CA:436:C:C5	2.88	0.42
35:BA:1142(A):A:O2'	35:BA:1143:A:H3'	2.20	0.42
44:BN:96:GLU:N	44:BN:96:GLU:OE2	2.50	0.42
35:BA:618:C:H2'	35:BA:619:G:H8	1.84	0.42
46:BP:19:VAL:C	46:BP:20:GLY:O	2.58	0.42
35:DA:389:G:N1	46:DP:71:VAL:CG1	2.81	0.42
27:B1:37:ILE:N	27:B1:37:ILE:HD12	2.16	0.42
27:B1:38:SER:OG	27:B1:39:LYS:N	2.53	0.42
35:BA:573:G:O2'	35:BA:574:C:H3'	2.19	0.42
40:DF:185:ASP:OD1	40:DF:188:ARG:HD2	2.20	0.42
48:BR:28:LEU:HD12	48:BR:29:LEU:HD13	2.01	0.42
50:BT:101:PHE:C	50:BT:101:PHE:HD2	2.23	0.42
41:DG:165:THR:OG1	41:DG:168:GLU:OE1	2.30	0.42
41:DG:28:VAL:HG12	41:DG:28:VAL:O	2.19	0.42
2:AB:59:GLU:O	2:AB:63:MET:HG2	2.19	0.42
44:DN:99:LEU:HD22	44:DN:99:LEU:HA	1.84	0.42
44:BN:22:THR:N	44:BN:61:ARG:HB2	2.34	0.42
35:DA:1257:C:H2'	35:DA:1258:C:C6	2.55	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2059:A:C5	35:DA:2503:A:C2	3.07	0.42
55:DY:71:LYS:HB2	55:DY:71:LYS:HZ2	1.84	0.42
17:AQ:29:HIS:CG	17:AQ:30:PRO:HD2	2.55	0.42
4:AD:10:ARG:C	4:AD:13:ARG:HB3	2.38	0.42
4:AD:63:LYS:N	4:AD:66:ARG:HH12	2.17	0.42
43:DI:102:SER:HB2	43:DI:109:ILE:HG23	2.01	0.42
1:AA:719:C:H2'	1:AA:720:C:H5'	2.01	0.42
6:AF:21:LEU:O	6:AF:22:GLU:C	2.58	0.42
47:BQ:54:MET:CG	47:BQ:64:ILE:HD13	2.50	0.42
35:DA:563:G:C6	35:DA:2018:G:C5	3.08	0.42
44:DN:79:PRO:HG2	44:DN:80:GLY:N	2.34	0.42
2:AB:142:LEU:HA	2:AB:145:LEU:HB3	2.02	0.42
51:DU:7:GLY:O	51:DU:8:VAL:CG2	2.68	0.42
25:CY:175:LEU:O	25:CY:178:LYS:HB2	2.20	0.42
35:BA:1242:A:N1	46:BP:8:PRO:CG	2.82	0.42
13:CM:83:ASP:CG	13:CM:84:ILE:H	2.23	0.42
25:AY:26:ALA:C	25:AY:28:LEU:N	2.73	0.42
7:AG:91:VAL:CG1	7:AG:95:ARG:HD3	2.49	0.42
35:BA:2123:G:H1'	37:BC:175:VAL:CB	2.50	0.42
52:BV:78:LYS:C	52:BV:78:LYS:CD	2.88	0.42
16:CP:55:ARG:O	16:CP:58:TYR:N	2.52	0.42
25:AY:156:ARG:HH21	26:B0:6:ALA:CB	2.32	0.42
11:AK:30:VAL:HG21	11:AK:68:ALA:HB2	2.01	0.42
43:BI:94:ALA:HB1	43:BI:114:LEU:HD12	2.00	0.42
43:BI:132:PRO:O	43:BI:135:GLU:HG2	2.20	0.42
11:CK:60:ALA:C	11:CK:62:GLN:N	2.72	0.42
40:BF:132:VAL:CG2	40:BF:133:ASN:N	2.71	0.42
2:CB:153:ARG:O	2:CB:154:LEU:O	2.37	0.42
1:AA:826:C:H2'	1:AA:827:U:H6	1.83	0.42
33:D7:8:ASN:HD22	33:D7:9:ARG:H	1.59	0.42
19:AS:53:ASN:HD22	19:AS:55:LYS:H	1.64	0.42
15:CO:11:VAL:O	15:CO:14:GLU:HB3	2.19	0.42
16:CP:40:ASP:OD2	16:CP:40:ASP:C	2.56	0.42
40:BF:139:PHE:HB2	40:BF:166:ALA:HB1	2.00	0.42
1:AA:678:U:N3	1:AA:713:G:N2	2.68	0.42
1:AA:780:A:C2	1:AA:803:G:C6	3.08	0.42
35:DA:708:C:H5'	35:DA:709:U:OP2	2.20	0.42
35:BA:374:A:C2'	35:BA:375:C:H5'	2.50	0.42
31:D5:3:LYS:HB2	35:DA:747:U:C5	2.54	0.42
26:D0:51:VAL:HG13	26:D0:60:PHE:O	2.19	0.42
26:D0:77:ARG:NH2	35:DA:857:C:OP1	2.53	0.42
5:AE:73:ASN:HD22	5:AE:73:ASN:C	2.22	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1938:A:H4'	35:DA:1939:U:OP2	2.20	0.42
26:D0:55:ARG:C	26:D0:57:PHE:H	2.23	0.42
1:CA:66:G:H4'	1:CA:173:U:C4	2.52	0.42
13:CM:48:LEU:HD21	13:CM:53:VAL:CG2	2.49	0.42
35:BA:1298:C:H2'	35:BA:1299:G:O4'	2.19	0.42
9:AI:66:ARG:HB3	9:AI:66:ARG:HH11	1.85	0.42
38:DD:166:GLN:HB2	38:DD:174:ILE:HG22	2.01	0.42
25:CY:53:ASN:OD1	25:CY:54:GLN:N	2.43	0.42
16:CP:45:THR:O	16:CP:46:PRO:C	2.58	0.42
54:DX:88:LYS:HB3	54:DX:89:ILE:CD1	2.49	0.42
35:BA:962:G:C2'	35:BA:963:U:H5'	2.49	0.42
35:DA:214:G:O2'	35:DA:215:G:P	2.77	0.42
1:AA:149:A:O2'	1:AA:150:C:C6	2.69	0.42
35:BA:1005:C:H2'	35:BA:1006:C:C6	2.55	0.42
11:AK:79:SER:HA	11:AK:104:GLN:HB3	2.01	0.42
1:CA:246:A:O3'	1:CA:247:G:H4'	2.19	0.42
35:DA:2291:U:OP1	35:DA:2381:C:H5'	2.19	0.42
1:CA:227:G:C6	1:CA:228:A:C6	3.08	0.42
1:CA:688:G:H5'	11:CK:46:GLY:C	2.39	0.42
53:BW:107:LEU:HA	53:BW:107:LEU:HD12	1.79	0.42
9:AI:45:ALA:O	9:AI:48:GLU:HB3	2.20	0.42
35:BA:1853:A:H1'	35:BA:2233:U:O2'	2.19	0.42
1:AA:1293:G:HO2'	1:AA:1294:G:H8	1.61	0.42
23:CW:67:C:H2'	23:CW:68:C:C6	2.55	0.42
1:AA:355:C:C2'	1:AA:356:A:H5'	2.50	0.42
1:CA:287:U:O2'	1:CA:288:A:H5'	2.19	0.42
35:DA:1323:U:H3	35:DA:1331:A:N6	2.13	0.42
3:CC:58:GLU:HB2	3:CC:65:ALA:HB2	2.01	0.42
1:AA:525:C:H2'	1:AA:526:C:C6	2.54	0.42
35:DA:1210:A:H1'	35:DA:1212:G:N3	2.33	0.42
1:AA:1003:G:H8	1:AA:1003:G:O5'	2.03	0.42
3:CC:206:GLU:O	3:CC:207:VAL:C	2.57	0.42
35:BA:1128:A:C2	35:BA:1129:A:C2	3.07	0.42
29:D3:51:ALA:C	29:D3:53:LEU:H	2.23	0.42
1:CA:525:C:H2'	1:CA:526:C:C6	2.55	0.42
35:BA:382:G:H1	35:BA:392:C:N4	2.18	0.42
1:AA:828:A:H2'	1:AA:829:G:O4'	2.19	0.42
11:AK:49:GLY:C	11:AK:50:TYR:HD2	2.23	0.42
35:BA:2790:A:C2'	35:BA:2790:A:N3	2.82	0.42
35:BA:2657:A:C5	35:BA:2658:C:C5	3.08	0.42
35:BA:1923:U:H2'	35:BA:1924:C:H6	1.84	0.42
1:AA:1420:C:H3'	1:AA:1420:C:C6	2.52	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
26:D0:56:ASP:O	26:D0:58:THR:N	2.53	0.42
35:BA:2228:G:H2'	35:BA:2229:C:C6	2.55	0.42
3:CC:22:TRP:HZ2	3:CC:36:ASP:OD1	2.02	0.42
1:CA:611:A:C2'	1:CA:612:C:H5'	2.50	0.42
35:BA:954:G:OP1	47:BQ:15:GLY:N	2.48	0.42
35:DA:936:C:H2'	35:DA:937:U:C6	2.54	0.42
36:BB:46:A:H2'	36:BB:47:C:C6	2.55	0.42
1:CA:699:C:H2'	1:CA:700:G:H8	1.84	0.42
53:BW:29:LEU:HD21	53:BW:33:ARG:NH2	2.34	0.42
45:DO:37:ASP:HB2	45:DO:62:VAL:HG23	2.01	0.42
45:DO:98:VAL:CG2	45:DO:99:PHE:N	2.82	0.42
50:DT:53:ARG:HG2	50:DT:53:ARG:NH1	2.26	0.42
43:BI:77:LEU:CD2	43:BI:101:LEU:HD13	2.50	0.42
38:BD:177:LEU:HB3	38:BD:178:PRO:CD	2.50	0.42
35:DA:1796:U:H2'	35:DA:1797:C:C6	2.55	0.42
35:DA:1819:A:H1'	35:DA:1821:A:C5	2.55	0.42
38:DD:267:SER:HA	38:DD:270:ILE:CG1	2.49	0.42
41:DG:125:PHE:CE2	41:DG:131:TYR:HD2	2.37	0.42
10:CJ:8:LEU:CA	10:CJ:96:ILE:HG22	2.49	0.42
34:B8:25:MET:CG	46:BP:64:LYS:HB2	2.50	0.42
34:B8:39:LYS:NZ	34:B8:40:GLU:HA	2.35	0.42
35:BA:2415:G:H2'	35:BA:2416:C:C6	2.55	0.42
47:DQ:23:GLY:CA	47:DQ:101:ARG:HB2	2.46	0.42
56:BZ:3:TYR:O	56:BZ:57:ILE:CG2	2.68	0.42
56:BZ:97:GLU:O	56:BZ:98:MET:CB	2.66	0.42
35:DA:1417:C:H2'	35:DA:1418:G:H5'	2.01	0.42
35:BA:2040:C:H2'	35:BA:2041:U:H6	1.82	0.42
51:BU:103:PRO:C	51:BU:105:VAL:N	2.73	0.42
51:BU:52:ARG:O	51:BU:55:ARG:N	2.52	0.42
1:AA:961:U:C2'	1:AA:962:C:H5'	2.50	0.42
19:AS:78:ARG:N	19:AS:78:ARG:CD	2.83	0.42
28:B2:55:ARG:CZ	35:BA:72:U:OP1	2.67	0.42
39:DE:1:MET:N	39:DE:84:PHE:HB2	2.34	0.42
41:BG:60:LEU:O	41:BG:63:ILE:CG1	2.55	0.42
28:D2:14:ARG:NE	28:D2:15:LYS:N	2.68	0.42
56:DZ:48:PHE:O	56:DZ:49:ARG:C	2.58	0.42
35:DA:1158:C:O2'	35:DA:1159:U:H6	2.02	0.42
44:DN:46:VAL:HG22	44:DN:47:ALA:H	1.84	0.42
51:DU:54:LYS:C	51:DU:56:ASP:H	2.23	0.42
51:DU:70:ARG:O	51:DU:73:GLY:N	2.43	0.42
36:BB:6:C:C4	36:BB:116:G:N1	2.88	0.42
49:BS:28:VAL:H	49:BS:89:ARG:CG	2.33	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:CD:172:PRO:C	4:CD:187:ARG:HH12	2.23	0.42
40:BF:41:LEU:HD11	40:BF:184:TYR:CE1	2.48	0.42
35:BA:2491:U:O2'	35:BA:2492:U:H5'	2.20	0.42
35:DA:2415:G:H4'	46:DP:67:MET:N	2.33	0.42
35:BA:1251:C:OP2	35:BA:1251:C:H2'	2.20	0.42
35:BA:961:C:C5	35:BA:2031:A:C2	3.08	0.42
35:BA:571:A:C5'	35:BA:2030:A:N6	2.73	0.42
40:DF:3:GLU:HB3	40:DF:20:LEU:O	2.19	0.42
40:DF:116:ASP:OD2	46:DP:5:ASP:N	2.53	0.42
35:DA:1279:G:H2'	35:DA:1280:G:C8	2.54	0.42
35:DA:1281:G:O6	35:DA:1286:A:N7	2.52	0.42
48:DR:2:ARG:CZ	48:DR:5:LYS:CE	2.97	0.42
1:AA:106:C:O2	1:AA:379:C:H4'	2.20	0.42
1:AA:107:G:C2'	1:AA:108:G:H5'	2.50	0.42
1:AA:1473:A:H2'	1:AA:1474:G:C8	2.55	0.42
20:AT:38:LYS:HE2	20:AT:38:LYS:HB3	1.84	0.42
35:BA:1277:G:H2'	35:BA:1278:A:O4'	2.19	0.42
48:BR:20:LEU:CD1	48:BR:21:TYR:N	2.83	0.42
27:D1:38:SER:O	27:D1:39:LYS:HB3	2.18	0.42
44:DN:55:VAL:CG1	44:DN:56:ASN:N	2.82	0.42
35:DA:666:G:O2'	35:DA:667:U:H5'	2.19	0.42
40:DF:65:TRP:HZ3	40:DF:73:ALA:O	2.03	0.42
4:AD:162:LEU:O	4:AD:163:GLU:O	2.38	0.42
4:AD:176:LEU:HD12	4:AD:177:ASP:N	2.33	0.42
1:CA:1358:U:H2'	1:CA:1359:C:O4'	2.20	0.42
55:DY:31:LEU:CG	55:DY:34:LYS:HB2	2.50	0.42
55:DY:42:VAL:CB	55:DY:65:ALA:HB3	2.49	0.42
17:AQ:27:PHE:C	17:AQ:27:PHE:CD1	2.92	0.42
1:AA:545:C:OP1	4:AD:61:LYS:NZ	2.53	0.42
4:AD:15:GLU:N	4:AD:15:GLU:CD	2.73	0.42
47:DQ:12:GLN:HE21	47:DQ:72:LYS:HA	1.85	0.42
47:DQ:93:TYR:CD1	47:DQ:93:TYR:N	2.86	0.42
47:BQ:55:VAL:HG22	47:BQ:56:ARG:N	2.35	0.42
35:BA:2737:G:N3	35:BA:2738:A:C8	2.88	0.42
35:DA:2026:C:H2'	35:DA:2027:G:O4'	2.20	0.42
35:DA:511:U:O4	35:DA:512:G:C2	2.72	0.42
25:CY:10:THR:HG22	25:CY:14:MET:SD	2.59	0.42
25:CY:159:ALA:O	25:CY:162:GLN:HB3	2.18	0.42
25:CY:32:ARG:HA	25:CY:32:ARG:CZ	2.50	0.42
13:CM:120:LYS:CE	13:CM:120:LYS:HA	2.41	0.42
1:AA:377:G:OP1	16:AP:5:ARG:NH1	2.50	0.42
25:AY:28:LEU:HB3	25:AY:114:LEU:CD1	2.49	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:AY:175:LEU:C	25:AY:177:GLU:N	2.71	0.42
1:CA:1240:U:N3	7:CG:30:ILE:HG22	2.23	0.42
16:CP:60:LEU:H	16:CP:60:LEU:HG	1.61	0.42
11:AK:64:ALA:C	11:AK:66:LEU:N	2.73	0.42
40:DF:160:ASN:ND2	40:DF:160:ASN:C	2.72	0.42
11:AK:59:TYR:CE2	11:AK:63:LEU:HD11	2.53	0.42
8:AH:120:THR:HG23	8:AH:123:GLU:CD	2.40	0.42
2:CB:116:GLU:HG2	2:CB:116:GLU:H	1.56	0.42
1:AA:1402:C:O2	1:AA:1500:A:N1	2.52	0.42
5:CE:36:ASP:O	5:CE:37:ARG:CB	2.65	0.42
1:CA:1346:A:O3'	1:CA:1347:G:H4'	2.19	0.42
1:CA:1371:G:OP2	9:CI:11:LYS:HE3	2.19	0.42
12:AL:48:PRO:HD2	12:AL:49:ASN:OD1	2.19	0.42
8:AH:12:ARG:HA	8:AH:15:ASN:HD22	1.84	0.42
35:DA:1658:C:H2'	35:DA:1659:U:H6	1.84	0.42
9:AI:4:TYR:H	9:AI:4:TYR:HD1	1.68	0.42
35:DA:2173:A:H3'	35:DA:2173:A:P	2.60	0.42
35:BA:363(F):A:O2'	35:BA:364:C:C5	2.71	0.42
35:DA:740:U:C2	35:DA:758:C:H1'	2.55	0.42
35:DA:1266:G:H22	35:DA:2012:G:H2'	1.84	0.42
1:AA:446:G:C2'	1:AA:447:G:H5'	2.49	0.42
7:CG:64:GLN:HG2	7:CG:128:ALA:HB1	2.01	0.42
1:AA:778:G:H2'	1:AA:779:C:O4'	2.20	0.42
11:CK:21:ILE:HG13	11:CK:30:VAL:HG12	2.01	0.42
1:CA:1486:G:C6	1:CA:1487:G:N1	2.88	0.42
1:CA:267:C:OP2	17:CQ:67:LYS:HD2	2.19	0.42
1:AA:965:A:OP1	1:AA:1198:G:H5''	2.19	0.42
35:DA:2114:A:C3'	35:DA:2115:G:H5'	2.49	0.42
35:DA:856:C:H6	35:DA:856:C:H5''	1.84	0.42
5:AE:78:HIS:HB2	5:AE:79:GLU:H	1.69	0.42
1:CA:106:C:H2'	1:CA:107:G:H8	1.85	0.42
23:AW:72:C:H6	23:AW:72:C:O5'	2.02	0.42
1:CA:766:A:H62	1:CA:813:U:H3	1.66	0.42
29:B3:16:PRO:CB	29:B3:18:ASP:OD1	2.67	0.42
29:B3:17:LYS:O	29:B3:18:ASP:C	2.58	0.42
19:CS:42:PRO:O	19:CS:44:MET:N	2.47	0.42
35:BA:1714:G:H2'	35:BA:1717:G:C8	2.53	0.42
35:DA:1426:G:C6	35:DA:1427:A:N1	2.87	0.42
22:AV:34:A:O2'	22:AV:35:A:H5'	2.20	0.42
38:BD:257:LEU:HD23	38:BD:258:LYS:O	2.19	0.42
53:BW:19:LEU:HA	53:BW:19:LEU:HD12	1.84	0.42
35:DA:1635:G:O2'	35:DA:1636:C:H5'	2.19	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:214:G:C2'	35:DA:215:G:OP2	2.67	0.42
48:BR:103:ARG:NH1	48:BR:103:ARG:CG	2.81	0.42
35:DA:1444:G:H2'	35:DA:1445(A):C:C5	2.55	0.42
1:CA:1387:G:H2'	1:CA:1388:C:C6	2.55	0.42
35:DA:2292:C:H2'	35:DA:2293:C:H6	1.84	0.42
1:AA:300:A:H2	1:AA:566:G:O6	2.03	0.42
45:DO:13:ASN:ND2	45:DO:96:THR:OG1	2.53	0.42
35:BA:1406:U:C3'	35:BA:1407:C:H6	2.30	0.42
35:BA:214:G:O2'	35:BA:215:G:P	2.77	0.42
7:CG:15:ASP:OD2	7:CG:44:TYR:OH	2.36	0.42
1:AA:630:G:H2'	1:AA:631:G:H5'	2.02	0.42
1:AA:119:A:OP2	1:AA:288:A:N6	2.50	0.42
1:AA:287:U:O2'	1:AA:288:A:H5'	2.19	0.42
1:CA:901:A:C5	1:CA:902:G:H1'	2.54	0.42
3:CC:23:TYR:HA	10:CJ:11:PHE:HE1	1.81	0.42
35:BA:1514:U:C2	35:BA:1515:G:C8	3.08	0.42
29:B3:1:MET:O	29:B3:3:ARG:N	2.51	0.42
38:BD:109:ASP:HB2	38:BD:197:GLY:HA2	2.01	0.42
1:CA:1009:G:O2'	1:CA:1010:G:H5'	2.20	0.42
35:BA:2264:C:H2'	35:BA:2265:U:O4'	2.19	0.42
35:BA:702:G:N3	35:BA:731:C:N3	2.67	0.42
35:DA:1629:U:H2'	35:DA:1630:G:C8	2.55	0.42
35:DA:2183:C:O2'	35:DA:2184:G:H5'	2.19	0.42
35:BA:949:C:O2'	35:BA:950:G:H5'	2.20	0.42
44:BN:115:ARG:O	44:BN:118:LYS:HB2	2.20	0.42
1:CA:594:G:H2'	1:CA:595:G:O4'	2.19	0.42
56:DZ:137:ILE:CD1	56:DZ:157:LEU:HA	2.49	0.42
47:BQ:77:LYS:HA	47:BQ:78:PRO:HD3	1.84	0.42
1:AA:1235:U:O3'	21:AU:3:LYS:HB2	2.20	0.42
35:BA:790:C:OP1	35:BA:790:C:H4'	2.18	0.42
52:DV:57:VAL:O	52:DV:57:VAL:HG12	2.20	0.42
47:DQ:6:ARG:O	47:DQ:6:ARG:HG3	2.20	0.42
1:CA:73:G:C2	1:CA:97:G:N1	2.88	0.42
38:BD:147:LEU:HB3	38:BD:148:GLU:H	1.59	0.42
55:DY:62:GLU:OE1	55:DY:62:GLU:CA	2.68	0.42
35:DA:2864:G:OP1	50:DT:119:LYS:HD2	2.20	0.42
45:DO:24:VAL:O	45:DO:24:VAL:HG13	2.20	0.42
45:DO:78:ARG:HB3	50:DT:73:GLU:CG	2.50	0.42
1:CA:1060:C:H4'	10:CJ:52:GLY:CA	2.50	0.42
14:CN:29:ARG:HH12	14:CN:31:ARG:CG	2.33	0.42
35:BA:1826:G:H4'	38:BD:242:ARG:CZ	2.49	0.42
38:BD:270:ILE:O	38:BD:271:ILE:HG13	2.20	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:BD:43:ARG:HB3	38:BD:54:ARG:HB2	2.01	0.42
35:DA:1793:C:O2'	35:DA:1794:U:H5'	2.20	0.42
16:CP:2:VAL:O	16:CP:2:VAL:HG22	2.20	0.42
16:CP:34:GLU:OE1	16:CP:36:ILE:HG23	2.20	0.42
41:DG:133:LEU:N	41:DG:133:LEU:HD12	2.34	0.42
41:DG:142:PRO:HG2	41:DG:143:GLU:N	2.34	0.42
41:DG:146:TYR:O	41:DG:146:TYR:HD2	2.03	0.42
35:BA:2725:A:N7	35:BA:2727:G:C5	2.87	0.42
35:BA:2863:C:C3'	35:BA:2864:G:C5'	2.98	0.42
45:BO:11:ALA:O	45:BO:98:VAL:HG23	2.20	0.42
50:BT:83:ILE:O	50:BT:84:GLN:C	2.58	0.42
56:BZ:99:TYR:O	56:BZ:100:VAL:CB	2.68	0.42
35:DA:2513:G:C6	35:DA:2514:U:C4	3.08	0.42
35:BA:2809:A:C2'	35:BA:2810:A:H5'	2.50	0.42
1:AA:1191:A:H5''	3:AC:4:LYS:HZ2	1.84	0.42
44:BN:44:PRO:C	44:BN:46:VAL:N	2.72	0.42
54:BX:82:GLN:CD	54:BX:83:VAL:HG22	2.40	0.42
35:BA:2206:G:N1	35:BA:2208:A:OP1	2.53	0.42
35:BA:395:U:H1'	35:BA:396:G:N7	2.35	0.42
41:BG:46:ALA:CA	41:BG:51:ARG:HG3	2.50	0.42
41:BG:7:LEU:O	41:BG:11:TYR:N	2.46	0.42
55:DY:86:ARG:CB	55:DY:88:LYS:HZ2	2.25	0.42
54:DX:78:LYS:HD3	54:DX:78:LYS:C	2.40	0.42
47:DQ:134:ARG:CG	47:DQ:135:ASP:N	2.82	0.42
1:CA:1320:C:P	19:CS:70:LYS:HE3	2.60	0.42
49:BS:54:LEU:O	49:BS:57:LYS:N	2.52	0.42
49:BS:77:ALA:O	49:BS:79:ALA:N	2.52	0.42
4:CD:105:VAL:HG13	4:CD:110:PHE:HB2	2.02	0.42
46:BP:18:ARG:HE	46:BP:18:ARG:HB3	1.58	0.42
40:DF:25:PRO:HB3	40:DF:119:ARG:CD	2.50	0.42
48:DR:53:HIS:O	48:DR:56:LYS:HB2	2.19	0.42
48:BR:31:HIS:O	48:BR:33:ARG:N	2.52	0.42
48:BR:54:LEU:HD22	48:BR:66:VAL:HG22	2.01	0.42
36:DB:7:G:H5'	36:DB:8:U:OP2	2.20	0.42
49:DS:43:GLU:HB2	49:DS:44:LYS:H	1.63	0.42
49:DS:73:LEU:O	49:DS:74:ALA:C	2.58	0.42
45:BO:115:VAL:O	45:BO:118:ALA:HB3	2.19	0.42
6:CF:67:MET:HB2	6:CF:68:PRO:CD	2.48	0.42
15:CO:64:ARG:O	15:CO:66:LEU:N	2.53	0.42
18:CR:76:LEU:C	18:CR:78:LEU:H	2.23	0.42
34:D8:22:VAL:HB	34:D8:53:PRO:HB3	1.97	0.42
35:DA:2059:A:H62	35:DA:2503:A:H2'	1.85	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:671:C:C5	46:DP:36:LYS:NZ	2.86	0.42
35:DA:664:C:H4'	35:DA:941:A:OP1	2.20	0.42
35:DA:1213:A:H2'	35:DA:1214:A:C8	2.48	0.42
1:AA:434:U:H2'	1:AA:435:C:N1	2.33	0.42
1:AA:1320:C:H5'	19:AS:70:LYS:HD3	2.02	0.42
4:AD:58:LEU:C	4:AD:58:LEU:HD13	2.40	0.42
35:DA:870:A:C2	35:DA:871:U:H1'	2.55	0.42
18:AR:73:ALA:HB1	18:AR:78:LEU:HB2	2.01	0.42
1:CA:1518:A:C2	1:CA:1519:A:N1	2.88	0.42
46:BP:7:ARG:HA	46:BP:7:ARG:HD2	1.85	0.42
1:CA:1228:C:OP1	13:CM:115:LYS:HG3	2.19	0.42
13:CM:91:ARG:CB	13:CM:96:LEU:O	2.65	0.42
1:CA:1443:G:C6	1:CA:1444:C:N4	2.88	0.42
35:BA:2128:C:H5'	35:BA:2173:A:H2	1.85	0.42
25:AY:150:SER:OG	25:AY:153:GLU:CG	2.65	0.42
1:AA:686:U:C5	1:AA:687:A:N6	2.87	0.42
43:BI:115:ALA:HB2	43:BI:129:THR:O	2.19	0.42
35:DA:2744:G:N2	35:DA:2761:G:C4	2.88	0.42
1:CA:640:A:H2'	1:CA:641:U:H5'	2.00	0.42
55:BY:28:LYS:O	55:BY:37:VAL:C	2.58	0.42
2:CB:101:MET:HB2	2:CB:102:LEU:CD1	2.47	0.42
1:CA:1103:C:H5''	2:CB:98:LEU:CD1	2.50	0.42
1:AA:261:U:OP2	20:AT:79:ARG:NH2	2.53	0.42
52:DV:78:LYS:CD	52:DV:78:LYS:C	2.88	0.42
5:AE:126:ARG:HG3	5:AE:126:ARG:HH11	1.85	0.42
18:AR:53:ARG:O	18:AR:54:ARG:C	2.58	0.42
9:AI:54:ASP:O	9:AI:58:ARG:HB2	2.20	0.42
8:CH:60:ARG:HG3	8:CH:60:ARG:NH1	2.34	0.42
1:CA:1148:U:H2'	1:CA:1149:C:O4'	2.20	0.42
35:DA:1313:U:H2'	35:DA:1610:A:C2	2.54	0.42
31:D5:13:LYS:HZ1	35:DA:516:C:P	2.43	0.42
16:CP:67:THR:CG2	16:CP:69:THR:HG23	2.49	0.42
1:CA:709:G:C4	1:CA:710:G:C8	3.08	0.42
35:BA:1615:C:C5	35:BA:1617:C:C2	3.08	0.42
53:BW:86:LEU:HA	53:BW:87:PRO:HD3	1.83	0.42
35:DA:2206:G:N1	35:DA:2208:A:OP1	2.53	0.42
35:DA:2220:G:C4	35:DA:2221:G:C8	3.07	0.42
1:CA:1117:G:N2	1:CA:1180:A:H1'	2.35	0.42
55:BY:8:LYS:HD2	55:BY:8:LYS:N	2.20	0.42
1:AA:1071:C:H2'	1:AA:1072:G:H8	1.84	0.42
1:AA:1074:G:O2'	2:AB:103:THR:HG21	2.20	0.42
54:DX:62:LYS:CB	54:DX:68:ARG:HB2	2.41	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1508:G:C4	1:CA:1509:C:C6	3.07	0.42
37:BC:59:ARG:HB2	37:BC:62:VAL:CG2	2.39	0.42
37:BC:59:ARG:O	37:BC:62:VAL:HG22	2.20	0.42
5:AE:76:ILE:CG2	5:AE:77:PRO:N	2.83	0.42
32:D6:47:THR:CG2	32:D6:48:VAL:N	2.82	0.42
35:BA:98:G:H2'	35:BA:98:G:N3	2.34	0.42
1:CA:60:A:H4'	1:CA:61:G:O5'	2.19	0.42
1:CA:1277:C:H4'	1:CA:1282:C:O2	2.20	0.42
29:D3:12:PRO:HA	29:D3:15:TYR:HD1	1.84	0.42
35:DA:966:G:C1'	35:DA:2267:A:H62	2.33	0.42
13:CM:36:LYS:HB2	13:CM:59:TYR:CZ	2.55	0.42
35:DA:656:G:C6	35:DA:657:U:C4	3.08	0.42
46:DP:56:SER:O	46:DP:57:THR:CB	2.66	0.42
54:BX:15:GLU:O	54:BX:19:ALA:N	2.45	0.42
53:BW:20:VAL:O	53:BW:21:VAL:C	2.58	0.42
38:DD:257:LEU:HD23	38:DD:258:LYS:C	2.40	0.42
35:BA:171:G:C5	35:BA:172:C:C5	3.07	0.42
11:AK:107:SER:C	11:AK:108:ILE:HD12	2.40	0.42
53:BW:46:PHE:C	53:BW:48:ALA:N	2.71	0.42
10:AJ:78:ASN:O	10:AJ:80:LYS:N	2.53	0.42
1:CA:29:G:H5'	1:CA:296:U:OP1	2.19	0.42
1:AA:929:G:O2'	1:AA:930:C:H5'	2.19	0.42
35:DA:6:A:C2'	44:DN:130:HIS:HB2	2.49	0.42
1:CA:68:G:N2	1:CA:69:G:H1'	2.35	0.42
1:AA:69:G:H2'	1:AA:70:G:C8	2.55	0.42
53:DW:65:LEU:HD21	53:DW:67:ASP:HB2	2.02	0.42
53:BW:65:LEU:HD21	53:BW:67:ASP:HB2	2.01	0.42
1:AA:783:C:C6	1:AA:784:C:H5	2.36	0.42
35:BA:1681:G:H1'	35:BA:1763:G:H5'	2.01	0.42
17:AQ:63:ARG:HG2	17:AQ:64:PRO:HD2	2.02	0.42
1:CA:830:G:C6	1:CA:831:U:N3	2.87	0.42
50:BT:58:ASN:ND2	50:BT:58:ASN:H	2.17	0.42
38:BD:203:ASN:O	38:BD:204:ILE:C	2.57	0.42
1:CA:745:C:O2'	1:CA:746:A:H5'	2.19	0.42
1:CA:176:C:C2	1:CA:177:C:C5	3.08	0.42
35:DA:271(L):U:H5''	35:DA:271(M):G:C4	2.54	0.42
35:DA:1004:C:O4'	35:DA:1010:A:C6	2.73	0.42
36:BB:40:U:C2'	36:BB:41:U:OP1	2.67	0.42
1:AA:1132:C:C2'	1:AA:1133:G:H5'	2.50	0.42
35:BA:1381:G:O2'	35:BA:1382:G:H5'	2.19	0.42
35:DA:785:G:C6	35:DA:786:C:C4	3.08	0.42
35:DA:339:U:O5'	35:DA:339:U:H6	2.03	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:DE:71:GLY:O	39:DE:72:VAL:HB	2.20	0.42
35:DA:1560:G:H2'	35:DA:1561:G:H8	1.85	0.42
5:AE:60:TYR:CE2	5:AE:64:ARG:NH2	2.84	0.42
2:CB:17:PHE:O	2:CB:18:GLY:O	2.38	0.42
35:BA:139(A):G:H5'	35:BA:140:G:OP2	2.19	0.42
35:BA:1544:A:H2'	35:BA:1545:A:OP2	2.19	0.42
56:DZ:128:VAL:HG22	56:DZ:129:SER:N	2.34	0.42
44:BN:18:ALA:C	44:BN:20:GLY:N	2.73	0.42
35:BA:1208:C:C5	35:BA:1209:G:N7	2.88	0.42
57:DC:18:LYS:O	57:DC:20:TYR:N	2.52	0.42
4:CD:45:GLN:O	4:CD:46:LYS:HG3	2.20	0.42
25:CY:151:GLU:O	25:CY:151:GLU:HG2	2.20	0.42
43:DI:118:LYS:HB3	43:DI:118:LYS:HE3	1.88	0.42
35:BA:1321:A:H2'	35:BA:1321:A:N3	2.35	0.42
27:D1:20:ARG:HG2	27:D1:20:ARG:H	1.46	0.42
3:CC:37:GLN:NE2	14:CN:52:GLN:OE1	2.53	0.42
35:DA:1989:G:C2'	35:DA:1990:C:H5'	2.50	0.42
50:DT:84:GLN:HG3	50:DT:84:GLN:O	2.20	0.42
43:BI:123:LEU:HD11	43:BI:143:SER:O	2.19	0.42
41:DG:76:SER:HB3	41:DG:84:LYS:H	1.84	0.42
46:BP:65:ARG:O	46:BP:66:GLY:C	2.57	0.42
1:AA:1440:C:H2'	1:AA:1441:G:C8	2.55	0.42
56:BZ:132:ASN:O	56:BZ:134:PRO:HD3	2.19	0.42
56:BZ:4:ARG:HA	56:BZ:59:LEU:HD23	2.02	0.42
35:BA:71:A:C8	35:BA:71:A:H5'	2.54	0.42
35:BA:1341:U:H5'	54:BX:57:LEU:CD2	2.50	0.42
39:DE:3:GLY:O	39:DE:4:ILE:CG2	2.66	0.42
39:DE:48:GLN:C	39:DE:49:LEU:HD22	2.40	0.42
1:AA:1100:C:OP2	2:AB:96:ARG:HG2	2.20	0.42
41:BG:104:GLU:O	41:BG:106:LEU:N	2.53	0.42
41:BG:106:LEU:O	41:BG:110:ALA:HB3	2.19	0.42
41:BG:17:PRO:C	41:BG:19:LEU:N	2.73	0.42
34:B8:11:LYS:HA	34:B8:60:LEU:HD11	2.01	0.42
28:D2:17:SER:HG	28:D2:18:PRO:HD3	1.83	0.42
54:DX:61:GLY:N	54:DX:70:LEU:CD2	2.83	0.42
56:DZ:150:LEU:O	56:DZ:171:ILE:CG1	2.68	0.42
56:DZ:17:ALA:HA	56:DZ:20:ARG:HB3	2.01	0.42
47:DQ:140:ALA:HB2	56:DZ:99:TYR:CG	2.55	0.42
1:AA:1204:A:N1	1:AA:1205:U:O2	2.53	0.42
3:AC:150:LYS:HA	3:AC:168:ALA:O	2.19	0.42
49:BS:27:SER:O	49:BS:38:GLN:N	2.53	0.42
36:BB:29:A:OP2	49:BS:32:LEU:HB2	2.20	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:CD:108:LEU:HD12	4:CD:108:LEU:N	2.34	0.42
4:CD:172:PRO:HD2	4:CD:173:TRP:HZ3	1.82	0.42
40:BF:20:LEU:O	40:BF:21:ALA:O	2.37	0.42
35:BA:598:G:H5'	46:BP:15:ARG:CG	2.49	0.42
39:BE:143:ASN:ND2	39:BE:143:ASN:N	2.63	0.42
44:DN:63:THR:O	44:DN:64:GLY:C	2.58	0.42
3:CC:11:ARG:O	3:CC:13:GLY:N	2.53	0.42
34:B8:22:VAL:CB	34:B8:53:PRO:HB2	2.37	0.42
34:B8:4:MET:HE2	34:B8:61:LEU:HD12	2.01	0.42
35:BA:808:G:O2'	35:BA:1254:A:O2'	2.29	0.42
35:BA:2244:U:H1'	35:BA:2434:A:C8	2.55	0.42
40:BF:82:ILE:C	40:BF:84:VAL:H	2.23	0.42
52:BV:82:ARG:CD	52:BV:82:ARG:C	2.88	0.42
35:BA:1285:G:H4'	48:BR:105:ARG:NH1	2.35	0.42
48:BR:53:HIS:ND1	48:BR:53:HIS:O	2.52	0.42
48:BR:53:HIS:O	48:BR:56:LYS:HB2	2.20	0.42
36:DB:7:G:O5'	49:DS:29:PHE:HE2	2.02	0.42
49:DS:38:GLN:CG	49:DS:39:ILE:N	2.80	0.42
49:DS:28:VAL:H	49:DS:89:ARG:CG	2.33	0.42
44:BN:60:ILE:O	44:BN:61:ARG:C	2.58	0.42
2:CB:69:LEU:HB2	2:CB:162:ILE:HG22	2.02	0.42
2:CB:197:VAL:HB	2:CB:200:ILE:HG12	2.01	0.42
35:DA:2061:G:O4'	35:DA:2503:A:C5	2.73	0.42
35:DA:585:G:C4	35:DA:1251:C:N4	2.87	0.42
35:DA:804:A:H2'	35:DA:806:C:C4	2.55	0.42
1:CA:1357:A:N7	1:CA:1358:U:C4	2.87	0.42
1:CA:1357:A:N6	1:CA:1363(A):A:H2	2.16	0.42
46:DP:148:LEU:HD22	46:DP:148:LEU:C	2.41	0.42
1:AA:821:G:O2'	1:AA:822:C:H5'	2.20	0.42
1:AA:502:G:C6	1:AA:544:G:C6	3.07	0.42
4:AD:62:GLN:HB3	4:AD:66:ARG:HH12	1.85	0.42
44:DN:15:LEU:HD12	44:DN:136:GLU:CB	2.50	0.42
35:BA:2735:G:H2'	35:BA:2736:G:H8	1.83	0.42
35:DA:2739:U:C2'	35:DA:2740:A:H5'	2.50	0.42
25:CY:3:LEU:C	25:CY:5:GLU:N	2.71	0.42
35:DA:15:G:C4	35:DA:16:G:C8	3.08	0.42
1:CA:1217:C:P	14:CN:5:ALA:HB1	2.60	0.42
1:CA:194:C:H4'	20:CT:65:LYS:HG3	2.01	0.42
25:AY:64:ARG:HA	25:AY:103:ILE:CG1	2.50	0.42
25:AY:67:VAL:O	25:AY:67:VAL:HG23	2.20	0.42
25:AY:127:VAL:O	25:AY:128:ALA:C	2.58	0.42
42:DH:46:GLU:CG	42:DH:51:ARG:HB2	2.50	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2127:G:H1'	35:BA:2128:C:C4'	2.46	0.42
42:BH:16:SER:HB2	42:BH:27:LYS:O	2.20	0.42
25:AY:156:ARG:NH2	47:BQ:80:GLU:CB	2.82	0.42
1:AA:709:G:C4	1:AA:710:G:C8	3.07	0.42
35:BA:770:G:C6	35:BA:771:G:N7	2.88	0.42
8:CH:114:THR:CG2	8:CH:119:LEU:HD21	2.49	0.42
35:BA:99:U:OP1	35:BA:102:G:OP1	2.38	0.42
35:DA:225:A:O2'	35:DA:257:A:H4'	2.19	0.42
35:DA:607:U:H3	35:DA:621:A:H2	1.67	0.42
1:AA:259:G:H2'	1:AA:260:G:H8	1.83	0.42
20:AT:57:ARG:HB3	20:AT:58:LYS:H	1.71	0.42
2:CB:142:LEU:HA	2:CB:145:LEU:HB3	2.01	0.42
42:BH:44:VAL:HG12	42:BH:45:VAL:HG23	2.02	0.42
8:AH:26:VAL:CG2	8:AH:32:LYS:HZ3	2.29	0.42
35:BA:2538:C:C2'	35:BA:2539:C:C5'	2.98	0.42
1:AA:1350:A:C2	1:AA:1351:U:C2	3.07	0.42
12:CL:47:LYS:HD3	12:CL:48:PRO:HD3	2.02	0.42
33:D7:31:LEU:HD23	33:D7:42:LEU:HB3	2.01	0.42
38:BD:133:LEU:CB	38:BD:173:VAL:HG11	2.49	0.42
1:AA:381:C:H2'	1:AA:382:A:O4'	2.20	0.42
46:BP:106:LEU:HB3	46:BP:107:LYS:H	1.62	0.42
40:BF:150:GLY:HA2	40:BF:172:TRP:CD2	2.55	0.42
40:BF:160:ASN:HD21	40:BF:162:LEU:HB2	1.84	0.42
1:CA:708:C:H2'	1:CA:709:G:H8	1.84	0.42
35:BA:1264:G:H2'	35:BA:1265:A:C8	2.55	0.42
35:DA:723:G:C6	35:DA:724:U:C4	3.08	0.42
23:AW:16:C:O4'	23:AW:60:A:C2	2.72	0.42
1:AA:1103:C:H5''	2:AB:98:LEU:CD1	2.50	0.42
35:BA:707:G:H3'	35:BA:708:C:C6	2.55	0.42
7:AG:122:HIS:O	7:AG:123:GLU:C	2.58	0.42
35:DA:2883:A:C5'	35:DA:2884:U:H5'	2.50	0.42
35:DA:2884:U:C2'	35:DA:2885:C:H5'	2.46	0.42
17:AQ:67:LYS:C	17:AQ:69:LYS:H	2.23	0.42
1:CA:1197:G:C2'	1:CA:1198:G:H5'	2.50	0.42
35:BA:207:A:H2'	35:BA:208:C:O4'	2.20	0.42
35:BA:271(V):G:N3	35:BA:271(W):G:H1'	2.35	0.42
1:AA:835:U:H3	1:AA:851:G:H1	1.67	0.42
35:DA:2588:G:C6	35:DA:2589:A:C5	3.08	0.42
1:CA:460:G:C6	1:CA:470:C:H5''	2.55	0.42
5:CE:82:VAL:HG11	5:CE:134:ALA:O	2.20	0.42
5:CE:139:LEU:H	5:CE:139:LEU:HG	1.53	0.42
31:B5:2:ALA:N	35:BA:747:U:C4	2.88	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:CE:6:PHE:HB2	5:CE:34:VAL:HG12	2.01	0.42
35:DA:1619:G:N1	35:DA:1620:G:C5	2.88	0.42
35:BA:1707:G:O4'	35:BA:1756:G:H1'	2.20	0.42
1:CA:722:A:O2'	1:CA:723:U:C6	2.72	0.42
32:D6:28:ARG:HA	32:D6:32:ASN:CB	2.50	0.42
26:B0:55:ARG:C	26:B0:57:PHE:H	2.23	0.42
20:AT:83:ARG:HG2	20:AT:86:ARG:HD3	2.01	0.42
1:AA:1299:A:C8	1:AA:1301:U:C2	3.08	0.42
48:BR:7:GLY:O	48:BR:8:ARG:O	2.38	0.42
1:AA:657:G:N2	15:AO:22:THR:OG1	2.53	0.42
15:AO:55:GLY:O	15:AO:59:MET:HG3	2.19	0.42
54:DX:88:LYS:CD	54:DX:88:LYS:N	2.83	0.42
35:BA:1368:G:C6	35:BA:1369:G:N7	2.88	0.42
1:CA:349:A:C2'	1:CA:350:G:H5'	2.50	0.42
35:DA:915:C:H2'	35:DA:916:G:H8	1.85	0.42
1:AA:769:G:H1	1:AA:810:C:N4	2.18	0.42
35:DA:2102:U:O4'	35:DA:2102:U:O2	2.35	0.42
43:BI:55:ALA:O	43:BI:59:ALA:CB	2.68	0.42
53:BW:35:ILE:O	53:BW:36:LEU:C	2.57	0.42
53:BW:12:ILE:HD12	53:BW:42:ARG:NH1	2.34	0.42
10:AJ:23:ILE:HG23	10:AJ:85:LEU:HD22	2.02	0.42
36:BB:10:C:C4	36:BB:11:C:C5	3.08	0.42
1:CA:226:G:O2'	1:CA:227:G:H5'	2.20	0.42
1:AA:1206:G:H1'	3:AC:193:TYR:O	2.20	0.42
1:CA:178:C:O2'	1:CA:179:A:H5'	2.20	0.42
35:DA:7:G:H4'	44:DN:13:TRP:CZ2	2.54	0.42
29:D3:26:LEU:N	29:D3:26:LEU:HD23	2.35	0.42
31:B5:15:ARG:HG3	31:B5:15:ARG:NH1	2.34	0.42
36:BB:16:G:O2'	36:BB:17:C:H5'	2.20	0.42
1:AA:783:C:N4	1:AA:800:G:N2	2.67	0.42
46:DP:86:LYS:N	46:DP:117:GLU:O	2.52	0.42
39:BE:2:LYS:NZ	39:BE:95:ILE:O	2.33	0.42
3:AC:60:ALA:O	3:AC:61:ALA:HB2	2.20	0.42
23:AW:57:C:H2'	23:AW:58:A:C8	2.51	0.42
1:AA:745:C:O2'	1:AA:746:A:H5'	2.20	0.42
1:AA:652:U:C2	1:AA:752:G:N2	2.88	0.42
2:AB:114:ARG:HH11	2:AB:118:LEU:CD2	2.33	0.42
35:DA:2552:U:H2'	35:DA:2554:U:H5''	2.02	0.42
35:BA:2228:G:OP2	38:BD:263:ARG:NH2	2.53	0.42
35:DA:1831:G:H2'	35:DA:1832:C:H6	1.83	0.42
32:D6:43:CYS:O	32:D6:44:ARG:O	2.37	0.42
3:AC:22:TRP:HZ2	3:AC:36:ASP:OD1	2.03	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1471:G:O2'	1:AA:1472:U:H5'	2.19	0.42
35:DA:340:A:H2'	35:DA:341:G:O4'	2.20	0.42
1:CA:1400:C:H6	1:CA:1400:C:O5'	2.03	0.42
45:DO:64:ARG:HH11	45:DO:64:ARG:HB2	1.85	0.42
35:BA:1810:A:C2'	35:BA:1811:G:H5'	2.50	0.42
1:CA:925:G:H1	1:CA:1391:U:H3	1.66	0.42
1:CA:1396:A:N3	5:CE:19:MET:HG3	2.35	0.42
1:CA:15:G:H1'	5:CE:19:MET:HG2	2.02	0.42
35:DA:1790:C:H2'	35:DA:1791:A:C5	2.54	0.42
1:CA:608:A:H2'	1:CA:609:A:O4'	2.19	0.42
16:CP:19:ILE:HB	16:CP:37:GLY:C	2.40	0.42
36:DB:40:U:C2'	36:DB:41:U:OP1	2.68	0.42
41:DG:101:ILE:O	41:DG:104:GLU:HB2	2.19	0.42
41:DG:115:ARG:HH22	41:DG:136:ARG:HD2	1.85	0.42
32:B6:23:THR:HG21	35:BA:2419:U:H5'	2.02	0.42
34:B8:35:GLN:HG2	35:BA:2420:C:P	2.59	0.42
45:BO:87:ILE:HG21	45:BO:91:LEU:HD13	2.02	0.42
56:BZ:103:ARG:HB2	56:BZ:138:GLU:CA	2.37	0.42
56:BZ:5:LEU:HB2	56:BZ:59:LEU:HD22	2.02	0.42
35:BA:996:A:H2'	35:BA:997:G:C8	2.51	0.42
35:BA:143:G:C1'	54:BX:38:GLU:HG3	2.50	0.42
39:DE:31:CYS:HA	39:DE:50:GLY:O	2.19	0.42
39:DE:53:PRO:O	39:DE:54:GLN:C	2.58	0.42
35:BA:2200:C:C6	35:BA:2200:C:H5''	2.54	0.42
2:AB:213:LEU:CD2	2:AB:214:ILE:N	2.83	0.42
30:B4:6:HIS:CB	41:BG:67:LYS:CE	2.98	0.42
55:DY:81:LYS:HD3	55:DY:97:ARG:C	2.39	0.42
35:DA:58:G:N2	35:DA:70:G:C4	2.88	0.42
28:D2:23:LYS:N	54:DX:5:TYR:CE1	2.88	0.42
54:DX:83:VAL:C	54:DX:85:PRO:CD	2.88	0.42
42:BH:149:ARG:HE	42:BH:154:PRO:HD3	1.83	0.42
56:DZ:141:VAL:O	56:DZ:142:SER:O	2.36	0.42
35:DA:2625:G:H2'	35:DA:2626:C:O4'	2.20	0.42
52:DV:39:LEU:HD11	52:DV:53:GLU:H	1.83	0.42
52:DV:61:VAL:O	52:DV:62:LEU:HD23	2.19	0.42
52:DV:25:LEU:N	52:DV:94:LEU:HD11	2.34	0.42
1:CA:1064:G:OP2	1:CA:1386:G:H4'	2.20	0.42
32:D6:12:GLU:O	32:D6:51:GLU:O	2.37	0.42
1:CA:545:C:OP1	4:CD:61:LYS:NZ	2.52	0.42
4:CD:150:GLU:CA	4:CD:153:ARG:HG3	2.50	0.42
44:BN:63:THR:O	44:BN:64:GLY:C	2.57	0.42
35:BA:261:G:H1'	35:BA:609:A:H2	1.84	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:D1:58:ILE:CG2	27:D1:59:THR:N	2.75	0.42
55:BY:88:LYS:CD	55:BY:88:LYS:N	2.79	0.42
47:BQ:70:PRO:CA	47:BQ:95:ALA:HB2	2.50	0.42
48:DR:29:LEU:HG	48:DR:79:LEU:CD2	2.49	0.42
48:DR:26:LYS:HZ3	48:DR:71:GLN:HB3	1.84	0.42
1:AA:1428:A:C6	1:AA:1473:A:N1	2.87	0.42
20:AT:22:ARG:O	20:AT:26:ASN:ND2	2.53	0.42
20:AT:27:LYS:O	20:AT:30:LYS:HB3	2.20	0.42
35:BA:1653:G:O6	48:BR:11:ASN:HB2	2.20	0.42
35:BA:2697:G:H2'	35:BA:2698:U:O4'	2.20	0.42
48:BR:32:GLY:C	48:BR:33:ARG:HG3	2.40	0.42
48:BR:26:LYS:HZ3	48:BR:71:GLN:HB3	1.83	0.42
27:D1:25:LYS:HB2	27:D1:37:ILE:CG2	2.50	0.42
35:DA:203:C:H2'	35:DA:204:A:H8	1.84	0.42
6:CF:7:ASN:O	6:CF:8:ILE:CG1	2.60	0.42
15:CO:30:ALA:HA	15:CO:85:LEU:HD11	2.00	0.42
35:DA:806:C:O2	35:DA:2444:G:O2'	2.37	0.42
34:D8:7:HIS:HD2	46:DP:50:ARG:CZ	2.32	0.42
4:AD:150:GLU:CA	4:AD:153:ARG:HG3	2.50	0.42
43:DI:71:ILE:HG13	43:DI:72:LEU:CD2	2.50	0.42
6:AF:97:PHE:O	18:AR:30:ASP:HA	2.20	0.42
1:CA:1517:G:H2'	1:CA:1518:A:O5'	2.20	0.42
1:CA:1525:G:P	11:CK:120:ARG:HH22	2.43	0.42
2:AB:116:GLU:HG2	2:AB:116:GLU:H	1.55	0.42
35:DA:29:U:H2'	35:DA:30:G:C8	2.55	0.42
1:CA:1305:G:C2	1:CA:1331:G:N3	2.87	0.42
1:CA:552:U:H2'	1:CA:553:A:H8	1.84	0.42
12:CL:55:VAL:C	12:CL:70:ILE:HD11	2.40	0.42
35:BA:341:G:H2'	35:BA:342:G:C8	2.54	0.42
21:AU:17:THR:O	21:AU:22:ARG:NH1	2.52	0.42
21:AU:24:ARG:H	21:AU:24:ARG:HD2	1.85	0.42
25:AY:29:ARG:H	25:AY:29:ARG:HG2	1.43	0.42
1:AA:1219:U:P	14:AN:19:ARG:HH22	2.42	0.42
35:BA:1353:A:H4'	38:BD:38:LYS:HZ1	1.80	0.42
35:BA:1313:U:H2'	35:BA:1610:A:C2	2.54	0.42
43:BI:114:LEU:O	43:BI:115:ALA:CB	2.67	0.42
13:AM:108:ARG:O	13:AM:109:THR:C	2.58	0.42
35:DA:234:C:H6	35:DA:234:C:O5'	2.02	0.42
35:DA:261:G:H1'	35:DA:609:A:H2	1.85	0.42
46:DP:16:ARG:O	46:DP:16:ARG:HD3	2.19	0.42
1:CA:1342:C:H2'	1:CA:1343:G:H8	1.84	0.42
8:AH:111:ILE:O	8:AH:112:LEU:HB3	2.20	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:AH:5:PRO:O	8:AH:8:ASP:HB3	2.20	0.42
8:CH:35:ILE:O	8:CH:36:LEU:C	2.58	0.42
8:CH:4:ASP:OD2	8:CH:7:ALA:CB	2.67	0.42
5:AE:144:THR:C	5:AE:148:VAL:HG23	2.40	0.42
1:AA:1349:A:H2'	1:AA:1350:A:O5'	2.20	0.42
1:CA:1168:A:C2	1:CA:1169:A:C4	3.07	0.42
38:DD:49:ILE:HG13	38:DD:49:ILE:O	2.20	0.42
15:CO:12:ILE:HG23	15:CO:27:VAL:HG11	2.00	0.42
1:AA:266:G:H5''	1:AA:268:C:N4	2.19	0.42
7:CG:66:VAL:O	7:CG:69:VAL:N	2.40	0.42
40:BF:160:ASN:CB	40:BF:163:VAL:HG23	2.48	0.42
46:BP:75:ILE:O	46:BP:76:LYS:C	2.57	0.42
33:B7:1:MET:O	35:BA:1620:G:O4'	2.38	0.42
23:AW:2:G:C6	23:AW:73:A:C2	3.08	0.42
53:BW:57:ASN:HA	53:BW:57:ASN:HD22	1.63	0.42
40:DF:153:SER:O	40:DF:190:GLU:HB2	2.20	0.42
35:DA:1300:U:O2'	35:DA:1301:A:OP2	2.35	0.42
35:DA:855:G:C6	35:DA:856:C:C4	3.08	0.42
32:D6:15:GLU:O	32:D6:16:CYS:O	2.38	0.42
7:CG:47:CYS:C	7:CG:58:PRO:HG3	2.40	0.42
35:BA:656:G:C6	35:BA:657:U:C4	3.08	0.42
13:CM:28:ALA:O	13:CM:32:GLU:HB2	2.20	0.42
3:AC:87:LEU:CB	3:AC:101:LEU:HD11	2.48	0.42
36:BB:79:C:H42	36:BB:98:G:H1	1.68	0.42
35:BA:966:G:H2'	35:BA:967:C:C6	2.55	0.42
29:D3:11:SER:OG	29:D3:13:ILE:HG12	2.19	0.42
29:D3:16:PRO:CB	29:D3:18:ASP:OD1	2.68	0.42
1:AA:1299:A:N7	1:AA:1301:U:C2	2.88	0.42
1:AA:809:G:C2'	1:AA:810:C:O5'	2.68	0.42
31:D5:15:ARG:NH1	31:D5:15:ARG:HG3	2.35	0.42
35:BA:205:G:O2'	35:BA:206:U:OP2	2.36	0.42
56:BZ:61:LEU:HD12	56:BZ:65:GLN:HB3	2.01	0.42
56:BZ:63:ASP:C	56:BZ:65:GLN:N	2.73	0.42
56:BZ:63:ASP:O	56:BZ:65:GLN:N	2.52	0.42
35:BA:415:A:N1	35:BA:2409:G:C6	2.88	0.42
35:BA:648:G:O4'	35:BA:2351:G:H5''	2.20	0.42
53:DW:12:ILE:HD12	53:DW:42:ARG:HH11	1.84	0.42
1:CA:1365:G:H2'	1:CA:1366:C:C5'	2.50	0.42
1:AA:533:A:C1'	1:AA:534:U:OP1	2.68	0.42
35:DA:2881:C:N3	35:DA:2882:A:N7	2.68	0.42
1:CA:696:A:C4	1:CA:697:U:C5	3.08	0.42
53:BW:64:MET:HG2	53:BW:109:GLU:OE2	2.20	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
53:BW:67:ASP:N	53:BW:69:LEU:HD11	2.33	0.42
35:BA:2881:C:C4	35:BA:2882:A:N7	2.88	0.42
1:CA:1355:G:O2'	1:CA:1356:G:H5'	2.20	0.42
11:AK:86:GLY:H	11:AK:112:THR:CB	2.33	0.42
6:AF:37:VAL:HG12	6:AF:38:GLU:N	2.35	0.42
1:AA:1006:C:H2'	1:AA:1007:C:H6	1.85	0.42
35:DA:1766:U:H2'	35:DA:1767:C:H6	1.83	0.42
16:AP:53:VAL:O	16:AP:54:GLU:C	2.58	0.42
35:BA:122:G:H1	35:BA:129:C:N4	2.17	0.42
35:BA:1623:G:H2'	35:BA:1624:G:C8	2.51	0.42
35:DA:1500:G:C6	35:DA:1501:C:N3	2.87	0.42
35:DA:2687:U:C2'	35:DA:2688:U:H5'	2.50	0.42
35:DA:127:A:H5''	35:DA:128:C:C1'	2.50	0.42
1:CA:1237:C:C4'	1:CA:1334:G:N2	2.83	0.42
39:DE:72:VAL:O	39:DE:73:GLU:C	2.57	0.42
43:DI:82:ARG:HG3	43:DI:82:ARG:NH1	2.34	0.42
13:AM:4:ILE:CG2	13:AM:5:ALA:H	2.33	0.42
50:DT:17:THR:O	50:DT:18:ASP:HB3	2.20	0.42
35:DA:688:U:H5'	35:DA:1780:A:C2	2.55	0.42
45:DO:104:ARG:HH21	50:DT:33:LYS:CE	2.29	0.41
50:DT:101:PHE:CD2	50:DT:101:PHE:C	2.93	0.41
50:DT:27:THR:HA	50:DT:88:ILE:N	2.30	0.41
50:DT:28:VAL:HG23	50:DT:47:GLY:O	2.19	0.41
50:DT:53:ARG:CG	50:DT:53:ARG:O	2.68	0.41
50:DT:8:LYS:O	50:DT:8:LYS:HG2	2.20	0.41
1:CA:983:A:N1	1:CA:1222:G:N2	2.67	0.41
35:BA:1775:U:C2'	35:BA:1776:G:O5'	2.68	0.41
35:DA:1792:G:OP1	38:DD:206:LEU:HB2	2.20	0.41
38:DD:36:PRO:CA	38:DD:62:TYR:O	2.68	0.41
38:DD:35:LYS:CG	38:DD:64:ILE:N	2.70	0.41
41:DG:102:PHE:O	41:DG:103:LEU:C	2.58	0.41
41:DG:105:LYS:HB3	41:DG:142:PRO:CG	2.50	0.41
41:DG:48:GLU:O	41:DG:49:ASP:HB2	2.20	0.41
41:DG:59:GLU:CD	41:DG:60:LEU:CD2	2.89	0.41
35:BA:2382:G:C3'	35:BA:2383:G:H5'	2.50	0.41
47:DQ:24:GLY:CA	47:DQ:101:ARG:HA	2.50	0.41
35:BA:2685:G:OP1	50:BT:51:ARG:NH2	2.53	0.41
45:BO:104:ARG:NH2	50:BT:33:LYS:CE	2.83	0.41
35:BA:904:C:H2'	35:BA:905:U:H5'	2.01	0.41
39:BE:35:GLN:NE2	39:BE:37:ARG:NH2	2.64	0.41
39:BE:3:GLY:O	39:BE:4:ILE:HB	2.20	0.41
42:DH:92:ILE:CG2	42:DH:93:GLY:N	2.72	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AJ:50:ILE:HA	10:AJ:60:ARG:CG	2.50	0.41
10:AJ:51:ARG:HG3	10:AJ:60:ARG:C	2.41	0.41
10:AJ:48:THR:HG1	10:AJ:62:HIS:CG	2.38	0.41
28:B2:18:PRO:O	28:B2:22:GLU:N	2.53	0.41
54:BX:36:LYS:CD	54:BX:36:LYS:O	2.61	0.41
54:BX:78:LYS:C	54:BX:78:LYS:HD3	2.40	0.41
39:DE:82:ARG:CG	39:DE:83:ASP:H	2.26	0.41
2:AB:211:ILE:O	2:AB:215:LEU:CB	2.68	0.41
2:AB:222:ILE:CG2	2:AB:223:ILE:N	2.83	0.41
41:BG:140:ILE:HD12	41:BG:140:ILE:C	2.40	0.41
41:BG:174:GLU:HG3	41:BG:182:LYS:HZ1	1.84	0.41
42:BH:127:GLU:HB2	42:BH:130:ARG:HB3	2.00	0.41
42:BH:122:THR:O	42:BH:133:VAL:HG22	2.20	0.41
42:BH:94:TYR:CZ	42:BH:160:LYS:HD2	2.54	0.41
52:DV:99:ILE:HG22	52:DV:100:ARG:N	2.35	0.41
52:DV:39:LEU:HD22	52:DV:53:GLU:O	2.20	0.41
32:D6:12:GLU:OE1	32:D6:12:GLU:N	2.53	0.41
49:BS:36:TYR:O	49:BS:37:ALA:HB2	2.20	0.41
49:BS:68:GLN:O	49:BS:71:ARG:HB2	2.20	0.41
1:CA:540:G:H2'	1:CA:541:G:O4'	2.20	0.41
4:CD:162:LEU:O	4:CD:165:MET:HB2	2.19	0.41
25:AY:52:LEU:O	25:AY:54:GLN:N	2.53	0.41
25:AY:79:ILE:HG23	25:AY:83:ILE:HD11	2.01	0.41
35:BA:2032:G:N2	35:BA:2572:A:C8	2.88	0.41
35:BA:2572:A:P	39:BE:144:ARG:HB2	2.60	0.41
27:D1:84:GLY:O	27:D1:85:LEU:C	2.58	0.41
35:DA:373:U:O2	35:DA:423:A:H2	2.03	0.41
35:BA:566:U:H4'	35:BA:809:G:OP2	2.20	0.41
35:BA:577:G:N1	35:BA:578:A:C6	2.88	0.41
35:BA:943:U:OP2	46:BP:38:GLN:CG	2.68	0.41
40:DF:110:LEU:HD11	40:DF:181:LEU:O	2.20	0.41
48:DR:32:GLY:O	48:DR:116:LEU:N	2.52	0.41
48:DR:2:ARG:CD	48:DR:2:ARG:C	2.88	0.41
48:BR:14:SER:O	48:BR:15:SER:C	2.59	0.41
48:BR:81:ASP:O	48:BR:82:GLU:HB2	2.20	0.41
50:BT:101:PHE:C	50:BT:101:PHE:CD2	2.93	0.41
49:DS:54:LEU:CD1	49:DS:58:LEU:O	2.63	0.41
2:AB:70:PHE:CD1	2:AB:163:PHE:HB3	2.54	0.41
27:D1:27:GLU:OE1	27:D1:32:LYS:HB2	2.20	0.41
44:DN:51:PHE:O	44:DN:52:VAL:C	2.58	0.41
44:DN:60:ILE:HD13	44:DN:99:LEU:CD2	2.50	0.41
35:BA:2476:A:C3'	35:BA:2477:C:H5''	2.50	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
47:BQ:120:ILE:HA	47:BQ:123:HIS:HD2	1.84	0.41
35:BA:8:A:OP1	44:BN:51:PHE:HE2	2.03	0.41
1:CA:663:A:H2'	1:CA:664:G:C8	2.54	0.41
6:CF:62:TRP:C	6:CF:63:TYR:CD2	2.93	0.41
1:CA:657:G:N2	15:CO:22:THR:OG1	2.52	0.41
15:CO:51:HIS:O	15:CO:52:SER:C	2.57	0.41
40:DF:53:THR:HG23	40:DF:56:GLU:H	1.85	0.41
40:DF:80:ALA:O	40:DF:83:PHE:HB2	2.20	0.41
35:DA:1162:G:N2	52:DV:91:TYR:HE1	2.18	0.41
1:AA:1320:C:H42	19:AS:36:ARG:HG3	1.84	0.41
1:AA:541:G:H2'	1:AA:542:G:H8	1.84	0.41
4:AD:202:LEU:O	4:AD:204:ILE:N	2.53	0.41
47:DQ:14:ARG:O	47:DQ:72:LYS:HE2	2.19	0.41
1:CA:1510:U:C2	1:CA:1526:G:N2	2.88	0.41
35:DA:531:C:C5	35:DA:2035:G:C2	3.08	0.41
35:DA:562:U:C2'	35:DA:563:G:OP2	2.67	0.41
2:AB:153:ARG:O	2:AB:154:LEU:O	2.38	0.41
16:AP:55:ARG:O	16:AP:58:TYR:HB3	2.19	0.41
43:BI:37:VAL:HG12	43:BI:38:LEU:N	2.34	0.41
13:CM:83:ASP:OD2	13:CM:84:ILE:N	2.52	0.41
7:AG:74:GLU:CG	7:AG:75:VAL:N	2.83	0.41
7:AG:74:GLU:HG2	7:AG:75:VAL:N	2.35	0.41
25:AY:18:LEU:CD2	25:AY:171:LYS:HB3	2.49	0.41
1:CA:880:C:H2'	1:CA:881:G:C8	2.55	0.41
23:CW:72:C:H2'	23:CW:73:A:O4'	2.20	0.41
37:BC:42:GLU:O	37:BC:212:VAL:HA	2.19	0.41
35:BA:2618:G:H2'	35:BA:2619:C:H6	1.84	0.41
43:BI:114:LEU:O	43:BI:129:THR:O	2.37	0.41
42:DH:74:ASN:O	42:DH:76:VAL:N	2.52	0.41
26:B0:16:SER:OG	35:BA:2261:C:H3'	2.20	0.41
35:BA:83:G:C4	35:BA:102:G:N2	2.88	0.41
1:CA:1071:C:H2'	1:CA:1072:G:H8	1.84	0.41
35:DA:598:G:H5'	46:DP:15:ARG:CG	2.49	0.41
46:DP:18:ARG:HE	46:DP:18:ARG:HB3	1.53	0.41
20:AT:58:LYS:HE3	20:AT:62:LEU:HD11	2.01	0.41
1:AA:1249:C:H5'	1:AA:1249:C:H6	1.85	0.41
9:AI:92:TYR:N	9:AI:92:TYR:CD1	2.88	0.41
8:CH:134:ILE:HG22	8:CH:135:CYS:SG	2.59	0.41
31:D5:40:LYS:HZ3	31:D5:45:VAL:CA	2.29	0.41
56:DZ:19:ARG:CZ	56:DZ:84:GLU:OE2	2.68	0.41
5:AE:144:THR:O	5:AE:146:ALA:N	2.53	0.41
31:B5:40:LYS:NZ	31:B5:50:GLY:HA2	2.35	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1039:G:N1	35:DA:1117:G:C2	2.88	0.41
7:CG:78:ARG:HG3	7:CG:79:ARG:N	2.35	0.41
56:DZ:110:GLY:C	56:DZ:111:VAL:HG12	2.40	0.41
1:CA:1248:A:H2'	1:CA:1249:C:C5'	2.49	0.41
56:BZ:109:ALA:O	56:BZ:110:GLY:O	2.37	0.41
15:CO:8:LYS:HG2	15:CO:12:ILE:HD11	2.02	0.41
38:DD:130:ALA:HB2	38:DD:192:THR:CA	2.50	0.41
1:CA:686:U:H1'	1:CA:687:A:C8	2.55	0.41
11:CK:20:TYR:O	11:CK:31:THR:N	2.51	0.41
35:BA:1619:G:N1	35:BA:1620:G:C5	2.88	0.41
29:D3:6:VAL:HG12	29:D3:56:VAL:HA	2.02	0.41
7:AG:111:ARG:HB3	7:AG:112:PRO:HD2	2.02	0.41
17:CQ:17:LYS:HA	17:CQ:46:ASP:O	2.19	0.41
17:CQ:45:HIS:HE2	17:CQ:47:PRO:HB3	1.85	0.41
1:AA:1197:G:C2'	1:AA:1198:G:H5'	2.50	0.41
1:AA:1054:C:OP1	1:AA:1197:G:OP2	2.38	0.41
35:DA:2171:A:O2'	35:DA:2172:U:H6	2.03	0.41
1:AA:1254:C:H2'	1:AA:1255:G:H8	1.85	0.41
13:AM:78:ILE:HA	13:AM:81:LEU:HD12	2.01	0.41
1:AA:1298:C:O4'	1:AA:1299:A:C4	2.73	0.41
38:BD:140:THR:O	38:BD:165:ILE:CD1	2.68	0.41
12:CL:117:ARG:HD2	12:CL:122:THR:HB	2.02	0.41
35:BA:1635:G:H2'	35:BA:1636:C:C6	2.55	0.41
1:CA:762:C:H2'	1:CA:763:G:H8	1.84	0.41
35:BA:2392:A:C2	35:BA:2429:G:C4	3.08	0.41
35:DA:1810:A:H2'	35:DA:1811:G:O4'	2.20	0.41
41:DG:4:ASP:CA	41:DG:8:LYS:HD3	2.42	0.41
36:BB:82:G:O2'	36:BB:83:G:H5'	2.19	0.41
6:AF:14:LEU:HD11	6:AF:19:LEU:HB2	1.98	0.41
1:AA:768:A:N3	1:AA:1512:U:O2'	2.53	0.41
35:DA:479:A:N6	35:DA:503:A:H61	2.17	0.41
1:AA:296:U:O2'	1:AA:297:G:H5'	2.20	0.41
35:BA:986:C:C2'	35:BA:987:G:H5'	2.50	0.41
45:DO:13:ASN:ND2	45:DO:97:ARG:N	2.68	0.41
7:AG:39:ALA:O	7:AG:41:ARG:N	2.53	0.41
1:CA:799:G:C6	1:CA:800:G:C4	3.08	0.41
1:AA:1126:U:H2'	1:AA:1127:G:O4'	2.20	0.41
1:CA:1284:C:H3'	1:CA:1285:A:H8	1.84	0.41
1:CA:1084:G:C5	1:CA:1085:U:C4	3.07	0.41
53:DW:71:VAL:HG12	53:DW:71:VAL:O	2.19	0.41
35:BA:2880:C:H4'	48:BR:90:ARG:NH1	2.35	0.41
27:D1:57:GLU:HA	27:D1:57:GLU:OE1	2.20	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1935:G:H3'	35:BA:1962:C:N4	2.32	0.41
1:AA:1164:G:C2'	1:AA:1165:C:H5'	2.50	0.41
47:DQ:61:GLY:O	47:DQ:62:GLY:O	2.38	0.41
1:CA:1007:C:H2'	1:CA:1008:C:C5	2.54	0.41
35:DA:426:C:H2'	35:DA:427:U:C5'	2.50	0.41
1:AA:73:G:C2	1:AA:97:G:N1	2.88	0.41
35:DA:2555:U:H2'	35:DA:2556:C:C5'	2.49	0.41
35:DA:1766:U:H2'	35:DA:1767:C:C6	2.54	0.41
3:AC:59:ARG:HA	3:AC:63:ASN:O	2.20	0.41
35:BA:14:A:C6	35:BA:526:A:C2	3.07	0.41
13:AM:40:ASN:HD22	13:AM:43:THR:HG23	1.83	0.41
22:CV:34:A:H2'	22:CV:35:A:C8	2.55	0.41
35:BA:2531:A:H2	35:BA:2658:C:O2	2.03	0.41
37:BC:51:PRO:HB3	37:BC:204:ALA:CB	2.50	0.41
35:DA:324:A:N6	35:DA:338:G:O2'	2.51	0.41
2:AB:23:ARG:O	2:AB:23:ARG:HG2	2.20	0.41
8:AH:95:VAL:HG22	8:AH:131:GLY:O	2.20	0.41
35:BA:1433:U:O2	35:BA:1561:G:C2	2.73	0.41
37:BC:18:LYS:O	37:BC:20:TYR:N	2.53	0.41
30:B4:13:ARG:O	30:B4:15:ILE:N	2.42	0.41
1:CA:1187:G:H2'	1:CA:1187:G:N3	2.35	0.41
1:AA:30:U:O2'	1:AA:31:G:OP1	2.29	0.41
5:CE:62:ALA:O	5:CE:63:ARG:C	2.58	0.41
35:DA:1666:G:N1	35:DA:1995:U:O4	2.53	0.41
45:DO:104:ARG:C	45:DO:106:LEU:H	2.21	0.41
45:DO:2:ILE:O	45:DO:33:ALA:N	2.53	0.41
14:CN:41:ARG:CG	14:CN:42:ILE:H	2.33	0.41
41:DG:19:LEU:HA	41:DG:22:ARG:HB3	2.02	0.41
38:BD:226:MET:CB	38:BD:230:ASP:HB2	2.41	0.41
38:BD:94:LEU:C	38:BD:94:LEU:HD13	2.40	0.41
1:CA:1397:C:N3	24:CX:22:U:H6	2.17	0.41
35:DA:1778:U:C6	35:DA:1784:A:C6	3.08	0.41
35:DA:1783:A:OP1	35:DA:1784:A:OP2	2.38	0.41
35:DA:1790:C:C2'	35:DA:1791:A:C8	3.03	0.41
38:DD:211:ARG:C	38:DD:213:ARG:N	2.73	0.41
36:DB:43:C:H3'	36:DB:44:G:H5'	2.01	0.41
32:B6:12:GLU:O	32:B6:51:GLU:O	2.37	0.41
50:BT:32:TYR:HD2	50:BT:81:PRO:HB2	1.85	0.41
35:DA:1577:C:H2'	35:DA:1578:U:H6	1.77	0.41
35:BA:998:C:N4	35:BA:1158:C:N4	2.67	0.41
44:BN:113:GLY:O	44:BN:114:ARG:C	2.57	0.41
52:BV:99:ILE:HG22	52:BV:100:ARG:N	2.34	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:DH:121:ILE:HG22	42:DH:133:VAL:HG11	2.02	0.41
1:AA:1223:C:H3'	1:AA:1224:G:H5''	2.02	0.41
1:AA:983:A:N1	1:AA:1222:G:N2	2.67	0.41
1:AA:973:G:P	10:AJ:57:LYS:NZ	2.93	0.41
54:BX:76:ARG:O	54:BX:77:LYS:CB	2.66	0.41
35:DA:2633:G:C2	35:DA:2634:G:C4	3.08	0.41
27:B1:13:ILE:CB	27:B1:63:ALA:HB2	2.46	0.41
27:B1:70:VAL:O	27:B1:72:GLU:N	2.53	0.41
35:BA:2219:G:C2'	35:BA:2220:G:H5'	2.50	0.41
2:AB:212:GLN:O	2:AB:213:LEU:C	2.58	0.41
35:BA:2313:C:H2'	35:BA:2314:C:C6	2.55	0.41
28:D2:29:LYS:O	28:D2:32:LEU:N	2.52	0.41
35:DA:1601:G:OP2	54:DX:58:HIS:CD2	2.73	0.41
36:DB:105:A:O2'	56:DZ:30:ASN:C	2.58	0.41
56:DZ:44:PHE:CD1	56:DZ:48:PHE:HB2	2.54	0.41
56:DZ:5:LEU:HD21	56:DZ:43:GLU:CB	2.51	0.41
51:DU:62:ILE:O	51:DU:65:ILE:HB	2.21	0.41
52:DV:39:LEU:O	52:DV:50:PRO:HA	2.20	0.41
35:DA:2597:G:C5	35:DA:2598:A:N6	2.88	0.41
1:AA:1050:G:H2'	1:AA:1051:C:H6	1.85	0.41
4:CD:39:PRO:HB3	4:CD:40:PRO:HD2	2.01	0.41
4:CD:60:GLU:O	4:CD:63:LYS:N	2.53	0.41
47:BQ:68:ILE:HG22	47:BQ:101:ARG:HE	1.85	0.41
3:CC:134:ILE:HG23	3:CC:151:VAL:CG1	2.49	0.41
3:CC:150:LYS:HA	3:CC:168:ALA:O	2.20	0.41
40:BF:123:LEU:HD13	40:BF:192:LEU:HD22	2.02	0.41
27:D1:76:ARG:CA	27:D1:76:ARG:NE	2.82	0.41
44:DN:62:VAL:O	44:DN:63:THR:CG2	2.63	0.41
35:BA:2071:A:H2'	35:BA:2072:G:C8	2.54	0.41
35:BA:28:A:H1'	35:BA:513:A:N1	2.35	0.41
40:DF:182:ASN:OD1	40:DF:185:ASP:N	2.53	0.41
40:DF:199:TRP:O	40:DF:202:PHE:HB3	2.21	0.41
47:BQ:16:ARG:HH11	47:BQ:16:ARG:CB	2.33	0.41
35:DA:1655:A:H4'	39:DE:115:GLY:N	2.34	0.41
48:DR:9:LYS:O	48:DR:10:LEU:CD2	2.68	0.41
35:BA:2818:G:O2'	35:BA:2819:G:H5'	2.20	0.41
49:DS:23:ARG:O	49:DS:24:LEU:C	2.59	0.41
49:DS:66:ALA:O	49:DS:68:GLN:N	2.50	0.41
26:B0:70:GLN:HB3	26:B0:78:TYR:HB2	2.02	0.41
2:AB:36:ARG:NE	2:AB:36:ARG:HA	2.35	0.41
44:DN:116:LEU:O	44:DN:119:ARG:HB2	2.20	0.41
6:CF:14:LEU:HD11	6:CF:19:LEU:HB2	2.01	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
11:CK:116:HIS:O	11:CK:117:ASN:CB	2.67	0.41
15:CO:67:LEU:HA	15:CO:67:LEU:HD23	1.79	0.41
46:DP:48:PRO:O	46:DP:50:ARG:N	2.52	0.41
4:AD:100:ARG:HG2	4:AD:100:ARG:HH11	1.84	0.41
12:AL:10:LEU:HB3	17:AQ:32:TYR:CE1	2.55	0.41
18:AR:22:VAL:HG13	18:AR:25:THR:HB	2.01	0.41
35:BA:2765:A:H2	35:BA:2766:G:O4'	2.03	0.41
46:BP:148:LEU:C	46:BP:148:LEU:HD22	2.40	0.41
35:DA:447:A:N3	35:DA:473:G:C8	2.88	0.41
25:CY:131:ASN:O	25:CY:133:ARG:N	2.53	0.41
25:CY:16:LYS:C	25:CY:18:LEU:H	2.23	0.41
12:CL:70:ILE:HG13	12:CL:100:ILE:CD1	2.49	0.41
1:AA:452:A:C4	1:AA:453:A:C8	3.09	0.41
1:CA:1445:C:O2'	1:CA:1446:U:H5'	2.20	0.41
1:CA:1458:G:C4	1:CA:1459:C:C5	3.08	0.41
1:CA:1457:G:P	20:CT:39:LYS:HZ2	2.43	0.41
44:BN:79:PRO:HG2	44:BN:80:GLY:N	2.35	0.41
11:CK:29:ILE:HD12	11:CK:29:ILE:O	2.19	0.41
11:AK:84:VAL:HG11	11:AK:95:ILE:CD1	2.50	0.41
7:CG:74:GLU:HG2	7:CG:75:VAL:N	2.35	0.41
42:DH:68:THR:C	42:DH:70:THR:N	2.73	0.41
22:AV:31:U:H6	22:AV:31:U:O5'	2.03	0.41
13:AM:91:ARG:NH2	13:AM:97:PRO:O	2.53	0.41
35:DA:225:A:N6	35:DA:419:C:H4'	2.36	0.41
1:CA:1347:G:C2	9:CI:107:ARG:NH2	2.88	0.41
12:AL:90:VAL:C	12:AL:92:ASP:N	2.73	0.41
9:AI:70:LYS:O	9:AI:73:GLN:HB2	2.20	0.41
1:CA:825:G:O2'	1:CA:826:C:H5'	2.20	0.41
8:CH:26:VAL:HG12	8:CH:59:LEU:HB2	2.01	0.41
8:CH:36:LEU:O	8:CH:37:ARG:C	2.57	0.41
35:DA:2163:C:O2'	35:DA:2164:C:P	2.78	0.41
56:BZ:177:PRO:O	56:BZ:178:GLU:CG	2.61	0.41
42:BH:61:HIS:C	42:BH:63:SER:H	2.22	0.41
1:CA:1249:C:H4'	9:CI:36:TYR:OH	2.19	0.41
35:BA:2297:C:H2'	35:BA:2298:A:C5'	2.36	0.41
35:BA:1176:G:C1'	35:BA:1177:A:OP1	2.64	0.41
16:CP:74:LEU:O	16:CP:77:ALA:HB3	2.20	0.41
7:CG:66:VAL:HB	7:CG:67:GLU:OE2	2.20	0.41
7:CG:60:LYS:HD2	7:CG:63:LYS:HG2	2.02	0.41
35:BA:2732:G:H2'	35:BA:2733:A:H5'	1.97	0.41
7:AG:65:ALA:HB2	7:AG:124:LEU:O	2.20	0.41
1:CA:1422:G:C2	1:CA:1423:G:N7	2.88	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
45:DO:49:ARG:HD3	45:DO:49:ARG:N	2.35	0.41
35:BA:1417:C:H2'	35:BA:1418:G:C5'	2.50	0.41
35:DA:1301:A:H2	35:DA:1626:G:H21	1.68	0.41
35:BA:2801(A):A:H4'	35:BA:2802:G:C5'	2.48	0.41
35:DA:1688:U:O2	35:DA:1700:A:H8	2.04	0.41
35:BA:2627:G:H21	35:BA:2781:A:H2	1.65	0.41
35:DA:1271:G:N2	35:DA:1617:C:H4'	2.35	0.41
26:B0:36:ILE:HD11	35:BA:2355:C:O4'	2.20	0.41
35:BA:2331:G:C6	35:BA:2332:U:C4	3.08	0.41
35:BA:863:A:H4'	36:BB:101:G:C2	2.55	0.41
15:AO:67:LEU:HA	15:AO:67:LEU:HD23	1.80	0.41
35:DA:1722:A:H2	35:DA:1740:G:H2'	1.86	0.41
35:DA:1707:G:C4	35:DA:1756:G:C2	3.08	0.41
56:DZ:77:ASP:O	56:DZ:77:ASP:OD1	2.38	0.41
36:BB:81:G:H5'	36:BB:82:G:OP2	2.20	0.41
36:DB:64:C:H2'	36:DB:65:C:C6	2.55	0.41
35:DA:614:U:C4'	35:DA:614(C):A:H62	2.33	0.41
1:AA:1511:G:O5'	1:AA:1511:G:H8	2.04	0.41
19:AS:45:VAL:C	19:AS:47:HIS:H	2.22	0.41
1:AA:298:A:H2'	1:AA:299:G:O4'	2.20	0.41
35:DA:1389:G:H2'	35:DA:1390:U:C6	2.55	0.41
1:AA:947:G:H2'	1:AA:948:C:C6	2.54	0.41
43:BI:60:GLU:C	43:BI:62:LYS:H	2.22	0.41
53:BW:71:VAL:HA	53:BW:107:LEU:HD12	2.01	0.41
7:AG:24:THR:HA	7:AG:27:ILE:HD13	2.01	0.41
17:CQ:12:SER:HA	17:CQ:14:LYS:HZ1	1.86	0.41
23:AW:17:C:O5'	23:AW:62:C:H5'	2.20	0.41
1:AA:992:U:O2'	1:AA:993:G:P	2.78	0.41
31:B5:15:ARG:HA	31:B5:18:ALA:HB3	2.01	0.41
36:BB:16:G:H2'	36:BB:17:C:H6	1.84	0.41
35:BA:42:G:C2	35:BA:437:G:C2	3.08	0.41
1:CA:474:G:H2'	1:CA:475:G:H8	1.86	0.41
37:BC:86:ALA:HB1	37:BC:94:VAL:HG11	2.02	0.41
23:AW:6:G:C2	23:AW:69:C:O2	2.73	0.41
13:CM:43:THR:HB	13:CM:44:ARG:H	1.61	0.41
1:AA:44:G:H2'	1:AA:45:U:O4'	2.20	0.41
35:DA:1564:C:H2'	35:DA:1565:C:C6	2.55	0.41
36:BB:71:C:H2'	36:BB:72:G:O4'	2.20	0.41
13:CM:4:ILE:HG22	13:CM:5:ALA:N	2.35	0.41
35:DA:2343:C:O2'	35:DA:2373:G:H4'	2.19	0.41
1:AA:1059:C:O2	10:AJ:53:PRO:HG3	2.20	0.41
11:AK:114:VAL:O	11:AK:114:VAL:HG13	2.20	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
50:DT:35:LYS:CE	50:DT:41:ARG:HG3	2.50	0.41
1:CA:1229:A:O2'	1:CA:1230:C:H5'	2.20	0.41
10:CJ:50:ILE:CD1	10:CJ:50:ILE:N	2.69	0.41
35:BA:1568:G:P	38:BD:63:ARG:HH22	2.44	0.41
35:BA:1812:A:C1'	38:BD:46:GLN:HE22	2.33	0.41
35:BA:2085:C:O2'	35:BA:2086:U:H5'	2.20	0.41
35:DA:1794:U:H2'	35:DA:1795:C:C6	2.55	0.41
38:DD:29:PRO:O	38:DD:30:GLU:C	2.59	0.41
38:DD:34:VAL:HG22	38:DD:35:LYS:HZ2	1.84	0.41
38:DD:92:ILE:C	38:DD:107:ALA:HB2	2.41	0.41
41:DG:67:LYS:CD	41:DG:67:LYS:H	2.29	0.41
41:DG:43:LEU:HD11	41:DG:90:LEU:H	1.84	0.41
41:DG:96:ARG:C	41:DG:99:MET:HB3	2.41	0.41
1:AA:1442:G:C8	1:AA:1442(B):A:N1	2.89	0.41
45:BO:87:ILE:CG2	45:BO:91:LEU:HD13	2.51	0.41
50:BT:48:ILE:HD12	50:BT:48:ILE:H	1.85	0.41
50:BT:65:LYS:HG3	50:BT:66:VAL:N	2.35	0.41
50:BT:64:ARG:CB	50:BT:73:GLU:HB3	2.48	0.41
50:BT:88:ILE:CD1	50:BT:88:ILE:N	2.83	0.41
56:BZ:28:MET:SD	56:BZ:37:VAL:HG21	2.60	0.41
56:BZ:56:VAL:HG13	56:BZ:57:ILE:N	2.35	0.41
47:BQ:141:GLN:CG	56:BZ:72:ARG:HE	2.32	0.41
47:BQ:27:VAL:HG23	56:BZ:81:ARG:HH22	1.85	0.41
35:DA:1416:G:HO2'	35:DA:1417:C:H6	1.60	0.41
35:BA:1153:C:N4	35:BA:1154:G:N1	2.68	0.41
1:AA:1231:G:H2'	1:AA:1232:U:O4'	2.20	0.41
10:AJ:48:THR:HG23	10:AJ:62:HIS:CA	2.50	0.41
14:AN:33:VAL:HG12	14:AN:34:TYR:H	1.85	0.41
54:BX:40:LYS:HD2	54:BX:41:ASN:CA	2.49	0.41
54:BX:59:VAL:HB	54:BX:60:ARG:H	1.30	0.41
39:DE:35:GLN:NE2	39:DE:37:ARG:NH2	2.67	0.41
41:BG:165:THR:O	41:BG:166:ASP:C	2.58	0.41
41:BG:43:LEU:HD12	41:BG:153:ARG:CD	2.50	0.41
55:DY:8:LYS:HZ1	55:DY:74:PRO:HD3	1.86	0.41
42:BH:87:LEU:HA	42:BH:164:TYR:O	2.20	0.41
35:BA:2773:C:OP1	39:BE:164:ARG:HG2	2.20	0.41
35:DA:906:G:H2'	35:DA:907:U:O4'	2.20	0.41
47:DQ:115:MET:CE	47:DQ:133:ARG:HH21	2.33	0.41
56:DZ:108:PRO:HB2	56:DZ:144:LEU:H	1.83	0.41
56:DZ:151:HIS:CA	56:DZ:170:THR:HA	2.47	0.41
44:DN:44:PRO:C	44:DN:46:VAL:N	2.72	0.41
51:DU:103:PRO:O	51:DU:104:GLN:C	2.59	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1203:C:OP1	14:AN:3:ARG:CD	2.65	0.41
1:CA:1063:C:H3'	1:CA:1064:G:H2'	2.03	0.41
32:D6:24:GLU:OE2	35:DA:2346:A:O2'	2.39	0.41
49:BS:24:LEU:N	49:BS:24:LEU:HD22	2.36	0.41
49:BS:66:ALA:O	49:BS:68:GLN:N	2.51	0.41
49:BS:87:PHE:CE2	49:BS:88:ASP:O	2.73	0.41
47:BQ:24:GLY:CA	47:BQ:101:ARG:HA	2.51	0.41
40:BF:46:ARG:HG3	40:BF:48:THR:CG2	2.50	0.41
35:BA:389:G:C8	35:BA:2413:G:H4'	2.55	0.41
3:CC:14:ILE:HG12	3:CC:15:THR:N	2.35	0.41
46:BP:33:ARG:O	46:BP:35:HIS:N	2.52	0.41
46:BP:47:ASP:CG	46:BP:49:ARG:HB3	2.40	0.41
40:DF:3:GLU:O	40:DF:19:GLU:CB	2.69	0.41
40:DF:24:LEU:N	40:DF:24:LEU:HD22	2.35	0.41
48:BR:9:LYS:HG3	48:BR:43:GLU:OE2	2.20	0.41
49:DS:24:LEU:HD22	49:DS:24:LEU:N	2.34	0.41
49:DS:69:VAL:CG1	49:DS:70:GLY:N	2.83	0.41
49:DS:77:ALA:O	49:DS:79:ALA:N	2.53	0.41
2:CB:222:ILE:CG2	2:CB:223:ILE:N	2.81	0.41
2:AB:16:HIS:HB3	2:AB:210:SER:OG	2.21	0.41
56:BZ:116:VAL:HG12	56:BZ:117:LEU:CD2	2.48	0.41
44:BN:30:ILE:CD1	44:BN:54:VAL:HG21	2.46	0.41
1:CA:660:G:C2	1:CA:661:G:C4	3.08	0.41
18:CR:65:ILE:HD12	18:CR:66:LEU:H	1.77	0.41
18:CR:79:LEU:HA	18:CR:80:PRO:HD3	1.77	0.41
2:CB:164:VAL:HG12	2:CB:165:VAL:N	2.35	0.41
2:CB:11:LEU:O	2:CB:16:HIS:CE1	2.73	0.41
34:D8:56:GLU:C	34:D8:58:ILE:H	2.22	0.41
35:DA:685:A:N1	35:DA:787:U:H1'	2.35	0.41
35:DA:687:C:H42	35:DA:787:U:H4'	1.85	0.41
4:AD:152:SER:O	4:AD:154:ASN:N	2.53	0.41
35:DA:85:G:N2	35:DA:86:C:H1'	2.35	0.41
4:AD:9:CYS:SG	4:AD:22:LYS:CE	3.08	0.41
1:AA:673:G:C6	1:AA:734:G:C6	3.07	0.41
11:AK:115:PRO:C	11:AK:116:HIS:ND1	2.74	0.41
18:AR:26:LEU:HD21	18:AR:42:ARG:NH1	2.36	0.41
35:BA:2470:G:OP1	47:BQ:56:ARG:NH2	2.53	0.41
25:CY:142:LYS:HA	25:CY:145:LYS:HE2	2.02	0.41
25:CY:21:LEU:HD11	25:CY:121:TYR:C	2.40	0.41
12:CL:101:VAL:O	12:CL:103:GLY:N	2.53	0.41
12:CL:27:LEU:O	12:CL:28:LYS:C	2.58	0.41
1:CA:1226:C:C2	13:CM:104:ARG:HA	2.55	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:754:C:H2'	35:BA:755:C:C6	2.55	0.41
23:CW:70:C:H2'	23:CW:71:G:C8	2.54	0.41
26:B0:32:ARG:HB3	26:B0:32:ARG:HE	1.63	0.41
35:BA:2123:G:O2'	35:BA:2124:G:H5'	2.20	0.41
11:AK:67:ASP:HA	11:AK:70:LYS:HB3	2.02	0.41
11:AK:84:VAL:HG11	11:AK:95:ILE:HD11	2.00	0.41
33:B7:31:LEU:HD23	33:B7:31:LEU:HA	1.62	0.41
33:B7:29:LYS:NZ	33:B7:32:LYS:NZ	2.68	0.41
43:BI:98:ALA:HB1	43:BI:109:ILE:HD13	2.01	0.41
40:DF:133:ASN:O	40:DF:134:GLY:C	2.58	0.41
55:BY:14:LEU:HD12	55:BY:23:ARG:O	2.20	0.41
55:BY:28:LYS:O	55:BY:37:VAL:O	2.38	0.41
11:AK:26:ASN:O	11:AK:27:ASN:CB	2.67	0.41
13:AM:83:ASP:OD2	13:AM:84:ILE:N	2.53	0.41
8:AH:120:THR:C	8:AH:122:ARG:H	2.24	0.41
1:AA:1079:G:C2	1:AA:1080:A:C5	3.08	0.41
5:AE:20:GLN:O	5:AE:21:ALA:C	2.58	0.41
25:CY:41:LEU:N	25:CY:41:LEU:HD12	2.22	0.41
9:CI:79:LEU:HD13	9:CI:79:LEU:C	2.41	0.41
1:AA:538:G:P	12:AL:115:LYS:HB2	2.60	0.41
12:AL:113:ARG:O	12:AL:122:THR:HG21	2.20	0.41
1:AA:874:G:O2'	1:AA:875:C:H5'	2.20	0.41
1:AA:876:G:H1'	8:AH:11:THR:HG21	2.01	0.41
8:AH:5:PRO:HA	8:AH:8:ASP:HB3	2.02	0.41
1:AA:1128:C:H2'	1:AA:1130:A:C8	2.55	0.41
9:AI:50:LEU:O	9:AI:53:VAL:CG2	2.63	0.41
8:CH:86:ILE:HG22	8:CH:87:SER:N	2.35	0.41
31:B5:48:GLU:OE1	31:B5:49:CYS:SG	2.73	0.41
12:AL:75:HIS:CD2	12:AL:77:LEU:HG	2.42	0.41
31:D5:31:VAL:O	31:D5:32:PRO:C	2.59	0.41
1:AA:1349:A:OP1	9:AI:118:LYS:HB2	2.21	0.41
35:BA:2748:A:C2	35:BA:2757:A:C4	3.08	0.41
42:BH:58:GLU:O	42:BH:61:HIS:HB2	2.20	0.41
46:BP:126:VAL:CA	46:BP:145:PRO:HG2	2.46	0.41
38:DD:185:VAL:HG12	38:DD:189:CYS:SG	2.60	0.41
35:DA:2320:A:N3	35:DA:2320:A:H2'	2.35	0.41
53:BW:10:VAL:O	53:BW:11:ARG:HB2	2.20	0.41
35:DA:1231:G:H2'	35:DA:1232:G:C8	2.55	0.41
1:CA:1413:A:C2	1:CA:1414:U:C2	3.09	0.41
39:DE:201:THR:CG2	39:DE:203:LYS:HB3	2.50	0.41
38:DD:53:PHE:CD1	38:DD:219:PRO:O	2.73	0.41
2:AB:100:GLY:CA	2:AB:104:ASN:H	2.34	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:AB:102:LEU:HD22	2:AB:176:GLU:HB3	2.01	0.41
1:AA:11:G:H2'	1:AA:12:U:H6	1.85	0.41
1:CA:100:C:H2'	1:CA:101:A:C8	2.56	0.41
1:CA:107:G:C2'	1:CA:108:G:H5'	2.50	0.41
1:CA:325:A:N6	1:CA:326:G:N1	2.68	0.41
35:DA:1484:G:C3'	35:DA:1485:G:C5'	2.94	0.41
13:CM:68:GLY:O	13:CM:70:LEU:N	2.53	0.41
3:CC:88:ARG:N	3:CC:101:LEU:HD12	2.35	0.41
46:DP:59:LEU:HA	46:DP:61:ARG:HD2	2.02	0.41
8:AH:54:ASP:C	8:AH:56:LYS:N	2.74	0.41
35:DA:1353:A:H4'	38:DD:38:LYS:HZ3	1.84	0.41
35:DA:1721:G:C6	35:DA:1739:U:H5'	2.54	0.41
12:CL:120:TYR:N	12:CL:120:TYR:CD1	2.88	0.41
27:B1:41:ARG:HG3	27:B1:41:ARG:NH1	2.30	0.41
43:BI:51:ILE:CG2	43:BI:52:ARG:N	2.80	0.41
35:BA:2408:U:C2	35:BA:2409:G:C8	3.08	0.41
1:CA:477:A:HO2'	1:CA:479:C:H5'	1.82	0.41
1:AA:1287:A:C5	1:AA:1288:A:N6	2.88	0.41
1:AA:69:G:C2	1:AA:70:G:C5	3.08	0.41
36:DB:24:G:H4'	36:DB:25:A:H8	1.80	0.41
17:CQ:11:VAL:HG23	17:CQ:20:THR:HB	2.01	0.41
10:CJ:78:ASN:O	10:CJ:80:LYS:N	2.53	0.41
1:AA:1284:C:H3'	1:AA:1285:A:H8	1.85	0.41
35:BA:1515:G:N2	35:BA:1516:C:H1'	2.35	0.41
11:CK:86:GLY:H	11:CK:112:THR:CB	2.33	0.41
1:CA:1003:G:H8	1:CA:1003:G:O5'	2.04	0.41
35:DA:313:C:H2'	35:DA:314:A:C8	2.50	0.41
37:BC:89:ALA:HB1	37:BC:152:ILE:O	2.20	0.41
35:DA:438:G:H2'	35:DA:440:G:C8	2.55	0.41
56:DZ:22:GLY:C	56:DZ:41:LEU:HD21	2.41	0.41
2:CB:229:VAL:HG12	2:CB:229:VAL:O	2.20	0.41
35:BA:2068:U:H3	35:BA:2430:A:H2	1.62	0.41
35:BA:179:G:C4	35:BA:180:G:C8	3.08	0.41
1:CA:992:U:O2'	1:CA:993:G:P	2.78	0.41
38:DD:105:ILE:O	38:DD:105:ILE:HG23	2.20	0.41
35:BA:210:C:H2'	35:BA:211:A:H8	1.85	0.41
35:BA:2251:G:C2	35:BA:2450:A:H1'	2.56	0.41
35:DA:1433:U:O2	35:DA:1561:G:C2	2.73	0.41
57:DC:74:VAL:HB	57:DC:91:ALA:HB2	2.03	0.41
35:BA:1360:A:C6	35:BA:1372:U:C4	3.09	0.41
37:BC:74:VAL:HB	37:BC:91:ALA:HB2	2.02	0.41
35:DA:1545:A:N7	35:DA:1546:C:C2	2.88	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:DB:71:C:H2'	36:DB:72:G:O4'	2.20	0.41
35:BA:2603:G:H4'	35:BA:2603:G:OP2	2.20	0.41
40:BF:78:ILE:HG13	40:BF:78:ILE:H	1.65	0.41
47:BQ:6:ARG:O	47:BQ:6:ARG:HG3	2.19	0.41
45:DO:8:LEU:N	45:DO:8:LEU:HD22	2.36	0.41
2:CB:44:LEU:H	2:CB:44:LEU:HG	1.64	0.41
1:CA:1113:C:O5'	1:CA:1113:C:H6	2.03	0.41
55:DY:47:LYS:HD2	55:DY:47:LYS:N	2.35	0.41
55:DY:62:GLU:OE1	55:DY:62:GLU:HA	2.20	0.41
50:DT:100:TYR:HD1	50:DT:100:TYR:H	1.68	0.41
9:CI:126:SER:O	9:CI:128:ARG:HD3	2.21	0.41
14:CN:27:CYS:CB	14:CN:43:CYS:SG	3.02	0.41
5:CE:131:ILE:O	5:CE:132:ALA:C	2.59	0.41
1:CA:607:A:C4	1:CA:608:A:C8	3.09	0.41
41:DG:48:GLU:HG2	41:DG:49:ASP:N	2.29	0.41
41:DG:53:LEU:HD22	41:DG:56:ALA:HB2	2.02	0.41
41:DG:63:ILE:HB	41:DG:141:PHE:CE1	2.56	0.41
41:DG:90:LEU:HD12	41:DG:90:LEU:N	2.35	0.41
10:CJ:4:ILE:N	10:CJ:4:ILE:HD12	2.36	0.41
10:CJ:8:LEU:H	10:CJ:8:LEU:HD12	1.85	0.41
32:B6:10:LEU:O	32:B6:11:LEU:HD22	2.21	0.41
34:B8:31:HIS:CG	35:BA:2419:U:O4	2.74	0.41
50:BT:28:VAL:HG11	50:BT:46:GLU:CD	2.41	0.41
47:BQ:141:GLN:OE1	56:BZ:70:LEU:HB3	2.20	0.41
35:BA:2787:C:O2	39:BE:61:ARG:NH1	2.53	0.41
39:BE:48:GLN:O	39:BE:49:LEU:HD13	2.20	0.41
39:BE:49:LEU:O	39:BE:78:LEU:CA	2.69	0.41
39:BE:61:ARG:CG	39:BE:62:PRO:N	2.84	0.41
51:BU:65:ILE:HG22	51:BU:66:ASN:N	2.35	0.41
52:BV:22:VAL:HG21	52:BV:96:ILE:CG1	2.51	0.41
10:AJ:64:GLU:HG3	10:AJ:64:GLU:O	2.19	0.41
14:AN:53:LEU:HD23	14:AN:53:LEU:HA	1.88	0.41
1:AA:1223:C:P	19:AS:78:ARG:HH12	2.43	0.41
39:DE:61:ARG:HG2	39:DE:62:PRO:CD	2.46	0.41
57:DC:51:PRO:HB3	57:DC:204:ALA:CB	2.50	0.41
27:B1:19:GLN:HB3	35:BA:380:U:O2'	2.21	0.41
35:DA:331:A:O2'	35:DA:332:A:OP1	2.36	0.41
28:D2:32:LEU:HD22	28:D2:44:LEU:HD21	2.01	0.41
35:DA:2419:U:H2'	35:DA:2420:C:C6	2.56	0.41
35:BA:1493:C:O2	35:BA:1493:C:H2'	2.21	0.41
36:BB:32:C:C2	36:BB:51:G:N2	2.89	0.41
49:BS:13:ARG:N	49:BS:13:ARG:CD	2.70	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:CD:101:LEU:O	4:CD:104:VAL:HB	2.20	0.41
4:CD:18:LYS:HZ1	4:CD:31:CYS:HB3	1.83	0.41
44:BN:95:PRO:O	44:BN:96:GLU:C	2.59	0.41
35:BA:2575:C:C5'	39:BE:144:ARG:HD3	2.46	0.41
34:D8:26:LYS:HZ3	34:D8:47:LYS:HD3	1.85	0.41
34:B8:49:VAL:O	34:B8:50:LEU:HB3	2.20	0.41
35:BA:942:G:H1'	35:BA:1189:A:C2	2.55	0.41
35:BA:2078:C:C2	35:BA:2079:U:C6	3.08	0.41
35:BA:28:A:C8	35:BA:513:A:C5	3.08	0.41
35:BA:811:U:O2	35:BA:1251:C:C6	2.73	0.41
55:BY:81:LYS:HA	55:BY:82:PRO:HD3	1.84	0.41
35:DA:2820:A:C8	39:DE:191:PRO:CB	2.94	0.41
48:DR:21:TYR:HB3	48:DR:47:PHE:CD2	2.55	0.41
48:DR:28:LEU:HD12	48:DR:29:LEU:HD13	2.02	0.41
44:DN:27:ALA:O	44:DN:30:ILE:N	2.53	0.41
2:CB:166:ASP:O	2:CB:167:PRO:O	2.38	0.41
35:DA:195:A:O5'	35:DA:196:A:H4'	2.20	0.41
35:DA:687:C:N3	35:DA:788:A:H5'	2.35	0.41
4:AD:154:ASN:HB2	4:AD:159:ARG:HH21	1.84	0.41
3:AC:11:ARG:O	3:AC:13:GLY:N	2.53	0.41
1:AA:1319:A:OP2	19:AS:5:LEU:HD23	2.20	0.41
55:DY:28:LYS:CB	55:DY:39:VAL:H	2.32	0.41
55:DY:20:TYR:CZ	55:DY:42:VAL:HA	2.55	0.41
17:AQ:29:HIS:CE1	17:AQ:31:LEU:H	2.32	0.41
1:CA:781:A:O2'	1:CA:1522:U:O2	2.36	0.41
25:CY:25:LEU:C	25:CY:27:GLY:H	2.23	0.41
43:BI:7:GLU:O	43:BI:9:LEU:HG	2.20	0.41
1:CA:1226:C:H5'	19:CS:80:TYR:CE2	2.56	0.41
35:BA:742:G:N1	35:BA:756:C:N4	2.68	0.41
20:CT:78:ALA:O	20:CT:79:ARG:C	2.58	0.41
25:AY:6:LEU:C	25:AY:8:ALA:H	2.23	0.41
12:AL:60:LEU:CD2	12:AL:64:TYR:O	2.67	0.41
1:AA:690:G:C6	1:AA:691:G:C2	3.09	0.41
1:AA:1227:A:N7	1:AA:1228:C:C2	2.88	0.41
5:AE:36:ASP:CG	5:AE:37:ARG:N	2.73	0.41
5:AE:68:GLU:OE2	5:AE:70:PRO:HD3	2.21	0.41
3:CC:172:ARG:NH1	3:CC:172:ARG:HB3	2.36	0.41
1:AA:926:G:C6	1:AA:1505:G:C6	3.07	0.41
1:CA:1346:A:N6	1:CA:1374:A:H3'	2.35	0.41
9:CI:116:LYS:O	9:CI:119:ALA:N	2.54	0.41
8:AH:4:ASP:OD2	8:AH:7:ALA:CB	2.68	0.41
1:AA:1248:A:H2'	1:AA:1249:C:C5'	2.49	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:CH:48:TYR:O	8:CH:49:GLU:HB3	2.20	0.41
31:D5:31:VAL:O	31:D5:32:PRO:O	2.37	0.41
35:BA:2753:A:H2	35:BA:2754:U:N3	2.18	0.41
42:BH:54:ARG:HB2	42:BH:61:HIS:HD2	1.85	0.41
1:CA:1128:C:H2'	1:CA:1130:A:C8	2.55	0.41
33:D7:31:LEU:CD2	33:D7:42:LEU:HD22	2.50	0.41
38:DD:48:ARG:NH1	38:DD:48:ARG:CG	2.81	0.41
35:DA:542:C:N3	35:DA:543:C:N4	2.55	0.41
35:DA:548:A:N3	35:DA:548:A:O2'	2.52	0.41
34:D8:18:ALA:HB2	35:DA:628:G:H5''	2.03	0.41
38:BD:77:ALA:CB	38:BD:97:TYR:CD1	3.03	0.41
53:DW:96:ILE:HG13	53:DW:97:LYS:N	2.35	0.41
1:CA:450:G:OP1	1:CA:452:A:OP2	2.39	0.41
38:DD:142:VAL:CG2	38:DD:192:THR:C	2.86	0.41
1:AA:778:G:C2'	1:AA:779:C:H5'	2.50	0.41
31:B5:16:ARG:HG2	31:B5:16:ARG:NH1	2.26	0.41
35:DA:769:G:H5'	35:DA:1379:A:H61	1.84	0.41
35:BA:2832:U:C2	35:BA:2834:G:N2	2.88	0.41
35:BA:520:G:O2'	35:BA:521:G:H5'	2.19	0.41
1:CA:315:A:H5''	1:CA:317:G:OP2	2.21	0.41
35:DA:270:A:OP2	35:DA:271(X):G:N2	2.49	0.41
1:CA:1422:G:C2	1:CA:1423:G:C8	3.08	0.41
35:BA:374:A:H2'	35:BA:375:C:H5'	2.02	0.41
35:BA:1417:C:H2'	35:BA:1418:G:H5'	2.01	0.41
17:CQ:58:GLU:O	17:CQ:74:LEU:CB	2.69	0.41
17:AQ:68:ARG:H	17:AQ:70:ARG:HH12	1.68	0.41
17:AQ:58:GLU:O	17:AQ:74:LEU:CB	2.67	0.41
17:AQ:60:ILE:HB	17:AQ:74:LEU:HD23	2.02	0.41
35:DA:2014:A:H2'	35:DA:2015:A:C8	2.55	0.41
42:BH:158:HIS:HE1	42:BH:168:PRO:HB2	1.84	0.41
1:CA:321:A:H4'	1:CA:1436:U:C4'	2.50	0.41
5:CE:72:GLN:O	5:CE:73:ASN:CB	2.69	0.41
1:CA:729:A:H2'	1:CA:730:G:H8	1.85	0.41
35:DA:1947:C:H42	35:DA:1959:G:H1	1.67	0.41
26:B0:38:VAL:HG12	26:B0:39:ARG:N	2.36	0.41
35:BA:292:C:O2	35:BA:292:C:C2'	2.69	0.41
8:AH:54:ASP:C	8:AH:56:LYS:H	2.23	0.41
1:AA:666:G:O2'	1:AA:667:G:H5'	2.20	0.41
1:CA:1477:C:O2'	1:CA:1478:C:H5'	2.20	0.41
38:BD:9:TYR:C	38:BD:10:THR:CG2	2.88	0.41
35:DA:863:A:H2	35:DA:914:C:N4	2.18	0.41
35:BA:2464:C:N4	35:BA:2487:G:N1	2.68	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:DD:13:ARG:HD2	38:DD:13:ARG:HA	1.95	0.41
35:DA:2545:G:C2	35:DA:2546:U:C2	3.08	0.41
35:BA:227:A:C2	35:BA:2407:G:C1'	2.99	0.41
46:BP:140:ALA:O	46:BP:141:ALA:CB	2.67	0.41
17:AQ:11:VAL:HG23	17:AQ:20:THR:CG2	2.51	0.41
7:AG:40:ALA:O	7:AG:41:ARG:C	2.59	0.41
7:AG:41:ARG:CG	7:AG:41:ARG:HH11	2.32	0.41
43:DI:62:LYS:HD3	43:DI:62:LYS:C	2.40	0.41
53:DW:62:HIS:O	53:DW:63:ASP:C	2.59	0.41
35:BA:604:G:O6	35:BA:625:G:C6	2.72	0.41
53:BW:62:HIS:O	53:BW:64:MET:HG3	2.20	0.41
35:BA:1767:C:O2'	35:BA:1768:U:H5'	2.20	0.41
35:DA:1681:G:H1'	35:DA:1763:G:H5'	2.03	0.41
2:AB:132:LYS:HA	2:AB:135:GLN:NE2	2.36	0.41
1:AA:1007:C:H2'	1:AA:1008:C:C5	2.55	0.41
3:AC:95:THR:C	3:AC:97:LYS:N	2.74	0.41
5:CE:87:SER:OG	5:CE:125:SER:CB	2.67	0.41
4:CD:24:GLU:O	4:CD:27:TYR:N	2.50	0.41
2:AB:229:VAL:HG12	2:AB:229:VAL:O	2.20	0.41
1:AA:935:A:O2'	1:AA:936:C:H5'	2.21	0.41
1:CA:858:G:O6	1:CA:869:G:C8	2.73	0.41
35:BA:1839:G:C4	35:BA:1840:G:C8	3.08	0.41
5:AE:101:ILE:HG12	5:AE:118:ILE:O	2.19	0.41
1:AA:1023:G:C2'	1:AA:1024:G:H5'	2.50	0.41
3:CC:22:TRP:CZ3	3:CC:32:LEU:HB3	2.55	0.41
35:DA:1106:A:H2'	35:DA:1107:G:C8	2.55	0.41
1:AA:55:A:N7	1:AA:56:U:C4	2.88	0.41
1:AA:1210:C:H4'	1:AA:1214:C:N4	2.35	0.41
1:CA:1011:G:H2'	1:CA:1012:U:C5'	2.50	0.41
31:B5:19:ARG:HA	35:BA:2046:G:O5'	2.20	0.41
35:DA:2288:A:H2	35:DA:2325:G:C8	2.38	0.41
35:BA:1891:G:C2	35:BA:1892:C:C2	3.08	0.41
35:DA:2730:C:H2'	35:DA:2731:G:C8	2.55	0.41
50:DT:23:ARG:HH21	50:DT:120:ARG:HD3	1.85	0.41
43:BI:83:ALA:CB	43:BI:88:ILE:HG12	2.45	0.41
10:CJ:50:ILE:HA	10:CJ:60:ARG:CG	2.47	0.41
1:CA:973:G:H4'	10:CJ:54:PHE:O	2.20	0.41
35:BA:1778:U:C5	35:BA:1784:A:N3	2.88	0.41
38:BD:223:GLY:HA2	38:BD:226:MET:SD	2.60	0.41
35:DA:1782:C:H2'	35:DA:1783:A:H5'	2.03	0.41
41:DG:108:ASN:CA	41:DG:112:PRO:HD2	2.50	0.41
41:DG:59:GLU:CD	41:DG:60:LEU:HD23	2.41	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
47:DQ:34:LEU:HD11	47:DQ:129:THR:CG2	2.50	0.41
50:BT:30:VAL:HA	50:BT:43:GLN:O	2.21	0.41
56:BZ:122:ARG:CG	56:BZ:123:ASP:OD1	2.68	0.41
56:BZ:166:SER:HB2	56:BZ:167:PRO:C	2.41	0.41
35:BA:2633:G:C2	35:BA:2634:G:C4	3.09	0.41
39:BE:4:ILE:HD12	39:BE:5:LEU:H	1.86	0.41
1:AA:1064:G:OP2	1:AA:1386:G:H4'	2.20	0.41
44:BN:46:VAL:CG1	44:BN:47:ALA:N	2.66	0.41
52:BV:63:GLY:O	52:BV:64:HIS:CB	2.69	0.41
35:BA:1342:A:C2	35:BA:1345:C:C5	3.09	0.41
54:BX:53:LYS:CE	54:BX:55:ASN:HD21	2.33	0.41
39:DE:47:VAL:CG1	39:DE:49:LEU:HD21	2.49	0.41
27:B1:66:HIS:N	27:B1:66:HIS:CD2	2.85	0.41
27:B1:90:ILE:C	27:B1:93:GLU:OE2	2.59	0.41
2:AB:87:ARG:O	2:AB:223:ILE:HD11	2.21	0.41
41:BG:115:ARG:HH12	41:BG:136:ARG:HG3	1.85	0.41
41:BG:88:ILE:HG23	41:BG:90:LEU:HD13	2.02	0.41
55:DY:76:CYS:HB3	55:DY:96:ILE:CD1	2.50	0.41
55:DY:76:CYS:CB	55:DY:77:PRO:CD	2.98	0.41
35:DA:139:G:H1	35:DA:142(A):C:N4	2.17	0.41
42:BH:116:GLU:HG2	42:BH:117:PRO:CD	2.48	0.41
42:BH:98:LEU:HD22	42:BH:125:VAL:HB	2.02	0.41
35:DA:2636:U:H4'	39:DE:80:GLU:OE2	2.21	0.41
44:DN:39:ARG:NH1	44:DN:39:ARG:HG3	2.35	0.41
51:DU:65:ILE:HG22	51:DU:66:ASN:N	2.34	0.41
10:AJ:4:ILE:HD12	10:AJ:4:ILE:N	2.35	0.41
35:DA:2469:A:O2'	47:DQ:56:ARG:CG	2.69	0.41
45:DO:111:PHE:CB	45:DO:114:ILE:HD13	2.37	0.41
35:DA:2287:A:N6	35:DA:2344:U:N3	2.68	0.41
4:CD:176:LEU:HD12	4:CD:177:ASP:N	2.34	0.41
36:DB:102:A:H2'	36:DB:102:A:N3	2.35	0.41
39:BE:117:MET:HE1	39:BE:124:GLY:HA3	2.02	0.41
27:D1:11:ARG:HG3	27:D1:61:ARG:C	2.41	0.41
34:B8:56:GLU:N	34:B8:56:GLU:CD	2.74	0.41
35:BA:818:G:C2	35:BA:1190:G:C6	3.08	0.41
55:BY:86:ARG:CG	55:BY:87:LYS:N	2.82	0.41
48:DR:44:LEU:CD1	48:DR:48:VAL:HG23	2.50	0.41
41:DG:27:ASN:ND2	41:DG:29:TRP:HD1	2.19	0.41
49:DS:58:LEU:HD23	49:DS:65:VAL:HG13	2.02	0.41
2:AB:204:ASN:HB3	2:AB:210:SER:HB3	2.01	0.41
27:D1:23:LYS:CB	27:D1:23:LYS:NZ	2.83	0.41
44:DN:26:LEU:O	44:DN:27:ALA:C	2.58	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:BN:51:PHE:O	44:BN:52:VAL:C	2.59	0.41
6:CF:17:SER:O	6:CF:21:LEU:CD2	2.68	0.41
18:CR:74:ARG:CZ	18:CR:81:PHE:HA	2.50	0.41
2:CB:187:LEU:HD23	2:CB:202:PRO:O	2.20	0.41
35:DA:587:C:H4'	35:DA:588:U:O5'	2.20	0.41
35:DA:671:C:O2	35:DA:671:C:H2'	2.19	0.41
19:AS:6:LYS:HG2	19:AS:7:LYS:HD2	2.02	0.41
4:AD:63:LYS:O	4:AD:64:LEU:C	2.59	0.41
47:DQ:10:ARG:HB3	47:DQ:11:LYS:H	1.36	0.41
2:AB:95:GLN:HG3	2:AB:147:LYS:O	2.20	0.41
46:BP:147:LEU:HB2	46:BP:148:LEU:H	1.58	0.41
1:AA:939:G:H2'	1:AA:940:C:C6	2.55	0.41
51:DU:10:ARG:O	51:DU:11:ARG:C	2.58	0.41
25:CY:160:GLU:O	25:CY:163:LYS:N	2.53	0.41
12:CL:56:ALA:O	12:CL:68:ALA:N	2.53	0.41
42:DH:16:SER:HB2	42:DH:27:LYS:O	2.19	0.41
20:CT:38:LYS:HA	20:CT:41:ILE:HG12	2.02	0.41
25:AY:92:PRO:N	25:AY:101:ILE:HG23	2.35	0.41
1:CA:585:G:O2'	1:CA:879:C:OP1	2.39	0.41
51:BU:40:PHE:HD1	52:BV:78:LYS:NZ	2.18	0.41
25:AY:148:HIS:C	25:AY:149:LEU:HD23	2.41	0.41
11:AK:30:VAL:O	11:AK:30:VAL:HG23	2.20	0.41
35:BA:109:G:C4	35:BA:110:G:C8	3.08	0.41
55:BY:39:VAL:HB	55:BY:40:GLU:H	1.61	0.41
5:AE:11:ILE:HD12	5:AE:31:LEU:CD2	2.48	0.41
5:AE:126:ARG:NH1	5:AE:126:ARG:HG3	2.35	0.41
1:CA:1347:G:N3	9:CI:107:ARG:NH2	2.68	0.41
1:AA:523:A:N6	12:AL:53:ARG:NH2	2.69	0.41
9:AI:82:ALA:HA	9:AI:85:LEU:HD21	2.02	0.41
1:CA:874:G:C4	1:CA:875:C:C5	3.08	0.41
31:D5:51:TYR:O	31:D5:56:LYS:HE3	2.21	0.41
35:DA:2127:G:O3'	35:DA:2128:C:C4'	2.68	0.41
34:D8:18:ALA:HB3	35:DA:651:G:H4'	2.01	0.41
46:DP:115:LEU:HB3	46:DP:131:SER:OG	2.19	0.41
53:DW:10:VAL:HG23	53:DW:101:SER:O	2.21	0.41
46:BP:100:LEU:O	46:BP:105:LEU:O	2.38	0.41
16:CP:39:TYR:OH	16:CP:41:PRO:HB3	2.21	0.41
7:CG:64:GLN:C	7:CG:66:VAL:H	2.24	0.41
38:DD:113:VAL:C	38:DD:115:GLN:N	2.73	0.41
38:DD:130:ALA:C	38:DD:131:LEU:HG	2.39	0.41
1:CA:707:C:O2	1:CA:707:C:C2'	2.67	0.41
39:DE:103:ASP:CG	39:DE:168:MET:HG2	2.40	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:DE:169:ASN:OD1	39:DE:201:THR:CG2	2.67	0.41
39:BE:168:MET:O	39:BE:170:LEU:HD12	2.20	0.41
1:CA:678:U:N3	1:CA:713:G:N2	2.68	0.41
32:B6:47:THR:CG2	32:B6:48:VAL:N	2.84	0.41
17:AQ:3:LYS:O	17:AQ:4:LYS:C	2.59	0.41
1:AA:10:A:H2'	1:AA:11:G:C8	2.52	0.41
8:AH:107:LEU:HD23	8:AH:107:LEU:O	2.20	0.41
1:CA:1437:C:C2'	1:CA:1438:G:O5'	2.68	0.41
1:CA:327:A:C2	1:CA:329:A:C4	3.08	0.41
35:BA:1947:C:H42	35:BA:1959:G:H1	1.68	0.41
35:BA:349:G:H2'	35:BA:349:G:N3	2.35	0.41
35:BA:1297:C:O2'	35:BA:1302:A:N1	2.54	0.41
20:AT:82:SER:O	20:AT:86:ARG:HB2	2.19	0.41
15:AO:66:LEU:O	15:AO:67:LEU:C	2.59	0.41
11:AK:122:LYS:O	11:AK:126:ARG:N	2.53	0.41
1:AA:1365:G:H2'	1:AA:1366:C:C5'	2.50	0.41
1:AA:770:C:HO2'	1:AA:771:G:H5'	1.83	0.41
35:BA:1112:G:O2'	35:BA:1113:U:H6	2.03	0.41
41:DG:166:ASP:O	41:DG:166:ASP:OD1	2.39	0.41
11:AK:106:LYS:HB3	11:AK:107:SER:H	1.57	0.41
35:DA:1550:C:O2'	35:DA:1551:C:H5'	2.21	0.41
35:DA:359:A:H2'	35:DA:360:G:O4'	2.19	0.41
35:DA:2352:A:H2'	35:DA:2353:G:O4'	2.21	0.41
1:AA:1511:G:C5	1:AA:1512:U:C5	3.09	0.41
5:CE:57:LYS:CE	5:CE:61:TYR:HE2	2.31	0.41
1:CA:296:U:H2'	1:CA:297:G:O4'	2.21	0.41
1:CA:298:A:H2'	1:CA:299:G:O4'	2.20	0.41
35:BA:976:C:H2'	35:BA:977:G:C8	2.56	0.41
44:BN:128:HIS:CD2	44:BN:131:GLN:HB2	2.55	0.41
7:AG:16:LEU:CD1	9:AI:42:ARG:HA	2.51	0.41
1:CA:180:U:H2'	1:CA:181:G:C5'	2.49	0.41
41:BG:97:ASP:C	41:BG:99:MET:N	2.72	0.41
1:CA:125:U:H2'	1:CA:126:G:H8	1.85	0.41
13:AM:16:ASP:N	13:AM:16:ASP:OD2	2.53	0.41
9:CI:39:GLY:O	9:CI:41:VAL:N	2.54	0.41
35:DA:704:G:C2	35:DA:726:G:C4	3.09	0.41
2:CB:132:LYS:HA	2:CB:135:GLN:NE2	2.35	0.41
35:BA:2861:G:C2	35:BA:2862:G:C8	3.09	0.41
35:DA:1515:G:N2	35:DA:1516:C:H1'	2.35	0.41
1:AA:110:C:C4	1:AA:111:G:C5	3.09	0.41
1:CA:969:A:O2'	1:CA:970:C:H5'	2.20	0.41
57:DC:44:HIS:CD2	57:DC:175:VAL:HA	2.55	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2023:G:H2'	35:BA:2024:G:H8	1.84	0.41
35:DA:36:G:O2'	35:DA:37:C:H5'	2.20	0.41
35:DA:845:G:C8	35:DA:845:G:OP2	2.73	0.41
53:DW:59:VAL:C	53:DW:61:ASN:H	2.24	0.41
35:DA:127:A:H5''	35:DA:128:C:C6	2.54	0.41
51:DU:51:LYS:HE2	51:DU:51:LYS:CA	2.48	0.41
35:BA:1923:U:H2'	35:BA:1924:C:C6	2.56	0.41
35:DA:2790:A:N3	35:DA:2790:A:C2'	2.83	0.41
6:CF:42:GLU:C	6:CF:44:GLY:H	2.23	0.41
35:BA:1360:A:C2	35:BA:1372:U:C2	3.08	0.41
4:AD:52:SER:O	4:AD:55:ALA:N	2.54	0.41
21:CU:21:TYR:HD1	21:CU:21:TYR:N	2.19	0.41
1:AA:516:U:C4	1:AA:517:G:C6	3.08	0.41
35:DA:1832:C:H2'	35:DA:1833:U:O4'	2.21	0.41
35:DA:727:A:H3'	35:DA:728:G:C8	2.55	0.41
51:BU:4:ALA:O	51:BU:5:LYS:O	2.39	0.41
1:CA:837:G:C2	1:CA:850:U:O2	2.74	0.41
8:AH:102:ARG:N	8:AH:102:ARG:HE	2.19	0.41
37:BC:124:GLY:O	37:BC:125:SER:CB	2.67	0.41
35:BA:2812:G:H2'	35:BA:2813:A:H8	1.86	0.41
35:DA:593:G:H2'	35:DA:594:U:H6	1.86	0.41
30:D4:21:VAL:C	30:D4:23:GLU:N	2.73	0.41
1:CA:1442:G:C5	1:CA:1442(B):A:C2	3.07	0.41
45:DO:76:ALA:HB3	50:DT:75:ILE:CG1	2.50	0.41
50:DT:100:TYR:C	50:DT:102:ILE:H	2.24	0.41
50:DT:45:PHE:CE2	50:DT:74:ARG:HB2	2.56	0.41
10:CJ:51:ARG:HG3	10:CJ:60:ARG:C	2.41	0.41
35:BA:1778:U:C5	35:BA:1784:A:C2	3.09	0.41
35:BA:1814:G:H2'	35:BA:1815:A:C8	2.56	0.41
35:BA:729:G:H3'	35:BA:729:G:N3	2.35	0.41
38:BD:48:ARG:CG	38:BD:48:ARG:NH1	2.84	0.41
38:BD:52:ARG:CB	38:BD:53:PHE:CE2	3.04	0.41
35:DA:1775:U:C2'	35:DA:1776:G:O5'	2.69	0.41
41:DG:151:ALA:HB3	41:DG:153:ARG:HH12	1.86	0.41
47:DQ:68:ILE:HG22	47:DQ:101:ARG:HE	1.84	0.41
35:DA:2574:G:C4	35:DA:2575:C:C5	3.08	0.41
39:BE:3:GLY:CA	39:BE:81:ILE:HG21	2.49	0.41
35:DA:1417:C:H2'	35:DA:1418:G:C5'	2.51	0.41
42:DH:121:ILE:HG22	42:DH:133:VAL:CG1	2.50	0.41
35:BA:58:G:N3	35:BA:70:G:C2	2.88	0.41
54:BX:82:GLN:C	54:BX:85:PRO:HD2	2.41	0.41
27:B1:94:LEU:HD13	27:B1:94:LEU:C	2.40	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:AB:211:ILE:O	2:AB:212:GLN:C	2.57	0.41
28:D2:22:GLU:HA	28:D2:25:VAL:HG12	2.01	0.41
35:DA:143(A):C:C2'	35:DA:143(A):C:O2	2.67	0.41
54:DX:38:GLU:O	54:DX:41:ASN:OD1	2.38	0.41
54:DX:60:ARG:HE	54:DX:74:PRO:CG	2.33	0.41
35:BA:485:C:C2	35:BA:496:G:N2	2.89	0.41
10:AJ:8:LEU:H	10:AJ:8:LEU:HD12	1.84	0.41
1:CA:1190:G:OP1	3:CC:5:ILE:HG23	2.18	0.41
35:BA:2334:G:N3	49:BS:15:ARG:NH1	2.69	0.41
49:BS:73:LEU:O	49:BS:74:ALA:C	2.59	0.41
49:BS:82:ILE:CG2	49:BS:83:LYS:N	2.84	0.41
1:CA:437:U:H2'	1:CA:438:G:H5'	2.03	0.41
1:CA:502:G:C6	1:CA:503:C:C4	3.08	0.41
1:CA:541:G:H2'	1:CA:542:G:C8	2.56	0.41
4:CD:202:LEU:O	4:CD:203:VAL:C	2.56	0.41
3:CC:134:ILE:HG23	3:CC:151:VAL:HG11	2.03	0.41
40:BF:25:PRO:HB3	40:BF:119:ARG:CG	2.50	0.41
25:AY:36:ALA:C	25:AY:38:LEU:N	2.74	0.41
27:D1:67:ILE:O	27:D1:68:PRO:O	2.39	0.41
44:DN:63:THR:HG23	44:DN:64:GLY:N	2.35	0.41
1:CA:1100:C:OP2	2:CB:96:ARG:HG2	2.21	0.41
35:DA:1287:A:C2'	35:DA:1288:U:H5'	2.50	0.41
35:DA:2818:G:O2'	35:DA:2819:G:H5'	2.20	0.41
1:AA:329:A:C5	1:AA:332:G:C6	3.09	0.41
20:AT:46:GLU:O	20:AT:46:GLU:HG2	2.21	0.41
35:BA:1287:A:OP1	48:BR:105:ARG:O	2.39	0.41
35:BA:2692:C:H2'	35:BA:2693:A:C8	2.54	0.41
48:BR:116:LEU:CD2	48:BR:117:VAL:HG12	2.51	0.41
48:BR:29:LEU:HG	48:BR:79:LEU:HD23	2.01	0.41
1:CA:909:A:H2'	1:CA:910:C:O4'	2.19	0.41
2:CB:239:VAL:O	2:CB:240:GLN:HB3	2.20	0.41
2:AB:158:LEU:O	2:AB:159:PRO:C	2.58	0.41
35:DA:198:C:H5'	35:DA:2244:U:OP1	2.20	0.41
35:BA:2476:A:H2'	35:BA:2477:C:C5'	2.29	0.41
1:CA:739:C:O2'	1:CA:740:U:H5'	2.21	0.41
1:CA:662:G:O2'	1:CA:836:G:H5''	2.20	0.41
6:CF:14:LEU:HD22	6:CF:15:ASP:N	2.35	0.41
2:CB:188:ALA:HB1	2:CB:192:SER:HB2	2.02	0.41
35:DA:803:U:C2'	35:DA:804:A:H5'	2.50	0.41
35:DA:808:G:H2'	35:DA:809:G:C8	2.55	0.41
35:DA:811:U:O3'	35:DA:1251:C:H4'	2.21	0.41
35:DA:836:G:C5	35:DA:837:C:N4	2.89	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:942:G:H1'	35:DA:1189:A:C2	2.55	0.41
40:DF:90:PHE:O	40:DF:91:GLY:C	2.58	0.41
19:AS:36:ARG:NH2	19:AS:72:GLY:O	2.54	0.41
55:DY:37:VAL:HG11	55:DY:72:VAL:HG21	2.01	0.41
4:AD:60:GLU:HG3	4:AD:198:VAL:HG13	2.03	0.41
18:AR:40:LEU:O	18:AR:43:PHE:N	2.53	0.41
18:AR:76:LEU:C	18:AR:78:LEU:H	2.23	0.41
1:CA:777:A:C2	1:CA:778:G:C4	3.09	0.41
1:CA:570:G:C6	1:CA:873:A:C2	3.08	0.41
35:DA:447:A:C4	35:DA:473:G:C8	3.09	0.41
25:CY:127:VAL:HA	25:CY:130:ARG:HG3	2.01	0.41
1:CA:1226:C:H2'	13:CM:103:THR:CB	2.51	0.41
13:CM:108:ARG:O	13:CM:109:THR:C	2.58	0.41
16:AP:1:MET:O	16:AP:24:ALA:HB2	2.21	0.41
1:CA:1445:C:H2'	1:CA:1446:U:C6	2.42	0.41
12:CL:10:LEU:HB3	17:CQ:32:TYR:CE1	2.55	0.41
17:CQ:29:HIS:CG	17:CQ:30:PRO:HD2	2.56	0.41
12:AL:85:ILE:HA	12:AL:85:ILE:HD12	1.82	0.41
35:BA:2620:C:C4	35:BA:2621:A:N7	2.89	0.41
25:AY:140:LEU:HD21	25:AY:158:GLU:N	2.36	0.41
11:AK:60:ALA:O	11:AK:62:GLN:N	2.53	0.41
35:BA:1353:A:C2	35:BA:1354:A:C2	3.09	0.41
35:DA:2261:C:O4'	35:DA:2388:A:H1'	2.20	0.41
42:DH:41:MET:N	42:DH:41:MET:SD	2.93	0.41
35:DA:2646:C:H2'	35:DA:2647:U:C6	2.55	0.41
11:CK:72:ALA:O	11:CK:77:MET:HB2	2.20	0.41
1:AA:528:C:H2'	1:AA:529:G:C8	2.50	0.41
9:AI:95:LYS:CD	9:AI:96:LEU:N	2.77	0.41
31:D5:30:LEU:HD23	31:D5:41:PRO:HA	2.02	0.41
54:BX:65:ARG:O	54:BX:66:LEU:HB2	2.20	0.41
31:B5:40:LYS:HG2	31:B5:46:CYS:HB2	2.01	0.41
35:BA:1050:A:C2	35:BA:2751:G:C4	3.09	0.41
35:BA:1037:G:N2	35:BA:1038:C:C2	2.88	0.41
46:DP:107:LYS:C	46:DP:109:GLY:N	2.73	0.41
38:BD:136:ILE:HA	38:BD:137:PRO:HD3	1.94	0.41
35:BA:543:C:H6	35:BA:547:A:H8	1.67	0.41
7:CG:111:ARG:HB3	7:CG:112:PRO:HD2	2.03	0.41
54:BX:18:TYR:HA	54:BX:21:PHE:CG	2.54	0.41
35:BA:2120:G:O2'	35:BA:2121:G:H5'	2.20	0.41
39:DE:137:HIS:HB3	39:DE:138:PRO:CD	2.37	0.41
38:DD:43:ARG:HB3	38:DD:54:ARG:CB	2.50	0.41
35:DA:2199:A:H3'	35:DA:2200:C:H6	1.84	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:336:C:O2'	35:BA:337:C:H5'	2.21	0.41
7:AG:64:GLN:C	7:AG:66:VAL:H	2.24	0.41
17:CQ:43:LEU:HD23	17:CQ:43:LEU:HA	1.85	0.41
1:AA:256:U:H2'	1:AA:257:G:H8	1.84	0.41
17:AQ:67:LYS:HG2	17:AQ:68:ARG:N	2.34	0.41
1:CA:328:C:HO2'	1:CA:329:A:P	2.42	0.41
5:CE:102:ALA:CB	5:CE:106:PRO:HG2	2.50	0.41
35:DA:1952:A:C6	35:DA:1953:A:C6	3.09	0.41
45:DO:22:ILE:HA	45:DO:22:ILE:HD13	1.80	0.41
35:DA:1613:G:N1	35:DA:1619:G:C6	2.88	0.41
26:B0:24:LYS:HG3	35:BA:2355:C:H4'	2.01	0.41
26:B0:50:ASN:ND2	26:B0:81:VAL:O	2.54	0.41
1:AA:1277:C:H4'	1:AA:1282:C:O2	2.21	0.41
4:CD:131:ARG:O	4:CD:132:ARG:O	2.39	0.41
35:BA:974:G:C4	35:BA:989:G:C2	3.08	0.41
29:D3:19:GLN:C	29:D3:21:ALA:H	2.24	0.41
46:DP:57:THR:HB	46:DP:59:LEU:HB3	2.02	0.41
46:DP:57:THR:O	46:DP:61:ARG:NH2	2.54	0.41
26:D0:69:PHE:CD2	26:D0:79:VAL:HG22	2.56	0.41
35:BA:1289:C:C2	35:BA:1290:C:C5	3.09	0.41
1:AA:336:C:HO2'	1:AA:337:C:H5'	1.84	0.41
35:BA:1365:A:H2'	35:BA:1366:A:H8	1.85	0.41
43:DI:49:ALA:O	43:DI:53:ALA:HB3	2.21	0.41
1:AA:416:G:C6	1:AA:417:C:C4	3.09	0.41
1:CA:149:A:O2'	1:CA:150:C:C6	2.73	0.41
11:AK:104:GLN:O	11:AK:106:LYS:N	2.53	0.41
35:BA:2290:G:C8	35:BA:2290:G:H5'	2.44	0.41
22:CV:40:C:O2	22:CV:41:C:C6	2.74	0.41
35:DA:920:G:C4	35:DA:921:G:C8	3.08	0.41
44:BN:128:HIS:HD2	44:BN:131:GLN:HB2	1.85	0.41
1:CA:1146:A:C2'	1:CA:1147:C:O5'	2.69	0.41
25:AY:112:LYS:CA	25:AY:116:ARG:HG3	2.50	0.41
36:DB:16:G:O2'	36:DB:17:C:H5'	2.20	0.41
17:CQ:76:LEU:HD12	17:CQ:77:VAL:N	2.33	0.41
35:DA:304:G:N1	35:DA:314:A:C6	2.88	0.41
1:AA:475:G:H2'	1:AA:476:G:C8	2.55	0.41
1:AA:702:A:C3'	1:AA:703:G:H5'	2.47	0.41
35:BA:632:A:C2	35:BA:2403:C:H1'	2.55	0.41
4:CD:50:ARG:HD2	4:CD:50:ARG:C	2.41	0.41
35:DA:702:G:N3	35:DA:731:C:N3	2.68	0.41
35:BA:1376:C:O2'	35:BA:1377:G:H5'	2.20	0.41
23:AW:57:C:H6	23:AW:57:C:O5'	2.04	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:645:C:H2'	35:BA:645:C:O2	2.20	0.41
38:DD:200:ASP:O	38:DD:203:ASN:HB2	2.19	0.41
3:CC:121:ALA:HB1	3:CC:188:LEU:O	2.19	0.41
35:BA:1491:G:H5'	38:BD:99:ASP:OD1	2.21	0.41
35:BA:858:U:H1'	35:BA:2268:A:H2'	2.03	0.41
25:CY:62:ASP:HB2	25:CY:63:PRO:HD2	2.02	0.41
2:AB:17:PHE:O	2:AB:18:GLY:O	2.38	0.41
47:DQ:79:LEU:O	47:DQ:80:GLU:OE2	2.39	0.41
2:AB:44:LEU:HD12	2:AB:45:GLN:N	2.36	0.41
13:AM:100:GLY:C	13:AM:101:GLN:HG3	2.41	0.41
7:CG:155:ARG:HG3	7:CG:155:ARG:HH11	1.86	0.41
17:CQ:27:PHE:C	17:CQ:27:PHE:CD1	2.94	0.41
16:AP:76:GLN:CG	16:AP:76:GLN:O	2.68	0.41
43:BI:125:GLU:OE1	43:BI:125:GLU:HA	2.20	0.41
35:BA:1950:G:O5'	35:BA:1950:G:H8	2.02	0.41
36:DB:49:C:O2'	36:DB:50:G:H5'	2.20	0.41
35:DA:485:C:C2	35:DA:496:G:N2	2.88	0.41
39:DE:13:ARG:HA	39:DE:21:VAL:O	2.21	0.41
50:DT:72:VAL:CG1	50:DT:73:GLU:N	2.83	0.41
43:BI:122:GLU:O	43:BI:126:TYR:OH	2.39	0.41
43:BI:81:VAL:O	43:BI:83:ALA:N	2.53	0.41
1:CA:1232:U:H5'	9:CI:126:SER:OG	2.19	0.41
10:CJ:64:GLU:O	10:CJ:64:GLU:HG3	2.21	0.41
35:BA:1805:U:H1'	38:BD:50:THR:O	2.20	0.41
35:BA:1806:C:C5	35:BA:1807:G:N7	2.89	0.41
35:BA:1812:A:O2'	35:BA:1813:G:H5'	2.21	0.41
38:BD:61:LEU:HD12	38:BD:62:TYR:N	2.35	0.41
38:BD:62:TYR:OH	38:BD:64:ILE:HD12	2.20	0.41
5:CE:128:PRO:O	5:CE:131:ILE:HG12	2.21	0.41
38:DD:80:ALA:O	38:DD:81:ALA:HB2	2.20	0.41
41:DG:116:ASP:CG	41:DG:117:PHE:N	2.74	0.41
47:DQ:68:ILE:HG12	47:DQ:68:ILE:O	2.21	0.41
50:BT:33:LYS:HB2	50:BT:41:ARG:HB3	2.03	0.41
50:BT:61:PHE:CE1	50:BT:76:PHE:HD1	2.38	0.41
16:AP:22:THR:HG22	16:AP:32:TYR:CA	2.48	0.41
47:BQ:29:PHE:N	47:BQ:105:GLU:OE2	2.44	0.41
56:BZ:125:LEU:O	56:BZ:165:VAL:HG23	2.20	0.41
35:DA:2053:G:N2	35:DA:2054:A:C4	2.89	0.41
39:BE:30:PRO:CD	39:BE:180:ASN:HD21	2.23	0.41
39:BE:44:TYR:CE2	39:BE:46:ALA:HB2	2.56	0.41
39:BE:52:LEU:N	39:BE:74:PRO:CB	2.83	0.41
35:BA:995:C:C2	51:BU:57:PHE:HE2	2.38	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:998:C:OP2	51:BU:93:LYS:HE2	2.21	0.41
44:BN:2:LYS:HZ1	52:BV:12:TYR:HB3	1.85	0.41
42:DH:122:THR:CB	42:DH:134:SER:HB2	2.46	0.41
28:B2:29:LYS:O	28:B2:32:LEU:HG	2.20	0.41
54:BX:36:LYS:HZ2	54:BX:39:ILE:HA	1.81	0.41
35:DA:2811:G:N2	35:DA:2891:G:H1'	2.36	0.41
39:DE:52:LEU:O	39:DE:53:PRO:O	2.38	0.41
39:DE:61:ARG:CG	39:DE:62:PRO:N	2.84	0.41
41:BG:115:ARG:HH22	41:BG:136:ARG:CG	2.33	0.41
41:BG:124:SER:HB2	41:BG:131:TYR:CE1	2.56	0.41
42:BH:96:ALA:CB	42:BH:105:LEU:HB3	2.48	0.41
56:DZ:43:GLU:O	56:DZ:47:VAL:HG23	2.20	0.41
35:DA:998:C:OP2	51:DU:93:LYS:CE	2.68	0.41
3:AC:154:SER:O	3:AC:165:THR:HA	2.21	0.41
47:DQ:54:MET:CG	47:DQ:64:ILE:HD13	2.50	0.41
49:BS:53:SER:O	49:BS:55:ALA:N	2.54	0.41
4:CD:21:LEU:HD22	4:CD:115:ARG:CG	2.51	0.41
4:CD:160:GLN:O	4:CD:163:GLU:HB3	2.21	0.41
3:CC:134:ILE:CG2	3:CC:151:VAL:HB	2.51	0.41
35:BA:596:G:C2	35:BA:662:G:C2	3.08	0.41
40:BF:110:LEU:HD23	40:BF:110:LEU:C	2.40	0.41
40:BF:20:LEU:HB2	40:BF:24:LEU:HD21	2.02	0.41
46:DP:70:GLN:CG	46:DP:71:VAL:N	2.83	0.41
25:AY:35:PRO:HG2	25:AY:36:ALA:H	1.86	0.41
3:CC:6:HIS:HA	3:CC:7:PRO:HD2	1.91	0.41
35:BA:1261:C:C2'	35:BA:1262:A:O5'	2.69	0.41
35:BA:2241:A:N1	35:BA:2242:G:C6	2.88	0.41
35:BA:669:G:O2'	35:BA:670:A:OP1	2.29	0.41
40:BF:47:GLY:HA3	40:BF:95:ARG:O	2.20	0.41
40:DF:25:PRO:HB3	40:DF:119:ARG:CG	2.51	0.41
47:BQ:12:GLN:HE21	47:BQ:73:PRO:HD3	1.85	0.41
48:DR:28:LEU:HD12	48:DR:29:LEU:CD1	2.51	0.41
48:DR:67:LEU:HA	48:DR:67:LEU:HD13	1.86	0.41
48:DR:26:LYS:HG2	48:DR:70:LEU:HD22	2.02	0.41
48:DR:56:LYS:HD2	48:DR:88:ARG:HA	2.02	0.41
1:AA:105:G:C5	1:AA:106:C:C4	3.09	0.41
35:BA:1661:G:H5'	35:BA:2712:U:O4	2.20	0.41
35:BA:2711:A:C8	35:BA:2714:G:O4'	2.74	0.41
50:BT:109:GLU:C	50:BT:112:ARG:HG3	2.40	0.41
36:DB:54:G:O2'	36:DB:55:U:H5'	2.21	0.41
49:DS:74:ALA:O	49:DS:78:LEU:HG	2.21	0.41
36:DB:47:C:O2'	49:DS:93:LYS:HG3	2.21	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:385:C:C2'	35:DA:386:G:OP2	2.68	0.41
35:DA:8:A:OP1	44:DN:51:PHE:HE2	2.04	0.41
44:DN:61:ARG:NH1	44:DN:61:ARG:HG3	2.35	0.41
44:BN:55:VAL:CG1	44:BN:56:ASN:N	2.84	0.41
6:CF:100:ASN:HA	6:CF:100:ASN:HD22	1.54	0.41
18:CR:40:LEU:O	18:CR:41:LYS:C	2.58	0.41
2:CB:187:LEU:HD22	2:CB:188:ALA:O	2.21	0.41
35:DA:832:G:OP1	46:DP:40:SER:HB3	2.21	0.41
40:DF:53:THR:CG2	40:DF:56:GLU:OE1	2.69	0.41
46:DP:30:THR:O	46:DP:33:ARG:N	2.49	0.41
1:AA:1490:C:O2'	1:AA:1491:G:C5'	2.63	0.41
55:DY:28:LYS:O	55:DY:29:GLU:C	2.59	0.41
1:AA:1315:U:O2'	1:AA:1360:A:H1'	2.21	0.41
47:DQ:89:ASN:O	47:DQ:91:GLU:N	2.53	0.41
6:AF:30:LEU:HD23	6:AF:75:LEU:CD2	2.48	0.41
18:AR:21:LYS:O	18:AR:25:THR:OG1	2.38	0.41
18:AR:33:ASP:OD2	18:AR:34:TYR:N	2.53	0.41
18:AR:40:LEU:O	18:AR:41:LYS:C	2.59	0.41
51:DU:36:ARG:O	51:DU:37:GLU:C	2.57	0.41
7:AG:62:PHE:CG	7:AG:62:PHE:O	2.73	0.41
25:CY:23:HIS:O	25:CY:24:ASN:C	2.58	0.41
16:AP:40:ASP:OD2	16:AP:40:ASP:C	2.59	0.41
25:AY:29:ARG:NE	25:AY:32:ARG:HH22	2.15	0.41
25:AY:154:THR:O	25:AY:158:GLU:N	2.46	0.41
35:BA:1428:C:C5	35:BA:1569:A:H5''	2.55	0.41
35:BA:83:G:N2	35:BA:103:A:OP2	2.53	0.41
23:AW:40:C:H2'	23:AW:41:C:C5	2.56	0.41
8:AH:60:ARG:NH1	8:AH:60:ARG:HG3	2.35	0.41
1:CA:824:C:H2'	1:CA:825:G:H8	1.85	0.41
1:CA:874:G:O2'	1:CA:875:C:H5'	2.20	0.41
35:BA:2473:U:O2	35:BA:2473:U:H2'	2.20	0.41
56:DZ:76:LEU:CD2	56:DZ:76:LEU:H	2.32	0.41
1:AA:562:C:H1'	12:AL:15:ARG:HD2	2.03	0.41
35:BA:271(S):G:H2'	35:BA:271(T):C:O4'	2.21	0.41
9:AI:118:LYS:CB	9:AI:118:LYS:NZ	2.81	0.41
9:AI:116:LYS:O	9:AI:119:ALA:N	2.54	0.41
12:CL:44:THR:HA	12:CL:45:PRO:HD3	1.85	0.41
35:BA:2751:G:N3	35:BA:2751:G:H2'	2.36	0.41
33:D7:24:THR:O	33:D7:28:ARG:HG3	2.20	0.41
35:BA:1174:A:H5''	35:BA:1175:U:C5'	2.50	0.41
35:DA:2197:U:H3	35:DA:2225:A:H62	1.69	0.41
40:BF:139:PHE:O	40:BF:140:LEU:C	2.59	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:935:A:H61	1:CA:1380:U:H3	1.69	0.41
35:DA:2298:A:C2	35:DA:2321:G:C4	3.09	0.41
28:D2:60:LEU:CG	28:D2:61:LEU:H	2.10	0.41
35:DA:1986:A:H2'	35:DA:1987:G:H5''	2.02	0.41
35:DA:271(V):G:H2'	35:DA:271(W):G:C8	2.56	0.41
13:CM:19:LEU:O	13:CM:22:ILE:HB	2.20	0.41
1:CA:329:A:C2	1:CA:332:G:C5	3.09	0.41
5:CE:78:HIS:HB2	5:CE:79:GLU:H	1.69	0.41
35:BA:856:C:H5''	35:BA:856:C:H6	1.84	0.41
4:CD:129:ASN:HB2	4:CD:131:ARG:HH22	1.85	0.41
1:AA:1498:U:C4	24:AX:17:U:H4'	2.56	0.41
15:AO:52:SER:O	15:AO:55:GLY:N	2.53	0.41
38:DD:138:VAL:HG21	38:DD:166:GLN:O	2.21	0.41
8:CH:54:ASP:C	8:CH:56:LYS:H	2.23	0.41
1:AA:1089:G:H1	1:AA:1096:C:H42	1.69	0.41
46:BP:57:THR:C	46:BP:59:LEU:N	2.74	0.41
35:DA:1450:G:H2'	35:DA:1450(A):C:C6	2.55	0.41
35:DA:1528(A):A:H3'	35:DA:1529:G:C5'	2.45	0.41
35:BA:185:U:O2'	35:BA:186:G:H5'	2.21	0.41
1:AA:1242:C:O5'	21:AU:10:ARG:NH1	2.49	0.41
3:AC:127:ARG:NH1	3:AC:127:ARG:CG	2.84	0.41
35:DA:976:C:H42	35:DA:988:A:H2	1.68	0.41
53:BW:27:LYS:O	53:BW:71:VAL:HG23	2.21	0.41
25:CY:45:TYR:CD2	25:CY:78:ALA:HB2	2.55	0.41
7:AG:36:LYS:O	7:AG:39:ALA:HB3	2.20	0.41
56:DZ:134:PRO:HG3	56:DZ:161:VAL:HG21	2.02	0.41
35:BA:213:A:C2'	35:BA:214:G:H5'	2.50	0.41
53:DW:64:MET:HG2	53:DW:109:GLU:OE2	2.20	0.41
1:CA:769:G:C4	1:CA:770:C:C5	3.09	0.41
1:CA:1151:A:C4	1:CA:1152:A:N7	2.89	0.41
35:BA:696:G:H2'	35:BA:697:C:H5'	2.02	0.41
1:CA:1002:G:H2'	1:CA:1003:G:C8	2.56	0.41
35:BA:117:G:H8	35:BA:117:G:O5'	2.04	0.41
1:CA:751:U:H2'	1:CA:752:G:O4'	2.20	0.41
1:CA:620:C:O2'	1:CA:621:A:H5'	2.20	0.41
35:DA:1555:G:H2'	35:DA:1556:C:H6	1.82	0.41
35:BA:1374:G:C6	35:BA:1375:C:C4	3.09	0.41
16:CP:53:VAL:O	16:CP:54:GLU:C	2.58	0.41
35:DA:2785:C:H6	35:DA:2785:C:O5'	2.04	0.41
11:AK:33:THR:CA	11:AK:40:ILE:HG12	2.51	0.41
53:BW:59:VAL:C	53:BW:61:ASN:H	2.23	0.41
35:BA:2522:U:C2'	35:BA:2523:G:H5''	2.50	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2783:G:N2	35:BA:2784:C:C2	2.89	0.41
5:AE:56:GLN:NE2	5:AE:60:TYR:HB2	2.35	0.41
35:DA:2253:G:C5	35:DA:2254:C:C4	3.09	0.41
35:BA:790:C:O2'	35:BA:791:C:C5'	2.69	0.41
35:BA:593:G:H2'	35:BA:594:U:C6	2.55	0.41
3:AC:22:TRP:CZ3	3:AC:32:LEU:HB3	2.56	0.41
35:DA:1906:G:C8	35:DA:1929:G:C4	3.09	0.41
12:AL:82:VAL:HB	12:AL:106:ASP:OD1	2.21	0.41
42:DH:111:HIS:HA	42:DH:112:PRO:HD2	1.95	0.41
32:B6:35:GLU:O	32:B6:35:GLU:HG3	2.21	0.41
2:AB:220:ASP:OD1	2:AB:220:ASP:N	2.53	0.41
35:BA:1691:C:O2'	35:BA:1692:U:H5'	2.20	0.41
35:DA:2721:A:H2'	35:DA:2722:G:O4'	2.21	0.41
35:DA:2724:C:OP1	39:DE:118:LYS:HE3	2.20	0.41
38:BD:178:PRO:C	38:BD:180:GLY:H	2.24	0.41
38:BD:25:THR:HB	38:BD:82:ILE:N	2.24	0.41
38:DD:35:LYS:HG2	38:DD:64:ILE:CG2	2.51	0.41
16:CP:4:ILE:HA	16:CP:21:VAL:HA	2.02	0.41
41:DG:108:ASN:O	41:DG:112:PRO:HD2	2.20	0.41
10:CJ:6:ILE:CD1	10:CJ:72:VAL:HB	2.51	0.41
35:BA:1992:G:HO2'	35:BA:1993:U:P	2.44	0.41
35:BA:2562:U:O2'	35:BA:2563:U:H5'	2.21	0.41
39:BE:13:ARG:HA	39:BE:21:VAL:O	2.19	0.41
45:BO:61:VAL:O	45:BO:61:VAL:HG13	2.21	0.41
50:BT:92:GLY:O	50:BT:94:ALA:N	2.54	0.41
39:DE:120:TRP:C	39:DE:122:PHE:N	2.72	0.41
35:DA:2572:A:C6	39:DE:144:ARG:NH2	2.89	0.41
51:BU:106:PHE:O	51:BU:107:ALA:C	2.58	0.41
51:BU:92:ARG:CZ	52:BV:11:GLN:H	2.33	0.41
1:AA:1060:C:H4'	10:AJ:52:GLY:CA	2.51	0.41
54:BX:60:ARG:HG2	54:BX:73:ARG:N	2.36	0.41
35:DA:2805:G:C2	35:DA:2807:G:C5	3.09	0.41
35:DA:1861:G:H2'	35:DA:1862:G:C8	2.55	0.41
27:B1:71:TYR:HA	27:B1:74:VAL:HG21	2.00	0.41
35:BA:2206:G:N3	35:BA:2207:G:H5'	2.34	0.41
41:BG:17:PRO:HA	41:BG:20:ILE:CG1	2.46	0.41
54:DX:81:VAL:C	54:DX:82:GLN:O	2.58	0.41
56:DZ:7:ALA:HB1	56:DZ:37:VAL:HG21	2.02	0.41
56:DZ:72:ARG:CG	56:DZ:89:PHE:HB2	2.43	0.41
52:DV:4:ILE:CD1	52:DV:40:LEU:HD11	2.49	0.41
52:DV:63:GLY:O	52:DV:64:HIS:CB	2.69	0.41
1:AA:995:C:H1'	14:AN:4:LYS:HE3	2.02	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2346:A:H5'	35:DA:2383:G:O4'	2.21	0.41
4:CD:18:LYS:HE3	4:CD:31:CYS:CB	2.51	0.41
4:CD:33:MET:HE2	4:CD:33:MET:HA	2.03	0.41
43:DI:86:THR:O	43:DI:122:GLU:OE2	2.39	0.41
44:BN:67:LEU:HB3	44:BN:88:GLU:CG	2.51	0.41
3:CC:150:LYS:CB	3:CC:201:TYR:HB2	2.38	0.41
40:BF:24:LEU:HD22	40:BF:24:LEU:N	2.36	0.41
35:BA:662:G:P	46:BP:18:ARG:HD2	2.61	0.41
35:BA:245:G:H5'	46:BP:70:GLN:H	1.86	0.41
34:B8:58:ILE:HA	34:B8:61:LEU:HD21	2.03	0.41
35:BA:2061:G:O4'	35:BA:2503:A:C5	2.74	0.41
35:BA:814:C:H3'	58:BA:3399:MG:MG	1.45	0.41
35:BA:511:U:O4	35:BA:512:G:C2	2.73	0.41
35:BA:589:C:O3'	40:BF:95:ARG:NH1	2.53	0.41
52:BV:88:ARG:CG	52:BV:88:ARG:HH11	2.33	0.41
52:BV:73:SER:OG	52:BV:89:GLN:O	2.30	0.41
40:DF:7:TYR:CD1	40:DF:196:LEU:HD11	2.56	0.41
55:BY:87:LYS:HG2	55:BY:88:LYS:H	1.86	0.41
55:BY:90:LEU:N	55:BY:90:LEU:HD23	2.36	0.41
48:DR:15:SER:O	48:DR:16:HIS:O	2.39	0.41
48:DR:72:ASP:HB3	48:DR:75:LEU:HB2	2.03	0.41
1:AA:1421:G:C6	1:AA:1422:G:C5	3.09	0.41
20:AT:12:ALA:C	20:AT:14:LYS:N	2.74	0.41
20:AT:14:LYS:CA	20:AT:17:ARG:HH21	2.31	0.41
48:BR:18:LEU:HD13	48:BR:19:ALA:CA	2.50	0.41
2:CB:212:GLN:O	2:CB:213:LEU:C	2.58	0.41
2:CB:77:ALA:HA	2:CB:208:ILE:HG12	2.02	0.41
1:CA:657:G:C2	1:CA:658:G:C8	3.08	0.41
6:CF:16:GLN:O	6:CF:17:SER:C	2.58	0.41
15:CO:29:VAL:O	15:CO:30:ALA:C	2.58	0.41
35:DA:677:A:N1	35:DA:802:A:C6	2.89	0.41
40:DF:81:PRO:HG2	40:DF:82:ILE:HG23	2.03	0.41
4:AD:121:VAL:CA	4:AD:126:ILE:HD12	2.51	0.41
4:AD:148:VAL:HG23	4:AD:181:MET:O	2.20	0.41
4:AD:150:GLU:HA	4:AD:153:ARG:HD3	2.03	0.41
4:AD:97:LEU:HD22	4:AD:97:LEU:O	2.20	0.41
4:AD:66:ARG:O	4:AD:69:GLY:N	2.54	0.41
43:DI:132:PRO:O	43:DI:133:HIS:C	2.59	0.41
43:DI:130:TYR:O	43:DI:135:GLU:HG2	2.21	0.41
47:DQ:87:LYS:CG	47:DQ:87:LYS:O	2.55	0.41
1:CA:792:A:N3	1:CA:794:A:C5	2.89	0.41
35:DA:2027:G:C5	35:DA:2028:U:C5	3.09	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:27:G:H1'	35:DA:513:A:N6	2.35	0.41
51:DU:7:GLY:C	51:DU:8:VAL:CG2	2.89	0.41
25:CY:32:ARG:HB3	25:CY:103:ILE:CD1	2.48	0.41
43:BI:10:GLU:C	43:BI:12:LEU:H	2.24	0.41
20:CT:40:ALA:HB2	20:CT:55:ILE:CG2	2.50	0.41
50:DT:10:VAL:N	50:DT:12:SER:OG	2.53	0.41
51:BU:31:SER:HB3	51:BU:34:LYS:CG	2.50	0.41
26:D0:32:ARG:HB2	26:D0:35:ASN:ND2	2.36	0.41
26:D0:32:ARG:HB3	26:D0:33:ALA:H	1.70	0.41
35:BA:84:A:N6	35:BA:102:G:O2'	2.54	0.41
35:BA:108:U:C2	35:BA:109:G:N7	2.89	0.41
2:CB:100:GLY:CA	2:CB:103:THR:HB	2.50	0.41
11:AK:22:HIS:HB3	11:AK:29:ILE:CG1	2.36	0.41
35:DA:610:G:C6	35:DA:611:C:N4	2.87	0.41
8:AH:127:LEU:HD22	8:AH:127:LEU:HA	1.85	0.41
1:AA:258:G:H2'	1:AA:259:G:H8	1.86	0.41
1:CA:1107:C:OP1	3:CC:174:PRO:HD3	2.20	0.41
1:AA:1501:C:N4	1:AA:1504:G:C2	2.88	0.41
1:CA:1342:C:O2'	1:CA:1343:G:H5'	2.21	0.41
12:AL:47:LYS:HG2	12:AL:48:PRO:HD3	2.01	0.41
8:AH:26:VAL:CG2	8:AH:32:LYS:NZ	2.76	0.41
9:AI:5:TYR:HE2	9:AI:16:ARG:HB3	1.86	0.41
9:AI:28:VAL:CG1	9:AI:29:ASN:H	2.32	0.41
31:D5:44:THR:CG2	48:DR:101:ALA:N	2.84	0.41
35:DA:2127:G:H1'	35:DA:2128:C:C4'	2.47	0.41
35:BA:2472:G:H2'	35:BA:2529:G:N2	2.35	0.41
35:BA:2757:A:N1	42:BH:67:LEU:HD13	2.36	0.41
9:CI:47:LEU:CB	9:CI:50:LEU:HD12	2.48	0.41
9:CI:63:ILE:CD1	9:CI:63:ILE:N	2.80	0.41
33:D7:25:PRO:HA	33:D7:28:ARG:CZ	2.50	0.41
42:DH:12:PRO:O	42:DH:13:LYS:CB	2.68	0.41
31:D5:17:ASP:HA	31:D5:20:ARG:CG	2.51	0.41
46:BP:131:SER:CB	46:BP:134:ALA:HB3	2.46	0.41
1:CA:375:U:O3'	16:CP:6:LEU:HD22	2.21	0.41
40:BF:148:LEU:HD13	40:BF:154:VAL:HG21	2.02	0.41
38:DD:142:VAL:HG23	38:DD:192:THR:O	2.20	0.41
38:DD:142:VAL:CG2	38:DD:143:HIS:N	2.84	0.41
1:AA:779:C:C2'	1:AA:780:A:H5'	2.50	0.41
35:BA:2673:G:H2'	35:BA:2674:G:C8	2.50	0.41
39:BE:101:ARG:HH11	39:BE:169:ASN:HD22	1.68	0.41
35:DA:2219:G:C6	35:DA:2220:G:N7	2.89	0.41
7:AG:67:GLU:CD	7:AG:67:GLU:H	2.24	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:DF:170:LEU:HD23	40:DF:173:VAL:HG21	2.01	0.41
5:AE:102:ALA:H	5:AE:107:ARG:NH2	2.15	0.41
35:BA:149:A:H2'	35:BA:150:C:H6	1.82	0.41
35:BA:2186:G:H3'	35:BA:2187:G:H5''	2.02	0.41
39:BE:137:HIS:HB3	39:BE:138:PRO:CD	2.41	0.41
1:CA:1184:G:C2	1:CA:1185:G:C5	3.08	0.41
35:DA:1271:G:N2	35:DA:1617:C:O4'	2.54	0.41
5:CE:78:HIS:CD2	8:CH:104:ARG:NE	2.89	0.41
25:CY:109:GLU:C	25:CY:112:LYS:HB3	2.40	0.41
1:AA:1179:A:O2'	9:AI:103:THR:HG23	2.20	0.41
9:AI:102:LEU:C	9:AI:102:LEU:HD23	2.41	0.41
35:BA:1844:C:H5''	38:BD:258:LYS:HG3	2.02	0.41
35:BA:2543:G:O2'	35:BA:2544:G:H5'	2.21	0.41
54:DX:89:ILE:HA	54:DX:92:LEU:HB2	2.01	0.41
35:BA:1389:G:H2'	35:BA:1390:U:C6	2.56	0.41
17:CQ:92:ARG:O	17:CQ:93:GLN:C	2.59	0.41
35:BA:359:A:H2'	35:BA:360:G:O4'	2.21	0.41
35:DA:1449:A:C6	35:DA:1450:G:H1'	2.55	0.41
35:DA:695:G:C2	35:DA:696:G:C8	3.09	0.41
11:AK:108:ILE:HD12	11:AK:108:ILE:N	2.35	0.41
23:CW:34:U:O2	23:CW:37:U:C5	2.74	0.41
45:DO:88:ASN:O	45:DO:89:ASN:C	2.59	0.41
35:BA:6:A:C2'	44:BN:130:HIS:HB2	2.50	0.41
41:BG:34:LEU:HB3	41:BG:99:MET:SD	2.60	0.41
35:BA:2234:G:H2'	35:BA:2235:G:H8	1.86	0.41
1:CA:286:G:H2'	1:CA:287:U:H6	1.85	0.41
23:AW:47:G:H2'	23:AW:48:U:H5'	2.03	0.41
35:DA:980:A:C6	35:DA:981:A:C2	3.09	0.41
53:BW:1:MET:O	53:BW:2:GLU:HB3	2.20	0.41
26:D0:1:MET:O	26:D0:2:ALA:CB	2.68	0.41
7:AG:42:ILE:HA	7:AG:45:ASP:CB	2.49	0.41
45:DO:47:ILE:HG23	45:DO:48:PRO:N	2.36	0.41
40:DF:26:ALA:HB1	40:DF:27:GLU:OE1	2.21	0.41
35:DA:1477:A:C2	35:DA:1515:G:C2	3.09	0.41
35:BA:115:C:H2'	35:BA:116:C:H6	1.86	0.41
3:AC:119:ARG:HH21	3:AC:140:ARG:NE	2.19	0.41
35:DA:645:C:O2	35:DA:645:C:H2'	2.21	0.41
35:DA:1765:C:O5'	35:DA:1765:C:H6	2.04	0.41
35:DA:1767:C:O2'	35:DA:1768:U:H5'	2.21	0.41
35:BA:372:G:O2'	35:BA:373:U:OP2	2.38	0.41
35:BA:1181:C:H2'	35:BA:1182:A:H8	1.86	0.41
35:DA:2068:U:O4	35:DA:2430:A:C2	2.74	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:857:C:O2	1:CA:858:G:H1'	2.20	0.41
35:BA:1013:C:O2'	35:BA:1014:U:H5'	2.20	0.41
46:BP:138:LEU:HD22	46:BP:142:GLY:HA3	2.02	0.41
35:BA:1474:C:H3'	35:BA:1475:G:H8	1.84	0.41
43:DI:44:LEU:C	43:DI:44:LEU:HD23	2.41	0.41
35:DA:2251:G:C2	35:DA:2450:A:H1'	2.56	0.41
35:DA:2657:A:C5	35:DA:2658:C:C5	3.09	0.41
35:DA:761:A:O5'	35:DA:761:A:H8	2.04	0.41
35:DA:2016:U:O5'	35:DA:2016:U:H6	2.03	0.41
1:AA:27:G:H2'	1:AA:28:G:O4'	2.20	0.41
35:DA:139(A):G:H5'	35:DA:140:G:OP2	2.20	0.41
8:CH:95:VAL:HA	8:CH:99:GLU:OE1	2.21	0.41
35:BA:2602:A:H4'	35:BA:2603:G:O5'	2.21	0.41
35:DA:900:A:N7	35:DA:901:A:N7	2.68	0.41
35:BA:2288:A:H2	35:BA:2325:G:C8	2.39	0.41
44:DN:18:ALA:C	44:DN:20:GLY:N	2.74	0.41
39:BE:67:PHE:HA	39:BE:67:PHE:HD2	1.76	0.41
12:CL:19:ARG:HD2	12:CL:19:ARG:H	1.86	0.41
35:DA:2751:G:H2'	35:DA:2751:G:N3	2.36	0.41
35:DA:1663:C:N3	35:DA:1992:G:O6	2.54	0.41
50:DT:88:ILE:CD1	50:DT:88:ILE:N	2.84	0.41
35:DA:1992:G:O2'	35:DA:1993:U:P	2.79	0.41
35:DA:2721:A:H2'	35:DA:2722:G:H8	1.86	0.41
35:DA:2723:C:H2'	35:DA:2724:C:C5'	2.50	0.41
39:DE:9:VAL:HG13	39:DE:25:VAL:HG12	2.02	0.41
45:DO:71:ARG:HH12	50:DT:74:ARG:NH2	2.19	0.41
50:DT:23:ARG:CZ	50:DT:120:ARG:HD3	2.51	0.41
1:CA:974:A:H8	1:CA:974:A:OP1	2.04	0.41
35:BA:1785:A:N7	35:BA:1787:A:C5	2.89	0.41
35:BA:1567:A:N6	38:BD:21:PHE:CE2	2.89	0.41
41:DG:12:TYR:CA	41:DG:16:ARG:HG3	2.51	0.41
35:BA:1797:C:H2'	35:BA:1798:U:C6	2.56	0.41
1:CA:919:A:C2'	1:CA:920:U:O5'	2.69	0.41
5:CE:11:ILE:HD12	5:CE:31:LEU:CD2	2.48	0.41
1:CA:18:C:C5'	5:CE:127:ASN:ND2	2.84	0.41
35:DA:1779:U:P	35:DA:1784:A:H61	2.43	0.41
35:DA:1826:G:H4'	38:DD:242:ARG:CZ	2.50	0.41
41:DG:181:ARG:O	41:DG:182:LYS:OXT	2.39	0.41
41:DG:45:GLU:HA	41:DG:47:LYS:HD3	2.03	0.41
38:BD:8:PRO:HB3	38:BD:14:ARG:HA	2.03	0.41
36:DB:32:C:H2'	36:DB:33:G:O4'	2.21	0.41
41:DG:104:GLU:C	41:DG:106:LEU:H	2.23	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:DG:119:GLY:O	41:DG:120:LEU:C	2.58	0.41
34:B8:37:SER:HB2	34:B8:38:GLY:H	1.67	0.41
1:AA:1442:G:C4	1:AA:1442(B):A:N1	2.89	0.41
45:BO:104:ARG:O	45:BO:106:LEU:N	2.54	0.41
45:BO:6:THR:O	45:BO:20:MET:HA	2.21	0.41
50:BT:74:ARG:NH1	50:BT:74:ARG:HG2	2.34	0.41
56:BZ:91:LEU:HB3	56:BZ:130:PRO:CG	2.51	0.41
36:BB:75:G:C8	36:BB:76:G:N7	2.89	0.41
56:BZ:37:VAL:HG23	56:BZ:37:VAL:O	2.21	0.41
35:DA:2571:C:O2	35:DA:2571:C:C2'	2.67	0.41
39:DE:117:MET:HE1	39:DE:124:GLY:HA3	2.02	0.41
35:BA:2892:A:H2'	35:BA:2893:G:O4'	2.21	0.41
39:BE:53:PRO:O	39:BE:54:GLN:C	2.59	0.41
39:BE:84:PHE:CZ	39:BE:86:PRO:HB3	2.55	0.41
44:BN:110:GLY:HA2	44:BN:114:ARG:HH21	1.81	0.41
52:BV:61:VAL:HG21	52:BV:100:ARG:H	1.82	0.41
52:BV:40:LEU:HA	52:BV:49:THR:O	2.21	0.41
42:DH:117:PRO:HA	42:DH:118:PRO:HD2	1.99	0.41
42:DH:162:ILE:C	42:DH:162:ILE:CD1	2.83	0.41
42:DH:87:LEU:CD1	42:DH:148:ILE:HG21	2.51	0.41
10:AJ:45:ARG:NH1	14:AN:36:PHE:CE2	2.89	0.41
1:AA:963:G:N2	10:AJ:55:LYS:CE	2.84	0.41
39:DE:35:GLN:HE22	39:DE:37:ARG:HH21	1.68	0.41
39:DE:56:PRO:O	39:DE:57:LYS:C	2.59	0.41
35:DA:2809:A:C2'	35:DA:2810:A:H5'	2.51	0.41
39:DE:181:LEU:N	39:DE:181:LEU:CD2	2.75	0.41
27:B1:13:ILE:HD13	27:B1:66:HIS:CE1	2.56	0.41
27:B1:75:GLU:O	27:B1:76:ARG:CZ	2.69	0.41
27:B1:75:GLU:HB2	27:B1:76:ARG:NH2	2.36	0.41
2:AB:83:MET:HB2	2:AB:84:GLU:OE2	2.21	0.41
41:BG:63:ILE:HG22	41:BG:143:GLU:HB2	2.03	0.41
28:D2:37:PHE:CD2	28:D2:40:SER:HA	2.56	0.41
54:DX:54:VAL:HA	54:DX:78:LYS:O	2.21	0.41
28:D2:32:LEU:CD2	28:D2:44:LEU:HD21	2.51	0.41
35:DA:1398:C:OP1	54:DX:53:LYS:NZ	2.54	0.41
42:BH:83:TYR:CD1	42:BH:84:SER:N	2.89	0.41
42:BH:94:TYR:CE1	42:BH:160:LYS:HD2	2.55	0.41
42:BH:153:LYS:N	42:BH:153:LYS:CD	2.84	0.41
56:DZ:24:LEU:C	56:DZ:24:LEU:CD1	2.87	0.41
56:DZ:70:LEU:HA	56:DZ:70:LEU:HD23	1.70	0.41
56:DZ:28:MET:HG3	56:DZ:33:LEU:CD2	2.50	0.41
56:DZ:52:SER:O	56:DZ:71:VAL:HG21	2.21	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
56:DZ:8:TYR:H	56:DZ:62:PRO:HD3	1.85	0.41
35:DA:535:C:C4	35:DA:536:A:N7	2.89	0.41
52:DV:36:PRO:CG	52:DV:60:GLU:OE1	2.69	0.41
44:DN:2:LYS:HZ1	52:DV:12:TYR:HB3	1.86	0.41
19:CS:70:LYS:CB	19:CS:70:LYS:NZ	2.77	0.41
1:CA:1320:C:H42	19:CS:36:ARG:HD3	1.86	0.41
49:BS:34:HIS:NE2	49:BS:54:LEU:HB2	2.36	0.41
49:BS:29:PHE:CD1	49:BS:30:ARG:N	2.89	0.41
49:BS:28:VAL:O	49:BS:89:ARG:HG2	2.21	0.41
4:CD:100:ARG:HH11	4:CD:100:ARG:HG2	1.85	0.41
4:CD:157:LEU:O	4:CD:161:ASN:OD1	2.38	0.41
4:CD:201:GLN:NE2	4:CD:204:ILE:HD12	2.35	0.41
44:BN:63:THR:HG23	44:BN:64:GLY:N	2.36	0.41
3:CC:128:PHE:O	3:CC:130:VAL:N	2.54	0.41
35:DA:2412:A:C6	35:DA:2413:G:C4	3.09	0.41
27:D1:78:LYS:HE2	35:DA:271(R):G:O4'	2.21	0.41
35:DA:271(S):G:H2'	35:DA:271(T):C:O4'	2.21	0.41
44:DN:87:LEU:O	44:DN:90:MET:HB2	2.21	0.41
44:DN:96:GLU:OE2	44:DN:96:GLU:N	2.51	0.41
34:B8:2:PRO:HA	35:BA:591:C:O2	2.20	0.41
35:BA:26:G:C6	35:BA:27:G:C2	3.09	0.41
35:BA:942:G:H2'	35:BA:943:U:O4'	2.20	0.41
35:BA:585:G:C4	35:BA:1251:C:N4	2.89	0.41
35:BA:670:A:H4'	35:BA:671:C:O5'	2.20	0.41
40:DF:110:LEU:C	40:DF:110:LEU:HD23	2.40	0.41
40:DF:20:LEU:O	40:DF:21:ALA:O	2.39	0.41
55:BY:87:LYS:C	55:BY:89:PHE:H	2.23	0.41
55:BY:87:LYS:HG2	55:BY:88:LYS:N	2.35	0.41
48:DR:67:LEU:O	48:DR:70:LEU:O	2.38	0.41
48:DR:78:LYS:O	48:DR:82:GLU:HB3	2.21	0.41
48:DR:80:PHE:C	48:DR:82:GLU:H	2.24	0.41
1:AA:1421:G:O2'	1:AA:1422:G:H5'	2.21	0.41
20:AT:26:ASN:HD22	20:AT:27:LYS:N	2.19	0.41
35:BA:1757:U:H2'	35:BA:1758:G:OP1	2.21	0.41
48:BR:78:LYS:O	48:BR:82:GLU:HB3	2.20	0.41
5:AE:51:VAL:O	5:AE:52:PRO:C	2.59	0.41
1:AA:1425:U:H2'	1:AA:1426:C:C6	2.56	0.41
48:BR:117:VAL:O	48:BR:118:GLU:CB	2.69	0.41
48:BR:59:ASP:O	48:BR:62:ALA:N	2.51	0.41
48:BR:81:ASP:N	48:BR:81:ASP:OD2	2.54	0.41
49:DS:20:ARG:HA	49:DS:20:ARG:HD3	1.70	0.41
49:DS:68:GLN:O	49:DS:71:ARG:HB2	2.20	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
49:DS:106:ARG:NH1	49:DS:107:GLU:O	2.54	0.41
49:DS:13:ARG:N	49:DS:13:ARG:CD	2.69	0.41
2:AB:69:LEU:HB3	2:AB:162:ILE:HB	2.03	0.41
2:AB:70:PHE:O	2:AB:92:TYR:CB	2.66	0.41
35:DA:202:U:N3	35:DA:203:C:C4	2.89	0.41
6:CF:18:GLN:CA	6:CF:21:LEU:HD23	2.46	0.41
18:CR:71:LYS:C	18:CR:74:ARG:HB2	2.41	0.41
2:CB:185:ILE:HG22	2:CB:199:TYR:CB	2.45	0.41
2:CB:43:ASP:OD2	2:CB:46:LYS:N	2.46	0.41
6:CF:21:LEU:CA	6:CF:24:GLU:HG2	2.49	0.41
15:CO:66:LEU:O	15:CO:69:TYR:N	2.53	0.41
34:D8:59:LYS:O	34:D8:61:LEU:N	2.50	0.41
35:DA:2065:C:H1'	35:DA:2449:U:N3	2.34	0.41
35:DA:802:A:C6	35:DA:803:U:C4	3.09	0.41
40:DF:82:ILE:H	40:DF:82:ILE:HG23	1.58	0.41
35:DA:589:C:O3'	40:DF:95:ARG:NH1	2.54	0.41
46:DP:48:PRO:CG	46:DP:49:ARG:H	2.34	0.41
46:DP:49:ARG:HG2	46:DP:50:ARG:N	2.35	0.41
35:DA:1225:G:O2'	35:DA:1226:A:H5'	2.21	0.41
40:DF:82:ILE:C	40:DF:84:VAL:H	2.23	0.41
4:AD:158:ILE:HG22	4:AD:159:ARG:N	2.35	0.41
1:AA:757:U:O2'	1:AA:879:C:H1'	2.21	0.41
47:DQ:43:THR:HG1	47:DQ:46:GLN:HG3	1.83	0.41
35:DA:910:A:C6	35:DA:911:A:C6	3.09	0.41
35:DA:911:A:N6	47:DQ:10:ARG:HG2	2.36	0.41
18:AR:40:LEU:HA	18:AR:43:PHE:CD1	2.56	0.41
18:AR:42:ARG:O	18:AR:44:LEU:N	2.47	0.41
1:CA:1517:G:O6	1:CA:1518:A:N1	2.53	0.41
1:CA:1529:G:OP2	1:CA:1529:G:H3'	2.21	0.41
35:DA:532:A:C8	35:DA:2021:C:C5	3.09	0.41
35:DA:562:U:O2'	35:DA:563:G:C5'	2.69	0.41
42:DH:19:VAL:HG12	42:DH:20:ALA:N	2.36	0.41
2:AB:115:LEU:CB	2:AB:145:LEU:HD11	2.50	0.41
16:AP:65:GLN:HA	16:AP:66:PRO:HD2	1.93	0.41
7:AG:104:LEU:O	7:AG:105:VAL:C	2.59	0.41
35:DA:29:U:H4'	51:DU:7:GLY:O	2.21	0.41
25:CY:104:PRO:HA	25:CY:105:PRO:HD2	1.81	0.41
25:CY:152:ASP:O	25:CY:156:ARG:HG3	2.21	0.41
25:CY:152:ASP:OD1	25:CY:153:GLU:N	2.53	0.41
25:CY:2:THR:C	25:CY:4:LYS:N	2.71	0.41
12:CL:28:LYS:C	12:CL:30:ALA:H	2.24	0.41
35:DA:19:C:H2'	35:DA:20:C:C6	2.56	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
12:CL:55:VAL:CA	12:CL:70:ILE:HD13	2.51	0.41
1:CA:1226:C:OP1	19:CS:81:ARG:CZ	2.69	0.41
13:CM:113:PRO:O	13:CM:114:ARG:C	2.58	0.41
13:CM:92:HIS:ND1	13:CM:98:VAL:HG21	2.36	0.41
1:AA:451:A:C1'	1:AA:452:A:N7	2.84	0.41
20:CT:48:LYS:O	20:CT:49:ALA:CB	2.69	0.41
25:AY:61:PRO:HG3	25:AY:67:VAL:CG1	2.50	0.41
1:AA:1014:A:H2	1:AA:1219:U:O2	2.03	0.41
25:AY:164:ILE:CG2	25:AY:165:THR:N	2.80	0.41
1:CA:939:G:C6	1:CA:940:C:N4	2.89	0.41
37:BC:44:HIS:HD2	37:BC:175:VAL:HA	1.85	0.41
37:BC:44:HIS:O	37:BC:210:ARG:HA	2.21	0.41
35:BA:2036:C:C4'	35:BA:2036:C:C6	3.04	0.41
11:AK:67:ASP:OD1	11:AK:71:LYS:HE3	2.21	0.41
35:BA:1353:A:H4'	38:BD:38:LYS:HZ3	1.86	0.41
35:BA:769:G:H5'	35:BA:1379:A:H61	1.86	0.41
35:DA:2753:A:H2	35:DA:2754:U:N3	2.18	0.41
42:DH:58:GLU:O	42:DH:61:HIS:HB2	2.20	0.41
8:CH:120:THR:C	8:CH:122:ARG:N	2.74	0.41
8:CH:109:ILE:HG23	8:CH:137:VAL:HG23	2.03	0.41
35:BA:2261:C:C2	35:BA:2280:G:C2	3.08	0.41
35:BA:78:A:N1	35:BA:109:G:C6	2.89	0.41
55:BY:15:VAL:O	55:BY:16:ALA:HB2	2.21	0.41
1:AA:1226:C:H2'	13:AM:103:THR:CB	2.51	0.41
1:AA:1226:C:OP1	19:AS:81:ARG:CZ	2.69	0.41
35:DA:662:G:P	46:DP:18:ARG:HD2	2.60	0.41
11:CK:71:LYS:O	11:CK:73:MET:N	2.54	0.41
1:AA:602:A:O2'	1:AA:603:U:H5'	2.20	0.41
5:AE:69:VAL:HG11	5:AE:113:ALA:HB1	2.03	0.41
2:CB:113:HIS:C	2:CB:115:LEU:N	2.74	0.41
1:AA:18:C:H2'	1:AA:19:C:H6	1.86	0.41
25:CY:83:ILE:C	25:CY:85:ASP:N	2.72	0.41
25:CY:80:GLU:C	25:CY:82:ALA:N	2.74	0.41
9:CI:113:LYS:HB2	9:CI:116:LYS:CG	2.48	0.41
8:AH:3:THR:O	8:AH:5:PRO:HD3	2.21	0.41
8:AH:9:MET:C	8:AH:11:THR:N	2.73	0.41
12:AL:113:ARG:NH1	12:AL:120:TYR:CE2	2.88	0.41
12:AL:46:LYS:O	12:AL:47:LYS:C	2.59	0.41
1:AA:876:G:O2'	8:AH:7:ALA:HB1	2.21	0.41
18:AR:52:PRO:C	18:AR:56:THR:HG23	2.38	0.41
9:AI:28:VAL:HG22	9:AI:63:ILE:C	2.41	0.41
8:CH:20:TYR:HA	8:CH:65:TYR:CZ	2.55	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:CH:63:LEU:HD22	8:CH:63:LEU:N	2.36	0.41
8:CH:63:LEU:CB	8:CH:65:TYR:CE1	3.04	0.41
31:D5:50:GLY:HA3	31:D5:56:LYS:HB3	2.03	0.41
47:DQ:137:TYR:HE2	56:DZ:76:LEU:CD2	2.33	0.41
42:BH:41:MET:HE3	42:BH:54:ARG:HA	2.03	0.41
42:BH:35:VAL:HG21	42:BH:72:ILE:HD13	2.02	0.41
1:CA:1249:C:H5'	1:CA:1249:C:H6	1.85	0.41
9:CI:83:ARG:HA	9:CI:86:VAL:HG12	2.03	0.41
35:DA:363(F):A:O2'	35:DA:364:C:C5	2.74	0.41
9:CI:88:TYR:O	9:CI:89:ASN:CB	2.69	0.41
33:D7:25:PRO:HG2	33:D7:26:GLY:N	2.31	0.41
46:DP:101:VAL:CB	46:DP:107:LYS:HA	2.50	0.41
56:BZ:109:ALA:HB3	56:BZ:145:GLU:OE1	2.21	0.41
1:CA:376:G:H5''	16:CP:5:ARG:HB2	2.02	0.41
15:AO:8:LYS:HG2	15:AO:12:ILE:HD11	2.03	0.41
46:BP:74:GLU:CD	46:BP:75:ILE:HD12	2.41	0.41
35:DA:2297:C:H2'	35:DA:2298:A:C5'	2.36	0.41
35:DA:709:U:C2	35:DA:723:G:N2	2.88	0.41
38:DD:53:PHE:C	38:DD:54:ARG:HG2	2.38	0.41
1:CA:37:U:O2'	1:CA:38:G:H5'	2.21	0.41
7:AG:64:GLN:HG2	7:AG:128:ALA:HB1	2.03	0.41
13:AM:19:LEU:HA	13:AM:22:ILE:CD1	2.38	0.41
1:CA:1423:G:C2	1:CA:1424:C:C5	3.09	0.41
17:CQ:45:HIS:HB2	17:CQ:69:LYS:CE	2.48	0.41
40:DF:171:PRO:C	40:DF:173:VAL:H	2.24	0.41
1:AA:253:U:O2'	1:AA:254:G:H5'	2.20	0.41
17:AQ:45:HIS:HE2	17:AQ:47:PRO:HB3	1.84	0.41
35:DA:2171:A:N3	35:DA:2171:A:H2'	2.36	0.41
26:D0:25:ARG:CB	26:D0:37:LEU:HD23	2.49	0.41
35:BA:271(W):G:C5'	35:BA:271(X):G:OP2	2.69	0.41
35:BA:1925:C:H2'	35:BA:1926:U:C5'	2.50	0.41
20:CT:14:LYS:CA	20:CT:17:ARG:HH21	2.33	0.41
35:DA:1484:G:H1	35:DA:1506:C:H42	1.69	0.41
4:AD:129:ASN:HB2	4:AD:131:ARG:HH22	1.86	0.41
35:BA:1850:G:C5	35:BA:1851:U:C5	3.09	0.41
1:AA:113:G:H2'	1:AA:114:U:C6	2.55	0.41
35:DA:1771:C:C1'	35:DA:1786:A:H8	2.33	0.41
3:CC:89:GLU:O	3:CC:93:LYS:N	2.49	0.41
19:CS:48:THR:HG22	19:CS:61:TYR:CB	2.50	0.41
54:BX:62:LYS:HB3	54:BX:69:TYR:H	1.86	0.41
3:AC:181:ASN:HD21	3:AC:204:LEU:HB2	1.83	0.41
26:D0:40:GLN:HG3	26:D0:57:PHE:HB3	2.03	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
26:B0:26:TYR:C	26:B0:67:VAL:HG11	2.41	0.41
35:BA:470:A:H2'	35:BA:471:A:O4'	2.21	0.41
46:DP:17:LYS:C	46:DP:19:VAL:N	2.60	0.41
35:BA:348:G:H2'	35:BA:349:G:C8	2.56	0.41
35:BA:863:A:H2	35:BA:914:C:N4	2.19	0.41
1:AA:665:A:H2'	1:AA:732:C:O2	2.21	0.41
35:DA:968:G:C2	35:DA:969:U:C2	3.09	0.41
13:AM:48:LEU:HD21	13:AM:53:VAL:CG2	2.51	0.41
1:AA:66:G:O4'	1:AA:173:U:C4	2.74	0.41
1:AA:1118:C:O5'	9:AI:104:ARG:HG3	2.20	0.41
1:AA:656:C:O2'	1:AA:657:G:H5'	2.20	0.41
15:AO:60:VAL:O	15:AO:63:ARG:N	2.54	0.41
12:CL:117:ARG:C	12:CL:119:LYS:O	2.59	0.41
38:DD:166:GLN:CA	38:DD:166:GLN:NE2	2.83	0.41
8:CH:54:ASP:C	8:CH:56:LYS:N	2.74	0.41
1:AA:769:G:H2'	1:AA:770:C:C6	2.52	0.41
36:BB:83:G:C2'	36:BB:84:C:H5'	2.51	0.41
1:AA:178:C:H2'	1:AA:179:A:C8	2.52	0.41
44:BN:107:LEU:HD12	44:BN:107:LEU:C	2.42	0.41
36:DB:11:C:H3'	36:DB:12:C:C5	2.56	0.41
45:BO:13:ASN:ND2	45:BO:96:THR:OG1	2.53	0.41
53:BW:44:ALA:O	53:BW:45:TYR:C	2.58	0.41
45:DO:60:ALA:HA	45:DO:87:ILE:H	1.86	0.41
25:AY:48:ALA:O	25:AY:50:VAL:N	2.54	0.41
35:DA:2193:G:C2	35:DA:2194:G:C8	3.09	0.41
35:DA:481:G:O2'	35:DA:482:A:P	2.79	0.41
26:D0:72:ARG:HB2	26:D0:76:GLY:O	2.21	0.41
53:DW:12:ILE:CD1	53:DW:42:ARG:NH1	2.83	0.41
46:DP:13:ASN:ND2	46:DP:13:ASN:N	2.69	0.41
1:CA:227:G:C2	1:CA:228:A:C4	3.09	0.41
7:AG:23:VAL:HG12	7:AG:27:ILE:CD1	2.51	0.41
11:AK:124:LYS:HD2	11:AK:125:PHE:CE1	2.55	0.41
35:BA:920:G:O2'	35:BA:921:G:H5'	2.21	0.41
38:BD:70:TRP:CZ2	38:BD:150:LYS:HA	2.55	0.41
13:AM:14:ARG:HG2	13:AM:14:ARG:H	1.68	0.41
7:CG:24:THR:O	7:CG:28:ASN:ND2	2.54	0.41
1:CA:1287:A:C5	1:CA:1288:A:N6	2.89	0.41
10:CJ:22:LYS:HE3	10:CJ:23:ILE:HG13	2.03	0.41
35:BA:2840:C:O2'	35:BA:2841:C:H5'	2.20	0.41
1:AA:52:G:C6	1:AA:360:A:C2	3.09	0.41
35:BA:1109:C:N4	35:BA:1110:G:C2	2.89	0.41
1:CA:810:C:H2'	1:CA:811:C:O4'	2.21	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
43:DI:26:ALA:HA	43:DI:30:LEU:HB2	2.02	0.41
1:CA:947:G:H2'	1:CA:948:C:C6	2.56	0.41
23:CW:31:G:N2	23:CW:42:C:C2	2.89	0.41
35:DA:2073:C:O2'	35:DA:2074:U:H5'	2.20	0.41
35:DA:1761:C:H3'	35:DA:1762:A:H8	1.86	0.41
1:CA:885:G:H1	1:CA:912:C:N4	2.18	0.41
1:AA:764:C:C2	1:AA:765:G:C8	3.09	0.41
1:CA:355:C:C2'	1:CA:356:A:H5'	2.50	0.41
3:AC:95:THR:HB	3:AC:99:VAL:CG1	2.51	0.41
38:BD:109:ASP:N	38:BD:195:ALA:O	2.30	0.41
1:CA:1019:C:O2'	1:CA:1020:U:H5'	2.21	0.41
54:BX:88:LYS:CD	54:BX:88:LYS:N	2.83	0.41
3:CC:60:ALA:O	3:CC:61:ALA:HB2	2.21	0.41
3:CC:59:ARG:HA	3:CC:63:ASN:O	2.21	0.41
35:BA:1441:G:H4'	35:BA:1627:G:O3'	2.21	0.41
1:AA:363:A:C6	12:AL:31:PRO:HD2	2.56	0.41
35:DA:38:A:C6	35:DA:39:C:C4	3.09	0.41
42:BH:20:ALA:HB1	42:BH:21:PRO:HD2	2.01	0.41
35:DA:1488:G:H2'	35:DA:1488:G:N3	2.36	0.41
35:BA:2687:U:C2'	35:BA:2688:U:H5'	2.50	0.41
1:AA:751:U:H2'	1:AA:752:G:H5'	2.02	0.41
1:AA:751:U:H2'	1:AA:752:G:O4'	2.21	0.41
41:BG:39:ILE:CD1	41:BG:155:MET:SD	3.09	0.41
1:CA:128:G:C2'	1:CA:129:U:H5'	2.50	0.41
35:BA:1272:A:C2	35:BA:1618:A:C5	3.09	0.41
41:BG:150:ASP:O	41:BG:151:ALA:CB	2.69	0.41
3:AC:37:GLN:O	3:AC:39:ILE:N	2.54	0.41
35:BA:1912:A:C2	35:BA:1919:A:C6	3.09	0.41
35:DA:1375:C:H2'	35:DA:1376:C:H6	1.86	0.41
26:B0:20:ARG:HB3	35:BA:2270:G:O3'	2.21	0.41
35:BA:1955:U:O2'	35:BA:1956:U:H5'	2.21	0.41
35:BA:945:A:C4	35:BA:2448:A:C2	3.09	0.41
2:AB:23:ARG:HG3	2:AB:23:ARG:HH11	1.86	0.41
35:BA:2253:G:C5	35:BA:2254:C:C4	3.08	0.41
1:CA:80:G:H3'	1:CA:81:U:H5'	2.03	0.41
8:AH:95:VAL:HA	8:AH:99:GLU:OE1	2.21	0.41
39:BE:71:GLY:O	39:BE:72:VAL:HB	2.20	0.41
35:BA:2517:C:C6	35:BA:2542:A:C2	3.09	0.41
1:AA:1011:G:H2'	1:AA:1012:U:C5'	2.51	0.41
35:DA:2228:G:H2'	35:DA:2229:C:H6	1.86	0.41
35:BA:1208:C:C4	35:BA:1209:G:N7	2.89	0.41
35:BA:1692:U:H2'	35:BA:1694:C:C5	2.55	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
56:DZ:82:ARG:NH1	56:DZ:83:PRO:O	2.54	0.41
41:DG:121:ASN:OD1	41:DG:123:ASN:OD1	2.38	0.41
50:DT:7:ILE:C	50:DT:9:LEU:H	2.24	0.41
4:CD:53:ASP:HB3	4:CD:57:ARG:NH2	2.36	0.41
31:D5:27:PRO:O	31:D5:28:PRO:C	2.59	0.41
26:B0:82:ARG:HA	26:B0:83:PRO:HD2	1.89	0.41
8:CH:102:ARG:N	8:CH:102:ARG:HE	2.19	0.41
12:AL:126:LYS:HA	12:AL:126:LYS:HD2	1.78	0.41
50:DT:112:ARG:C	50:DT:112:ARG:HD3	2.42	0.41
50:DT:29:ARG:HD2	50:DT:29:ARG:HA	1.87	0.41
50:DT:51:ARG:O	50:DT:52:ILE:HG23	2.21	0.41
50:DT:52:ILE:CG1	50:DT:52:ILE:O	2.66	0.41
50:DT:64:ARG:HA	50:DT:72:VAL:O	2.21	0.41
50:DT:92:GLY:O	50:DT:94:ALA:N	2.54	0.41
10:CJ:49:VAL:HG11	14:CN:41:ARG:HB2	2.01	0.41
41:DG:12:TYR:HA	41:DG:16:ARG:HH11	1.81	0.41
41:DG:14:GLU:C	41:DG:17:PRO:HD2	2.41	0.41
38:BD:226:MET:HE1	38:BD:230:ASP:HB3	1.98	0.41
41:DG:128:ARG:C	41:DG:129:GLY:O	2.60	0.41
41:DG:66:GLN:NE2	41:DG:93:THR:O	2.53	0.41
41:DG:82:LEU:HD13	41:DG:87:PRO:HA	2.03	0.41
45:BO:53:LYS:O	45:BO:54:GLU:C	2.59	0.41
50:BT:35:LYS:HZ1	50:BT:41:ARG:HH21	1.67	0.41
16:AP:18:ARG:HD3	16:AP:35:LYS:CD	2.44	0.41
36:BB:74:U:C3'	36:BB:75:G:C5'	2.91	0.41
35:BA:2805:G:C2	35:BA:2807:G:C5	3.08	0.41
35:DA:1418:G:H1	35:DA:1579:A:C5'	2.30	0.41
51:BU:101:ARG:O	51:BU:102:GLU:C	2.59	0.41
52:BV:2:PHE:CB	52:BV:42:GLY:CA	2.95	0.41
28:B2:14:ARG:C	28:B2:16:LEU:N	2.74	0.41
35:BA:142:A:H1'	35:BA:1408:C:O4'	2.21	0.41
54:BX:47:PHE:O	54:BX:49:VAL:CG2	2.64	0.41
35:DA:2810:A:N6	35:DA:2891:G:H1'	2.36	0.41
35:DA:2892:A:H2'	35:DA:2893:G:O4'	2.21	0.41
27:B1:76:ARG:HE	27:B1:76:ARG:HA	1.85	0.41
2:AB:80:ILE:HD11	2:AB:215:LEU:CD1	2.51	0.41
41:BG:5:VAL:HB	41:BG:104:GLU:OE1	2.21	0.41
56:DZ:151:HIS:O	56:DZ:171:ILE:HG12	2.20	0.41
44:DN:9:VAL:CG1	44:DN:10:GLU:H	2.18	0.41
51:DU:91:ASP:O	51:DU:92:ARG:HG2	2.20	0.41
32:D6:51:GLU:OE1	32:D6:51:GLU:N	2.47	0.41
1:CA:502:G:C6	1:CA:544:G:N1	2.89	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:CD:102:ASP:HB3	4:CD:136:PRO:HB3	2.02	0.41
4:CD:148:VAL:O	4:CD:149:ALA:C	2.60	0.41
43:DI:122:GLU:O	43:DI:126:TYR:OH	2.39	0.41
43:DI:77:LEU:CD2	43:DI:101:LEU:HD13	2.50	0.41
14:CN:4:LYS:HA	14:CN:7:ILE:HG12	2.03	0.41
27:D1:13:ILE:HD11	27:D1:14:VAL:HG12	2.03	0.41
27:D1:89:GLU:C	27:D1:90:ILE:HD13	2.41	0.41
35:BA:869:G:H2'	35:BA:870:A:O4'	2.20	0.41
47:BQ:93:TYR:N	47:BQ:93:TYR:CD1	2.89	0.41
48:DR:53:HIS:C	48:DR:56:LYS:HB2	2.41	0.41
35:BA:1682:G:C4	35:BA:1757:U:C2	3.09	0.41
49:DS:32:LEU:HD23	49:DS:32:LEU:HA	1.88	0.41
27:D1:37:ILE:HG13	27:D1:38:SER:N	2.36	0.41
44:DN:30:ILE:HG22	44:DN:30:ILE:O	2.21	0.41
44:DN:60:ILE:O	44:DN:61:ARG:C	2.58	0.41
18:CR:42:ARG:O	18:CR:44:LEU:N	2.46	0.41
2:CB:204:ASN:HB3	2:CB:210:SER:HB3	2.01	0.41
35:DA:1203:G:H3'	35:DA:1204:A:H5''	2.03	0.41
1:AA:437:U:H2'	1:AA:438:G:H5'	2.03	0.41
35:DA:99:U:H4'	35:DA:100:G:H5'	2.03	0.41
17:AQ:29:HIS:ND1	17:AQ:31:LEU:N	2.51	0.41
1:AA:502:G:C2	1:AA:544:G:C2	3.08	0.41
4:AD:61:LYS:HZ2	4:AD:62:GLN:NE2	2.19	0.41
43:DI:93:THR:N	43:DI:96:ASP:OD2	2.54	0.41
51:DU:18:LEU:C	51:DU:18:LEU:HD23	2.39	0.41
51:DU:36:ARG:HG2	51:DU:40:PHE:CZ	2.56	0.41
35:DA:2737:G:H1	35:DA:2767:C:H42	1.67	0.41
25:CY:14:MET:O	25:CY:18:LEU:CB	2.65	0.41
1:CA:911:U:OP1	12:CL:95:GLY:HA2	2.20	0.41
13:CM:91:ARG:NH1	19:CS:81:ARG:HH22	1.91	0.41
20:CT:43:LEU:O	20:CT:44:ALA:C	2.59	0.41
25:AY:126:ARG:HA	25:AY:169:ILE:HD11	2.02	0.41
35:BA:2127:G:H5'	37:BC:36:LYS:HZ3	1.86	0.41
35:BA:1591:G:H2'	35:BA:1592:C:H5'	2.02	0.41
51:BU:36:ARG:HG2	51:BU:40:PHE:CZ	2.56	0.41
11:CK:29:ILE:C	11:CK:29:ILE:CD1	2.86	0.41
35:BA:1313:U:C6	35:BA:1610:A:C2	3.09	0.41
43:BI:133:HIS:O	43:BI:134:PRO:C	2.59	0.41
55:BY:13:VAL:HG12	55:BY:14:LEU:H	1.86	0.41
1:AA:194:C:H4'	20:AT:65:LYS:HG3	2.03	0.41
2:CB:145:LEU:CD2	2:CB:149:LEU:HD12	2.51	0.41
1:CA:1179:A:O2'	9:CI:103:THR:HG23	2.21	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:CI:102:LEU:C	9:CI:102:LEU:HD23	2.41	0.41
12:AL:44:THR:HA	12:AL:45:PRO:HD3	1.85	0.41
8:AH:22:GLU:HA	8:AH:22:GLU:OE2	2.21	0.41
8:CH:25:ASP:OD2	8:CH:60:ARG:HD3	2.21	0.41
8:CH:49:GLU:HG2	8:CH:62:TYR:CE2	2.56	0.41
35:DA:2124:G:O2'	57:DC:40:THR:HA	2.21	0.41
5:CE:99:GLY:O	5:CE:117:ASP:HA	2.20	0.41
1:CA:513:C:H2'	1:CA:514:C:C6	2.56	0.41
12:CL:90:VAL:O	12:CL:90:VAL:HG12	2.20	0.41
35:DA:2538:C:C2'	35:DA:2539:C:C5'	2.97	0.41
35:BA:2746:U:H2'	35:BA:2747:G:H8	1.86	0.41
9:CI:27:THR:O	9:CI:28:VAL:HG23	2.20	0.41
9:CI:28:VAL:HG22	9:CI:63:ILE:HB	2.03	0.41
9:CI:4:TYR:HB2	9:CI:19:LEU:CD1	2.48	0.41
33:D7:34:ARG:NE	33:D7:39:ARG:HD2	2.36	0.41
46:DP:113:LYS:HG2	46:DP:115:LEU:HD23	2.04	0.41
5:CE:144:THR:O	5:CE:146:ALA:N	2.54	0.41
1:AA:445:G:H2'	1:AA:446:G:O4'	2.21	0.41
7:CG:120:ILE:HG22	7:CG:124:LEU:CD1	2.46	0.41
38:DD:133:LEU:CB	38:DD:173:VAL:HG11	2.51	0.41
38:DD:136:ILE:HG22	38:DD:137:PRO:HD2	2.03	0.41
35:BA:2606:C:H2'	35:BA:2607:G:H5'	2.02	0.41
11:CK:33:THR:CA	11:CK:40:ILE:HG12	2.50	0.41
11:CK:84:VAL:HG22	11:CK:110:ASP:HA	2.03	0.41
5:AE:94:ALA:HB3	5:AE:117:ASP:O	2.21	0.41
3:AC:104:GLN:CD	3:AC:105:GLU:N	2.70	0.41
35:DA:271(V):G:N3	35:DA:271(W):G:H1'	2.36	0.41
35:BA:16:G:H2'	35:BA:17:G:C8	2.56	0.41
35:BA:17:G:H2'	35:BA:18:C:H6	1.86	0.41
1:AA:1054:C:O2	1:AA:1054:C:C2'	2.67	0.41
35:BA:678:C:C2	35:BA:679:C:C5	3.09	0.41
35:BA:1925:C:H2'	35:BA:1926:U:H5'	2.01	0.41
1:CA:332:G:O2'	1:CA:333:G:H5'	2.21	0.41
1:AA:389:A:H2'	1:AA:390:C:O4'	2.21	0.41
1:AA:832:C:C4	1:AA:855:G:N1	2.89	0.41
35:BA:2637:U:H1'	35:BA:2782:G:H22	1.86	0.41
25:CY:108:GLU:N	25:CY:111:ARG:CZ	2.84	0.41
8:CH:38:ILE:HD11	8:CH:118:VAL:O	2.21	0.41
35:BA:738:G:C2'	35:BA:739:G:H5'	2.51	0.41
13:AM:27:LYS:O	13:AM:30:ALA:HB3	2.21	0.41
4:CD:128:VAL:CG1	4:CD:129:ASN:N	2.75	0.41
15:AO:36:ILE:HG22	15:AO:37:ASN:N	2.36	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1112:G:O2'	35:DA:1113:U:H6	2.04	0.41
35:DA:1706:U:O2'	35:DA:1707:G:H5'	2.21	0.41
1:CA:348:G:C2'	1:CA:349:A:H5'	2.51	0.41
35:BA:1449:A:C6	35:BA:1450:G:H1'	2.56	0.41
1:AA:349:A:C2'	1:AA:350:G:H5'	2.50	0.41
36:DB:81:G:H4'	36:DB:81:G:OP1	2.21	0.41
2:AB:30:ARG:HG3	2:AB:31:TYR:CD2	2.55	0.41
10:AJ:85:LEU:O	10:AJ:86:MET:C	2.59	0.41
25:AY:45:TYR:HB3	25:AY:50:VAL:CG2	2.50	0.41
35:BA:638:G:H2'	35:BA:639:U:O4'	2.21	0.41
56:BZ:105:VAL:H	56:BZ:141:VAL:CG1	2.33	0.41
35:BA:987:G:H2'	35:BA:988:A:O4'	2.21	0.41
35:DA:1400:G:H2'	35:DA:1401:G:H8	1.86	0.41
9:AI:39:GLY:O	9:AI:41:VAL:N	2.54	0.41
7:CG:25:ALA:O	7:CG:28:ASN:HB2	2.21	0.41
35:BA:2485:G:C2	35:BA:2486:G:C8	3.09	0.41
1:AA:1154:G:O2'	1:AA:1155:G:H5'	2.21	0.41
1:AA:1153:C:C2'	1:AA:1154:G:O5'	2.69	0.41
7:AG:49:ILE:CG2	7:AG:49:ILE:O	2.67	0.41
1:AA:1164:G:C6	1:AA:1173:G:C6	3.08	0.41
1:AA:763:G:H2'	1:AA:764:C:H6	1.85	0.41
42:BH:79:VAL:O	42:BH:81:GLU:N	2.49	0.41
35:DA:736:C:H2'	35:DA:737:C:C6	2.51	0.41
1:AA:1267:C:C2'	1:AA:1267:C:O2	2.69	0.41
35:BA:271(E):U:C2	35:BA:271(F):C:C5	3.09	0.41
1:AA:1414:U:H2'	1:AA:1415:G:H8	1.86	0.41
1:AA:506:G:H2'	1:AA:507:C:H6	1.83	0.41
41:BG:128:ARG:O	41:BG:129:GLY:O	2.39	0.41
35:BA:827:U:C4	35:BA:2430:A:C6	3.08	0.41
3:AC:206:GLU:HB3	3:AC:207:VAL:H	1.59	0.41
35:BA:2183:C:O2'	35:BA:2184:G:H5'	2.21	0.41
35:DA:1662:C:O2'	35:DA:2687:U:OP1	2.39	0.41
26:B0:56:ASP:O	26:B0:58:THR:N	2.54	0.41
3:AC:188:LEU:CD2	3:AC:188:LEU:N	2.85	0.41
35:BA:2550:G:O2'	35:BA:2551:C:H5'	2.20	0.41
1:CA:1023:G:C2'	1:CA:1024:G:H5'	2.50	0.41
23:CW:38:A:N7	23:CW:39:A:C6	2.89	0.41
1:AA:837:G:O2'	1:AA:838:G:H5'	2.20	0.41
2:CB:23:ARG:HG3	2:CB:23:ARG:HH11	1.86	0.41
35:DA:2615:U:H2'	35:DA:2616:C:H6	1.86	0.41
35:BA:830:G:N3	35:BA:2448:A:N6	2.68	0.41
53:BW:76:VAL:CG2	53:BW:103:ILE:HG22	2.51	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:482:A:N3	1:AA:482:A:H2'	2.35	0.41
35:BA:1106:A:H2'	35:BA:1107:G:C8	2.55	0.41
32:B6:43:CYS:O	32:B6:44:ARG:O	2.38	0.41
1:CA:934:C:HO2'	1:CA:1344:C:H5	1.65	0.41
30:B4:21:VAL:C	30:B4:23:GLU:N	2.74	0.41
7:AG:155:ARG:HH11	7:AG:155:ARG:HG3	1.85	0.41
53:DW:88:ARG:HH11	53:DW:88:ARG:HG2	1.85	0.41
13:CM:100:GLY:C	13:CM:101:GLN:HG3	2.41	0.41
35:BA:900:A:N7	35:BA:901:A:N7	2.68	0.41
35:DA:483:A:H1'	55:DY:47:LYS:CG	2.25	0.40
1:CA:973:G:C8	1:CA:974:A:C8	3.09	0.40
35:BA:1794:U:H2'	35:BA:1795:C:C6	2.56	0.40
38:BD:213:ARG:O	38:BD:214:TRP:C	2.59	0.40
35:DA:1813:G:H2'	35:DA:1814:G:O4'	2.20	0.40
38:DD:24:ILE:O	38:DD:25:THR:C	2.60	0.40
38:DD:36:PRO:CB	38:DD:62:TYR:O	2.69	0.40
36:DB:41:U:O4	41:DG:71:THR:HA	2.21	0.40
41:DG:63:ILE:HD13	41:DG:141:PHE:CZ	2.56	0.40
41:DG:45:GLU:OE1	41:DG:45:GLU:C	2.59	0.40
34:B8:35:GLN:HB3	34:B8:36:LYS:H	1.67	0.40
35:BA:2287:A:N6	35:BA:2344:U:H3	2.19	0.40
46:BP:62:LEU:HD12	46:BP:62:LEU:H	1.80	0.40
35:BA:2724:C:OP1	39:BE:118:LYS:HE3	2.22	0.40
35:BA:2726:U:O2'	35:BA:2727:G:H5'	2.21	0.40
45:BO:104:ARG:NH2	50:BT:33:LYS:HD2	2.36	0.40
35:BA:2566:A:C6	45:BO:28:SER:HB2	2.56	0.40
45:BO:65:THR:HA	45:BO:82:ASN:HA	2.02	0.40
45:BO:88:ASN:HB3	45:BO:92:GLU:O	2.21	0.40
56:BZ:58:VAL:HG22	56:BZ:68:PRO:CB	2.50	0.40
35:BA:2787:C:H1'	39:BE:61:ARG:HD3	2.02	0.40
35:DA:1495:A:C2	35:DA:1496:A:C4	3.09	0.40
51:BU:101:ARG:C	51:BU:102:GLU:HG2	2.41	0.40
51:BU:92:ARG:CG	51:BU:95:LEU:H	2.22	0.40
1:AA:1232:U:H5'	9:AI:126:SER:OG	2.21	0.40
1:AA:981:U:H5'	14:AN:21:TYR:OH	2.22	0.40
28:B2:23:LYS:CA	54:BX:5:TYR:CE1	3.02	0.40
54:BX:77:LYS:HD3	54:BX:78:LYS:N	2.36	0.40
39:DE:4:ILE:HD12	39:DE:5:LEU:H	1.85	0.40
41:BG:131:TYR:O	41:BG:159:VAL:HG22	2.22	0.40
55:DY:88:LYS:O	55:DY:90:LEU:HD23	2.20	0.40
34:B8:6:THR:HG22	34:B8:62:LEU:HB2	2.03	0.40
28:D2:13:ALA:O	28:D2:14:ARG:NH2	2.54	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
28:D2:40:SER:HB2	28:D2:41:ILE:CD1	2.45	0.40
54:DX:60:ARG:HG2	54:DX:73:ARG:N	2.36	0.40
56:DZ:28:MET:HB3	56:DZ:88:PHE:HB2	2.02	0.40
35:DA:2041:U:H2'	35:DA:2042:A:H8	1.87	0.40
44:DN:7:LYS:O	44:DN:8:GLN:C	2.58	0.40
51:DU:66:ASN:O	51:DU:70:ARG:HB2	2.21	0.40
51:DU:72:HIS:CE1	51:DU:107:ALA:HA	2.56	0.40
51:DU:94:ASN:C	51:DU:96:ALA:H	2.24	0.40
51:DU:61:TRP:CE2	51:DU:94:ASN:HB2	2.56	0.40
52:DV:14:VAL:HG11	52:DV:98:GLU:CG	2.49	0.40
52:DV:94:LEU:HA	52:DV:94:LEU:HD23	1.84	0.40
47:DQ:55:VAL:O	47:DQ:57:HIS:N	2.55	0.40
35:BA:1022:G:C6	35:BA:1140:C:C4	3.08	0.40
44:BN:70:LYS:HG2	44:BN:87:LEU:HD23	2.03	0.40
35:BA:260:G:H2'	35:BA:260:G:N3	2.36	0.40
35:BA:596:G:H2'	35:BA:597:U:O4'	2.21	0.40
27:D1:60:PHE:HE2	27:D1:91:LYS:HE3	1.87	0.40
35:BA:1260:G:H2'	35:BA:1261:C:H6	1.86	0.40
35:BA:2027:G:C6	35:BA:2028:U:C4	3.09	0.40
35:BA:2243:U:C2	35:BA:2244:U:C5	3.09	0.40
40:DF:119:ARG:NH1	40:DF:119:ARG:HG2	2.36	0.40
35:BA:870:A:C2	35:BA:871:U:H1'	2.57	0.40
35:BA:910:A:N9	47:BQ:13:GLN:OE1	2.54	0.40
48:DR:23:ASN:O	48:DR:24:GLN:C	2.59	0.40
48:DR:34:ILE:HG22	48:DR:35:THR:H	1.86	0.40
1:AA:1478:C:N3	1:AA:1479:C:N4	2.68	0.40
1:AA:1480:G:N2	1:AA:1481:U:H1'	2.36	0.40
20:AT:25:ARG:HH11	20:AT:25:ARG:CG	2.34	0.40
35:BA:1637:A:C6	35:BA:1638:C:N4	2.89	0.40
49:DS:51:ALA:HA	49:DS:56:LEU:CD1	2.51	0.40
2:AB:194:PRO:HB2	2:AB:195:ASP:H	1.71	0.40
6:CF:19:LEU:C	6:CF:21:LEU:N	2.73	0.40
6:CF:21:LEU:O	6:CF:22:GLU:C	2.59	0.40
15:CO:52:SER:O	15:CO:55:GLY:N	2.54	0.40
15:CO:85:LEU:HB2	15:CO:87:ILE:CD1	2.50	0.40
18:CR:29:PHE:H	18:CR:29:PHE:HD2	1.68	0.40
2:CB:178:ARG:NH1	2:CB:178:ARG:CG	2.84	0.40
35:DA:591:C:C2	35:DA:592:G:C8	3.09	0.40
4:AD:109:GLY:O	4:AD:161:ASN:HB3	2.21	0.40
4:AD:120:LEU:CD1	4:AD:120:LEU:N	2.73	0.40
4:AD:148:VAL:O	4:AD:148:VAL:HG12	2.22	0.40
4:AD:163:GLU:O	4:AD:166:LYS:N	2.38	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
19:AS:5:LEU:HD12	19:AS:10:PHE:H	1.86	0.40
55:DY:31:LEU:HA	55:DY:31:LEU:HD22	1.93	0.40
55:DY:28:LYS:HA	55:DY:38:ILE:HG22	2.02	0.40
12:AL:6:THR:HG22	12:AL:9:GLN:NE2	2.31	0.40
43:DI:96:ASP:O	43:DI:100:ALA:N	2.54	0.40
47:DQ:12:GLN:HE21	47:DQ:73:PRO:HD3	1.86	0.40
6:AF:21:LEU:C	6:AF:23:LYS:N	2.74	0.40
1:CA:1517:G:C2'	1:CA:1518:A:O5'	2.69	0.40
1:CA:1516:G:N3	1:CA:1518:A:OP2	2.54	0.40
35:DA:1747:G:H2'	35:DA:1747(A):G:H8	1.86	0.40
25:CY:135:GLU:O	25:CY:136:ALA:C	2.58	0.40
21:CU:6:ARG:O	21:CU:12:LYS:HD3	2.21	0.40
1:CA:989:C:N4	1:CA:1217:C:H42	2.14	0.40
25:AY:133:ARG:NH2	35:BA:1942:C:O4'	2.53	0.40
1:AA:552:U:H4'	12:AL:87:GLY:N	2.35	0.40
12:AL:33:ARG:HB3	12:AL:85:ILE:CG2	2.51	0.40
33:B7:29:LYS:O	33:B7:33:ARG:N	2.45	0.40
35:BA:769:G:H2'	35:BA:770:G:H8	1.86	0.40
35:DA:2248:C:H2'	35:DA:2249:U:C5'	2.50	0.40
8:CH:120:THR:HG23	8:CH:123:GLU:CD	2.41	0.40
55:BY:9:LYS:HG3	55:BY:10:GLY:N	2.36	0.40
11:CK:67:ASP:OD1	11:CK:71:LYS:HE3	2.21	0.40
20:AT:56:MET:O	20:AT:60:GLU:CB	2.69	0.40
20:AT:78:ALA:O	20:AT:81:LYS:N	2.54	0.40
43:DI:17:GLN:CG	43:DI:18:VAL:H	2.24	0.40
1:AA:528:C:C5	1:AA:529:G:N7	2.90	0.40
8:AH:12:ARG:O	8:AH:15:ASN:N	2.49	0.40
8:AH:25:ASP:OD2	8:AH:60:ARG:HD3	2.21	0.40
35:BA:2600:A:HO2'	35:BA:2601:C:H5'	1.79	0.40
9:AI:27:THR:C	9:AI:28:VAL:HG23	2.42	0.40
8:CH:86:ILE:HG21	8:CH:133:LEU:HD23	2.03	0.40
18:CR:56:THR:C	18:CR:58:LEU:HD12	2.41	0.40
42:BH:70:THR:HB	42:BH:71:LEU:H	1.64	0.40
42:BH:76:VAL:O	42:BH:77:LYS:C	2.59	0.40
35:DA:651:G:HO2'	35:DA:652:C:P	2.44	0.40
35:DA:2011:U:C2'	35:DA:2012:G:H5'	2.51	0.40
56:BZ:109:ALA:O	56:BZ:110:GLY:C	2.59	0.40
40:BF:171:PRO:C	40:BF:173:VAL:H	2.24	0.40
31:B5:11:THR:CB	35:BA:1263:U:O3'	2.68	0.40
1:CA:1413:A:C6	1:CA:1488:G:N1	2.89	0.40
1:CA:35:G:C4	1:CA:550:G:N2	2.89	0.40
35:DA:1925:C:C2'	35:DA:1926:U:C5'	2.97	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:208:C:O2'	35:BA:209:C:H5'	2.21	0.40
1:CA:1465:C:O2'	1:CA:1466:C:H5'	2.20	0.40
1:CA:327:A:C4	1:CA:329:A:C8	3.09	0.40
1:CA:60:A:H2	1:CA:107:G:N3	2.19	0.40
1:AA:393:A:P	16:AP:12:LYS:HD3	2.60	0.40
32:D6:22:ALA:HB2	32:D6:39:TYR:CE2	2.56	0.40
43:DI:54:GLN:HA	43:DI:57:ARG:CB	2.51	0.40
35:DA:1982:C:H2'	35:DA:1983:C:H6	1.85	0.40
1:AA:1253:G:OP1	10:AJ:44:VAL:HG11	2.21	0.40
35:BA:1847:A:C2'	35:BA:1847:A:N3	2.83	0.40
35:DA:1615:C:C5	35:DA:1617:C:C6	3.10	0.40
39:DE:133:LYS:CA	39:DE:134:ILE:HD13	2.51	0.40
35:BA:915:C:H2'	35:BA:916:G:C8	2.56	0.40
9:AI:8:GLY:HA3	9:AI:15:ALA:HB3	2.03	0.40
35:DA:1718:G:O6	35:DA:1744:C:N4	2.53	0.40
35:BA:1721:G:C6	35:BA:1739:U:H5'	2.56	0.40
35:DA:1449:A:H5'	35:DA:1450:G:OP2	2.21	0.40
36:DB:90:A:N7	36:DB:91:C:H1'	2.35	0.40
22:CV:29:G:H2'	22:CV:30:A:C8	2.57	0.40
1:CA:854:G:OP2	1:CA:871:U:C6	2.74	0.40
1:CA:416:G:C6	1:CA:417:C:C4	3.09	0.40
4:CD:192:GLU:C	4:CD:194:LEU:H	2.24	0.40
7:AG:18:TYR:HD1	7:AG:18:TYR:H	1.68	0.40
7:AG:27:ILE:HD11	7:AG:43:PHE:CE2	2.56	0.40
10:CJ:32:ALA:N	10:CJ:78:ASN:HD21	2.18	0.40
35:BA:1889:A:H2'	35:BA:1890:A:O4'	2.21	0.40
1:AA:1293:G:O2'	1:AA:1294:G:O5'	2.39	0.40
45:DO:4:PRO:O	45:DO:5:GLN:HB2	2.20	0.40
1:AA:631:G:H2'	1:AA:632:A:C8	2.56	0.40
10:CJ:22:LYS:HZ1	10:CJ:23:ILE:HG12	1.86	0.40
35:BA:1192:G:H2'	35:BA:1193:G:H5'	2.00	0.40
4:AD:12:CYS:HA	4:AD:19:LEU:H	1.86	0.40
1:CA:1154:G:H2'	1:CA:1155:G:C8	2.53	0.40
35:BA:2861:G:C2'	35:BA:2862:G:H5'	2.51	0.40
35:BA:1763:G:C4'	35:BA:1763:G:OP1	2.69	0.40
20:AT:34:LYS:O	20:AT:35:THR:C	2.59	0.40
51:BU:29:SER:O	51:BU:30:LYS:HG2	2.21	0.40
35:BA:1441:G:H2'	35:BA:1442:G:H8	1.84	0.40
57:DC:44:HIS:O	57:DC:210:ARG:HA	2.22	0.40
35:DA:408:G:O2'	35:DA:409:C:H5'	2.21	0.40
6:AF:100:ASN:CB	18:AR:28:GLU:HA	2.50	0.40
35:BA:1916:A:H5'	35:BA:1917:U:OP2	2.21	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2560:C:H2'	35:DA:2561:A:H5'	2.02	0.40
7:CG:130:GLY:C	7:CG:132:GLY:H	2.24	0.40
17:AQ:22:LEU:HD12	17:AQ:23:VAL:H	1.86	0.40
46:DP:138:LEU:O	46:DP:138:LEU:HD22	2.20	0.40
45:BO:10:VAL:HB	45:BO:12:ASP:OD2	2.21	0.40
35:DA:334:C:O2'	35:DA:335:C:P	2.78	0.40
35:BA:479:A:N6	35:BA:503:A:H61	2.20	0.40
35:BA:2497:A:OP2	35:BA:2497:A:C8	2.74	0.40
43:BI:1:MET:HB2	43:BI:21:VAL:O	2.21	0.40
35:BA:2583:G:H3'	35:BA:2584:U:O2	2.21	0.40
1:CA:189(K):U:H2'	1:CA:189(L):G:H8	1.86	0.40
35:DA:2603:G:H4'	35:DA:2603:G:OP2	2.21	0.40
35:DA:937:U:H2'	35:DA:938:G:O4'	2.21	0.40
35:DA:1511:C:H2'	35:DA:1512:U:C6	2.56	0.40
40:BF:136:THR:O	40:BF:137:LYS:C	2.60	0.40
1:CA:57:G:C6	1:CA:58:C:N3	2.89	0.40
15:AO:48:LYS:HA	15:AO:48:LYS:HD3	1.78	0.40
35:BA:1437:C:O2	35:BA:1437:C:H2'	2.21	0.40
1:AA:1336:C:O4'	1:AA:1337:G:N2	2.55	0.40
37:BC:146:GLY:O	37:BC:148:ASN:N	2.54	0.40
35:DA:1665:A:C2'	35:DA:1666:G:H5'	2.51	0.40
35:DA:2683:C:OP1	50:DT:55:ASN:ND2	2.54	0.40
45:DO:43:VAL:HG12	45:DO:43:VAL:O	2.20	0.40
45:DO:53:LYS:O	45:DO:54:GLU:C	2.59	0.40
1:AA:805:C:O2'	1:AA:806:C:H5'	2.22	0.40
35:BA:1778:U:H5	35:BA:1784:A:C2	2.38	0.40
35:BA:1778:U:H2'	35:BA:1784:A:N6	2.36	0.40
38:BD:159:ALA:HB1	38:BD:198:ASN:O	2.21	0.40
38:BD:19:ALA:O	38:BD:21:PHE:CD1	2.73	0.40
1:CA:922:G:H4'	5:CE:20:GLN:HA	2.03	0.40
35:DA:2313:C:C4'	41:DG:40:ASN:ND2	2.84	0.40
41:DG:37:VAL:HB	41:DG:94:LEU:CB	2.32	0.40
41:DG:43:LEU:N	41:DG:43:LEU:HD13	2.29	0.40
36:DB:42:C:N1	41:DG:69:ALA:HB2	2.36	0.40
35:BA:1678:G:C4	35:BA:1679:U:C5	3.10	0.40
35:BA:2684:U:OP2	50:BT:53:ARG:NH2	2.50	0.40
39:BE:10:GLY:HA3	50:BT:8:LYS:HZ2	1.86	0.40
45:BO:71:ARG:NE	45:BO:105:GLU:OE2	2.50	0.40
45:BO:2:ILE:O	45:BO:33:ALA:N	2.54	0.40
45:BO:37:ASP:HB2	45:BO:62:VAL:CG2	2.50	0.40
50:BT:118:ARG:O	50:BT:121:ILE:N	2.49	0.40
50:BT:45:PHE:HE2	50:BT:63:VAL:HG23	1.86	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:607:A:C4	1:AA:608:A:C8	3.09	0.40
35:BA:902:C:O2'	35:BA:903:C:H5'	2.21	0.40
35:BA:2808:U:C2'	35:BA:2809:A:C5'	2.96	0.40
1:AA:1190:G:OP2	3:AC:5:ILE:HG23	2.20	0.40
35:DA:1495:A:C2	35:DA:1496:A:C2	3.09	0.40
44:BN:39:ARG:HG3	44:BN:39:ARG:NH1	2.36	0.40
35:BA:534:U:H4'	51:BU:46:ALA:H	1.87	0.40
51:BU:57:PHE:O	51:BU:58:ARG:C	2.60	0.40
52:BV:18:LEU:HD13	52:BV:18:LEU:N	2.36	0.40
52:BV:33:VAL:HA	52:BV:62:LEU:O	2.22	0.40
42:DH:159:GLU:O	42:DH:160:LYS:CB	2.69	0.40
42:DH:85:LYS:HE3	42:DH:141:VAL:O	2.21	0.40
28:B2:50:ILE:HA	28:B2:54:LYS:HD3	2.03	0.40
54:BX:77:LYS:HE3	54:BX:77:LYS:CA	2.49	0.40
39:DE:47:VAL:HG12	39:DE:49:LEU:CD1	2.51	0.40
27:B1:51:VAL:N	27:B1:60:PHE:O	2.48	0.40
35:BA:379:G:N2	35:BA:396:G:C4	2.90	0.40
2:AB:11:LEU:HD11	2:AB:217:ARG:HH22	1.86	0.40
41:BG:106:LEU:C	41:BG:108:ASN:H	2.24	0.40
41:BG:91:ARG:CD	41:BG:92:VAL:N	2.85	0.40
35:BA:253:C:H2'	35:BA:254:G:H5'	2.03	0.40
42:BH:99:VAL:O	42:BH:100:GLY:C	2.59	0.40
55:BY:47:LYS:N	55:BY:47:LYS:HD2	2.37	0.40
35:DA:2476:A:H2'	35:DA:2477:C:C5'	2.30	0.40
47:DQ:134:ARG:C	47:DQ:136:ALA:N	2.74	0.40
35:DA:998:C:P	51:DU:93:LYS:CE	3.08	0.40
1:CA:1190:G:H5''	3:CC:3:ASN:HD21	1.86	0.40
1:CA:978:A:C4	1:CA:1319:A:C2	3.10	0.40
19:CS:16:LEU:H	19:CS:16:LEU:HD12	1.83	0.40
35:BA:1882:C:H5'	35:BA:1883:G:OP2	2.21	0.40
35:BA:2377:A:H2'	35:BA:2378:A:C8	2.55	0.40
49:BS:28:VAL:HG21	49:BS:97:ARG:NH2	2.37	0.40
49:BS:28:VAL:HA	49:BS:37:ALA:HA	2.04	0.40
49:BS:90:GLY:HA2	49:BS:92:TYR:CG	2.56	0.40
4:CD:126:ILE:CG2	4:CD:127:THR:N	2.81	0.40
43:DI:88:ILE:HG13	43:DI:123:LEU:N	2.37	0.40
47:BQ:35:VAL:CG2	47:BQ:100:GLY:O	2.69	0.40
40:BF:25:PRO:HB3	40:BF:119:ARG:CD	2.52	0.40
40:BF:43:LYS:HG3	40:BF:44:ARG:N	2.36	0.40
46:DP:71:VAL:HG22	46:DP:72:PRO:CG	2.50	0.40
25:AY:36:ALA:HA	25:AY:39:LEU:HD23	2.03	0.40
27:D1:78:LYS:O	27:D1:79:GLY:C	2.59	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1223:G:N2	35:BA:1227:G:C4	2.89	0.40
40:BF:74:ARG:H	40:BF:74:ARG:HD2	1.86	0.40
46:BP:27:HIS:C	46:BP:27:HIS:CD2	2.95	0.40
47:BQ:70:PRO:O	47:BQ:71:ASP:HB3	2.21	0.40
48:DR:116:LEU:CD2	48:DR:117:VAL:HG12	2.51	0.40
48:DR:20:LEU:O	48:DR:21:TYR:C	2.59	0.40
48:DR:87:TYR:O	48:DR:88:ARG:HB3	2.21	0.40
48:BR:55:ALA:HB2	48:BR:79:LEU:CD1	2.50	0.40
50:BT:100:TYR:C	50:BT:102:ILE:H	2.23	0.40
50:BT:100:TYR:O	50:BT:101:PHE:C	2.60	0.40
2:AB:164:VAL:O	2:AB:186:ALA:CB	2.69	0.40
2:AB:164:VAL:CG1	2:AB:165:VAL:N	2.85	0.40
18:CR:22:VAL:O	18:CR:22:VAL:HG12	2.21	0.40
2:CB:70:PHE:CD1	2:CB:163:PHE:HB3	2.56	0.40
35:DA:811:U:OP2	46:DP:24:GLY:HA2	2.20	0.40
52:DV:83:ARG:O	52:DV:84:LYS:HD2	2.21	0.40
33:D7:11:LYS:HG3	33:D7:12:ARG:N	2.35	0.40
1:AA:402:G:C5	1:AA:403:C:C5	3.09	0.40
1:AA:402:G:C6	1:AA:403:C:C5	3.10	0.40
4:AD:25:ARG:C	4:AD:27:TYR:N	2.73	0.40
46:DP:146:VAL:HG13	46:DP:147:LEU:N	2.37	0.40
35:DA:99:U:H1'	35:DA:102:G:C5	2.56	0.40
35:DA:109:G:C4	35:DA:110:G:C8	3.09	0.40
4:AD:58:LEU:CD1	4:AD:62:GLN:HG3	2.51	0.40
6:AF:80:ARG:HG3	6:AF:88:VAL:HB	2.01	0.40
18:AR:32:ARG:NH1	18:AR:65:ILE:HG21	2.36	0.40
1:CA:1406:U:C5	1:CA:1407:C:C5	3.09	0.40
53:DW:106:ILE:HG13	53:DW:106:ILE:O	2.19	0.40
35:DA:2035:G:H4'	35:DA:2036:C:OP2	2.22	0.40
35:DA:569:U:H2'	35:DA:570:G:O4'	2.21	0.40
16:AP:60:LEU:HG	16:AP:60:LEU:H	1.59	0.40
1:AA:1375:A:H4'	7:AG:29:LYS:NZ	2.37	0.40
43:BI:5:LEU:C	43:BI:6:LEU:HG	2.41	0.40
1:CA:1226:C:C5'	19:CS:80:TYR:HE2	2.33	0.40
1:AA:376:G:C2	1:AA:377:G:C5	3.09	0.40
16:AP:51:VAL:HG12	16:AP:52:ASP:N	2.35	0.40
25:AY:131:ASN:C	25:AY:133:ARG:N	2.73	0.40
25:AY:133:ARG:HG3	25:AY:165:THR:OG1	2.21	0.40
42:BH:26:VAL:C	42:BH:32:GLU:HG3	2.41	0.40
7:CG:74:GLU:CG	7:CG:75:VAL:N	2.84	0.40
35:BA:1429:G:H2'	35:BA:1430:C:H6	1.86	0.40
35:BA:1608:A:C5	35:BA:1611:C:C4	3.09	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1411:C:O2'	35:DA:1412:A:P	2.79	0.40
12:AL:39:VAL:HG12	12:AL:40:VAL:N	2.36	0.40
8:CH:129:VAL:CG2	8:CH:130:GLY:N	2.82	0.40
8:CH:83:ILE:CD1	8:CH:137:VAL:HG22	2.39	0.40
35:BA:103:A:H2'	35:BA:104:U:H6	1.86	0.40
1:CA:1074:G:O4'	2:CB:104:ASN:HB2	2.21	0.40
4:CD:145:GLU:C	4:CD:146:ILE:HD13	2.42	0.40
35:BA:926:A:C8	35:BA:926:A:H5'	2.54	0.40
1:AA:259:G:H2'	1:AA:260:G:O4'	2.21	0.40
5:AE:35:GLY:HA3	5:AE:112:LEU:HB3	2.03	0.40
9:CI:107:ARG:C	9:CI:108:VAL:HG22	2.41	0.40
8:AH:25:ASP:OD1	8:AH:25:ASP:N	2.54	0.40
18:AR:56:THR:C	18:AR:58:LEU:HD12	2.40	0.40
9:AI:27:THR:HG23	9:AI:31:GLN:O	2.20	0.40
9:AI:95:LYS:HZ3	9:AI:96:LEU:CB	2.30	0.40
29:B3:51:ALA:C	29:B3:53:LEU:H	2.24	0.40
29:B3:9:VAL:HG22	29:B3:53:LEU:O	2.21	0.40
1:CA:527:G:H2'	1:CA:528:C:C5'	2.51	0.40
1:CA:523:A:H61	12:CL:53:ARG:NH2	2.19	0.40
35:BA:1986:A:H2'	35:BA:1987:G:H5''	2.03	0.40
35:DA:2011:U:O2'	35:DA:2012:G:H5'	2.21	0.40
46:BP:123:LEU:O	46:BP:124:LYS:C	2.60	0.40
40:BF:153:SER:O	40:BF:190:GLU:HB2	2.20	0.40
28:D2:58:ALA:O	28:D2:60:LEU:N	2.54	0.40
35:DA:1114:G:C3'	35:DA:1115:G:C5'	2.99	0.40
2:AB:105:PHE:O	2:AB:107:THR:N	2.55	0.40
17:CQ:59:ILE:HA	17:CQ:59:ILE:HD13	1.85	0.40
1:CA:1501:C:OP1	1:CA:1508:G:H4'	2.21	0.40
3:CC:108:ASN:HB3	3:CC:111:LEU:HB2	2.03	0.40
57:DC:59:ARG:O	57:DC:62:VAL:HG22	2.21	0.40
5:CE:90:VAL:O	5:CE:91:LEU:HD12	2.21	0.40
25:CY:118:VAL:O	25:CY:119:ARG:C	2.59	0.40
35:DA:1948:G:O2'	35:DA:1949:G:H5'	2.21	0.40
19:AS:42:PRO:C	19:AS:44:MET:N	2.75	0.40
1:CA:1471:G:O2'	1:CA:1472:U:H5'	2.21	0.40
1:AA:666:G:C4	1:AA:741:G:N1	2.89	0.40
15:AO:30:ALA:HA	15:AO:85:LEU:HD11	2.03	0.40
1:CA:763:G:C6	1:CA:764:C:C4	3.09	0.40
41:DG:4:ASP:CB	41:DG:8:LYS:HD3	2.51	0.40
35:DA:1469:A:C2'	35:DA:1470:G:H5'	2.52	0.40
1:AA:137:C:H2'	1:AA:138:G:H8	1.86	0.40
45:BO:13:ASN:ND2	45:BO:97:ARG:N	2.69	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1034:G:C6	35:DA:1122:G:C4	3.09	0.40
35:BA:976:C:H42	35:BA:988:A:H2	1.69	0.40
23:CW:56:U:O2'	23:CW:57:C:C5	2.74	0.40
25:CY:75:ALA:O	25:CY:78:ALA:HB3	2.21	0.40
9:AI:49:PRO:HG3	9:AI:78:LYS:HG2	2.03	0.40
1:CA:145:G:C2	1:CA:178:C:N3	2.89	0.40
35:BA:2235:G:H2'	35:BA:2236:C:C6	2.56	0.40
35:DA:1889:A:H2'	35:DA:1890:A:O4'	2.21	0.40
35:DA:1109:C:N4	35:DA:1110:G:C2	2.90	0.40
1:AA:54:C:N4	1:AA:352:C:H2'	2.32	0.40
1:AA:885:G:H2'	1:AA:886:G:C8	2.55	0.40
11:CK:125:PHE:H	11:CK:125:PHE:HD1	1.68	0.40
35:BA:2886:G:H2'	35:BA:2887:U:C6	2.56	0.40
35:BA:271(J):C:C3'	35:BA:271(K):U:C5'	2.98	0.40
35:DA:2641:G:OP1	44:DN:75:TYR:CG	2.74	0.40
35:BA:817:C:O2'	35:BA:839:U:OP1	2.40	0.40
35:BA:1375:C:H2'	35:BA:1376:C:H6	1.86	0.40
35:BA:13:A:N6	35:BA:525:U:C5	2.89	0.40
35:DA:2454:G:H2'	35:DA:2455:G:H8	1.86	0.40
35:DA:1623:G:H2'	35:DA:1624:G:C8	2.53	0.40
35:BA:2548:G:C6	35:BA:2561:A:N1	2.89	0.40
34:D8:11:LYS:CG	34:D8:11:LYS:O	2.69	0.40
35:DA:1376:C:O2'	35:DA:1377:G:H5'	2.20	0.40
36:DB:87:G:C2'	36:DB:88:C:H5''	2.50	0.40
35:DA:2658:C:O2'	35:DA:2659:G:H5'	2.20	0.40
55:BY:55:TYR:O	55:BY:56:PRO:O	2.40	0.40
11:AK:15:ALA:HB1	11:AK:78:GLN:HG2	2.03	0.40
35:BA:1560:G:H2'	35:BA:1561:G:C8	2.56	0.40
39:BE:72:VAL:O	39:BE:73:GLU:C	2.59	0.40
1:AA:699:C:H2'	1:AA:700:G:H8	1.85	0.40
12:AL:78:GLN:O	12:AL:80:HIS:N	2.55	0.40
12:AL:19:ARG:HD2	12:AL:19:ARG:H	1.87	0.40
1:AA:1262:C:C2	1:AA:1263:C:C5	3.09	0.40
35:DA:1992:G:O2'	35:DA:1993:U:O5'	2.39	0.40
45:DO:9:GLU:O	45:DO:83:ALA:HB1	2.21	0.40
50:DT:109:GLU:C	50:DT:112:ARG:HG3	2.41	0.40
50:DT:32:TYR:HD2	50:DT:81:PRO:HB2	1.86	0.40
35:BA:1814:G:H3'	35:BA:1815:A:C8	2.55	0.40
35:BA:1819:A:H5''	38:BD:158:ALA:HB3	2.03	0.40
38:BD:178:PRO:C	38:BD:180:GLY:N	2.74	0.40
38:BD:20:ASP:OD1	38:BD:21:PHE:N	2.55	0.40
38:BD:211:ARG:O	38:BD:213:ARG:N	2.54	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:BD:92:ILE:O	38:BD:92:ILE:HD12	2.22	0.40
1:CA:1396:A:H2	5:CE:19:MET:HB2	1.87	0.40
41:DG:160:VAL:O	41:DG:161:THR:OG1	2.34	0.40
38:BD:14:ARG:NH1	38:BD:14:ARG:CG	2.82	0.40
35:BA:2415:G:H4'	46:BP:67:MET:N	2.35	0.40
45:BO:86:ILE:H	45:BO:86:ILE:HD12	1.79	0.40
50:BT:29:ARG:HG2	50:BT:86:ILE:N	2.36	0.40
56:BZ:128:VAL:CG2	56:BZ:132:ASN:HB2	2.49	0.40
56:BZ:157:LEU:HD22	56:BZ:161:VAL:HB	2.03	0.40
39:BE:52:LEU:O	39:BE:53:PRO:O	2.40	0.40
39:BE:50:GLY:HA3	39:BE:74:PRO:HG3	2.02	0.40
35:DA:1496:A:H1'	35:DA:1578:U:H1'	2.03	0.40
51:BU:91:ASP:OD2	51:BU:96:ALA:CB	2.70	0.40
52:BV:15:GLU:CB	52:BV:16:PRO:HD2	2.41	0.40
42:DH:162:ILE:HD12	42:DH:163:TYR:N	2.35	0.40
42:DH:87:LEU:HA	42:DH:164:TYR:O	2.22	0.40
3:AC:24:ALA:HB3	3:AC:29:TYR:CD1	2.36	0.40
14:AN:29:ARG:HD2	14:AN:29:ARG:HA	1.93	0.40
35:BA:94(A):G:H2'	35:BA:95:G:O4'	2.21	0.40
39:DE:52:LEU:HD23	39:DE:75:VAL:HG22	1.95	0.40
41:BG:142:PRO:O	41:BG:144:ILE:N	2.54	0.40
36:BB:45:A:C1'	41:BG:95:ARG:NH2	2.83	0.40
55:DY:87:LYS:O	55:DY:88:LYS:HB2	2.21	0.40
55:DY:87:LYS:HG2	55:DY:88:LYS:N	2.35	0.40
28:D2:48:HIS:CD2	35:DA:75:G:O2'	2.74	0.40
35:DA:58:G:H1	35:DA:69:C:N4	2.19	0.40
54:DX:77:LYS:HD3	54:DX:78:LYS:H	1.86	0.40
56:DZ:69:THR:O	56:DZ:70:LEU:HG	2.22	0.40
56:DZ:71:VAL:HG12	56:DZ:86:VAL:CG1	2.52	0.40
35:DA:997:G:OP1	51:DU:93:LYS:HE3	2.22	0.40
1:CA:1189:C:C5'	3:CC:5:ILE:HG21	2.25	0.40
19:CS:5:LEU:H	19:CS:6:LYS:NZ	2.19	0.40
35:BA:1142(A):A:C5	35:BA:1144:G:N7	2.89	0.40
44:BN:62:VAL:HG22	44:BN:66:LYS:CB	2.51	0.40
44:BN:85:ILE:HA	44:BN:85:ILE:HD13	1.90	0.40
44:BN:91:LEU:O	44:BN:95:PRO:HD3	2.22	0.40
14:CN:3:ARG:CB	14:CN:3:ARG:HH11	2.35	0.40
40:BF:119:ARG:NH1	40:BF:119:ARG:HG2	2.36	0.40
40:BF:32:LEU:C	40:BF:32:LEU:CD2	2.84	0.40
3:AC:9:GLY:HA2	14:AN:49:HIS:O	2.21	0.40
35:BA:2578:G:N2	35:BA:2579:C:C2	2.90	0.40
35:DA:1019:U:O2'	35:DA:1021:A:C2	2.72	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:DN:66:LYS:HE3	44:DN:66:LYS:CA	2.51	0.40
35:BA:809:G:C4'	35:BA:1254:A:H1'	2.51	0.40
35:BA:2071:A:H2'	35:BA:2072:G:H8	1.87	0.40
46:BP:35:HIS:HD2	46:BP:35:HIS:O	2.04	0.40
51:BU:8:VAL:O	51:BU:10:ARG:N	2.55	0.40
47:BQ:74:TYR:O	47:BQ:89:ASN:N	2.48	0.40
1:AA:1438:G:C6	1:AA:1464:G:N1	2.90	0.40
1:AA:321:A:O2'	1:AA:322:C:H5'	2.20	0.40
20:AT:75:ASN:O	20:AT:76:ALA:C	2.58	0.40
20:AT:73:HIS:O	20:AT:76:ALA:CB	2.69	0.40
20:AT:37:SER:HA	20:AT:84:LEU:HD21	2.03	0.40
48:BR:18:LEU:CD1	48:BR:19:ALA:N	2.78	0.40
49:DS:94:TYR:O	49:DS:95:HIS:ND1	2.49	0.40
2:AB:187:LEU:HD23	2:AB:202:PRO:O	2.21	0.40
27:D1:23:LYS:HZ2	27:D1:37:ILE:HD11	1.86	0.40
44:DN:17:ASP:CG	44:DN:56:ASN:HB3	2.42	0.40
6:CF:62:TRP:HB2	18:CR:35:ARG:NH1	2.31	0.40
15:CO:56:LEU:O	15:CO:59:MET:N	2.54	0.40
2:CB:45:GLN:O	2:CB:48:MET:N	2.43	0.40
35:DA:1254:A:H5'	35:DA:1255:U:C5'	2.51	0.40
52:DV:71:LEU:CD1	52:DV:72:VAL:H	2.19	0.40
4:AD:100:ARG:NH1	4:AD:100:ARG:HG2	2.36	0.40
4:AD:104:VAL:HG21	4:AD:140:VAL:CG2	2.50	0.40
19:AS:36:ARG:HB2	19:AS:72:GLY:HA2	2.03	0.40
55:DY:15:VAL:HG12	55:DY:16:ALA:N	2.30	0.40
4:AD:15:GLU:C	4:AD:17:VAL:N	2.75	0.40
4:AD:8:VAL:HG12	4:AD:9:CYS:N	2.36	0.40
43:DI:100:ALA:O	43:DI:104:GLN:CD	2.59	0.40
18:AR:29:PHE:O	18:AR:29:PHE:CD2	2.75	0.40
1:CA:779:C:HO2'	1:CA:780:A:H5'	1.84	0.40
25:CY:121:TYR:O	25:CY:122:ALA:C	2.59	0.40
25:CY:6:LEU:O	25:CY:9:GLU:HB2	2.20	0.40
42:DH:26:VAL:C	42:DH:32:GLU:HG3	2.40	0.40
1:CA:191:G:O2'	1:CA:192:U:H5'	2.21	0.40
20:CT:63:ILE:O	20:CT:64:ASP:C	2.59	0.40
25:AY:62:ASP:HB2	25:AY:63:PRO:CD	2.52	0.40
37:BC:36:LYS:HD3	37:BC:36:LYS:HA	1.94	0.40
35:BA:2618:G:O2'	35:BA:2619:C:H5'	2.21	0.40
25:AY:147:LEU:HD22	25:AY:149:LEU:HD21	2.04	0.40
25:AY:140:LEU:CD1	25:AY:157:ALA:HB1	2.44	0.40
11:AK:66:LEU:C	11:AK:68:ALA:N	2.74	0.40
11:AK:71:LYS:O	11:AK:73:MET:N	2.54	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
11:AK:72:ALA:HB1	11:AK:77:MET:CE	2.52	0.40
35:BA:2262:U:C3'	35:BA:2263:C:H5''	2.51	0.40
35:BA:829:A:N7	35:BA:2247:A:O2'	2.51	0.40
1:AA:191:G:O2'	1:AA:192:U:H5'	2.21	0.40
20:AT:57:ARG:O	20:AT:60:GLU:HB3	2.21	0.40
1:CA:1105:A:C2	1:CA:1106:G:N7	2.89	0.40
12:AL:47:LYS:HD3	12:AL:48:PRO:HD3	2.02	0.40
46:DP:88:LEU:C	46:DP:90:ARG:N	2.73	0.40
12:AL:76:ASN:C	12:AL:77:LEU:HD23	2.42	0.40
56:DZ:109:ALA:C	56:DZ:110:GLY:O	2.54	0.40
35:BA:1039:G:N1	35:BA:1117:G:C2	2.89	0.40
46:DP:105:LEU:O	46:DP:107:LYS:HD2	2.20	0.40
46:DP:96:THR:HG22	46:DP:126:VAL:H	1.86	0.40
38:BD:185:VAL:HG12	38:BD:189:CYS:SG	2.61	0.40
38:BD:73:VAL:HG13	38:BD:119:ALA:O	2.22	0.40
53:DW:13:SER:HA	53:DW:14:PRO:HD3	1.77	0.40
53:DW:14:PRO:O	53:DW:16:LYS:N	2.55	0.40
16:CP:40:ASP:H	16:CP:48:TRP:HB2	1.87	0.40
1:CA:376:G:H5''	16:CP:5:ARG:CG	2.51	0.40
7:CG:65:ALA:HA	7:CG:128:ALA:HA	2.03	0.40
35:BA:1937:A:O2'	35:BA:1938:A:C5'	2.65	0.40
35:BA:2590:A:O2'	35:BA:2591:C:C5'	2.65	0.40
35:BA:2011:U:O2'	35:BA:2012:G:H5'	2.21	0.40
35:BA:1268:A:C2	35:BA:2013:A:C4	3.10	0.40
35:DA:708:C:O2	35:DA:708:C:H2'	2.20	0.40
35:DA:768:G:H2'	35:DA:769:G:C8	2.53	0.40
35:DA:2219:G:H2'	35:DA:2220:G:H5'	2.02	0.40
7:AG:63:LYS:HA	7:AG:63:LYS:HD2	1.87	0.40
35:BA:709:U:C2	35:BA:723:G:N2	2.89	0.40
7:AG:65:ALA:HA	7:AG:128:ALA:HA	2.04	0.40
35:DA:374:A:H2'	35:DA:375:C:C5'	2.51	0.40
35:BA:374:A:C2	35:BA:375:C:H1'	2.56	0.40
35:DA:747:U:O2	35:DA:2014:A:H1'	2.20	0.40
5:AE:76:ILE:HG23	5:AE:77:PRO:CD	2.52	0.40
5:AE:89:ILE:CD1	5:AE:91:LEU:HD11	2.51	0.40
19:AS:50:ALA:HA	19:AS:58:VAL:O	2.22	0.40
1:CA:665:A:H2'	1:CA:732:C:O2	2.22	0.40
1:CA:1418:A:N3	35:DA:1959:G:H1'	2.36	0.40
35:BA:462:C:O2'	35:BA:463:G:H5'	2.22	0.40
13:AM:28:ALA:O	13:AM:32:GLU:HB2	2.20	0.40
48:BR:4:LEU:C	48:BR:6:SER:N	2.74	0.40
53:BW:20:VAL:HG23	53:BW:21:VAL:H	1.85	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:B1:50:ARG:NH2	35:BA:1363:C:OP1	2.54	0.40
35:DA:215:G:O4'	35:DA:216:A:H4'	2.22	0.40
4:CD:4:TYR:CE2	4:CD:7:PRO:O	2.74	0.40
1:AA:148:G:H1	1:AA:174:C:N4	2.15	0.40
36:DB:10:C:C4	36:DB:11:C:C5	3.09	0.40
1:CA:244:U:C6	1:CA:894:G:N2	2.89	0.40
53:DW:50:VAL:HG13	53:DW:51:LEU:N	2.37	0.40
41:BG:100:TRP:O	41:BG:103:LEU:HB2	2.21	0.40
10:CJ:32:ALA:O	10:CJ:33:GLN:O	2.39	0.40
7:CG:15:ASP:O	7:CG:19:GLY:HA2	2.21	0.40
1:CA:1291:G:H4'	9:CI:38:GLN:O	2.21	0.40
53:DW:27:LYS:O	53:DW:71:VAL:HG23	2.22	0.40
35:DA:1108:U:H2'	35:DA:1109:C:C5'	2.48	0.40
35:BA:893:C:C5	35:BA:894:C:C2	3.08	0.40
35:BA:1681:G:OP2	35:BA:1681:G:C8	2.68	0.40
3:AC:23:TYR:HA	10:AJ:11:PHE:HE1	1.81	0.40
1:AA:176:C:C2	1:AA:177:C:C5	3.09	0.40
35:DA:2669:G:N3	35:DA:2670:A:C8	2.89	0.40
37:BC:196:LEU:C	37:BC:198:ALA:N	2.74	0.40
1:CA:129(A):G:H22	1:CA:189(E):U:H1'	1.86	0.40
20:AT:8:ARG:CD	20:AT:8:ARG:N	2.84	0.40
1:CA:992:U:H3	1:CA:1044:A:N6	2.20	0.40
25:AY:104:PRO:HA	25:AY:105:PRO:HD2	1.93	0.40
35:DA:1480:G:N3	35:DA:1480:G:H2'	2.36	0.40
2:AB:15:VAL:HG23	2:AB:209:ARG:NE	2.37	0.40
1:CA:889:A:H5'	1:CA:891:U:C1'	2.52	0.40
1:CA:1111:A:C2	3:CC:177:THR:HG23	2.56	0.40
1:AA:889:A:H5'	1:AA:891:U:C1'	2.51	0.40
36:DB:111:G:C6	36:DB:112:U:C4	3.10	0.40
30:B4:11:PRO:C	30:B4:13:ARG:N	2.75	0.40
5:AE:30:ALA:O	5:AE:46:GLY:N	2.37	0.40
32:D6:35:GLU:HG3	32:D6:35:GLU:O	2.21	0.40
35:DA:357:A:O5'	35:DA:357:A:H8	2.05	0.40
1:AA:1225:A:N3	1:AA:1225:A:H2'	2.36	0.40
35:DA:54:G:C6	35:DA:55:G:C5	3.10	0.40
1:CA:250:A:H1'	1:CA:252:U:C4	2.56	0.40
35:DA:2727:G:H2'	35:DA:2728:U:H6	1.86	0.40
50:DT:33:LYS:HB2	50:DT:41:ARG:HB3	2.03	0.40
50:DT:64:ARG:CB	50:DT:73:GLU:HB3	2.47	0.40
10:CJ:50:ILE:HD11	14:CN:41:ARG:HH11	1.86	0.40
35:BA:1970:A:H1'	35:BA:1972:A:C8	2.56	0.40
38:BD:25:THR:HG21	38:BD:81:ALA:CB	2.28	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:DD:24:ILE:O	38:DD:24:ILE:CD1	2.70	0.40
41:DG:119:GLY:HA2	41:DG:179:PRO:HG2	2.02	0.40
36:DB:44:G:O3'	41:DG:95:ARG:HD2	2.21	0.40
10:CJ:5:ARG:HG3	10:CJ:73:ASP:CG	2.42	0.40
35:BA:1992:G:O2'	35:BA:1993:U:O5'	2.35	0.40
35:BA:2729:G:C5	35:BA:2730:C:C4	3.09	0.40
56:BZ:125:LEU:C	56:BZ:126:VAL:CG2	2.89	0.40
56:BZ:57:ILE:O	56:BZ:69:THR:O	2.39	0.40
39:BE:35:GLN:HE21	39:BE:37:ARG:NE	2.20	0.40
42:DH:98:LEU:HD22	42:DH:125:VAL:HB	2.03	0.40
42:DH:88:LEU:N	42:DH:88:LEU:HD22	2.37	0.40
34:D8:6:THR:HG22	34:D8:62:LEU:HB2	2.03	0.40
28:B2:29:LYS:HA	28:B2:32:LEU:CG	2.51	0.40
54:BX:23:GLU:HG3	54:BX:24:GLY:N	2.36	0.40
39:DE:28:ALA:O	39:DE:180:ASN:OD1	2.40	0.40
35:BA:2220:G:H2'	35:BA:2221:G:C8	2.40	0.40
41:BG:138:GLN:OE1	41:BG:153:ARG:N	2.55	0.40
41:BG:47:LYS:N	41:BG:51:ARG:HG3	2.36	0.40
55:DY:80:GLY:O	55:DY:81:LYS:HB3	2.21	0.40
55:DY:87:LYS:C	55:DY:89:PHE:H	2.23	0.40
54:DX:29:TRP:CE3	54:DX:76:ARG:HB3	2.57	0.40
42:BH:89:ILE:HG12	42:BH:90:LYS:H	1.87	0.40
47:DQ:47:ILE:HG23	47:DQ:104:PHE:HZ	1.87	0.40
56:DZ:150:LEU:HB2	56:DZ:154:ASP:OD1	2.22	0.40
56:DZ:149:SER:CB	56:DZ:172:ALA:O	2.70	0.40
51:DU:101:ARG:O	51:DU:102:GLU:C	2.59	0.40
51:DU:111:GLU:O	51:DU:115:ALA:N	2.43	0.40
51:DU:111:GLU:O	51:DU:112:ARG:C	2.60	0.40
51:DU:57:PHE:C	51:DU:59:ARG:N	2.73	0.40
52:DV:19:LYS:HZ2	52:DV:21:ARG:H	1.70	0.40
47:DQ:54:MET:HG3	47:DQ:64:ILE:CD1	2.51	0.40
36:BB:9:G:C2	36:BB:113:G:C5	3.10	0.40
49:BS:46:VAL:CG1	49:BS:47:THR:N	2.85	0.40
1:CA:429:U:H4'	1:CA:430:A:OP1	2.18	0.40
3:CC:134:ILE:HD11	3:CC:153:VAL:CG2	2.48	0.40
40:BF:114:VAL:CG2	40:BF:115:ALA:N	2.71	0.40
40:BF:41:LEU:HA	40:BF:44:ARG:CD	2.50	0.40
3:AC:9:GLY:CA	14:AN:49:HIS:O	2.69	0.40
27:D1:88:LYS:O	27:D1:91:LYS:N	2.54	0.40
34:D8:25:MET:HB3	34:D8:26:LYS:H	1.51	0.40
34:D8:25:MET:CG	46:DP:64:LYS:HB2	2.52	0.40
35:DA:1022:G:N2	35:DA:1142(A):A:C2	2.89	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:DN:85:ILE:CG2	44:DN:90:MET:HG2	2.51	0.40
44:DN:95:PRO:O	44:DN:96:GLU:C	2.59	0.40
35:BA:2029:G:C4	35:BA:2031:A:OP2	2.73	0.40
35:BA:26:G:N1	35:BA:27:G:N2	2.69	0.40
52:BV:88:ARG:HH11	52:BV:88:ARG:HG3	1.84	0.40
47:BQ:12:GLN:HE21	47:BQ:73:PRO:CD	2.33	0.40
48:DR:115:GLU:O	48:DR:116:LEU:C	2.60	0.40
48:DR:29:LEU:HA	48:DR:29:LEU:HD12	1.79	0.40
48:BR:31:HIS:HB2	48:BR:34:ILE:CD1	2.51	0.40
48:BR:62:ALA:O	48:BR:63:ARG:C	2.60	0.40
36:DB:115:G:O4'	49:DS:47:THR:CB	2.69	0.40
49:DS:31:SER:HB3	49:DS:34:HIS:O	2.22	0.40
49:DS:46:VAL:CG1	49:DS:47:THR:N	2.84	0.40
28:B2:30:ARG:O	28:B2:34:GLU:HG2	2.22	0.40
2:AB:16:HIS:CA	2:AB:210:SER:HB2	2.50	0.40
27:D1:37:ILE:HD12	35:DA:2080:G:C5'	2.50	0.40
35:DA:205:G:O2'	35:DA:206:U:OP2	2.34	0.40
2:CB:187:LEU:CD2	2:CB:187:LEU:C	2.85	0.40
2:CB:36:ARG:NE	2:CB:36:ARG:HA	2.36	0.40
35:DA:666:G:C5	35:DA:667:U:C5	3.10	0.40
40:DF:67:GLN:O	40:DF:68:LYS:CG	2.67	0.40
40:DF:65:TRP:CZ3	40:DF:75:HIS:CD2	3.09	0.40
1:AA:539:A:H2'	1:AA:540:G:C8	2.54	0.40
4:AD:63:LYS:N	4:AD:66:ARG:NH1	2.69	0.40
43:DI:133:HIS:CG	43:DI:134:PRO:HD2	2.55	0.40
35:DA:869:G:HO2'	47:DQ:8:LYS:HD3	1.87	0.40
44:DN:77:GLY:O	44:DN:78:TYR:CD2	2.75	0.40
2:AB:145:LEU:CD2	2:AB:149:LEU:HD12	2.50	0.40
27:B1:34:THR:O	27:B1:35:THR:CG2	2.69	0.40
7:AG:107:ALA:HB1	7:AG:134:ALA:HB2	2.03	0.40
1:AA:1240:U:N3	7:AG:30:ILE:HG22	2.25	0.40
51:DU:8:VAL:HB	51:DU:9:VAL:H	1.63	0.40
25:CY:120:GLN:HB3	25:CY:121:TYR:H	1.56	0.40
25:CY:137:LEU:O	25:CY:140:LEU:HB3	2.22	0.40
25:CY:30:THR:C	25:CY:32:ARG:N	2.72	0.40
1:CA:1226:C:H5'	19:CS:80:TYR:HE2	1.86	0.40
1:AA:1009:G:C2'	1:AA:1010:G:H5'	2.52	0.40
1:AA:991:U:OP2	1:AA:991:U:H6	2.04	0.40
1:CA:1240:U:OP1	7:CG:116:ALA:HB2	2.21	0.40
35:BA:1411:C:O2'	35:BA:1412:A:P	2.79	0.40
25:AY:153:GLU:OE2	26:B0:8:ALA:HA	2.22	0.40
33:B7:18:PHE:O	33:B7:20:ALA:N	2.55	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1354:A:C2'	35:BA:1355:G:H5'	2.52	0.40
40:DF:132:VAL:CG2	40:DF:133:ASN:N	2.73	0.40
42:DH:65:HIS:C	42:DH:67:LEU:H	2.24	0.40
26:B0:17:GLN:HG2	35:BA:2261:C:OP1	2.21	0.40
55:BY:20:TYR:CZ	55:BY:42:VAL:HA	2.57	0.40
2:CB:107:THR:HG23	2:CB:110:GLN:CD	2.41	0.40
1:AA:952:U:H2'	1:AA:953:G:C8	2.57	0.40
1:AA:1226:C:OP2	13:AM:103:THR:HG21	2.21	0.40
13:AM:83:ASP:CG	13:AM:84:ILE:H	2.23	0.40
1:AA:1506:U:O2'	1:AA:1507:A:H5'	2.22	0.40
25:CY:68:VAL:HG21	25:CY:99:LEU:HD12	2.03	0.40
8:AH:35:ILE:O	8:AH:36:LEU:C	2.60	0.40
35:DA:2472:G:H2'	35:DA:2529:G:N2	2.37	0.40
9:AI:3:GLN:O	9:AI:88:TYR:CE1	2.75	0.40
1:CA:586:C:C2'	1:CA:587:G:H5'	2.51	0.40
12:AL:55:VAL:C	12:AL:70:ILE:HD11	2.41	0.40
9:AI:113:LYS:HB2	9:AI:116:LYS:CG	2.47	0.40
35:DA:1309:G:H2'	35:DA:1310:G:C5'	2.51	0.40
38:DD:49:ILE:HG12	38:DD:49:ILE:H	1.67	0.40
46:BP:123:LEU:N	46:BP:123:LEU:CD2	2.84	0.40
46:DP:75:ILE:H	46:DP:75:ILE:CD1	2.04	0.40
40:BF:158:THR:HG21	40:BF:163:VAL:CG1	2.52	0.40
11:CK:109:VAL:HG22	18:CR:85:LEU:O	2.22	0.40
35:BA:1615:C:C5	35:BA:1617:C:C5	3.09	0.40
11:CK:99:GLN:C	11:CK:101:SER:N	2.73	0.40
38:DD:76:PRO:O	38:DD:98:VAL:HG23	2.21	0.40
35:DA:2206:G:N3	35:DA:2206:G:H5''	2.37	0.40
55:BY:8:LYS:H	55:BY:8:LYS:CD	2.10	0.40
35:DA:49:A:N6	35:DA:177:G:C5	2.89	0.40
40:DF:150:GLY:HA2	40:DF:172:TRP:CD2	2.56	0.40
5:AE:136:MET:C	5:AE:138:ALA:N	2.73	0.40
38:BD:145:VAL:O	38:BD:153:ALA:HB1	2.20	0.40
35:BA:2627:G:N2	35:BA:2781:A:H2	2.18	0.40
29:B3:41:PRO:N	29:B3:44:ARG:HD2	2.37	0.40
1:AA:597:G:C6	1:AA:644:G:C6	3.09	0.40
35:BA:856:C:H4'	35:BA:857:C:OP1	2.21	0.40
35:BA:738:G:C2	35:BA:759:G:C5	3.10	0.40
29:D3:15:TYR:O	29:D3:20:LYS:HE2	2.22	0.40
29:D3:14:GLY:H	29:D3:20:LYS:NZ	2.19	0.40
35:DA:974:G:C2	35:DA:989:G:N3	2.89	0.40
1:AA:1305:G:N2	1:AA:1331:G:O2'	2.40	0.40
15:AO:28:GLN:O	15:AO:29:VAL:C	2.60	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:538:G:P	12:CL:115:LYS:HB2	2.61	0.40
25:CY:52:LEU:CD2	25:CY:53:ASN:N	2.85	0.40
1:AA:180:U:H2'	1:AA:181:G:C5'	2.51	0.40
52:DV:46:VAL:HG12	52:DV:47:VAL:N	2.36	0.40
1:CA:302:G:C4	1:CA:303:A:C8	3.08	0.40
35:DA:2352:A:H2'	35:DA:2353:G:H5'	2.03	0.40
35:BA:2408:U:O2'	35:BA:2409:G:H5'	2.22	0.40
19:CS:45:VAL:C	19:CS:47:HIS:N	2.75	0.40
53:BW:26:GLY:CA	53:BW:71:VAL:HB	2.51	0.40
11:AK:123:LYS:HE2	11:AK:123:LYS:HB3	1.83	0.40
7:CG:24:THR:HA	7:CG:27:ILE:HD13	2.03	0.40
1:CA:1352:C:H2'	1:CA:1353:G:C8	2.56	0.40
35:BA:1742:G:N7	35:BA:1743:C:C2	2.88	0.40
1:CA:1153:C:C2'	1:CA:1154:G:O5'	2.69	0.40
35:DA:265:A:H1'	35:DA:266:G:H1'	2.03	0.40
19:AS:22:LEU:C	19:AS:24:ALA:N	2.74	0.40
1:CA:54:C:N4	1:CA:352:C:H2'	2.33	0.40
1:AA:783:C:C4	1:AA:784:C:H5	2.39	0.40
35:DA:1763:G:C4'	35:DA:1763:G:OP1	2.69	0.40
7:CG:11:GLN:CG	7:CG:12:LEU:H	2.34	0.40
35:BA:2410:G:H2'	35:BA:2411:A:C8	2.57	0.40
7:CG:42:ILE:HA	7:CG:45:ASP:CB	2.49	0.40
1:AA:96:U:O2'	1:AA:97:G:P	2.80	0.40
38:BD:138:VAL:CG2	38:BD:166:GLN:O	2.69	0.40
29:B3:35:ARG:NH1	29:B3:35:ARG:HG3	2.34	0.40
45:BO:55:GLY:O	45:BO:56:ASP:OD2	2.39	0.40
44:DN:82:LEU:HD12	44:DN:83:LYS:H	1.85	0.40
35:DA:271(E):U:C2	35:DA:271(F):C:C5	3.09	0.40
35:DA:1764:G:H1	35:DA:1988:C:H42	1.69	0.40
35:DA:42:G:C2	35:DA:437:G:C2	3.10	0.40
35:BA:1622:G:C2	35:BA:1623:G:C8	3.09	0.40
1:CA:524:G:O5'	1:CA:524:G:H8	2.05	0.40
3:AC:206:GLU:O	3:AC:207:VAL:C	2.59	0.40
35:BA:2687:U:C4	35:BA:2688:U:C5	3.10	0.40
26:B0:56:ASP:OD2	26:B0:58:THR:OG1	2.37	0.40
5:AE:101:ILE:HD11	5:AE:119:LEU:HD23	2.03	0.40
37:BC:49:ILE:HB	37:BC:50:ASP:H	1.49	0.40
35:DA:2063:C:O2	35:DA:2450:A:N1	2.54	0.40
35:BA:325:G:H2'	35:BA:326:G:C8	2.55	0.40
35:DA:457:A:C8	35:DA:459:U:N3	2.89	0.40
53:DW:76:VAL:CG2	53:DW:103:ILE:HG22	2.51	0.40
26:D0:56:ASP:C	26:D0:58:THR:N	2.75	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:D3:23:LEU:N	29:D3:23:LEU:HD12	2.37	0.40
1:AA:1476:G:C6	1:AA:1477:C:N4	2.90	0.40
8:CH:95:VAL:HG23	8:CH:95:VAL:O	2.21	0.40
35:BA:1545:A:N7	35:BA:1546:C:C2	2.90	0.40
7:CG:155:ARG:HB2	7:CG:155:ARG:CZ	2.51	0.40
35:BA:283:A:O2'	35:BA:284:U:OP1	2.26	0.40
35:BA:1392:A:C5	35:BA:1393:A:C6	3.10	0.40
45:BO:8:LEU:N	45:BO:8:LEU:HD22	2.36	0.40
36:DB:106:G:C2	36:DB:107:G:C8	3.09	0.40
1:AA:420:U:C5	1:AA:422:C:N3	2.90	0.40
35:DA:1997:G:C2	35:DA:1998:G:N7	2.89	0.40
35:DA:2697:G:H2'	35:DA:2698:U:O4'	2.22	0.40
35:DA:2714:G:C6	35:DA:2715:C:C4	3.09	0.40
35:DA:2851:A:H2'	35:DA:2852:G:H8	1.87	0.40
43:BI:77:LEU:HD12	43:BI:140:LEU:HD22	2.02	0.40
3:CC:29:TYR:HE2	14:CN:37:PHE:CE1	2.39	0.40
53:DW:29:LEU:HD21	53:DW:33:ARG:NH2	2.36	0.40
35:BA:1813:G:H2'	35:BA:1814:G:O4'	2.22	0.40
35:BA:1822:G:O2'	35:BA:1823:G:H5'	2.22	0.40
35:DA:1802:A:C6	35:DA:1817:G:N2	2.88	0.40
38:DD:177:LEU:HB3	38:DD:178:PRO:CD	2.51	0.40
35:BA:1663:C:HO2'	35:BA:1664:A:C5'	2.35	0.40
50:BT:51:ARG:HG3	50:BT:51:ARG:NH1	2.35	0.40
50:BT:29:ARG:CG	50:BT:85:LYS:HA	2.51	0.40
35:BA:872:A:H4'	47:BQ:66:ILE:HD11	2.03	0.40
47:BQ:141:GLN:CD	56:BZ:70:LEU:HB3	2.42	0.40
47:BQ:28:ALA:HB3	47:BQ:105:GLU:OE1	2.22	0.40
56:BZ:85:HIS:CG	56:BZ:86:VAL:N	2.89	0.40
39:BE:3:GLY:O	39:BE:4:ILE:CG2	2.69	0.40
35:BA:1011:G:C6	35:BA:1151:G:C6	3.09	0.40
51:BU:55:ARG:HA	51:BU:58:ARG:HG3	2.04	0.40
52:BV:25:LEU:N	52:BV:94:LEU:HD11	2.35	0.40
42:DH:83:TYR:CD1	42:DH:84:SER:N	2.90	0.40
10:AJ:51:ARG:HG2	14:AN:45:ARG:NH1	2.36	0.40
35:DA:2810:A:O2'	39:DE:61:ARG:CZ	2.69	0.40
2:AB:239:VAL:O	2:AB:240:GLN:HB3	2.20	0.40
28:D2:51:ARG:NH1	35:DA:72:U:H5''	2.37	0.40
35:DA:2419:U:O2'	35:DA:2420:C:H5'	2.22	0.40
56:DZ:38:TYR:CD1	56:DZ:38:TYR:O	2.75	0.40
47:DQ:140:ALA:CB	56:DZ:99:TYR:H	2.33	0.40
52:DV:61:VAL:CG1	52:DV:62:LEU:H	2.30	0.40
35:DA:2470:G:OP1	47:DQ:56:ARG:NH2	2.55	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
47:DQ:58:PHE:HD1	47:DQ:58:PHE:O	2.05	0.40
35:BA:1863:G:H2'	35:BA:1864:U:O4'	2.21	0.40
4:CD:150:GLU:HA	4:CD:153:ARG:HD3	2.02	0.40
40:BF:183:VAL:HA	40:BF:186:ILE:HD12	2.04	0.40
3:CC:9:GLY:CA	14:CN:49:HIS:O	2.70	0.40
27:B1:23:LYS:HD2	27:B1:23:LYS:HA	1.80	0.40
35:BA:2080:G:H2'	35:BA:2081:C:C6	2.56	0.40
40:BF:84:VAL:HB	40:BF:85:GLY:H	1.49	0.40
46:BP:50:ARG:CZ	46:BP:51:PHE:CE2	3.05	0.40
40:DF:20:LEU:HB2	40:DF:24:LEU:HD21	2.04	0.40
40:DF:41:LEU:HA	40:DF:44:ARG:CG	2.51	0.40
55:BY:80:GLY:O	55:BY:81:LYS:HB3	2.22	0.40
47:BQ:85:LYS:CG	47:BQ:86:GLY:N	2.76	0.40
48:DR:13:HIS:O	48:DR:14:SER:C	2.60	0.40
1:AA:101:A:O2'	1:AA:102:G:H5'	2.22	0.40
1:AA:105:G:C6	1:AA:106:C:N4	2.90	0.40
1:AA:1433:A:C8	1:AA:1468:A:N6	2.90	0.40
35:BA:1455:G:O2'	35:BA:1456:G:H5'	2.21	0.40
35:BA:1653:G:H4'	35:BA:1654:A:O5'	2.21	0.40
35:BA:2691:C:C4	35:BA:2719:G:N2	2.90	0.40
48:BR:116:LEU:HD22	48:BR:117:VAL:HG12	2.04	0.40
50:BT:100:TYR:H	50:BT:100:TYR:HD1	1.66	0.40
35:DA:385:C:O2'	35:DA:388:G:N2	2.54	0.40
35:DA:9:U:O2'	35:DA:10:G:O5'	2.34	0.40
56:BZ:148:ASP:OD1	56:BZ:149:SER:N	2.40	0.40
6:CF:29:ALA:O	6:CF:30:LEU:C	2.60	0.40
18:CR:24:ALA:C	18:CR:26:LEU:H	2.25	0.40
2:CB:71:VAL:HG12	2:CB:72:GLY:N	2.36	0.40
35:DA:806:C:H6	35:DA:806:C:O5'	2.05	0.40
40:DF:57:VAL:HG21	40:DF:87:GLY:CA	2.52	0.40
40:DF:84:VAL:HB	40:DF:85:GLY:H	1.45	0.40
1:AA:756:C:O2'	1:AA:757:U:H5'	2.22	0.40
35:BA:366:C:H5'	35:BA:370:G:H5'	2.03	0.40
43:DI:97:ILE:CD1	43:DI:116:LEU:HD22	2.51	0.40
47:BQ:55:VAL:C	47:BQ:57:HIS:N	2.72	0.40
1:CA:1529:G:H3'	1:CA:1530:G:C5'	2.51	0.40
35:DA:2018:G:C4	35:DA:2019:A:C8	3.10	0.40
35:DA:2023:G:C5'	35:DA:2617:C:H4'	2.52	0.40
35:DA:28:A:H2'	35:DA:28:A:N3	2.37	0.40
35:DA:447:A:C2	35:DA:473:G:C8	3.09	0.40
25:CY:169:ILE:O	25:CY:170:ALA:O	2.40	0.40
35:BA:1203:G:N2	35:BA:1243:G:C6	2.90	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:AY:29:ARG:NH1	25:AY:110:ARG:HH21	2.19	0.40
35:BA:2127:G:C1'	35:BA:2128:C:H4'	2.49	0.40
26:B0:7:LEU:HA	47:BQ:83:MET:SD	2.61	0.40
11:AK:20:TYR:O	11:AK:31:THR:N	2.52	0.40
11:AK:66:LEU:O	11:AK:70:LYS:N	2.47	0.40
35:BA:2283:C:C5	35:BA:2389:G:C4	3.10	0.40
35:DA:261:G:C2	35:DA:262:A:N7	2.89	0.40
11:CK:66:LEU:HB2	11:CK:67:ASP:H	1.63	0.40
1:CA:1349:A:H2'	1:CA:1350:A:O5'	2.22	0.40
1:CA:1370:G:O2'	1:CA:1371:G:H5'	2.22	0.40
9:CI:66:ARG:HH11	9:CI:66:ARG:HB3	1.86	0.40
9:AI:93:ARG:O	9:AI:95:LYS:N	2.50	0.40
18:CR:52:PRO:C	18:CR:56:THR:HG23	2.41	0.40
42:BH:74:ASN:C	42:BH:76:VAL:N	2.72	0.40
33:D7:28:ARG:O	33:D7:29:LYS:C	2.60	0.40
15:CO:31:LEU:O	15:CO:34:LEU:N	2.54	0.40
16:CP:39:TYR:HB2	16:CP:49:LEU:HB2	2.03	0.40
7:CG:122:HIS:O	7:CG:123:GLU:C	2.60	0.40
40:BF:150:GLY:C	40:BF:152:GLU:N	2.75	0.40
1:CA:684:A:H2'	1:CA:685:G:C8	2.56	0.40
39:BE:101:ARG:CD	39:BE:169:ASN:HD22	2.27	0.40
1:CA:38:G:C4	1:CA:397:A:N1	2.90	0.40
1:AA:1456:G:C2'	1:AA:1457:G:H5'	2.52	0.40
40:DF:175:THR:HG23	40:DF:175:THR:O	2.21	0.40
3:AC:156:ARG:NH2	3:AC:159:GLY:O	2.55	0.40
17:AQ:45:HIS:C	17:AQ:73:VAL:HG23	2.42	0.40
37:BC:59:ARG:CB	37:BC:62:VAL:HG22	2.41	0.40
5:AE:105:VAL:N	5:AE:106:PRO:HD2	2.36	0.40
5:AE:140:ARG:HE	5:AE:140:ARG:HB2	1.36	0.40
32:D6:17:LYS:O	32:D6:18:ARG:HD3	2.22	0.40
1:CA:1464:G:N2	1:CA:1465:C:C4	2.90	0.40
35:DA:1504:C:O2'	35:DA:1505:C:H5'	2.20	0.40
35:BA:2795:G:C6	35:BA:2802:G:N2	2.89	0.40
19:AS:48:THR:HG22	19:AS:61:TYR:CB	2.51	0.40
19:AS:48:THR:HA	19:AS:60:VAL:O	2.22	0.40
1:AA:315:A:H5''	1:AA:317:G:OP2	2.21	0.40
1:AA:470:C:O2'	1:AA:471:G:H5'	2.21	0.40
3:AC:87:LEU:HA	3:AC:90:GLU:HG2	2.04	0.40
19:CS:48:THR:HA	19:CS:60:VAL:O	2.21	0.40
35:DA:962:G:C2'	35:DA:963:U:H5'	2.52	0.40
35:BA:687:C:N3	35:BA:788:A:H5'	2.36	0.40
1:AA:579:G:H2'	1:AA:580:U:H6	1.87	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1305:G:OP1	21:AU:2:GLY:HA3	2.22	0.40
1:AA:1330:U:C5	1:AA:1331:G:C5	3.09	0.40
1:AA:666:G:H2'	1:AA:667:G:C8	2.55	0.40
15:AO:37:ASN:O	15:AO:40:SER:HB3	2.21	0.40
15:AO:51:HIS:O	15:AO:52:SER:C	2.60	0.40
12:CL:113:ARG:O	12:CL:122:THR:HG21	2.21	0.40
38:DD:165:ILE:N	38:DD:165:ILE:CD1	2.71	0.40
35:BA:1369:G:N2	35:BA:1370:C:C2	2.89	0.40
35:BA:1464:C:O2'	35:BA:1465:G:H5'	2.21	0.40
35:BA:1528(A):A:H3'	35:BA:1529:G:C5'	2.46	0.40
4:AD:80:GLU:O	4:AD:81:GLU:C	2.60	0.40
44:DN:137:LYS:CG	44:DN:138:LEU:N	2.83	0.40
43:DI:55:ALA:O	43:DI:59:ALA:CB	2.69	0.40
45:DO:87:ILE:HG23	45:DO:88:ASN:O	2.21	0.40
35:DA:2290:G:H1	35:DA:2342:C:H42	1.69	0.40
56:BZ:141:VAL:HG22	56:BZ:141:VAL:O	2.20	0.40
35:DA:481:G:HO2'	35:DA:482:A:P	2.44	0.40
4:CD:80:GLU:O	4:CD:83:SER:N	2.55	0.40
23:CW:54:G:C2	23:CW:55:5MU:C4	3.10	0.40
17:CQ:10:VAL:HG12	17:CQ:53:LEU:CD1	2.52	0.40
10:CJ:20:ALA:O	10:CJ:24:VAL:HG23	2.21	0.40
1:AA:240:C:H2'	1:AA:241:C:C6	2.56	0.40
7:AG:11:GLN:CG	7:AG:12:LEU:N	2.85	0.40
35:DA:1681:G:HO2'	35:DA:1762:A:H2'	1.86	0.40
1:CA:797:C:H2'	1:CA:798:G:H8	1.86	0.40
1:CA:292:G:H2'	1:CA:293:G:O4'	2.22	0.40
35:DA:2516:G:C6	35:DA:2517:C:N4	2.90	0.40
35:BA:2025:C:H2'	35:BA:2026:C:H6	1.87	0.40
53:DW:9:TYR:H	53:DW:102:HIS:HD2	1.67	0.40
53:BW:111:HIS:CG	53:BW:112:GLY:H	2.39	0.40
35:BA:328:U:H3	35:BA:332:A:H62	1.70	0.40
8:AH:91:ARG:NH1	8:AH:91:ARG:CG	2.79	0.40
1:AA:1518:A:N1	1:AA:1519:A:C2	2.90	0.40
35:BA:983:A:H2'	35:BA:984:A:C8	2.57	0.40
41:BG:50:ALA:HB1	41:BG:52:ILE:HD11	2.03	0.40
1:CA:509:A:C2	1:CA:510:A:C2	3.10	0.40
35:DA:2064:C:H4'	35:DA:2251:G:N2	2.36	0.40
35:DA:2553:G:H2'	35:DA:2554:U:C4'	2.52	0.40
1:AA:1420:C:C3'	1:AA:1420:C:C6	3.03	0.40
9:CI:99:LEU:HD22	9:CI:99:LEU:HA	1.89	0.40
25:CY:143:LEU:O	25:CY:146:GLU:CB	2.69	0.40
1:CA:1000:U:H2'	1:CA:1001:A:H8	1.86	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2322:A:O2'	35:DA:2323:G:H5'	2.22	0.40
35:DA:2228:G:C5	35:DA:2229:C:C4	3.10	0.40
1:CA:318:G:C2	1:CA:319:G:N7	2.89	0.40
54:BX:43:VAL:C	54:BX:45:THR:N	2.72	0.40
35:DA:1593:G:C6	35:DA:1594:G:C6	3.10	0.40
35:BA:1161:C:H2'	35:BA:1162:G:H8	1.87	0.40
5:CE:53:LEU:O	5:CE:54:ALA:C	2.60	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1593:G:O2'	36:BB:54:G:OP1[1.655]	2.17	0.03

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%)	114 (49%)	69 (30%)	50 (22%)	0	2
2	CB	233/256 (91%)	114 (49%)	68 (29%)	51 (22%)	0	1
3	AC	205/239 (86%)	119 (58%)	50 (24%)	36 (18%)	0	4
3	CC	205/239 (86%)	121 (59%)	47 (23%)	37 (18%)	0	4
4	AD	206/209 (99%)	101 (49%)	62 (30%)	43 (21%)	0	2
4	CD	206/209 (99%)	101 (49%)	61 (30%)	44 (21%)	0	2
5	AE	149/162 (92%)	85 (57%)	44 (30%)	20 (13%)	0	9
5	CE	149/162 (92%)	84 (56%)	45 (30%)	20 (13%)	0	9
6	AF	99/101 (98%)	61 (62%)	23 (23%)	15 (15%)	0	6
6	CF	99/101 (98%)	60 (61%)	24 (24%)	15 (15%)	0	6
7	AG	153/156 (98%)	97 (63%)	31 (20%)	25 (16%)	0	5
7	CG	153/156 (98%)	97 (63%)	31 (20%)	25 (16%)	0	5

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
8	AH	136/138 (99%)	78 (57%)	39 (29%)	19 (14%)	0	8
8	CH	136/138 (99%)	79 (58%)	37 (27%)	20 (15%)	0	6
9	AI	121/128 (94%)	80 (66%)	27 (22%)	14 (12%)	1	12
9	CI	121/128 (94%)	79 (65%)	27 (22%)	15 (12%)	1	10
10	AJ	97/105 (92%)	64 (66%)	23 (24%)	10 (10%)	1	14
10	CJ	97/105 (92%)	64 (66%)	22 (23%)	11 (11%)	1	12
11	AK	117/129 (91%)	69 (59%)	31 (26%)	17 (14%)	0	7
11	CK	117/129 (91%)	68 (58%)	32 (27%)	17 (14%)	0	7
12	AL	123/135 (91%)	78 (63%)	28 (23%)	17 (14%)	0	8
12	CL	123/135 (91%)	77 (63%)	27 (22%)	19 (15%)	0	6
13	AM	113/126 (90%)	59 (52%)	35 (31%)	19 (17%)	0	5
13	CM	113/126 (90%)	60 (53%)	34 (30%)	19 (17%)	0	5
14	AN	58/61 (95%)	38 (66%)	12 (21%)	8 (14%)	0	8
14	CN	58/61 (95%)	38 (66%)	12 (21%)	8 (14%)	0	8
15	AO	86/89 (97%)	48 (56%)	26 (30%)	12 (14%)	0	8
15	CO	86/89 (97%)	49 (57%)	26 (30%)	11 (13%)	0	10
16	AP	82/88 (93%)	45 (55%)	24 (29%)	13 (16%)	0	5
16	CP	82/88 (93%)	45 (55%)	24 (29%)	13 (16%)	0	5
17	AQ	98/105 (93%)	66 (67%)	19 (19%)	13 (13%)	0	9
17	CQ	98/105 (93%)	65 (66%)	20 (20%)	13 (13%)	0	9
18	AR	68/88 (77%)	38 (56%)	18 (26%)	12 (18%)	0	4
18	CR	68/88 (77%)	37 (54%)	20 (29%)	11 (16%)	0	5
19	AS	77/93 (83%)	49 (64%)	19 (25%)	9 (12%)	1	12
19	CS	77/93 (83%)	49 (64%)	19 (25%)	9 (12%)	1	12
20	AT	97/106 (92%)	46 (47%)	29 (30%)	22 (23%)	0	1
20	CT	97/106 (92%)	46 (47%)	30 (31%)	21 (22%)	0	1
21	AU	23/27 (85%)	17 (74%)	4 (17%)	2 (9%)	1	19
21	CU	23/27 (85%)	17 (74%)	4 (17%)	2 (9%)	1	19
25	AY	183/185 (99%)	115 (63%)	44 (24%)	24 (13%)	0	9
25	CY	183/185 (99%)	81 (44%)	54 (30%)	48 (26%)	0	1
26	B0	83/85 (98%)	61 (74%)	13 (16%)	9 (11%)	1	13

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
26	D0	83/85 (98%)	59 (71%)	15 (18%)	9 (11%)	1	13
27	B1	87/98 (89%)	34 (39%)	22 (25%)	31 (36%)	0	0
27	D1	87/98 (89%)	41 (47%)	22 (25%)	24 (28%)	0	1
28	B2	49/72 (68%)	14 (29%)	21 (43%)	14 (29%)	0	0
28	D2	49/72 (68%)	16 (33%)	20 (41%)	13 (26%)	0	1
29	B3	58/60 (97%)	34 (59%)	15 (26%)	9 (16%)	0	5
29	D3	58/60 (97%)	34 (59%)	15 (26%)	9 (16%)	0	5
30	B4	48/71 (68%)	8 (17%)	23 (48%)	17 (35%)	0	0
30	D4	48/71 (68%)	8 (17%)	22 (46%)	18 (38%)	0	0
31	B5	57/60 (95%)	28 (49%)	14 (25%)	15 (26%)	0	1
31	D5	57/60 (95%)	28 (49%)	12 (21%)	17 (30%)	0	0
32	B6	41/54 (76%)	21 (51%)	11 (27%)	9 (22%)	0	1
32	D6	41/54 (76%)	21 (51%)	11 (27%)	9 (22%)	0	1
33	B7	47/49 (96%)	29 (62%)	9 (19%)	9 (19%)	0	3
33	D7	47/49 (96%)	29 (62%)	10 (21%)	8 (17%)	0	4
34	B8	62/65 (95%)	25 (40%)	22 (36%)	15 (24%)	0	1
34	D8	62/65 (95%)	26 (42%)	21 (34%)	15 (24%)	0	1
37	BC	183/229 (80%)	81 (44%)	49 (27%)	53 (29%)	0	0
38	BD	270/276 (98%)	158 (58%)	62 (23%)	50 (18%)	0	3
38	DD	270/276 (98%)	159 (59%)	62 (23%)	49 (18%)	0	3
39	BE	203/206 (98%)	110 (54%)	46 (23%)	47 (23%)	0	1
39	DE	203/206 (98%)	111 (55%)	44 (22%)	48 (24%)	0	1
40	BF	206/210 (98%)	109 (53%)	53 (26%)	44 (21%)	0	2
40	DF	206/210 (98%)	108 (52%)	53 (26%)	45 (22%)	0	1
41	BG	177/182 (97%)	89 (50%)	48 (27%)	40 (23%)	0	1
41	DG	177/182 (97%)	89 (50%)	41 (23%)	47 (27%)	0	1
42	BH	158/180 (88%)	78 (49%)	44 (28%)	36 (23%)	0	1
42	DH	158/180 (88%)	80 (51%)	44 (28%)	34 (22%)	0	2
43	BI	144/148 (97%)	80 (56%)	36 (25%)	28 (19%)	0	3
43	DI	144/148 (97%)	80 (56%)	37 (26%)	27 (19%)	0	3
44	BN	137/140 (98%)	64 (47%)	40 (29%)	33 (24%)	0	1

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
44	DN	137/140 (98%)	65 (47%)	39 (28%)	33 (24%)	0	1
45	BO	120/122 (98%)	73 (61%)	24 (20%)	23 (19%)	0	3
45	DO	120/122 (98%)	74 (62%)	24 (20%)	22 (18%)	0	3
46	BP	144/150 (96%)	77 (54%)	27 (19%)	40 (28%)	0	1
46	DP	144/150 (96%)	75 (52%)	29 (20%)	40 (28%)	0	1
47	BQ	134/141 (95%)	70 (52%)	37 (28%)	27 (20%)	0	2
47	DQ	134/141 (95%)	72 (54%)	35 (26%)	27 (20%)	0	2
48	BR	115/118 (98%)	54 (47%)	26 (23%)	35 (30%)	0	0
48	DR	115/118 (98%)	53 (46%)	29 (25%)	33 (29%)	0	0
49	BS	97/112 (87%)	34 (35%)	27 (28%)	36 (37%)	0	0
49	DS	97/112 (87%)	34 (35%)	28 (29%)	35 (36%)	0	0
50	BT	136/146 (93%)	79 (58%)	26 (19%)	31 (23%)	0	1
50	DT	136/146 (93%)	78 (57%)	29 (21%)	29 (21%)	0	2
51	BU	115/118 (98%)	50 (44%)	39 (34%)	26 (23%)	0	1
51	DU	115/118 (98%)	51 (44%)	38 (33%)	26 (23%)	0	1
52	BV	97/101 (96%)	39 (40%)	21 (22%)	37 (38%)	0	0
52	DV	97/101 (96%)	39 (40%)	22 (23%)	36 (37%)	0	0
53	BW	111/113 (98%)	62 (56%)	27 (24%)	22 (20%)	0	2
53	DW	111/113 (98%)	60 (54%)	34 (31%)	17 (15%)	0	6
54	BX	91/96 (95%)	39 (43%)	24 (26%)	28 (31%)	0	0
54	DX	91/96 (95%)	38 (42%)	25 (28%)	28 (31%)	0	0
55	BY	99/110 (90%)	36 (36%)	29 (29%)	34 (34%)	0	0
55	DY	99/110 (90%)	38 (38%)	25 (25%)	36 (36%)	0	0
56	BZ	175/206 (85%)	87 (50%)	41 (23%)	47 (27%)	0	1
56	DZ	175/206 (85%)	92 (53%)	46 (26%)	37 (21%)	0	2
57	DC	183/229 (80%)	79 (43%)	49 (27%)	55 (30%)	0	0
All	All	11936/12888 (93%)	6358 (53%)	3078 (26%)	2500 (21%)	0	2

All (2500) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AB	20	GLU
2	AB	22	LYS

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Mol	Chain	Res	Type
2	AB	29	ALA
2	AB	30	ARG
2	AB	37	ASN
2	AB	75	LYS
2	AB	77	ALA
2	AB	88	ALA
2	AB	154	LEU
2	AB	165	VAL
2	AB	167	PRO
2	AB	168	THR
2	AB	191	ASP
2	AB	194	PRO
2	AB	202	PRO
2	AB	209	ARG
2	AB	229	VAL
2	AB	238	LEU
2	AB	239	VAL
3	AC	4	LYS
3	AC	12	LEU
3	AC	53	ALA
3	AC	61	ALA
3	AC	157	ILE
3	AC	172	ARG
3	AC	174	PRO
3	AC	191	THR
3	AC	207	VAL
4	AD	4	TYR
4	AD	5	ILE
4	AD	6	GLY
4	AD	9	CYS
4	AD	14	ARG
4	AD	24	GLU
4	AD	28	SER
4	AD	119	GLN
4	AD	128	VAL
4	AD	149	ALA
4	AD	150	GLU
4	AD	163	GLU
4	AD	164	ALA
4	AD	177	ASP
4	AD	191	ARG
5	AE	37	ARG

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Mol	Chain	Res	Type
5	AE	129	ILE
6	AF	13	ASN
6	AF	69	GLU
6	AF	70	ASP
6	AF	72	VAL
7	AG	31	MET
7	AG	39	ALA
7	AG	153	HIS
8	AH	17	THR
8	AH	18	ARG
8	AH	22	GLU
8	AH	29	SER
8	AH	97	VAL
8	AH	129	VAL
9	AI	29	ASN
9	AI	117	HIS
9	AI	120	ARG
10	AJ	33	GLN
10	AJ	57	LYS
10	AJ	91	PRO
11	AK	27	ASN
11	AK	105	VAL
12	AL	10	LEU
12	AL	23	LYS
12	AL	28	LYS
12	AL	47	LYS
12	AL	48	PRO
12	AL	62	SER
13	AM	4	ILE
13	AM	11	ARG
13	AM	60	VAL
13	AM	68	GLY
13	AM	83	ASP
13	AM	90	LEU
13	AM	117	VAL
14	AN	22	THR
14	AN	23	ARG
15	AO	16	ALA
17	AQ	49	GLU
17	AQ	74	LEU
17	AQ	81	ARG
17	AQ	93	GLN

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Mol	Chain	Res	Type
17	AQ	96	GLU
18	AR	20	ALA
18	AR	37	VAL
18	AR	45	SER
19	AS	10	PHE
19	AS	67	VAL
19	AS	80	TYR
19	AS	81	ARG
20	AT	28	ALA
20	AT	49	ALA
20	AT	63	ILE
20	AT	64	ASP
25	AY	29	ARG
25	AY	69	GLN
25	AY	81	LYS
25	AY	85	ASP
25	AY	107	THR
26	B0	17	GLN
26	B0	55	ARG
26	B0	84	LEU
27	B1	11	ARG
27	B1	15	ALA
27	B1	26	ARG
27	B1	46	LEU
27	B1	49	VAL
27	B1	52	ARG
27	B1	53	VAL
27	B1	57	GLU
27	B1	62	VAL
27	B1	63	ALA
27	B1	69	LYS
27	B1	75	GLU
27	B1	77	ALA
27	B1	86	SER
27	B1	87	PRO
27	B1	95	LEU
28	B2	40	SER
28	B2	42	GLY
28	B2	50	ILE
28	B2	51	ARG
28	B2	52	ASP
28	B2	59	ARG

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Mol	Chain	Res	Type
29	B3	3	ARG
29	B3	13	ILE
29	B3	31	LEU
29	B3	51	ALA
29	B3	52	HIS
29	B3	56	VAL
29	B3	57	GLU
30	B4	6	HIS
30	B4	7	PRO
30	B4	10	VAL
30	B4	13	ARG
30	B4	14	ILE
30	B4	23	GLU
30	B4	29	PRO
30	B4	35	VAL
30	B4	47	GLN
31	B5	21	SER
31	B5	22	HIS
31	B5	32	PRO
31	B5	33	CYS
31	B5	34	PRO
31	B5	35	GLU
31	B5	57	VAL
32	B6	16	CYS
32	B6	31	PRO
32	B6	44	ARG
32	B6	45	LYS
33	B7	18	PHE
33	B7	46	VAL
34	B8	4	MET
34	B8	25	MET
34	B8	32	LEU
34	B8	37	SER
34	B8	43	GLN
37	BC	22	ILE
37	BC	47	LEU
37	BC	49	ILE
37	BC	54	SER
37	BC	68	LEU
37	BC	104	LEU
37	BC	126	LYS
37	BC	133	PRO

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Mol	Chain	Res	Type
37	BC	140	PRO
37	BC	167	LYS
37	BC	173	ALA
37	BC	174	PRO
37	BC	184	LYS
37	BC	204	ALA
37	BC	222	VAL
38	BD	3	VAL
38	BD	8	PRO
38	BD	13	ARG
38	BD	22	SER
38	BD	25	THR
38	BD	28	GLU
38	BD	32	SER
38	BD	45	ASN
38	BD	58	HIS
38	BD	135	PHE
38	BD	159	ALA
38	BD	204	ILE
38	BD	216	GLY
38	BD	223	GLY
38	BD	224	ALA
38	BD	228	PRO
38	BD	241	PRO
38	BD	262	ARG
38	BD	263	ARG
38	BD	266	SER
38	BD	272	ALA
39	BE	2	LYS
39	BE	4	ILE
39	BE	45	THR
39	BE	53	PRO
39	BE	57	LYS
39	BE	61	ARG
39	BE	66	HIS
39	BE	77	ILE
39	BE	82	ARG
39	BE	88	GLY
39	BE	90	THR
39	BE	93	VAL
39	BE	122	PHE
39	BE	129	HIS

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Mol	Chain	Res	Type
39	BE	182	LEU
39	BE	186	GLY
40	BF	2	LYS
40	BF	6	VAL
40	BF	10	PRO
40	BF	21	ALA
40	BF	40	GLN
40	BF	57	VAL
40	BF	60	SER
40	BF	66	PRO
40	BF	72	ARG
40	BF	73	ALA
40	BF	85	GLY
40	BF	89	VAL
40	BF	184	TYR
41	BG	3	LEU
41	BG	48	GLU
41	BG	53	LEU
41	BG	81	LYS
41	BG	82	LEU
41	BG	84	LYS
41	BG	86	MET
41	BG	87	PRO
41	BG	90	LEU
41	BG	110	ALA
41	BG	145	THR
41	BG	151	ALA
41	BG	171	ALA
41	BG	172	LEU
42	BH	13	LYS
42	BH	44	VAL
42	BH	71	LEU
42	BH	85	LYS
42	BH	89	ILE
42	BH	92	ILE
42	BH	137	ASP
42	BH	138	LYS
42	BH	151	ILE
42	BH	155	SER
42	BH	156	ALA
42	BH	159	GLU
42	BH	160	LYS

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Mol	Chain	Res	Type
42	BH	165	ALA
43	BI	15	VAL
43	BI	81	VAL
43	BI	86	THR
43	BI	88	ILE
43	BI	91	SER
43	BI	133	HIS
43	BI	145	VAL
44	BN	8	GLN
44	BN	44	PRO
44	BN	47	ALA
44	BN	52	VAL
44	BN	58	ASP
44	BN	74	ARG
44	BN	78	TYR
44	BN	127	ASP
44	BN	130	HIS
44	BN	133	GLN
45	BO	14	THR
45	BO	35	VAL
45	BO	48	PRO
45	BO	102	VAL
45	BO	112	MET
46	BP	15	ARG
46	BP	17	LYS
46	BP	18	ARG
46	BP	31	ALA
46	BP	35	HIS
46	BP	46	LYS
46	BP	49	ARG
46	BP	64	LYS
46	BP	65	ARG
46	BP	67	MET
46	BP	111	ARG
46	BP	146	VAL
46	BP	147	LEU
47	BQ	7	MET
47	BQ	11	LYS
47	BQ	12	GLN
47	BQ	25	ASP
47	BQ	66	ILE
47	BQ	71	ASP

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Mol	Chain	Res	Type
47	BQ	88	GLY
47	BQ	103	MET
47	BQ	134	ARG
47	BQ	136	ALA
47	BQ	138	ASP
48	BR	7	GLY
48	BR	8	ARG
48	BR	12	ARG
48	BR	14	SER
48	BR	16	HIS
48	BR	29	LEU
48	BR	45	ARG
48	BR	71	GLN
48	BR	86	ARG
48	BR	117	VAL
49	BS	17	ARG
49	BS	24	LEU
49	BS	33	LYS
49	BS	42	ASP
49	BS	56	LEU
49	BS	59	LYS
49	BS	74	ALA
49	BS	83	LYS
49	BS	84	GLN
49	BS	92	TYR
49	BS	93	LYS
49	BS	96	GLY
49	BS	100	ALA
49	BS	102	ALA
49	BS	105	ALA
50	BT	18	ASP
50	BT	20	PRO
50	BT	24	PRO
50	BT	28	VAL
50	BT	30	VAL
50	BT	32	TYR
50	BT	33	LYS
50	BT	41	ARG
50	BT	57	PHE
50	BT	80	SER
50	BT	83	ILE
50	BT	97	ALA

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Mol	Chain	Res	Type
50	BT	107	ASP
51	BU	5	LYS
51	BU	7	GLY
51	BU	8	VAL
51	BU	9	VAL
51	BU	45	TYR
51	BU	53	ARG
51	BU	93	LYS
51	BU	97	ASP
52	BV	19	LYS
52	BV	23	GLU
52	BV	24	LYS
52	BV	28	GLU
52	BV	50	PRO
52	BV	51	VAL
52	BV	57	VAL
52	BV	59	ALA
52	BV	73	SER
52	BV	98	GLU
53	BW	11	ARG
53	BW	63	ASP
53	BW	75	TYR
53	BW	93	ALA
53	BW	111	HIS
54	BX	6	ASP
54	BX	26	TYR
54	BX	36	LYS
54	BX	53	LYS
54	BX	59	VAL
54	BX	60	ARG
54	BX	62	LYS
54	BX	65	ARG
54	BX	73	ARG
54	BX	84	ALA
55	BY	3	VAL
55	BY	7	VAL
55	BY	16	ALA
55	BY	38	ILE
55	BY	44	ILE
55	BY	55	TYR
55	BY	56	PRO
55	BY	66	PRO

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Mol	Chain	Res	Type
55	BY	74	PRO
55	BY	75	ILE
55	BY	76	CYS
55	BY	78	ALA
55	BY	90	LEU
55	BY	96	ILE
55	BY	101	LYS
56	BZ	8	TYR
56	BZ	30	ASN
56	BZ	48	PHE
56	BZ	77	ASP
56	BZ	78	LYS
56	BZ	81	ARG
56	BZ	93	ASP
56	BZ	100	VAL
56	BZ	111	VAL
56	BZ	113	ALA
56	BZ	128	VAL
56	BZ	135	GLU
56	BZ	149	SER
56	BZ	153	SER
56	BZ	163	LEU
56	BZ	166	SER
56	BZ	168	GLU
2	CB	20	GLU
2	CB	22	LYS
2	CB	23	ARG
2	CB	29	ALA
2	CB	30	ARG
2	CB	37	ASN
2	CB	75	LYS
2	CB	77	ALA
2	CB	88	ALA
2	CB	154	LEU
2	CB	165	VAL
2	CB	167	PRO
2	CB	168	THR
2	CB	191	ASP
2	CB	194	PRO
2	CB	202	PRO
2	CB	204	ASN
2	CB	209	ARG

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Mol	Chain	Res	Type
2	CB	229	VAL
2	CB	238	LEU
2	CB	239	VAL
3	CC	4	LYS
3	CC	12	LEU
3	CC	53	ALA
3	CC	61	ALA
3	CC	157	ILE
3	CC	172	ARG
3	CC	174	PRO
3	CC	191	THR
3	CC	207	VAL
4	CD	4	TYR
4	CD	5	ILE
4	CD	6	GLY
4	CD	9	CYS
4	CD	14	ARG
4	CD	24	GLU
4	CD	28	SER
4	CD	119	GLN
4	CD	128	VAL
4	CD	149	ALA
4	CD	150	GLU
4	CD	163	GLU
4	CD	164	ALA
4	CD	177	ASP
4	CD	191	ARG
5	CE	37	ARG
5	CE	129	ILE
6	CF	13	ASN
6	CF	69	GLU
6	CF	70	ASP
6	CF	72	VAL
7	CG	31	MET
7	CG	39	ALA
7	CG	153	HIS
8	CH	18	ARG
8	CH	22	GLU
8	CH	29	SER
8	CH	97	VAL
8	CH	129	VAL
9	CI	12	GLU

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Mol	Chain	Res	Type
9	CI	29	ASN
9	CI	117	HIS
9	CI	120	ARG
10	CJ	33	GLN
10	CJ	57	LYS
10	CJ	91	PRO
11	CK	27	ASN
11	CK	103	LEU
11	CK	105	VAL
11	CK	106	LYS
12	CL	10	LEU
12	CL	23	LYS
12	CL	28	LYS
12	CL	47	LYS
12	CL	48	PRO
12	CL	62	SER
13	CM	4	ILE
13	CM	11	ARG
13	CM	60	VAL
13	CM	68	GLY
13	CM	90	LEU
13	CM	117	VAL
14	CN	22	THR
14	CN	23	ARG
15	CO	16	ALA
17	CQ	49	GLU
17	CQ	74	LEU
17	CQ	93	GLN
18	CR	20	ALA
18	CR	37	VAL
18	CR	45	SER
19	CS	10	PHE
19	CS	67	VAL
19	CS	80	TYR
19	CS	81	ARG
20	CT	28	ALA
20	CT	49	ALA
20	CT	63	ILE
20	CT	64	ASP
25	CY	19	GLU
25	CY	30	THR
25	CY	52	LEU

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Mol	Chain	Res	Type
25	CY	53	ASN
25	CY	87	ASP
25	CY	120	GLN
25	CY	132	ILE
25	CY	150	SER
25	CY	166	ASP
26	D0	17	GLN
26	D0	55	ARG
26	D0	84	LEU
27	D1	12	PRO
27	D1	15	ALA
27	D1	26	ARG
27	D1	33	LYS
27	D1	53	VAL
27	D1	57	GLU
27	D1	63	ALA
28	D2	14	ARG
28	D2	15	LYS
28	D2	28	LYS
28	D2	50	ILE
28	D2	51	ARG
29	D3	3	ARG
29	D3	13	ILE
29	D3	31	LEU
29	D3	51	ALA
29	D3	52	HIS
29	D3	56	VAL
29	D3	57	GLU
30	D4	6	HIS
30	D4	7	PRO
30	D4	10	VAL
30	D4	13	ARG
30	D4	14	ILE
30	D4	23	GLU
30	D4	29	PRO
30	D4	35	VAL
30	D4	47	GLN
31	D5	21	SER
31	D5	22	HIS
31	D5	32	PRO
31	D5	33	CYS
31	D5	34	PRO

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Mol	Chain	Res	Type
31	D5	35	GLU
31	D5	57	VAL
32	D6	16	CYS
32	D6	31	PRO
32	D6	44	ARG
32	D6	45	LYS
33	D7	18	PHE
33	D7	46	VAL
34	D8	4	MET
34	D8	25	MET
34	D8	32	LEU
34	D8	37	SER
34	D8	43	GLN
57	DC	22	ILE
57	DC	47	LEU
57	DC	49	ILE
57	DC	54	SER
57	DC	68	LEU
57	DC	104	LEU
57	DC	126	LYS
57	DC	133	PRO
57	DC	140	PRO
57	DC	167	LYS
57	DC	173	ALA
57	DC	174	PRO
57	DC	184	LYS
57	DC	204	ALA
57	DC	222	VAL
38	DD	3	VAL
38	DD	8	PRO
38	DD	13	ARG
38	DD	22	SER
38	DD	25	THR
38	DD	28	GLU
38	DD	32	SER
38	DD	45	ASN
38	DD	53	PHE
38	DD	58	HIS
38	DD	135	PHE
38	DD	159	ALA
38	DD	204	ILE
38	DD	216	GLY

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Mol	Chain	Res	Type
38	DD	223	GLY
38	DD	224	ALA
38	DD	228	PRO
38	DD	241	PRO
38	DD	262	ARG
38	DD	263	ARG
38	DD	266	SER
38	DD	272	ALA
39	DE	2	LYS
39	DE	4	ILE
39	DE	45	THR
39	DE	53	PRO
39	DE	57	LYS
39	DE	61	ARG
39	DE	66	HIS
39	DE	77	ILE
39	DE	82	ARG
39	DE	88	GLY
39	DE	90	THR
39	DE	93	VAL
39	DE	122	PHE
39	DE	129	HIS
39	DE	182	LEU
39	DE	186	GLY
40	DF	2	LYS
40	DF	6	VAL
40	DF	10	PRO
40	DF	21	ALA
40	DF	40	GLN
40	DF	57	VAL
40	DF	60	SER
40	DF	66	PRO
40	DF	72	ARG
40	DF	73	ALA
40	DF	85	GLY
40	DF	89	VAL
40	DF	184	TYR
41	DG	3	LEU
41	DG	6	ALA
41	DG	12	TYR
41	DG	48	GLU
41	DG	50	ALA

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Mol	Chain	Res	Type
41	DG	53	LEU
41	DG	77	ILE
41	DG	82	LEU
41	DG	84	LYS
41	DG	86	MET
41	DG	104	GLU
41	DG	111	LEU
41	DG	122	PRO
41	DG	123	ASN
41	DG	130	ASN
41	DG	142	PRO
41	DG	143	GLU
41	DG	150	ASP
41	DG	157	ILE
41	DG	163	ALA
41	DG	172	LEU
42	DH	13	LYS
42	DH	44	VAL
42	DH	71	LEU
42	DH	85	LYS
42	DH	89	ILE
42	DH	92	ILE
42	DH	137	ASP
42	DH	138	LYS
42	DH	151	ILE
42	DH	155	SER
42	DH	156	ALA
42	DH	159	GLU
42	DH	160	LYS
42	DH	165	ALA
43	DI	15	VAL
43	DI	81	VAL
43	DI	86	THR
43	DI	88	ILE
43	DI	91	SER
43	DI	133	HIS
43	DI	145	VAL
44	DN	8	GLN
44	DN	44	PRO
44	DN	47	ALA
44	DN	52	VAL
44	DN	58	ASP

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Mol	Chain	Res	Type
44	DN	74	ARG
44	DN	78	TYR
44	DN	127	ASP
44	DN	130	HIS
44	DN	133	GLN
45	DO	14	THR
45	DO	35	VAL
45	DO	48	PRO
45	DO	102	VAL
45	DO	112	MET
46	DP	15	ARG
46	DP	17	LYS
46	DP	18	ARG
46	DP	31	ALA
46	DP	35	HIS
46	DP	46	LYS
46	DP	49	ARG
46	DP	64	LYS
46	DP	65	ARG
46	DP	67	MET
46	DP	111	ARG
46	DP	146	VAL
46	DP	147	LEU
47	DQ	7	MET
47	DQ	11	LYS
47	DQ	12	GLN
47	DQ	25	ASP
47	DQ	66	ILE
47	DQ	71	ASP
47	DQ	88	GLY
47	DQ	103	MET
47	DQ	134	ARG
47	DQ	136	ALA
47	DQ	138	ASP
48	DR	7	GLY
48	DR	8	ARG
48	DR	12	ARG
48	DR	14	SER
48	DR	16	HIS
48	DR	29	LEU
48	DR	45	ARG
48	DR	71	GLN

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Mol	Chain	Res	Type
48	DR	86	ARG
48	DR	117	VAL
49	DS	17	ARG
49	DS	24	LEU
49	DS	33	LYS
49	DS	42	ASP
49	DS	56	LEU
49	DS	59	LYS
49	DS	74	ALA
49	DS	83	LYS
49	DS	84	GLN
49	DS	92	TYR
49	DS	93	LYS
49	DS	96	GLY
49	DS	100	ALA
49	DS	102	ALA
49	DS	105	ALA
50	DT	18	ASP
50	DT	20	PRO
50	DT	24	PRO
50	DT	28	VAL
50	DT	30	VAL
50	DT	32	TYR
50	DT	33	LYS
50	DT	41	ARG
50	DT	57	PHE
50	DT	80	SER
50	DT	83	ILE
50	DT	97	ALA
50	DT	107	ASP
51	DU	5	LYS
51	DU	7	GLY
51	DU	8	VAL
51	DU	9	VAL
51	DU	22	LYS
51	DU	45	TYR
51	DU	53	ARG
51	DU	93	LYS
51	DU	97	ASP
52	DV	19	LYS
52	DV	23	GLU
52	DV	24	LYS

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Mol	Chain	Res	Type
52	DV	28	GLU
52	DV	50	PRO
52	DV	51	VAL
52	DV	57	VAL
52	DV	59	ALA
52	DV	73	SER
52	DV	98	GLU
53	DW	11	ARG
53	DW	63	ASP
53	DW	75	TYR
53	DW	93	ALA
53	DW	111	HIS
54	DX	6	ASP
54	DX	26	TYR
54	DX	37	THR
54	DX	53	LYS
54	DX	59	VAL
54	DX	60	ARG
54	DX	62	LYS
54	DX	65	ARG
54	DX	73	ARG
54	DX	84	ALA
55	DY	3	VAL
55	DY	7	VAL
55	DY	16	ALA
55	DY	38	ILE
55	DY	44	ILE
55	DY	55	TYR
55	DY	56	PRO
55	DY	64	GLU
55	DY	66	PRO
55	DY	74	PRO
55	DY	75	ILE
55	DY	76	CYS
55	DY	78	ALA
55	DY	90	LEU
55	DY	96	ILE
55	DY	101	LYS
56	DZ	30	ASN
56	DZ	33	LEU
56	DZ	78	LYS
56	DZ	101	PRO

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Mol	Chain	Res	Type
56	DZ	111	VAL
56	DZ	135	GLU
56	DZ	142	SER
56	DZ	148	ASP
56	DZ	149	SER
56	DZ	152	ALA
56	DZ	166	SER
56	DZ	169	GLU
2	AB	18	GLY
2	AB	23	ARG
2	AB	32	ILE
2	AB	45	GLN
2	AB	52	GLU
2	AB	64	ARG
2	AB	78	GLN
2	AB	84	GLU
2	AB	100	GLY
2	AB	105	PHE
2	AB	160	ASP
2	AB	204	ASN
2	AB	235	SER
3	AC	5	ILE
3	AC	18	TRP
3	AC	38	ARG
3	AC	47	LEU
3	AC	52	LEU
3	AC	54	ARG
3	AC	74	GLY
3	AC	127	ARG
3	AC	164	ARG
3	AC	181	ASN
3	AC	189	ALA
4	AD	3	ARG
4	AD	15	GLU
4	AD	30	LYS
4	AD	44	GLY
4	AD	47	ARG
4	AD	57	ARG
4	AD	60	GLU
4	AD	89	THR
4	AD	132	ARG
4	AD	159	ARG

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Mol	Chain	Res	Type
5	AE	27	ARG
5	AE	38	GLN
5	AE	85	GLY
5	AE	86	ALA
5	AE	113	ALA
5	AE	130	ASN
5	AE	146	ALA
6	AF	62	TRP
6	AF	80	ARG
6	AF	84	ASN
7	AG	7	ALA
7	AG	105	VAL
8	AH	64	LYS
9	AI	12	GLU
9	AI	40	LEU
9	AI	100	GLY
10	AJ	23	ILE
10	AJ	36	GLY
10	AJ	59	SER
10	AJ	84	GLN
10	AJ	86	MET
11	AK	16	SER
11	AK	25	TYR
11	AK	103	LEU
11	AK	106	LYS
12	AL	56	ALA
12	AL	83	VAL
12	AL	91	LYS
12	AL	96	VAL
12	AL	102	ARG
13	AM	67	GLU
13	AM	100	GLY
13	AM	107	ALA
13	AM	124	PRO
14	AN	16	PHE
14	AN	52	GLN
15	AO	26	GLU
15	AO	65	ARG
15	AO	73	GLU
16	AP	28	ARG
16	AP	53	VAL
16	AP	63	GLY

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Mol	Chain	Res	Type
17	AQ	33	GLY
17	AQ	80	GLY
18	AR	31	LEU
18	AR	59	SER
18	AR	85	LEU
18	AR	86	VAL
19	AS	26	GLY
19	AS	53	ASN
19	AS	70	LYS
20	AT	25	ARG
20	AT	42	GLN
20	AT	78	ALA
20	AT	99	LEU
20	AT	102	GLY
21	AU	9	ARG
25	AY	30	THR
25	AY	71	TRP
26	B0	4	LYS
26	B0	11	ARG
26	B0	20	ARG
27	B1	10	LYS
27	B1	28	GLY
27	B1	47	GLN
27	B1	64	ALA
27	B1	66	HIS
27	B1	71	TYR
27	B1	82	LEU
28	B2	15	LYS
28	B2	36	ARG
28	B2	41	ILE
28	B2	57	ILE
28	B2	60	LEU
29	B3	27	GLY
30	B4	3	GLU
30	B4	16	CYS
30	B4	31	ILE
31	B5	12	SER
31	B5	49	CYS
31	B5	51	TYR
32	B6	49	HIS
32	B6	52	VAL
33	B7	36	GLN

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Mol	Chain	Res	Type
34	B8	7	HIS
34	B8	35	GLN
37	BC	35	ALA
37	BC	36	LYS
37	BC	77	ILE
37	BC	78	ALA
37	BC	134	ARG
37	BC	135	GLY
37	BC	141	LYS
37	BC	147	PHE
37	BC	171	ILE
37	BC	215	THR
37	BC	217	THR
38	BD	26	LYS
38	BD	53	PHE
38	BD	57	GLY
38	BD	70	TRP
38	BD	125	ILE
38	BD	134	ARG
38	BD	156	ALA
38	BD	202	LYS
38	BD	234	GLY
38	BD	239	ARG
38	BD	265	PRO
38	BD	268	ARG
39	BE	30	PRO
39	BE	54	GLN
39	BE	56	PRO
39	BE	60	ASN
39	BE	73	GLU
39	BE	84	PHE
39	BE	92	THR
39	BE	121	ASN
39	BE	144	ARG
39	BE	164	ARG
39	BE	169	ASN
39	BE	174	ASP
39	BE	185	LYS
39	BE	189	PRO
39	BE	191	PRO
40	BF	22	ALA
40	BF	59	TYR

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Mol	Chain	Res	Type
40	BF	64	ILE
40	BF	68	LYS
40	BF	69	HIS
40	BF	70	THR
40	BF	86	GLY
40	BF	103	LYS
40	BF	111	ALA
40	BF	122	LYS
40	BF	127	GLU
40	BF	134	GLY
40	BF	165	ARG
40	BF	172	TRP
40	BF	178	PRO
41	BG	5	VAL
41	BG	14	GLU
41	BG	45	GLU
41	BG	61	ALA
41	BG	68	PRO
41	BG	96	ARG
41	BG	127	GLY
41	BG	129	GLY
41	BG	143	GLU
42	BH	14	GLY
42	BH	16	SER
42	BH	90	LYS
42	BH	100	GLY
42	BH	141	VAL
42	BH	146	ALA
42	BH	147	ASN
42	BH	148	ILE
43	BI	74	ASN
43	BI	82	ARG
43	BI	111	PRO
43	BI	112	LYS
44	BN	4	TYR
44	BN	9	VAL
44	BN	42	TRP
44	BN	45	ASN
44	BN	60	ILE
44	BN	61	ARG
44	BN	64	GLY
44	BN	83	LYS

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Mol	Chain	Res	Type
44	BN	98	VAL
44	BN	108	PRO
44	BN	109	LYS
45	BO	27	GLY
45	BO	44	LYS
45	BO	80	ASP
45	BO	81	ASP
46	BP	34	GLY
46	BP	38	GLN
46	BP	39	LYS
46	BP	42	SER
46	BP	56	SER
46	BP	66	GLY
46	BP	102	ARG
46	BP	107	LYS
46	BP	108	LYS
47	BQ	62	GLY
48	BR	9	LYS
48	BR	10	LEU
48	BR	42	LYS
48	BR	49	ASP
48	BR	82	GLU
48	BR	105	ARG
48	BR	107	ASP
49	BS	32	LEU
49	BS	62	LYS
49	BS	85	VAL
49	BS	89	ARG
49	BS	94	TYR
49	BS	98	VAL
50	BT	52	ILE
50	BT	81	PRO
50	BT	84	GLN
50	BT	92	GLY
50	BT	101	PHE
50	BT	115	ARG
50	BT	136	GLN
51	BU	22	LYS
51	BU	24	TYR
51	BU	32	PHE
51	BU	60	LEU
51	BU	62	ILE

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Mol	Chain	Res	Type
51	BU	65	ILE
51	BU	79	PHE
52	BV	17	GLY
52	BV	36	PRO
52	BV	41	GLY
52	BV	44	LYS
52	BV	46	VAL
52	BV	47	VAL
52	BV	64	HIS
52	BV	68	LYS
52	BV	69	LYS
52	BV	79	VAL
52	BV	86	GLY
52	BV	91	TYR
53	BW	6	ILE
53	BW	18	ARG
53	BW	25	ARG
53	BW	35	ILE
53	BW	60	ASN
54	BX	7	VAL
54	BX	24	GLY
54	BX	37	THR
54	BX	49	VAL
54	BX	68	ARG
54	BX	69	TYR
54	BX	76	ARG
54	BX	81	VAL
54	BX	88	LYS
55	BY	29	GLU
55	BY	64	GLU
55	BY	67	LEU
56	BZ	41	LEU
56	BZ	52	SER
56	BZ	62	PRO
56	BZ	63	ASP
56	BZ	66	SER
56	BZ	98	MET
56	BZ	101	PRO
56	BZ	109	ALA
56	BZ	115	GLY
56	BZ	138	GLU
56	BZ	140	ASP

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Mol	Chain	Res	Type
56	BZ	147	GLY
56	BZ	148	ASP
56	BZ	165	VAL
56	BZ	177	PRO
2	CB	18	GLY
2	CB	32	ILE
2	CB	45	GLN
2	CB	52	GLU
2	CB	64	ARG
2	CB	78	GLN
2	CB	84	GLU
2	CB	100	GLY
2	CB	160	ASP
2	CB	235	SER
3	CC	5	ILE
3	CC	18	TRP
3	CC	47	LEU
3	CC	52	LEU
3	CC	54	ARG
3	CC	74	GLY
3	CC	127	ARG
3	CC	160	ALA
3	CC	164	ARG
3	CC	181	ASN
4	CD	3	ARG
4	CD	10	ARG
4	CD	15	GLU
4	CD	30	LYS
4	CD	44	GLY
4	CD	47	ARG
4	CD	57	ARG
4	CD	59	ARG
4	CD	60	GLU
4	CD	89	THR
4	CD	97	LEU
4	CD	132	ARG
4	CD	159	ARG
4	CD	193	ASP
5	CE	27	ARG
5	CE	49	PRO
5	CE	85	GLY
5	CE	86	ALA

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Mol	Chain	Res	Type
5	CE	130	ASN
5	CE	146	ALA
6	CF	62	TRP
6	CF	80	ARG
6	CF	84	ASN
7	CG	7	ALA
7	CG	105	VAL
7	CG	120	ILE
7	CG	149	ARG
8	CH	17	THR
8	CH	64	LYS
9	CI	40	LEU
9	CI	100	GLY
10	CJ	23	ILE
10	CJ	36	GLY
10	CJ	59	SER
10	CJ	84	GLN
10	CJ	86	MET
11	CK	16	SER
11	CK	25	TYR
11	CK	26	ASN
11	CK	63	LEU
12	CL	56	ALA
12	CL	83	VAL
12	CL	91	LYS
12	CL	96	VAL
12	CL	102	ARG
12	CL	123	LYS
13	CM	83	ASP
13	CM	100	GLY
13	CM	107	ALA
13	CM	124	PRO
14	CN	16	PHE
14	CN	52	GLN
15	CO	26	GLU
15	CO	65	ARG
15	CO	73	GLU
16	CP	28	ARG
16	CP	53	VAL
16	CP	63	GLY
17	CQ	4	LYS
17	CQ	33	GLY

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Mol	Chain	Res	Type
17	CQ	80	GLY
17	CQ	81	ARG
17	CQ	96	GLU
18	CR	31	LEU
18	CR	41	LYS
18	CR	59	SER
18	CR	85	LEU
18	CR	86	VAL
19	CS	26	GLY
19	CS	53	ASN
19	CS	70	LYS
20	CT	25	ARG
20	CT	42	GLN
20	CT	78	ALA
20	CT	99	LEU
20	CT	102	GLY
25	CY	23	HIS
25	CY	24	ASN
25	CY	29	ARG
25	CY	39	LEU
25	CY	63	PRO
25	CY	64	ARG
25	CY	83	ILE
25	CY	107	THR
25	CY	109	GLU
25	CY	126	ARG
25	CY	127	VAL
25	CY	161	ILE
25	CY	165	THR
25	CY	174	GLN
26	D0	4	LYS
26	D0	11	ARG
26	D0	20	ARG
27	D1	13	ILE
27	D1	34	THR
27	D1	38	SER
27	D1	49	VAL
27	D1	56	GLN
27	D1	68	PRO
27	D1	69	LYS
27	D1	77	ALA
27	D1	79	GLY

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Mol	Chain	Res	Type
27	D1	82	LEU
27	D1	87	PRO
27	D1	89	GLU
28	D2	21	LEU
28	D2	40	SER
28	D2	41	ILE
28	D2	53	LEU
28	D2	60	LEU
29	D3	27	GLY
30	D4	3	GLU
30	D4	16	CYS
30	D4	31	ILE
31	D5	12	SER
31	D5	49	CYS
31	D5	51	TYR
32	D6	49	HIS
32	D6	52	VAL
33	D7	36	GLN
34	D8	7	HIS
34	D8	35	GLN
57	DC	35	ALA
57	DC	36	LYS
57	DC	52	ARG
57	DC	77	ILE
57	DC	78	ALA
57	DC	106	ALA
57	DC	125	SER
57	DC	134	ARG
57	DC	135	GLY
57	DC	141	LYS
57	DC	147	PHE
57	DC	171	ILE
57	DC	215	THR
57	DC	217	THR
38	DD	26	LYS
38	DD	57	GLY
38	DD	70	TRP
38	DD	125	ILE
38	DD	134	ARG
38	DD	156	ALA
38	DD	200	ASP
38	DD	202	LYS

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Mol	Chain	Res	Type
38	DD	206	LEU
38	DD	234	GLY
38	DD	239	ARG
38	DD	265	PRO
38	DD	268	ARG
39	DE	30	PRO
39	DE	54	GLN
39	DE	56	PRO
39	DE	73	GLU
39	DE	84	PHE
39	DE	89	ASP
39	DE	92	THR
39	DE	121	ASN
39	DE	144	ARG
39	DE	164	ARG
39	DE	169	ASN
39	DE	174	ASP
39	DE	185	LYS
39	DE	189	PRO
39	DE	191	PRO
40	DF	22	ALA
40	DF	59	TYR
40	DF	68	LYS
40	DF	69	HIS
40	DF	70	THR
40	DF	86	GLY
40	DF	103	LYS
40	DF	111	ALA
40	DF	122	LYS
40	DF	127	GLU
40	DF	134	GLY
40	DF	165	ARG
40	DF	172	TRP
40	DF	178	PRO
41	DG	5	VAL
41	DG	46	ALA
41	DG	81	LYS
41	DG	105	LYS
41	DG	107	LEU
41	DG	129	GLY
41	DG	139	LEU
41	DG	151	ALA

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Mol	Chain	Res	Type
41	DG	164	GLU
42	DH	14	GLY
42	DH	16	SER
42	DH	90	LYS
42	DH	100	GLY
42	DH	141	VAL
42	DH	146	ALA
42	DH	147	ASN
43	DI	74	ASN
43	DI	82	ARG
43	DI	111	PRO
43	DI	112	LYS
44	DN	4	TYR
44	DN	9	VAL
44	DN	14	VAL
44	DN	42	TRP
44	DN	45	ASN
44	DN	60	ILE
44	DN	61	ARG
44	DN	64	GLY
44	DN	83	LYS
44	DN	98	VAL
44	DN	108	PRO
44	DN	109	LYS
45	DO	44	LYS
45	DO	80	ASP
45	DO	81	ASP
46	DP	34	GLY
46	DP	37	GLY
46	DP	38	GLN
46	DP	39	LYS
46	DP	42	SER
46	DP	56	SER
46	DP	66	GLY
46	DP	102	ARG
46	DP	107	LYS
46	DP	108	LYS
46	DP	122	PRO
47	DQ	62	GLY
47	DQ	90	VAL
48	DR	9	LYS
48	DR	10	LEU

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Mol	Chain	Res	Type
48	DR	15	SER
48	DR	42	LYS
48	DR	49	ASP
48	DR	68	ARG
48	DR	82	GLU
49	DS	32	LEU
49	DS	62	LYS
49	DS	89	ARG
49	DS	94	TYR
49	DS	98	VAL
50	DT	52	ILE
50	DT	81	PRO
50	DT	84	GLN
50	DT	92	GLY
50	DT	101	PHE
50	DT	115	ARG
50	DT	136	GLN
51	DU	24	TYR
51	DU	32	PHE
51	DU	60	LEU
51	DU	62	ILE
51	DU	65	ILE
51	DU	79	PHE
52	DV	17	GLY
52	DV	36	PRO
52	DV	41	GLY
52	DV	44	LYS
52	DV	46	VAL
52	DV	47	VAL
52	DV	64	HIS
52	DV	68	LYS
52	DV	69	LYS
52	DV	72	VAL
52	DV	79	VAL
52	DV	86	GLY
52	DV	91	TYR
53	DW	6	ILE
53	DW	25	ARG
53	DW	35	ILE
53	DW	60	ASN
54	DX	24	GLY
54	DX	36	LYS

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Mol	Chain	Res	Type
54	DX	49	VAL
54	DX	68	ARG
54	DX	69	TYR
54	DX	76	ARG
54	DX	81	VAL
54	DX	82	GLN
54	DX	88	LYS
55	DY	67	LEU
56	DZ	45	ASP
56	DZ	65	GLN
56	DZ	108	PRO
56	DZ	115	GLY
56	DZ	121	HIS
56	DZ	147	GLY
56	DZ	163	LEU
56	DZ	171	ILE
2	AB	83	MET
2	AB	106	LYS
2	AB	133	LYS
2	AB	135	GLN
2	AB	143	GLU
2	AB	176	GLU
2	AB	178	ARG
2	AB	195	ASP
2	AB	213	LEU
3	AC	60	ALA
3	AC	107	GLN
3	AC	117	ALA
3	AC	145	GLY
3	AC	160	ALA
4	AD	10	ARG
4	AD	29	PRO
4	AD	43	HIS
4	AD	59	ARG
4	AD	64	LEU
4	AD	97	LEU
4	AD	101	LEU
4	AD	147	ALA
4	AD	153	ARG
4	AD	193	ASP
5	AE	49	PRO
5	AE	73	ASN

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Mol	Chain	Res	Type
5	AE	96	PRO
5	AE	132	ALA
6	AF	17	SER
6	AF	29	ALA
6	AF	71	ARG
7	AG	14	PRO
7	AG	40	ALA
7	AG	65	ALA
7	AG	100	ALA
7	AG	120	ILE
7	AG	149	ARG
8	AH	3	THR
8	AH	6	ILE
8	AH	37	ARG
8	AH	41	ARG
8	AH	68	ARG
8	AH	121	ASP
9	AI	94	ALA
11	AK	26	ASN
11	AK	63	LEU
11	AK	100	ALA
11	AK	124	LYS
11	AK	126	ARG
12	AL	46	LYS
12	AL	79	GLU
12	AL	123	LYS
13	AM	61	GLU
13	AM	102	ARG
14	AN	5	ALA
14	AN	35	ARG
15	AO	13	GLN
15	AO	37	ASN
16	AP	13	HIS
16	AP	73	LEU
16	AP	81	ARG
16	AP	83	GLU
17	AQ	4	LYS
17	AQ	78	GLU
17	AQ	87	LYS
18	AR	41	LYS
18	AR	43	PHE
18	AR	82	THR

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Mol	Chain	Res	Type
19	AS	44	MET
20	AT	12	ALA
20	AT	95	ALA
20	AT	96	GLY
20	AT	97	ALA
21	AU	12	LYS
25	AY	39	LEU
25	AY	53	ASN
25	AY	64	ARG
25	AY	87	ASP
25	AY	88	LEU
25	AY	92	PRO
25	AY	143	LEU
25	AY	184	LEU
26	B0	2	ALA
27	B1	56	GLN
29	B3	29	ARG
30	B4	44	THR
31	B5	58	LEU
33	B7	19	ARG
33	B7	32	LYS
34	B8	13	ARG
34	B8	36	LYS
34	B8	51	ALA
34	B8	64	TYR
37	BC	24	GLU
37	BC	51	PRO
37	BC	52	ARG
37	BC	125	SER
37	BC	146	GLY
37	BC	153	ILE
37	BC	172	HIS
37	BC	183	GLU
37	BC	201	PRO
37	BC	211	SER
37	BC	214	VAL
38	BD	89	SER
38	BD	115	GLN
38	BD	200	ASP
38	BD	206	LEU
38	BD	214	TRP
39	BE	43	GLY

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Mol	Chain	Res	Type
39	BE	44	TYR
39	BE	89	ASP
39	BE	162	ALA
39	BE	180	ASN
40	BF	14	PRO
40	BF	33	LEU
40	BF	61	GLY
40	BF	115	ALA
40	BF	132	VAL
40	BF	133	ASN
40	BF	179	GLU
41	BG	25	TYR
41	BG	43	LEU
41	BG	117	PHE
41	BG	157	ILE
41	BG	175	LEU
42	BH	39	PRO
42	BH	152	ARG
42	BH	153	LYS
42	BH	154	PRO
43	BI	6	LEU
43	BI	40	THR
43	BI	85	GLU
43	BI	104	GLN
43	BI	120	ILE
44	BN	14	VAL
44	BN	18	ALA
44	BN	46	VAL
44	BN	57	ALA
44	BN	80	GLY
44	BN	129	PRO
45	BO	36	GLY
45	BO	45	GLU
45	BO	68	GLU
45	BO	90	GLN
45	BO	114	ILE
46	BP	12	ALA
46	BP	33	ARG
46	BP	110	TYR
46	BP	120	ALA
46	BP	122	PRO
46	BP	129	ALA

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Mol	Chain	Res	Type
46	BP	141	ALA
47	BQ	24	GLY
47	BQ	59	ARG
47	BQ	60	ARG
47	BQ	78	PRO
47	BQ	90	VAL
47	BQ	105	GLU
47	BQ	115	MET
47	BQ	140	ALA
48	BR	5	LYS
48	BR	15	SER
48	BR	17	ARG
48	BR	50	HIS
48	BR	60	LEU
48	BR	68	ARG
48	BR	88	ARG
49	BS	43	GLU
49	BS	53	SER
49	BS	54	LEU
49	BS	61	ASN
49	BS	73	LEU
49	BS	78	LEU
49	BS	97	ARG
50	BT	23	ARG
50	BT	25	GLY
50	BT	131	ALA
51	BU	83	LEU
51	BU	88	ILE
51	BU	91	ASP
51	BU	92	ARG
52	BV	40	LEU
52	BV	42	GLY
52	BV	43	GLU
52	BV	48	GLY
52	BV	53	GLU
52	BV	72	VAL
52	BV	82	ARG
53	BW	14	PRO
53	BW	66	GLU
54	BX	82	GLN
54	BX	89	ILE
55	BY	23	ARG

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Mol	Chain	Res	Type
55	BY	31	LEU
55	BY	39	VAL
55	BY	40	GLU
55	BY	99	CYS
56	BZ	83	PRO
56	BZ	126	VAL
56	BZ	130	PRO
56	BZ	141	VAL
2	CB	83	MET
2	CB	105	PHE
2	CB	106	LYS
2	CB	133	LYS
2	CB	135	GLN
2	CB	143	GLU
2	CB	176	GLU
2	CB	178	ARG
2	CB	195	ASP
2	CB	213	LEU
3	CC	38	ARG
3	CC	60	ALA
3	CC	107	GLN
3	CC	117	ALA
3	CC	145	GLY
3	CC	179	ARG
3	CC	189	ALA
4	CD	29	PRO
4	CD	64	LEU
4	CD	101	LEU
4	CD	129	ASN
4	CD	147	ALA
5	CE	38	GLN
5	CE	73	ASN
5	CE	96	PRO
5	CE	113	ALA
5	CE	132	ALA
6	CF	17	SER
6	CF	29	ALA
6	CF	71	ARG
7	CG	14	PRO
7	CG	40	ALA
7	CG	65	ALA
7	CG	100	ALA

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Mol	Chain	Res	Type
7	CG	119	ARG
7	CG	131	LYS
8	CH	3	THR
8	CH	6	ILE
8	CH	37	ARG
8	CH	41	ARG
8	CH	121	ASP
9	CI	94	ALA
11	CK	18	ARG
11	CK	66	LEU
11	CK	100	ALA
11	CK	124	LYS
11	CK	126	ARG
12	CL	79	GLU
13	CM	61	GLU
13	CM	67	GLU
13	CM	102	ARG
14	CN	5	ALA
14	CN	35	ARG
15	CO	13	GLN
16	CP	13	HIS
16	CP	73	LEU
16	CP	81	ARG
17	CQ	17	LYS
17	CQ	78	GLU
17	CQ	87	LYS
18	CR	43	PHE
18	CR	82	THR
19	CS	44	MET
20	CT	57	ARG
20	CT	95	ALA
20	CT	97	ALA
21	CU	9	ARG
21	CU	12	LYS
25	CY	131	ASN
25	CY	134	ARG
25	CY	170	ALA
26	D0	2	ALA
28	D2	16	LEU
28	D2	36	ARG
29	D3	29	ARG
30	D4	44	THR

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Mol	Chain	Res	Type
31	D5	14	ALA
31	D5	58	LEU
33	D7	32	LYS
34	D8	13	ARG
34	D8	36	LYS
34	D8	64	TYR
57	DC	24	GLU
57	DC	51	PRO
57	DC	146	GLY
57	DC	153	ILE
57	DC	172	HIS
57	DC	183	GLU
57	DC	201	PRO
57	DC	211	SER
38	DD	89	SER
38	DD	115	GLN
38	DD	157	ARG
38	DD	214	TRP
39	DE	43	GLY
39	DE	44	TYR
39	DE	60	ASN
39	DE	113	PHE
39	DE	162	ALA
39	DE	180	ASN
40	DF	14	PRO
40	DF	33	LEU
40	DF	61	GLY
40	DF	90	PHE
40	DF	102	PRO
40	DF	115	ALA
40	DF	132	VAL
40	DF	133	ASN
41	DG	14	GLU
41	DG	175	LEU
42	DH	39	PRO
42	DH	134	SER
42	DH	152	ARG
42	DH	153	LYS
42	DH	154	PRO
43	DI	14	ASP
43	DI	40	THR
43	DI	85	GLU

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Mol	Chain	Res	Type
43	DI	104	GLN
43	DI	115	ALA
43	DI	120	ILE
44	DN	18	ALA
44	DN	46	VAL
44	DN	57	ALA
44	DN	80	GLY
44	DN	129	PRO
45	DO	27	GLY
45	DO	36	GLY
45	DO	45	GLU
45	DO	55	GLY
45	DO	68	GLU
45	DO	90	GLN
46	DP	12	ALA
46	DP	110	TYR
46	DP	120	ALA
46	DP	129	ALA
46	DP	141	ALA
47	DQ	24	GLY
47	DQ	52	VAL
47	DQ	59	ARG
47	DQ	60	ARG
47	DQ	78	PRO
47	DQ	105	GLU
47	DQ	115	MET
47	DQ	140	ALA
48	DR	5	LYS
48	DR	13	HIS
48	DR	17	ARG
48	DR	50	HIS
48	DR	60	LEU
48	DR	63	ARG
48	DR	88	ARG
48	DR	105	ARG
48	DR	107	ASP
49	DS	43	GLU
49	DS	53	SER
49	DS	54	LEU
49	DS	61	ASN
49	DS	73	LEU
49	DS	78	LEU

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Mol	Chain	Res	Type
49	DS	85	VAL
50	DT	4	GLY
50	DT	25	GLY
50	DT	129	ARG
50	DT	131	ALA
51	DU	52	ARG
51	DU	83	LEU
51	DU	92	ARG
51	DU	99	ALA
52	DV	40	LEU
52	DV	42	GLY
52	DV	43	GLU
52	DV	48	GLY
52	DV	53	GLU
52	DV	90	PRO
53	DW	14	PRO
53	DW	66	GLU
53	DW	67	ASP
54	DX	7	VAL
54	DX	72	LYS
54	DX	89	ILE
55	DY	8	LYS
55	DY	23	ARG
55	DY	29	GLU
55	DY	31	LEU
55	DY	40	GLU
55	DY	99	CYS
56	DZ	31	ARG
56	DZ	46	LYS
56	DZ	62	PRO
56	DZ	77	ASP
56	DZ	165	VAL
2	AB	97	TRP
2	AB	175	ARG
2	AB	217	ARG
3	AC	41	GLY
3	AC	179	ARG
4	AD	129	ASN
4	AD	142	PRO
5	AE	21	ALA
5	AE	70	PRO
5	AE	147	ASP

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Mol	Chain	Res	Type
5	AE	154	GLY
6	AF	12	PRO
6	AF	22	GLU
6	AF	43	LEU
7	AG	58	PRO
7	AG	66	VAL
7	AG	104	LEU
7	AG	111	ARG
7	AG	119	ARG
7	AG	131	LYS
8	AH	54	ASP
9	AI	61	ALA
9	AI	89	ASN
9	AI	106	ALA
10	AJ	51	ARG
11	AK	18	ARG
11	AK	66	LEU
11	AK	72	ALA
12	AL	105	TYR
13	AM	46	LYS
15	AO	29	VAL
16	AP	7	ALA
16	AP	29	ASP
16	AP	61	SER
16	AP	65	GLN
17	AQ	17	LYS
17	AQ	98	LEU
20	AT	24	LEU
20	AT	57	ARG
20	AT	65	LYS
25	AY	19	GLU
25	AY	171	LYS
25	AY	175	LEU
27	B1	12	PRO
27	B1	13	ILE
27	B1	85	LEU
28	B2	28	LYS
28	B2	43	GLN
30	B4	18	CYS
30	B4	40	HIS
31	B5	14	ALA
32	B6	23	THR

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Mol	Chain	Res	Type
32	B6	28	ARG
33	B7	11	LYS
33	B7	33	ARG
34	B8	17	THR
34	B8	42	ARG
37	BC	73	ARG
37	BC	92	ASP
37	BC	151	GLU
37	BC	175	VAL
37	BC	185	LEU
37	BC	218	MET
38	BD	140	THR
38	BD	147	LEU
38	BD	211	ARG
39	BE	17	ASP
39	BE	64	LYS
39	BE	130	GLY
40	BF	38	ARG
40	BF	84	VAL
40	BF	90	PHE
40	BF	102	PRO
40	BF	146	ALA
41	BG	26	GLN
41	BG	107	LEU
41	BG	173	LEU
41	BG	177	GLY
42	BH	15	VAL
42	BH	81	GLU
42	BH	98	LEU
42	BH	134	SER
42	BH	150	ALA
43	BI	14	ASP
43	BI	42	SER
43	BI	70	GLU
43	BI	75	LEU
43	BI	115	ALA
43	BI	132	PRO
44	BN	15	LEU
44	BN	56	ASN
44	BN	94	HIS
45	BO	5	GLN
45	BO	55	GLY

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Mol	Chain	Res	Type
45	BO	108	GLU
45	BO	110	GLY
45	BO	120	GLU
46	BP	109	GLY
47	BQ	13	GLN
47	BQ	54	MET
48	BR	13	HIS
48	BR	63	ARG
48	BR	81	ASP
48	BR	102	GLU
49	BS	66	ALA
49	BS	88	ASP
50	BT	4	GLY
50	BT	55	ASN
50	BT	91	ARG
50	BT	95	ARG
50	BT	129	ARG
51	BU	52	ARG
51	BU	90	VAL
51	BU	99	ALA
52	BV	32	THR
52	BV	90	PRO
53	BW	2	GLU
53	BW	67	ASP
54	BX	48	LYS
54	BX	50	LYS
54	BX	72	LYS
55	BY	8	LYS
55	BY	11	ASP
55	BY	17	SER
55	BY	21	LYS
55	BY	87	LYS
56	BZ	49	ARG
56	BZ	56	VAL
56	BZ	108	PRO
56	BZ	178	GLU
2	CB	205	ASP
3	CC	41	GLY
3	CC	45	LYS
4	CD	40	PRO
4	CD	43	HIS
4	CD	142	PRO

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Mol	Chain	Res	Type
4	CD	153	ARG
5	CE	21	ALA
5	CE	70	PRO
5	CE	147	ASP
5	CE	154	GLY
6	CF	12	PRO
6	CF	43	LEU
6	CF	86	ARG
7	CG	58	PRO
7	CG	66	VAL
7	CG	77	SER
7	CG	104	LEU
7	CG	111	ARG
7	CG	136	LYS
8	CH	54	ASP
8	CH	63	LEU
8	CH	68	ARG
9	CI	61	ALA
9	CI	89	ASN
9	CI	106	ALA
10	CJ	51	ARG
11	CK	72	ALA
12	CL	46	LYS
12	CL	105	TYR
13	CM	46	LYS
13	CM	81	LEU
15	CO	37	ASN
15	CO	88	ARG
16	CP	7	ALA
16	CP	29	ASP
16	CP	65	GLN
16	CP	83	GLU
17	CQ	98	LEU
20	CT	12	ALA
20	CT	22	ARG
20	CT	24	LEU
20	CT	65	LYS
20	CT	96	GLY
25	CY	12	SER
25	CY	16	LYS
25	CY	17	SER
25	CY	18	LEU

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Mol	Chain	Res	Type
25	CY	54	GLN
25	CY	84	ARG
25	CY	88	LEU
25	CY	108	GLU
25	CY	112	LYS
25	CY	121	TYR
25	CY	140	LEU
25	CY	158	GLU
25	CY	164	ILE
25	CY	172	ALA
27	D1	27	GLU
27	D1	70	VAL
30	D4	40	HIS
31	D5	20	ARG
32	D6	23	THR
32	D6	28	ARG
34	D8	17	THR
34	D8	47	LYS
34	D8	50	LEU
34	D8	51	ALA
57	DC	70	LYS
57	DC	92	ASP
57	DC	151	GLU
57	DC	175	VAL
57	DC	185	LEU
57	DC	214	VAL
57	DC	218	MET
38	DD	140	THR
38	DD	211	ARG
38	DD	256	GLY
39	DE	17	ASP
39	DE	64	LYS
39	DE	130	GLY
40	DF	64	ILE
40	DF	84	VAL
40	DF	146	ALA
40	DF	164	ARG
40	DF	179	GLU
41	DG	35	GLU
41	DG	43	LEU
41	DG	45	GLU
41	DG	49	ASP

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Mol	Chain	Res	Type
41	DG	117	PHE
42	DH	15	VAL
42	DH	81	GLU
42	DH	98	LEU
42	DH	148	ILE
42	DH	150	ALA
43	DI	6	LEU
43	DI	70	GLU
43	DI	75	LEU
43	DI	76	THR
43	DI	132	PRO
44	DN	15	LEU
44	DN	28	THR
44	DN	56	ASN
44	DN	94	HIS
45	DO	5	GLN
45	DO	108	GLU
45	DO	110	GLY
45	DO	114	ILE
46	DP	33	ARG
46	DP	52	GLU
46	DP	109	GLY
47	DQ	8	LYS
47	DQ	54	MET
48	DR	81	ASP
48	DR	102	GLU
49	DS	66	ALA
49	DS	88	ASP
49	DS	97	ARG
50	DT	23	ARG
50	DT	55	ASN
50	DT	91	ARG
50	DT	117	ASP
51	DU	71	GLN
51	DU	88	ILE
51	DU	91	ASP
52	DV	32	THR
52	DV	82	ARG
53	DW	18	ARG
54	DX	15	GLU
54	DX	48	LYS
55	DY	11	ASP

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Mol	Chain	Res	Type
55	DY	17	SER
55	DY	19	LYS
55	DY	26	LYS
55	DY	39	VAL
55	DY	87	LYS
56	DZ	51	ALA
56	DZ	138	GLU
56	DZ	139	VAL
56	DZ	140	ASP
2	AB	46	LYS
2	AB	131	PRO
2	AB	205	ASP
3	AC	9	GLY
3	AC	45	LYS
3	AC	109	PRO
4	AD	39	PRO
4	AD	40	PRO
4	AD	102	ASP
5	AE	128	PRO
6	AF	86	ARG
7	AG	23	VAL
7	AG	49	ILE
7	AG	77	SER
7	AG	96	GLN
7	AG	103	TRP
7	AG	136	LYS
8	AH	87	SER
9	AI	57	GLY
11	AK	128	ALA
12	AL	9	GLN
13	AM	37	THR
13	AM	108	ARG
14	AN	7	ILE
15	AO	21	ASP
15	AO	38	ARG
15	AO	88	ARG
16	AP	2	VAL
16	AP	14	ASN
17	AQ	68	ARG
18	AR	72	ARG
19	AS	73	GLU
20	AT	22	ARG

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Mol	Chain	Res	Type
20	AT	33	ILE
20	AT	34	LYS
20	AT	56	MET
25	AY	32	ARG
25	AY	49	HIS
25	AY	82	ALA
25	AY	104	PRO
26	B0	57	PHE
26	B0	83	PRO
28	B2	61	LEU
33	B7	35	ARG
34	B8	50	LEU
37	BC	55	ASP
37	BC	64	LEU
37	BC	70	LYS
37	BC	169	GLY
37	BC	209	LEU
38	BD	157	ARG
38	BD	256	GLY
39	BE	113	PHE
39	BE	149	ARG
40	BF	164	ARG
40	BF	177	ALA
41	BG	10	LYS
41	BG	56	ALA
41	BG	69	ALA
41	BG	105	LYS
42	BH	110	SER
43	BI	76	THR
44	BN	28	THR
45	BO	79	PHE
46	BP	52	GLU
46	BP	59	LEU
46	BP	71	VAL
46	BP	115	LEU
47	BQ	8	LYS
47	BQ	50	ALA
48	BR	32	GLY
48	BR	39	PRO
48	BR	40	LYS
49	BS	19	LYS
49	BS	57	LYS

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Mol	Chain	Res	Type
50	BT	117	ASP
51	BU	71	GLN
51	BU	111	GLU
52	BV	58	VAL
52	BV	74	LYS
53	BW	15	ARG
53	BW	44	ALA
53	BW	45	TYR
53	BW	110	LYS
54	BX	15	GLU
54	BX	38	GLU
54	BX	85	PRO
55	BY	50	ARG
55	BY	77	PRO
56	BZ	5	LEU
56	BZ	18	LEU
2	CB	25	ASN
2	CB	97	TRP
2	CB	131	PRO
2	CB	175	ARG
2	CB	217	ARG
3	CC	9	GLY
3	CC	109	PRO
5	CE	128	PRO
6	CF	22	GLU
7	CG	23	VAL
7	CG	49	ILE
7	CG	103	TRP
9	CI	57	GLY
11	CK	128	ALA
12	CL	61	THR
13	CM	47	ASP
13	CM	108	ARG
15	CO	21	ASP
15	CO	29	VAL
15	CO	38	ARG
15	CO	64	ARG
16	CP	2	VAL
16	CP	61	SER
18	CR	27	GLY
19	CS	73	GLU
20	CT	23	ARG

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Mol	Chain	Res	Type
20	CT	33	ILE
20	CT	56	MET
20	CT	79	ARG
25	CY	7	TYR
25	CY	122	ALA
25	CY	159	ALA
25	CY	162	GLN
25	CY	163	LYS
26	D0	57	PHE
26	D0	83	PRO
27	D1	58	ILE
27	D1	59	THR
30	D4	18	CYS
31	D5	3	LYS
33	D7	7	PRO
33	D7	11	LYS
33	D7	19	ARG
57	DC	55	ASP
57	DC	64	LEU
57	DC	73	ARG
57	DC	169	GLY
57	DC	209	LEU
38	DD	147	LEU
38	DD	170	GLY
39	DE	69	LYS
39	DE	72	VAL
39	DE	149	ARG
40	DF	177	ALA
41	DG	101	ILE
41	DG	133	LEU
41	DG	138	GLN
43	DI	42	SER
43	DI	87	LYS
43	DI	119	PRO
44	DN	40	PRO
45	DO	43	VAL
45	DO	79	PHE
46	DP	59	LEU
46	DP	76	LYS
46	DP	115	LEU
47	DQ	21	THR
47	DQ	50	ALA

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Mol	Chain	Res	Type
48	DR	32	GLY
49	DS	19	LYS
49	DS	57	LYS
50	DT	95	ARG
51	DU	54	LYS
51	DU	61	TRP
51	DU	90	VAL
52	DV	58	VAL
52	DV	74	LYS
53	DW	2	GLU
53	DW	65	LEU
54	DX	50	LYS
55	DY	50	ARG
55	DY	77	PRO
56	DZ	22	GLY
56	DZ	32	HIS
56	DZ	63	ASP
56	DZ	104	PHE
56	DZ	177	PRO
2	AB	25	ASN
3	AC	8	ILE
3	AC	15	THR
3	AC	81	GLY
5	AE	77	PRO
8	AH	49	GLU
8	AH	76	PRO
9	AI	34	ASN
13	AM	6	GLY
13	AM	32	GLU
13	AM	116	THR
14	AN	56	VAL
15	AO	64	ARG
18	AR	27	GLY
20	AT	23	ARG
20	AT	79	ARG
25	AY	70	SER
31	B5	28	PRO
31	B5	38	ALA
38	BD	170	GLY
38	BD	242	ARG
39	BE	69	LYS
39	BE	72	VAL

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Mol	Chain	Res	Type
39	BE	98	PRO
40	BF	83	PHE
41	BG	15	VAL
41	BG	142	PRO
42	BH	93	GLY
43	BI	87	LYS
43	BI	119	PRO
44	BN	40	PRO
44	BN	125	GLY
46	BP	26	GLY
46	BP	76	LYS
46	BP	106	LEU
47	BQ	10	ARG
47	BQ	52	VAL
47	BQ	56	ARG
48	BR	73	VAL
49	BS	103	GLU
50	BT	82	LEU
51	BU	54	LYS
51	BU	61	TRP
52	BV	3	ALA
52	BV	9	GLY
53	BW	65	LEU
55	BY	26	LYS
55	BY	81	LYS
56	BZ	37	VAL
56	BZ	106	GLY
2	CB	177	ALA
2	CB	211	ILE
3	CC	8	ILE
3	CC	15	THR
3	CC	43	LEU
3	CC	81	GLY
3	CC	173	VAL
4	CD	39	PRO
5	CE	76	ILE
5	CE	77	PRO
7	CG	96	GLN
8	CH	30	ARG
8	CH	76	PRO
8	CH	87	SER
9	CI	34	ASN

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Mol	Chain	Res	Type
9	CI	126	SER
12	CL	9	GLN
12	CL	13	LYS
12	CL	101	VAL
13	CM	6	GLY
13	CM	37	THR
14	CN	56	VAL
16	CP	14	ASN
17	CQ	68	ARG
25	CY	31	GLY
25	CY	92	PRO
30	D4	36	CYS
31	D5	24	ALA
31	D5	28	PRO
32	D6	51	GLU
39	DE	134	ILE
40	DF	38	ARG
40	DF	83	PHE
41	DG	24	GLY
41	DG	74	LYS
41	DG	171	ALA
42	DH	93	GLY
44	DN	125	GLY
45	DO	63	VAL
46	DP	71	VAL
46	DP	106	LEU
47	DQ	13	GLN
48	DR	39	PRO
48	DR	73	VAL
51	DU	112	ARG
54	DX	38	GLU
54	DX	85	PRO
55	DY	21	LYS
55	DY	81	LYS
2	AB	130	ARG
3	AC	55	VAL
3	AC	173	VAL
4	AD	178	VAL
9	AI	98	PRO
11	AK	49	GLY
12	AL	101	VAL
27	B1	79	GLY

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Mol	Chain	Res	Type
30	B4	19	GLY
34	B8	20	GLY
37	BC	143	GLY
38	BD	118	VAL
38	BD	244	ARG
38	BD	246	PRO
42	BH	127	GLU
43	BI	84	GLY
45	BO	63	VAL
48	BR	106	GLY
52	BV	99	ILE
56	BZ	82	ARG
2	CB	130	ARG
3	CC	55	VAL
4	CD	95	GLY
4	CD	178	VAL
9	CI	98	PRO
11	CK	49	GLY
30	D4	19	GLY
34	D8	20	GLY
57	DC	143	GLY
57	DC	200	LYS
38	DD	10	THR
38	DD	118	VAL
38	DD	244	ARG
39	DE	34	VAL
39	DE	98	PRO
40	DF	171	PRO
41	DG	39	ILE
41	DG	67	LYS
46	DP	26	GLY
52	DV	9	GLY
52	DV	99	ILE
56	DZ	116	VAL
2	AB	211	ILE
3	AC	108	ASN
7	AG	88	PRO
27	B1	31	GLY
31	B5	47	PRO
33	B7	7	PRO
37	BC	19	VAL
37	BC	181	PRO

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Mol	Chain	Res	Type
37	BC	200	LYS
38	BD	10	THR
39	BE	34	VAL
39	BE	134	ILE
45	BO	43	VAL
49	BS	60	GLY
55	BY	37	VAL
56	BZ	22	GLY
3	CC	108	ASN
4	CD	56	VAL
6	CF	67	MET
9	CI	108	VAL
11	CK	115	PRO
14	CN	7	ILE
57	DC	19	VAL
57	DC	181	PRO
38	DD	246	PRO
42	DH	29	PRO
42	DH	127	GLU
43	DI	84	GLY
48	DR	106	GLY
49	DS	60	GLY
53	DW	26	GLY
55	DY	37	VAL
4	AD	148	VAL
7	AG	17	VAL
8	AH	128	GLY
9	AI	108	VAL
10	AJ	24	VAL
25	AY	35	PRO
27	B1	68	PRO
37	BC	180	PHE
39	BE	39	PRO
40	BF	171	PRO
41	BG	77	ILE
42	BH	29	PRO
46	BP	43	GLY
48	BR	85	PRO
49	BS	28	VAL
53	BW	26	GLY
7	CG	17	VAL
7	CG	88	PRO

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Mol	Chain	Res	Type
10	CJ	24	VAL
27	D1	28	GLY
30	D4	15	ILE
31	D5	47	PRO
57	DC	132	ALA
57	DC	180	PHE
39	DE	39	PRO
41	DG	149	VAL
46	DP	97	PRO
49	DS	28	VAL
49	DS	104	GLY
54	DX	31	HIS
56	DZ	82	ARG
56	DZ	167	PRO
4	AD	8	VAL
5	AE	76	ILE
6	AF	67	MET
8	AH	51	VAL
11	AK	115	PRO
15	AO	86	GLY
27	B1	70	VAL
30	B4	15	ILE
32	B6	41	PRO
38	BD	152	GLY
41	BG	92	VAL
42	BH	22	GLY
43	BI	23	PRO
43	BI	127	VAL
45	BO	101	PRO
46	BP	37	GLY
46	BP	97	PRO
49	BS	104	GLY
52	BV	70	ILE
53	BW	59	VAL
54	BX	31	HIS
55	BY	53	PRO
56	BZ	68	PRO
2	CB	230	VAL
4	CD	148	VAL
8	CH	51	VAL
8	CH	128	GLY
10	CJ	93	GLY

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Mol	Chain	Res	Type
25	CY	61	PRO
28	D2	42	GLY
33	D7	17	GLY
39	DE	116	VAL
40	DF	81	PRO
41	DG	89	GLY
45	DO	101	PRO
46	DP	43	GLY
47	DQ	127	ILE
48	DR	85	PRO
52	DV	70	ILE
53	DW	59	VAL
55	DY	10	GLY
55	DY	53	PRO
48	BR	46	GLY
50	BT	88	ILE
53	BW	20	VAL
4	CD	8	VAL
38	DD	152	GLY
43	DI	127	VAL

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%)	177 (88%)	25 (12%)	7	35
2	CB	202/220 (92%)	177 (88%)	25 (12%)	7	35
3	AC	160/188 (85%)	142 (89%)	18 (11%)	9	40
3	CC	160/188 (85%)	142 (89%)	18 (11%)	9	40
4	AD	180/181 (99%)	155 (86%)	25 (14%)	5	29
4	CD	180/181 (99%)	156 (87%)	24 (13%)	6	31
5	AE	115/123 (94%)	99 (86%)	16 (14%)	5	29
5	CE	115/123 (94%)	99 (86%)	16 (14%)	5	29
6	AF	90/90 (100%)	86 (96%)	4 (4%)	39	83
6	CF	90/90 (100%)	86 (96%)	4 (4%)	39	83

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
7	AG	126/127 (99%)	118 (94%)	8 (6%)	25	73
7	CG	126/127 (99%)	116 (92%)	10 (8%)	18	62
8	AH	119/119 (100%)	108 (91%)	11 (9%)	13	53
8	CH	119/119 (100%)	108 (91%)	11 (9%)	13	53
9	AI	98/99 (99%)	83 (85%)	15 (15%)	4	25
9	CI	98/99 (99%)	85 (87%)	13 (13%)	6	31
10	AJ	88/92 (96%)	81 (92%)	7 (8%)	17	61
10	CJ	88/92 (96%)	81 (92%)	7 (8%)	17	61
11	AK	90/99 (91%)	80 (89%)	10 (11%)	9	42
11	CK	90/99 (91%)	81 (90%)	9 (10%)	11	49
12	AL	104/111 (94%)	91 (88%)	13 (12%)	7	35
12	CL	104/111 (94%)	93 (89%)	11 (11%)	10	45
13	AM	99/101 (98%)	92 (93%)	7 (7%)	21	67
13	CM	99/101 (98%)	92 (93%)	7 (7%)	21	67
14	AN	49/50 (98%)	45 (92%)	4 (8%)	17	60
14	CN	49/50 (98%)	45 (92%)	4 (8%)	17	60
15	AO	79/80 (99%)	71 (90%)	8 (10%)	11	48
15	CO	79/80 (99%)	70 (89%)	9 (11%)	8	40
16	AP	72/74 (97%)	61 (85%)	11 (15%)	4	25
16	CP	72/74 (97%)	61 (85%)	11 (15%)	4	25
17	AQ	94/97 (97%)	88 (94%)	6 (6%)	25	72
17	CQ	94/97 (97%)	88 (94%)	6 (6%)	25	72
18	AR	61/77 (79%)	56 (92%)	5 (8%)	17	60
18	CR	61/77 (79%)	55 (90%)	6 (10%)	12	50
19	AS	69/80 (86%)	57 (83%)	12 (17%)	3	17
19	CS	69/80 (86%)	56 (81%)	13 (19%)	2	13
20	AT	76/82 (93%)	65 (86%)	11 (14%)	5	27
20	CT	76/82 (93%)	65 (86%)	11 (14%)	5	27
21	AU	19/22 (86%)	18 (95%)	1 (5%)	32	78
21	CU	19/22 (86%)	18 (95%)	1 (5%)	32	78
25	AY	157/157 (100%)	135 (86%)	22 (14%)	5	28

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
25	CY	157/157 (100%)	142 (90%)	15 (10%)	12	51
26	B0	61/67 (91%)	57 (93%)	4 (7%)	24	71
26	D0	61/67 (91%)	57 (93%)	4 (7%)	24	71
27	B1	73/83 (88%)	54 (74%)	19 (26%)	1	5
27	D1	73/83 (88%)	50 (68%)	23 (32%)	0	3
28	B2	46/67 (69%)	31 (67%)	15 (33%)	0	3
28	D2	46/67 (69%)	34 (74%)	12 (26%)	1	5
29	B3	51/52 (98%)	48 (94%)	3 (6%)	28	75
29	D3	51/52 (98%)	48 (94%)	3 (6%)	28	75
31	B5	51/52 (98%)	42 (82%)	9 (18%)	3	16
31	D5	51/52 (98%)	43 (84%)	8 (16%)	4	23
32	B6	43/52 (83%)	34 (79%)	9 (21%)	1	10
32	D6	43/52 (83%)	34 (79%)	9 (21%)	1	10
33	B7	41/42 (98%)	34 (83%)	7 (17%)	3	18
33	D7	41/42 (98%)	34 (83%)	7 (17%)	3	18
34	B8	53/55 (96%)	45 (85%)	8 (15%)	4	25
34	D8	53/55 (96%)	45 (85%)	8 (15%)	4	25
37	BC	61/181 (34%)	56 (92%)	5 (8%)	17	60
38	BD	213/218 (98%)	186 (87%)	27 (13%)	6	33
38	DD	213/218 (98%)	186 (87%)	27 (13%)	6	33
39	BE	165/166 (99%)	142 (86%)	23 (14%)	5	29
39	DE	165/166 (99%)	141 (86%)	24 (14%)	5	27
40	BF	165/166 (99%)	142 (86%)	23 (14%)	5	29
40	DF	165/166 (99%)	142 (86%)	23 (14%)	5	29
41	BG	155/156 (99%)	137 (88%)	18 (12%)	8	39
41	DG	155/156 (99%)	127 (82%)	28 (18%)	2	15
42	BH	132/148 (89%)	115 (87%)	17 (13%)	6	33
42	DH	132/148 (89%)	116 (88%)	16 (12%)	7	36
43	BI	122/124 (98%)	103 (84%)	19 (16%)	4	23
43	DI	122/124 (98%)	103 (84%)	19 (16%)	4	23
44	BN	117/119 (98%)	100 (86%)	17 (14%)	5	27

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
44	DN	117/119 (98%)	99 (85%)	18 (15%)	4	24
45	BO	100/100 (100%)	80 (80%)	20 (20%)	2	11
45	DO	100/100 (100%)	79 (79%)	21 (21%)	1	9
46	BP	112/116 (97%)	84 (75%)	28 (25%)	1	6
46	DP	112/116 (97%)	84 (75%)	28 (25%)	1	6
47	BQ	106/111 (96%)	86 (81%)	20 (19%)	2	13
47	DQ	106/111 (96%)	88 (83%)	18 (17%)	3	18
48	BR	100/101 (99%)	80 (80%)	20 (20%)	2	11
48	DR	100/101 (99%)	80 (80%)	20 (20%)	2	11
49	BS	77/88 (88%)	63 (82%)	14 (18%)	2	14
49	DS	77/88 (88%)	62 (80%)	15 (20%)	2	12
50	BT	120/127 (94%)	89 (74%)	31 (26%)	1	5
50	DT	120/127 (94%)	89 (74%)	31 (26%)	1	5
51	BU	92/94 (98%)	80 (87%)	12 (13%)	6	33
51	DU	92/94 (98%)	81 (88%)	11 (12%)	7	37
52	BV	82/82 (100%)	68 (83%)	14 (17%)	3	18
52	DV	82/82 (100%)	68 (83%)	14 (17%)	3	18
53	BW	91/92 (99%)	78 (86%)	13 (14%)	5	28
53	DW	91/92 (99%)	78 (86%)	13 (14%)	5	28
54	BX	74/78 (95%)	59 (80%)	15 (20%)	2	11
54	DX	74/78 (95%)	58 (78%)	16 (22%)	1	9
55	BY	84/91 (92%)	63 (75%)	21 (25%)	1	6
55	DY	84/91 (92%)	63 (75%)	21 (25%)	1	6
56	BZ	155/179 (87%)	134 (86%)	21 (14%)	6	30
56	DZ	155/179 (87%)	124 (80%)	31 (20%)	2	11
57	DC	61/181 (34%)	57 (93%)	4 (7%)	24	71
All	All	9778/10552 (93%)	8384 (86%)	1394 (14%)	5	28

All (1394) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	AB	17	PHE
2	AB	22	LYS

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Mol	Chain	Res	Type
2	AB	31	TYR
2	AB	33	TYR
2	AB	44	LEU
2	AB	56	ARG
2	AB	67	THR
2	AB	69	LEU
2	AB	70	PHE
2	AB	75	LYS
2	AB	80	ILE
2	AB	96	ARG
2	AB	97	TRP
2	AB	98	LEU
2	AB	102	LEU
2	AB	108	ILE
2	AB	115	LEU
2	AB	116	GLU
2	AB	137	ARG
2	AB	140	HIS
2	AB	158	LEU
2	AB	178	ARG
2	AB	187	LEU
2	AB	212	GLN
2	AB	222	ILE
3	AC	5	ILE
3	AC	12	LEU
3	AC	16	ARG
3	AC	27	LYS
3	AC	37	GLN
3	AC	43	LEU
3	AC	52	LEU
3	AC	101	LEU
3	AC	104	GLN
3	AC	120	VAL
3	AC	127	ARG
3	AC	131	ARG
3	AC	156	ARG
3	AC	164	ARG
3	AC	165	THR
3	AC	166	GLU
3	AC	167	TRP
3	AC	181	ASN
4	AD	3	ARG

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Mol	Chain	Res	Type
4	AD	9	CYS
4	AD	21	LEU
4	AD	26	CYS
4	AD	31	CYS
4	AD	33	MET
4	AD	42	GLN
4	AD	53	ASP
4	AD	59	ARG
4	AD	79	PHE
4	AD	96	LEU
4	AD	97	LEU
4	AD	110	PHE
4	AD	120	LEU
4	AD	122	ARG
4	AD	131	ARG
4	AD	132	ARG
4	AD	138	TYR
4	AD	158	ILE
4	AD	170	VAL
4	AD	181	MET
4	AD	194	LEU
4	AD	196	LEU
4	AD	200	GLU
4	AD	202	LEU
5	AE	10	MET
5	AE	12	LEU
5	AE	16	THR
5	AE	20	GLN
5	AE	47	LYS
5	AE	60	TYR
5	AE	61	TYR
5	AE	68	GLU
5	AE	71	LEU
5	AE	73	ASN
5	AE	76	ILE
5	AE	90	VAL
5	AE	96	PRO
5	AE	101	ILE
5	AE	131	ILE
5	AE	149	GLU
6	AF	32	ASN
6	AF	75	LEU

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Mol	Chain	Res	Type
6	AF	98	LEU
6	AF	100	ASN
7	AG	14	PRO
7	AG	41	ARG
7	AG	54	THR
7	AG	57	GLU
7	AG	84	ASN
7	AG	111	ARG
7	AG	151	TYR
7	AG	156	TRP
8	AH	1	MET
8	AH	3	THR
8	AH	10	LEU
8	AH	18	ARG
8	AH	25	ASP
8	AH	35	ILE
8	AH	102	ARG
8	AH	119	LEU
8	AH	133	LEU
8	AH	136	GLU
8	AH	137	VAL
9	AI	4	TYR
9	AI	27	THR
9	AI	63	ILE
9	AI	66	ARG
9	AI	78	LYS
9	AI	89	ASN
9	AI	95	LYS
9	AI	101	PHE
9	AI	104	ARG
9	AI	108	VAL
9	AI	113	LYS
9	AI	114	TYR
9	AI	121	ARG
9	AI	125	TYR
9	AI	128	ARG
10	AJ	16	LEU
10	AJ	22	LYS
10	AJ	47	PHE
10	AJ	50	ILE
10	AJ	62	HIS
10	AJ	84	GLN

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Mol	Chain	Res	Type
10	AJ	96	ILE
11	AK	18	ARG
11	AK	21	ILE
11	AK	48	ILE
11	AK	91	ARG
11	AK	103	LEU
11	AK	105	VAL
11	AK	117	ASN
11	AK	125	PHE
11	AK	126	ARG
11	AK	127	LYS
12	AL	19	ARG
12	AL	20	LYS
12	AL	21	LYS
12	AL	41	ARG
12	AL	48	PRO
12	AL	49	ASN
12	AL	53	ARG
12	AL	66	VAL
12	AL	70	ILE
12	AL	79	GLU
12	AL	84	LEU
12	AL	89	ARG
12	AL	102	ARG
13	AM	47	ASP
13	AM	48	LEU
13	AM	64	TRP
13	AM	82	MET
13	AM	93	ARG
13	AM	108	ARG
13	AM	120	LYS
14	AN	16	PHE
14	AN	26	ARG
14	AN	29	ARG
14	AN	61	TRP
15	AO	4	THR
15	AO	6	GLU
15	AO	10	LYS
15	AO	35	ARG
15	AO	46	HIS
15	AO	47	LYS
15	AO	65	ARG

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Mol	Chain	Res	Type
15	AO	82	ILE
16	AP	1	MET
16	AP	6	LEU
16	AP	26	ARG
16	AP	27	LYS
16	AP	29	ASP
16	AP	38	TYR
16	AP	39	TYR
16	AP	48	TRP
16	AP	69	THR
16	AP	73	LEU
16	AP	82	GLN
17	AQ	36	ILE
17	AQ	55	ASP
17	AQ	56	VAL
17	AQ	78	GLU
17	AQ	81	ARG
17	AQ	89	LEU
18	AR	29	PHE
18	AR	31	LEU
18	AR	46	GLU
18	AR	58	LEU
18	AR	74	ARG
19	AS	5	LEU
19	AS	6	LYS
19	AS	13	ASP
19	AS	27	GLU
19	AS	34	TRP
19	AS	37	ARG
19	AS	43	GLU
19	AS	44	MET
19	AS	49	ILE
19	AS	53	ASN
19	AS	70	LYS
19	AS	78	ARG
20	AT	8	ARG
20	AT	13	LEU
20	AT	24	LEU
20	AT	26	ASN
20	AT	57	ARG
20	AT	62	LEU
20	AT	71	THR

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Mol	Chain	Res	Type
20	AT	73	HIS
20	AT	74	LYS
20	AT	93	GLU
20	AT	100	ILE
21	AU	24	ARG
25	AY	13	HIS
25	AY	20	VAL
25	AY	29	ARG
25	AY	41	LEU
25	AY	44	GLU
25	AY	53	ASN
25	AY	55	ILE
25	AY	64	ARG
25	AY	76	LEU
25	AY	91	ASN
25	AY	101	ILE
25	AY	103	ILE
25	AY	113	ASP
25	AY	130	ARG
25	AY	138	ASP
25	AY	142	LYS
25	AY	150	SER
25	AY	152	ASP
25	AY	164	ILE
25	AY	168	PHE
25	AY	169	ILE
25	AY	174	GLN
26	B0	20	ARG
26	B0	38	VAL
26	B0	44	ARG
26	B0	64	ASP
27	B1	19	GLN
27	B1	20	ARG
27	B1	21	ARG
27	B1	26	ARG
27	B1	34	THR
27	B1	39	LYS
27	B1	46	LEU
27	B1	47	GLN
27	B1	48	LYS
27	B1	53	VAL
27	B1	56	GLN

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Mol	Chain	Res	Type
27	B1	58	ILE
27	B1	59	THR
27	B1	62	VAL
27	B1	69	LYS
27	B1	78	LYS
27	B1	87	PRO
27	B1	89	GLU
27	B1	94	LEU
28	B2	14	ARG
28	B2	16	LEU
28	B2	17	SER
28	B2	22	GLU
28	B2	26	ARG
28	B2	27	GLU
28	B2	30	ARG
28	B2	32	LEU
28	B2	33	MET
28	B2	44	LEU
28	B2	46	GLN
28	B2	47	ASN
28	B2	51	ARG
28	B2	56	GLN
28	B2	57	ILE
29	B3	8	LEU
29	B3	26	LEU
29	B3	31	LEU
31	B5	3	LYS
31	B5	4	HIS
31	B5	5	PRO
31	B5	22	HIS
31	B5	32	PRO
31	B5	43	HIS
31	B5	48	GLU
31	B5	56	LYS
31	B5	58	LEU
32	B6	10	LEU
32	B6	20	ASN
32	B6	31	PRO
32	B6	35	GLU
32	B6	37	ARG
32	B6	42	TRP
32	B6	43	CYS

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Mol	Chain	Res	Type
32	B6	44	ARG
32	B6	51	GLU
33	B7	8	ASN
33	B7	24	THR
33	B7	36	GLN
33	B7	43	THR
33	B7	44	PRO
33	B7	46	VAL
33	B7	48	LYS
34	B8	31	HIS
34	B8	40	GLU
34	B8	44	LYS
34	B8	46	ARG
34	B8	48	PHE
34	B8	52	LYS
34	B8	60	LEU
34	B8	64	TYR
37	BC	36	LYS
37	BC	37	PHE
37	BC	49	ILE
37	BC	64	LEU
37	BC	66	HIS
38	BD	5	LYS
38	BD	10	THR
38	BD	14	ARG
38	BD	15	PHE
38	BD	24	ILE
38	BD	26	LYS
38	BD	31	LYS
38	BD	46	GLN
38	BD	71	ASP
38	BD	91	ARG
38	BD	94	LEU
38	BD	95	LEU
38	BD	96	HIS
38	BD	131	LEU
38	BD	135	PHE
38	BD	166	GLN
38	BD	173	VAL
38	BD	189	CYS
38	BD	190	TYR
38	BD	198	ASN

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Mol	Chain	Res	Type
38	BD	211	ARG
38	BD	221	VAL
38	BD	228	PRO
38	BD	241	PRO
38	BD	255	LYS
38	BD	261	LYS
38	BD	271	ILE
39	BE	21	VAL
39	BE	44	TYR
39	BE	61	ARG
39	BE	64	LYS
39	BE	67	PHE
39	BE	69	LYS
39	BE	78	LEU
39	BE	79	ARG
39	BE	113	PHE
39	BE	118	LYS
39	BE	119	ARG
39	BE	122	PHE
39	BE	127	ASP
39	BE	134	ILE
39	BE	141	ILE
39	BE	143	ASN
39	BE	178	GLU
39	BE	181	LEU
39	BE	183	LEU
39	BE	184	VAL
39	BE	192	ASN
39	BE	202	LYS
39	BE	203	LYS
40	BF	6	VAL
40	BF	23	ASP
40	BF	24	LEU
40	BF	28	ILE
40	BF	46	ARG
40	BF	50	SER
40	BF	53	THR
40	BF	56	GLU
40	BF	65	TRP
40	BF	66	PRO
40	BF	67	GLN
40	BF	70	THR

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Mol	Chain	Res	Type
40	BF	74	ARG
40	BF	77	ASP
40	BF	104	LYS
40	BF	112	MET
40	BF	116	ASP
40	BF	136	THR
40	BF	164	ARG
40	BF	169	ASN
40	BF	197	ASP
40	BF	201	VAL
40	BF	202	PHE
41	BG	22	ARG
41	BG	33	ARG
41	BG	43	LEU
41	BG	45	GLU
41	BG	51	ARG
41	BG	60	LEU
41	BG	64	THR
41	BG	77	ILE
41	BG	87	PRO
41	BG	106	LEU
41	BG	125	PHE
41	BG	133	LEU
41	BG	136	ARG
41	BG	139	LEU
41	BG	147	ASP
41	BG	159	VAL
41	BG	170	ARG
41	BG	174	GLU
42	BH	41	MET
42	BH	53	GLU
42	BH	61	HIS
42	BH	68	THR
42	BH	83	TYR
42	BH	86	GLU
42	BH	89	ILE
42	BH	105	LEU
42	BH	123	PHE
42	BH	136	ILE
42	BH	143	GLN
42	BH	153	LYS
42	BH	157	TYR

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Mol	Chain	Res	Type
42	BH	158	HIS
42	BH	159	GLU
42	BH	163	TYR
42	BH	170	ARG
43	BI	1	MET
43	BI	3	VAL
43	BI	5	LEU
43	BI	7	GLU
43	BI	10	GLU
43	BI	12	LEU
43	BI	25	TYR
43	BI	38	LEU
43	BI	51	ILE
43	BI	54	GLN
43	BI	64	GLU
43	BI	86	THR
43	BI	96	ASP
43	BI	118	LYS
43	BI	122	GLU
43	BI	123	LEU
43	BI	126	TYR
43	BI	130	TYR
43	BI	136	VAL
44	BN	4	TYR
44	BN	19	GLU
44	BN	34	LEU
44	BN	39	ARG
44	BN	42	TRP
44	BN	56	ASN
44	BN	62	VAL
44	BN	66	LYS
44	BN	82	LEU
44	BN	87	LEU
44	BN	94	HIS
44	BN	99	LEU
44	BN	109	LYS
44	BN	123	TYR
44	BN	127	ASP
44	BN	128	HIS
44	BN	131	GLN
45	BO	1	MET
45	BO	7	TYR

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Mol	Chain	Res	Type
45	BO	9	GLU
45	BO	19	ILE
45	BO	24	VAL
45	BO	25	LEU
45	BO	32	TYR
45	BO	39	ILE
45	BO	45	GLU
45	BO	47	ILE
45	BO	48	PRO
45	BO	69	ILE
45	BO	73	ASP
45	BO	80	ASP
45	BO	82	ASN
45	BO	86	ILE
45	BO	87	ILE
45	BO	91	LEU
45	BO	102	VAL
45	BO	115	VAL
46	BP	6	LEU
46	BP	13	ASN
46	BP	16	ARG
46	BP	18	ARG
46	BP	21	ARG
46	BP	32	THR
46	BP	35	HIS
46	BP	50	ARG
46	BP	59	LEU
46	BP	61	ARG
46	BP	62	LEU
46	BP	71	VAL
46	BP	75	ILE
46	BP	85	LEU
46	BP	91	PHE
46	BP	101	VAL
46	BP	107	LYS
46	BP	110	TYR
46	BP	112	LEU
46	BP	115	LEU
46	BP	122	PRO
46	BP	123	LEU
46	BP	125	VAL
46	BP	130	PHE

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Mol	Chain	Res	Type
46	BP	138	LEU
46	BP	144	GLU
46	BP	147	LEU
46	BP	148	LEU
47	BQ	9	TYR
47	BQ	17	LEU
47	BQ	22	LYS
47	BQ	26	TYR
47	BQ	29	PHE
47	BQ	43	THR
47	BQ	55	VAL
47	BQ	57	HIS
47	BQ	68	ILE
47	BQ	79	LEU
47	BQ	80	GLU
47	BQ	82	ARG
47	BQ	83	MET
47	BQ	87	LYS
47	BQ	91	GLU
47	BQ	106	VAL
47	BQ	119	ARG
47	BQ	127	ILE
47	BQ	131	ILE
47	BQ	137	TYR
48	BR	2	ARG
48	BR	3	HIS
48	BR	5	LYS
48	BR	13	HIS
48	BR	18	LEU
48	BR	20	LEU
48	BR	29	LEU
48	BR	44	LEU
48	BR	49	ASP
48	BR	60	LEU
48	BR	65	LEU
48	BR	71	GLN
48	BR	74	LYS
48	BR	75	LEU
48	BR	79	LEU
48	BR	99	LYS
48	BR	103	ARG
48	BR	104	ARG

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Mol	Chain	Res	Type
48	BR	113	LEU
48	BR	118	GLU
49	BS	11	LYS
49	BS	12	PHE
49	BS	13	ARG
49	BS	16	ASN
49	BS	36	TYR
49	BS	56	LEU
49	BS	61	ASN
49	BS	62	LYS
49	BS	71	ARG
49	BS	89	ARG
49	BS	92	TYR
49	BS	93	LYS
49	BS	95	HIS
49	BS	106	ARG
50	BT	1	MET
50	BT	3	ARG
50	BT	11	GLU
50	BT	12	SER
50	BT	13	ARG
50	BT	14	TYR
50	BT	22	PHE
50	BT	28	VAL
50	BT	29	ARG
50	BT	38	ASN
50	BT	41	ARG
50	BT	44	ASP
50	BT	53	ARG
50	BT	58	ASN
50	BT	63	VAL
50	BT	65	LYS
50	BT	81	PRO
50	BT	87	ASP
50	BT	88	ILE
50	BT	93	ARG
50	BT	96	ARG
50	BT	99	LEU
50	BT	101	PHE
50	BT	102	ILE
50	BT	108	ARG
50	BT	110	ILE

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Mol	Chain	Res	Type
50	BT	112	ARG
50	BT	115	ARG
50	BT	122	ASP
50	BT	123	GLN
50	BT	128	GLU
51	BU	3	ARG
51	BU	9	VAL
51	BU	14	HIS
51	BU	28	ARG
51	BU	30	LYS
51	BU	31	SER
51	BU	40	PHE
51	BU	49	HIS
51	BU	64	ARG
51	BU	69	CYS
51	BU	92	ARG
51	BU	93	LYS
52	BV	6	LYS
52	BV	13	ARG
52	BV	18	LEU
52	BV	19	LYS
52	BV	21	ARG
52	BV	40	LEU
52	BV	66	ARG
52	BV	71	LEU
52	BV	78	LYS
52	BV	82	ARG
52	BV	83	ARG
52	BV	88	ARG
52	BV	94	LEU
52	BV	98	GLU
53	BW	11	ARG
53	BW	19	LEU
53	BW	20	VAL
53	BW	49	LYS
53	BW	51	LEU
53	BW	57	ASN
53	BW	61	ASN
53	BW	67	ASP
53	BW	69	LEU
53	BW	70	TYR
53	BW	75	TYR

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Mol	Chain	Res	Type
53	BW	88	ARG
53	BW	107	LEU
54	BX	16	LYS
54	BX	26	TYR
54	BX	27	THR
54	BX	28	PHE
54	BX	29	TRP
54	BX	36	LYS
54	BX	40	LYS
54	BX	45	THR
54	BX	55	ASN
54	BX	59	VAL
54	BX	65	ARG
54	BX	70	LEU
54	BX	76	ARG
54	BX	77	LYS
54	BX	78	LYS
55	BY	2	ARG
55	BY	6	HIS
55	BY	8	LYS
55	BY	28	LYS
55	BY	29	GLU
55	BY	31	LEU
55	BY	32	PRO
55	BY	38	ILE
55	BY	47	LYS
55	BY	56	PRO
55	BY	60	PHE
55	BY	62	GLU
55	BY	66	PRO
55	BY	71	LYS
55	BY	72	VAL
55	BY	75	ILE
55	BY	76	CYS
55	BY	89	PHE
55	BY	92	ASN
55	BY	96	ILE
55	BY	97	ARG
56	BZ	6	LYS
56	BZ	9	TYR
56	BZ	11	GLU
56	BZ	20	ARG

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Mol	Chain	Res	Type
56	BZ	34	ASN
56	BZ	45	ASP
56	BZ	48	PHE
56	BZ	55	HIS
56	BZ	74	VAL
56	BZ	79	ARG
56	BZ	87	ASP
56	BZ	91	LEU
56	BZ	97	GLU
56	BZ	103	ARG
56	BZ	111	VAL
56	BZ	121	HIS
56	BZ	126	VAL
56	BZ	136	PHE
56	BZ	140	ASP
56	BZ	150	LEU
56	BZ	155	LEU
2	CB	17	PHE
2	CB	22	LYS
2	CB	31	TYR
2	CB	33	TYR
2	CB	44	LEU
2	CB	56	ARG
2	CB	67	THR
2	CB	69	LEU
2	CB	70	PHE
2	CB	75	LYS
2	CB	80	ILE
2	CB	96	ARG
2	CB	97	TRP
2	CB	98	LEU
2	CB	102	LEU
2	CB	108	ILE
2	CB	115	LEU
2	CB	116	GLU
2	CB	137	ARG
2	CB	140	HIS
2	CB	158	LEU
2	CB	178	ARG
2	CB	187	LEU
2	CB	212	GLN
2	CB	222	ILE

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Mol	Chain	Res	Type
3	CC	5	ILE
3	CC	12	LEU
3	CC	16	ARG
3	CC	27	LYS
3	CC	37	GLN
3	CC	43	LEU
3	CC	52	LEU
3	CC	101	LEU
3	CC	104	GLN
3	CC	120	VAL
3	CC	127	ARG
3	CC	131	ARG
3	CC	156	ARG
3	CC	164	ARG
3	CC	165	THR
3	CC	166	GLU
3	CC	167	TRP
3	CC	181	ASN
4	CD	3	ARG
4	CD	9	CYS
4	CD	21	LEU
4	CD	26	CYS
4	CD	31	CYS
4	CD	33	MET
4	CD	42	GLN
4	CD	53	ASP
4	CD	59	ARG
4	CD	79	PHE
4	CD	96	LEU
4	CD	97	LEU
4	CD	110	PHE
4	CD	120	LEU
4	CD	122	ARG
4	CD	131	ARG
4	CD	132	ARG
4	CD	138	TYR
4	CD	158	ILE
4	CD	170	VAL
4	CD	181	MET
4	CD	194	LEU
4	CD	196	LEU
4	CD	200	GLU

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Mol	Chain	Res	Type
5	CE	10	MET
5	CE	12	LEU
5	CE	16	THR
5	CE	20	GLN
5	CE	47	LYS
5	CE	60	TYR
5	CE	61	TYR
5	CE	68	GLU
5	CE	71	LEU
5	CE	73	ASN
5	CE	76	ILE
5	CE	90	VAL
5	CE	96	PRO
5	CE	101	ILE
5	CE	131	ILE
5	CE	149	GLU
6	CF	32	ASN
6	CF	75	LEU
6	CF	98	LEU
6	CF	100	ASN
7	CG	14	PRO
7	CG	41	ARG
7	CG	54	THR
7	CG	57	GLU
7	CG	84	ASN
7	CG	88	PRO
7	CG	111	ARG
7	CG	112	PRO
7	CG	151	TYR
7	CG	156	TRP
8	CH	1	MET
8	CH	3	THR
8	CH	10	LEU
8	CH	18	ARG
8	CH	25	ASP
8	CH	35	ILE
8	CH	102	ARG
8	CH	119	LEU
8	CH	133	LEU
8	CH	136	GLU
8	CH	137	VAL
9	CI	4	TYR

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Mol	Chain	Res	Type
9	CI	27	THR
9	CI	63	ILE
9	CI	66	ARG
9	CI	78	LYS
9	CI	95	LYS
9	CI	101	PHE
9	CI	104	ARG
9	CI	108	VAL
9	CI	113	LYS
9	CI	114	TYR
9	CI	121	ARG
9	CI	125	TYR
10	CJ	16	LEU
10	CJ	22	LYS
10	CJ	47	PHE
10	CJ	50	ILE
10	CJ	62	HIS
10	CJ	84	GLN
10	CJ	96	ILE
11	CK	18	ARG
11	CK	21	ILE
11	CK	48	ILE
11	CK	91	ARG
11	CK	103	LEU
11	CK	117	ASN
11	CK	125	PHE
11	CK	126	ARG
11	CK	127	LYS
12	CL	19	ARG
12	CL	20	LYS
12	CL	21	LYS
12	CL	41	ARG
12	CL	48	PRO
12	CL	49	ASN
12	CL	53	ARG
12	CL	66	VAL
12	CL	84	LEU
12	CL	89	ARG
12	CL	102	ARG
13	CM	47	ASP
13	CM	48	LEU
13	CM	64	TRP

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Mol	Chain	Res	Type
13	CM	82	MET
13	CM	93	ARG
13	CM	108	ARG
13	CM	120	LYS
14	CN	16	PHE
14	CN	26	ARG
14	CN	29	ARG
14	CN	61	TRP
15	CO	4	THR
15	CO	6	GLU
15	CO	10	LYS
15	CO	35	ARG
15	CO	39	LEU
15	CO	46	HIS
15	CO	47	LYS
15	CO	65	ARG
15	CO	82	ILE
16	CP	1	MET
16	CP	6	LEU
16	CP	26	ARG
16	CP	27	LYS
16	CP	29	ASP
16	CP	38	TYR
16	CP	39	TYR
16	CP	48	TRP
16	CP	69	THR
16	CP	73	LEU
16	CP	82	GLN
17	CQ	36	ILE
17	CQ	55	ASP
17	CQ	56	VAL
17	CQ	78	GLU
17	CQ	81	ARG
17	CQ	89	LEU
18	CR	29	PHE
18	CR	31	LEU
18	CR	43	PHE
18	CR	46	GLU
18	CR	58	LEU
18	CR	74	ARG
19	CS	5	LEU
19	CS	6	LYS

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Mol	Chain	Res	Type
19	CS	10	PHE
19	CS	13	ASP
19	CS	27	GLU
19	CS	34	TRP
19	CS	37	ARG
19	CS	43	GLU
19	CS	44	MET
19	CS	49	ILE
19	CS	53	ASN
19	CS	70	LYS
19	CS	78	ARG
20	CT	8	ARG
20	CT	13	LEU
20	CT	24	LEU
20	CT	26	ASN
20	CT	57	ARG
20	CT	62	LEU
20	CT	71	THR
20	CT	73	HIS
20	CT	74	LYS
20	CT	93	GLU
20	CT	100	ILE
21	CU	24	ARG
25	CY	3	LEU
25	CY	10	THR
25	CY	18	LEU
25	CY	32	ARG
25	CY	85	ASP
25	CY	91	ASN
25	CY	92	PRO
25	CY	97	ASP
25	CY	113	ASP
25	CY	118	VAL
25	CY	132	ILE
25	CY	138	ASP
25	CY	168	PHE
25	CY	173	ASP
25	CY	183	ILE
26	D0	20	ARG
26	D0	38	VAL
26	D0	44	ARG
26	D0	64	ASP

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Mol	Chain	Res	Type
27	D1	12	PRO
27	D1	16	ASN
27	D1	19	GLN
27	D1	20	ARG
27	D1	21	ARG
27	D1	35	THR
27	D1	39	LYS
27	D1	46	LEU
27	D1	47	GLN
27	D1	48	LYS
27	D1	49	VAL
27	D1	50	ARG
27	D1	52	ARG
27	D1	53	VAL
27	D1	56	GLN
27	D1	58	ILE
27	D1	69	LYS
27	D1	73	LEU
27	D1	83	GLU
27	D1	85	LEU
27	D1	89	GLU
27	D1	90	ILE
27	D1	94	LEU
28	D2	12	GLU
28	D2	14	ARG
28	D2	22	GLU
28	D2	26	ARG
28	D2	30	ARG
28	D2	32	LEU
28	D2	33	MET
28	D2	37	PHE
28	D2	46	GLN
28	D2	53	LEU
28	D2	59	ARG
28	D2	61	LEU
29	D3	8	LEU
29	D3	26	LEU
29	D3	31	LEU
31	D5	4	HIS
31	D5	5	PRO
31	D5	22	HIS
31	D5	32	PRO

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Mol	Chain	Res	Type
31	D5	43	HIS
31	D5	48	GLU
31	D5	56	LYS
31	D5	58	LEU
32	D6	10	LEU
32	D6	20	ASN
32	D6	31	PRO
32	D6	35	GLU
32	D6	37	ARG
32	D6	42	TRP
32	D6	43	CYS
32	D6	44	ARG
32	D6	51	GLU
33	D7	8	ASN
33	D7	24	THR
33	D7	36	GLN
33	D7	43	THR
33	D7	44	PRO
33	D7	46	VAL
33	D7	48	LYS
34	D8	31	HIS
34	D8	40	GLU
34	D8	44	LYS
34	D8	46	ARG
34	D8	48	PHE
34	D8	52	LYS
34	D8	60	LEU
34	D8	64	TYR
57	DC	36	LYS
57	DC	49	ILE
57	DC	64	LEU
57	DC	66	HIS
38	DD	5	LYS
38	DD	10	THR
38	DD	14	ARG
38	DD	15	PHE
38	DD	24	ILE
38	DD	26	LYS
38	DD	31	LYS
38	DD	36	PRO
38	DD	46	GLN
38	DD	71	ASP

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Mol	Chain	Res	Type
38	DD	91	ARG
38	DD	94	LEU
38	DD	95	LEU
38	DD	96	HIS
38	DD	131	LEU
38	DD	135	PHE
38	DD	165	ILE
38	DD	166	GLN
38	DD	173	VAL
38	DD	198	ASN
38	DD	211	ARG
38	DD	221	VAL
38	DD	228	PRO
38	DD	241	PRO
38	DD	255	LYS
38	DD	261	LYS
38	DD	271	ILE
39	DE	21	VAL
39	DE	33	VAL
39	DE	44	TYR
39	DE	61	ARG
39	DE	64	LYS
39	DE	67	PHE
39	DE	69	LYS
39	DE	78	LEU
39	DE	79	ARG
39	DE	113	PHE
39	DE	118	LYS
39	DE	119	ARG
39	DE	122	PHE
39	DE	127	ASP
39	DE	134	ILE
39	DE	141	ILE
39	DE	143	ASN
39	DE	178	GLU
39	DE	181	LEU
39	DE	183	LEU
39	DE	184	VAL
39	DE	192	ASN
39	DE	202	LYS
39	DE	203	LYS
40	DF	6	VAL

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Mol	Chain	Res	Type
40	DF	23	ASP
40	DF	24	LEU
40	DF	28	ILE
40	DF	46	ARG
40	DF	50	SER
40	DF	53	THR
40	DF	56	GLU
40	DF	65	TRP
40	DF	66	PRO
40	DF	67	GLN
40	DF	74	ARG
40	DF	77	ASP
40	DF	104	LYS
40	DF	112	MET
40	DF	116	ASP
40	DF	136	THR
40	DF	156	LEU
40	DF	164	ARG
40	DF	169	ASN
40	DF	197	ASP
40	DF	201	VAL
40	DF	202	PHE
41	DG	16	ARG
41	DG	19	LEU
41	DG	21	ARG
41	DG	22	ARG
41	DG	23	PHE
41	DG	34	LEU
41	DG	43	LEU
41	DG	45	GLU
41	DG	51	ARG
41	DG	53	LEU
41	DG	58	GLN
41	DG	59	GLU
41	DG	76	SER
41	DG	77	ILE
41	DG	95	ARG
41	DG	121	ASN
41	DG	123	ASN
41	DG	125	PHE
41	DG	126	ASP
41	DG	131	TYR

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Mol	Chain	Res	Type
41	DG	133	LEU
41	DG	136	ARG
41	DG	143	GLU
41	DG	150	ASP
41	DG	155	MET
41	DG	160	VAL
41	DG	170	ARG
41	DG	174	GLU
42	DH	41	MET
42	DH	53	GLU
42	DH	61	HIS
42	DH	68	THR
42	DH	83	TYR
42	DH	86	GLU
42	DH	89	ILE
42	DH	105	LEU
42	DH	123	PHE
42	DH	136	ILE
42	DH	143	GLN
42	DH	153	LYS
42	DH	157	TYR
42	DH	158	HIS
42	DH	159	GLU
42	DH	170	ARG
43	DI	1	MET
43	DI	3	VAL
43	DI	5	LEU
43	DI	7	GLU
43	DI	10	GLU
43	DI	12	LEU
43	DI	25	TYR
43	DI	38	LEU
43	DI	51	ILE
43	DI	54	GLN
43	DI	64	GLU
43	DI	86	THR
43	DI	96	ASP
43	DI	118	LYS
43	DI	122	GLU
43	DI	123	LEU
43	DI	126	TYR
43	DI	130	TYR

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Mol	Chain	Res	Type
43	DI	136	VAL
44	DN	4	TYR
44	DN	19	GLU
44	DN	34	LEU
44	DN	39	ARG
44	DN	42	TRP
44	DN	56	ASN
44	DN	62	VAL
44	DN	66	LYS
44	DN	82	LEU
44	DN	87	LEU
44	DN	94	HIS
44	DN	99	LEU
44	DN	109	LYS
44	DN	111	PRO
44	DN	123	TYR
44	DN	127	ASP
44	DN	128	HIS
44	DN	131	GLN
45	DO	1	MET
45	DO	7	TYR
45	DO	9	GLU
45	DO	19	ILE
45	DO	24	VAL
45	DO	25	LEU
45	DO	32	TYR
45	DO	39	ILE
45	DO	45	GLU
45	DO	47	ILE
45	DO	48	PRO
45	DO	69	ILE
45	DO	73	ASP
45	DO	80	ASP
45	DO	82	ASN
45	DO	86	ILE
45	DO	87	ILE
45	DO	91	LEU
45	DO	102	VAL
45	DO	104	ARG
45	DO	115	VAL
46	DP	6	LEU
46	DP	13	ASN

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Mol	Chain	Res	Type
46	DP	16	ARG
46	DP	18	ARG
46	DP	21	ARG
46	DP	32	THR
46	DP	35	HIS
46	DP	50	ARG
46	DP	59	LEU
46	DP	61	ARG
46	DP	62	LEU
46	DP	71	VAL
46	DP	75	ILE
46	DP	85	LEU
46	DP	91	PHE
46	DP	101	VAL
46	DP	107	LYS
46	DP	110	TYR
46	DP	112	LEU
46	DP	115	LEU
46	DP	122	PRO
46	DP	123	LEU
46	DP	125	VAL
46	DP	130	PHE
46	DP	138	LEU
46	DP	144	GLU
46	DP	147	LEU
46	DP	148	LEU
47	DQ	9	TYR
47	DQ	17	LEU
47	DQ	22	LYS
47	DQ	26	TYR
47	DQ	29	PHE
47	DQ	43	THR
47	DQ	55	VAL
47	DQ	57	HIS
47	DQ	68	ILE
47	DQ	79	LEU
47	DQ	80	GLU
47	DQ	83	MET
47	DQ	87	LYS
47	DQ	91	GLU
47	DQ	106	VAL
47	DQ	127	ILE

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Mol	Chain	Res	Type
47	DQ	131	ILE
47	DQ	137	TYR
48	DR	2	ARG
48	DR	3	HIS
48	DR	5	LYS
48	DR	13	HIS
48	DR	18	LEU
48	DR	20	LEU
48	DR	29	LEU
48	DR	44	LEU
48	DR	49	ASP
48	DR	60	LEU
48	DR	65	LEU
48	DR	71	GLN
48	DR	74	LYS
48	DR	75	LEU
48	DR	79	LEU
48	DR	99	LYS
48	DR	103	ARG
48	DR	104	ARG
48	DR	113	LEU
48	DR	118	GLU
49	DS	11	LYS
49	DS	12	PHE
49	DS	13	ARG
49	DS	16	ASN
49	DS	36	TYR
49	DS	54	LEU
49	DS	56	LEU
49	DS	61	ASN
49	DS	62	LYS
49	DS	71	ARG
49	DS	89	ARG
49	DS	92	TYR
49	DS	93	LYS
49	DS	95	HIS
49	DS	106	ARG
50	DT	1	MET
50	DT	3	ARG
50	DT	11	GLU
50	DT	12	SER
50	DT	13	ARG

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Mol	Chain	Res	Type
50	DT	14	TYR
50	DT	22	PHE
50	DT	28	VAL
50	DT	29	ARG
50	DT	38	ASN
50	DT	41	ARG
50	DT	44	ASP
50	DT	53	ARG
50	DT	58	ASN
50	DT	63	VAL
50	DT	65	LYS
50	DT	74	ARG
50	DT	81	PRO
50	DT	87	ASP
50	DT	93	ARG
50	DT	96	ARG
50	DT	99	LEU
50	DT	101	PHE
50	DT	102	ILE
50	DT	108	ARG
50	DT	110	ILE
50	DT	112	ARG
50	DT	115	ARG
50	DT	122	ASP
50	DT	123	GLN
50	DT	128	GLU
51	DU	3	ARG
51	DU	9	VAL
51	DU	14	HIS
51	DU	28	ARG
51	DU	30	LYS
51	DU	31	SER
51	DU	49	HIS
51	DU	64	ARG
51	DU	69	CYS
51	DU	92	ARG
51	DU	93	LYS
52	DV	6	LYS
52	DV	13	ARG
52	DV	18	LEU
52	DV	19	LYS
52	DV	21	ARG

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Mol	Chain	Res	Type
52	DV	40	LEU
52	DV	66	ARG
52	DV	71	LEU
52	DV	78	LYS
52	DV	82	ARG
52	DV	83	ARG
52	DV	88	ARG
52	DV	94	LEU
52	DV	98	GLU
53	DW	11	ARG
53	DW	19	LEU
53	DW	20	VAL
53	DW	49	LYS
53	DW	51	LEU
53	DW	57	ASN
53	DW	61	ASN
53	DW	67	ASP
53	DW	69	LEU
53	DW	70	TYR
53	DW	75	TYR
53	DW	88	ARG
53	DW	107	LEU
54	DX	16	LYS
54	DX	26	TYR
54	DX	27	THR
54	DX	28	PHE
54	DX	29	TRP
54	DX	36	LYS
54	DX	40	LYS
54	DX	45	THR
54	DX	55	ASN
54	DX	59	VAL
54	DX	65	ARG
54	DX	66	LEU
54	DX	70	LEU
54	DX	76	ARG
54	DX	77	LYS
54	DX	78	LYS
55	DY	2	ARG
55	DY	6	HIS
55	DY	8	LYS
55	DY	28	LYS

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Mol	Chain	Res	Type
55	DY	29	GLU
55	DY	31	LEU
55	DY	32	PRO
55	DY	38	ILE
55	DY	47	LYS
55	DY	56	PRO
55	DY	60	PHE
55	DY	62	GLU
55	DY	66	PRO
55	DY	71	LYS
55	DY	72	VAL
55	DY	75	ILE
55	DY	76	CYS
55	DY	89	PHE
55	DY	92	ASN
55	DY	96	ILE
55	DY	97	ARG
56	DZ	5	LEU
56	DZ	6	LYS
56	DZ	9	TYR
56	DZ	10	ARG
56	DZ	11	GLU
56	DZ	19	ARG
56	DZ	24	LEU
56	DZ	39	VAL
56	DZ	40	ASP
56	DZ	41	LEU
56	DZ	42	VAL
56	DZ	45	ASP
56	DZ	59	LEU
56	DZ	71	VAL
56	DZ	72	ARG
56	DZ	74	VAL
56	DZ	76	LEU
56	DZ	79	ARG
56	DZ	84	GLU
56	DZ	91	LEU
56	DZ	103	ARG
56	DZ	108	PRO
56	DZ	119	GLU
56	DZ	121	HIS
56	DZ	123	ASP

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Mol	Chain	Res	Type
56	DZ	136	PHE
56	DZ	144	LEU
56	DZ	148	ASP
56	DZ	150	LEU
56	DZ	163	LEU
56	DZ	166	SER

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (303) such sidechains are listed below:

Mol	Chain	Res	Type
2	AB	37	ASN
2	AB	78	GLN
2	AB	135	GLN
2	AB	146	GLN
2	AB	204	ASN
2	AB	212	GLN
3	AC	28	GLN
3	AC	31	HIS
3	AC	69	HIS
3	AC	98	ASN
3	AC	123	GLN
3	AC	170	GLN
3	AC	181	ASN
4	AD	45	GLN
4	AD	62	GLN
4	AD	119	GLN
4	AD	161	ASN
4	AD	201	GLN
5	AE	56	GLN
5	AE	73	ASN
5	AE	78	HIS
5	AE	127	ASN
6	AF	7	ASN
6	AF	18	GLN
6	AF	27	GLN
6	AF	32	ASN
6	AF	94	GLN
6	AF	100	ASN
7	AG	11	GLN
7	AG	13	GLN
7	AG	28	ASN
7	AG	68	ASN

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Mol	Chain	Res	Type
7	AG	84	ASN
7	AG	106	GLN
7	AG	109	ASN
7	AG	148	ASN
8	AH	15	ASN
8	AH	78	GLN
8	AH	82	HIS
9	AI	23	ASN
9	AI	124	GLN
10	AJ	13	HIS
11	AK	26	ASN
11	AK	104	GLN
11	AK	117	ASN
12	AL	8	ASN
12	AL	9	GLN
12	AL	49	ASN
12	AL	75	HIS
12	AL	99	HIS
13	AM	40	ASN
13	AM	77	ASN
15	AO	13	GLN
15	AO	37	ASN
15	AO	46	HIS
15	AO	62	GLN
16	AP	13	HIS
16	AP	76	GLN
16	AP	82	GLN
17	AQ	16	GLN
18	AR	36	ASN
19	AS	47	HIS
19	AS	53	ASN
20	AT	16	HIS
20	AT	18	GLN
20	AT	26	ASN
25	AY	34	ASN
25	AY	53	ASN
25	AY	91	ASN
25	AY	174	GLN
26	B0	29	GLN
26	B0	35	ASN
27	B1	19	GLN
27	B1	42	GLN

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Mol	Chain	Res	Type
27	B1	45	ASN
27	B1	66	HIS
28	B2	46	GLN
28	B2	56	GLN
29	B3	19	GLN
29	B3	46	ASN
31	B5	23	HIS
31	B5	43	HIS
32	B6	20	ASN
32	B6	26	ASN
32	B6	32	ASN
33	B7	6	GLN
33	B7	8	ASN
34	B8	35	GLN
37	BC	44	HIS
37	BC	56	GLN
37	BC	57	ASN
38	BD	58	HIS
38	BD	126	GLN
38	BD	166	GLN
38	BD	186	HIS
38	BD	198	ASN
39	BE	35	GLN
39	BE	48	GLN
39	BE	54	GLN
39	BE	55	ASN
39	BE	132	HIS
39	BE	192	ASN
40	BF	8	GLN
40	BF	69	HIS
40	BF	75	HIS
40	BF	160	ASN
40	BF	169	ASN
41	BG	27	ASN
41	BG	41	GLN
41	BG	123	ASN
42	BH	74	ASN
43	BI	11	ASN
43	BI	43	ASN
43	BI	105	HIS
44	BN	56	ASN
44	BN	101	HIS

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Mol	Chain	Res	Type
44	BN	128	HIS
45	BO	3	GLN
45	BO	13	ASN
46	BP	13	ASN
46	BP	35	HIS
47	BQ	12	GLN
47	BQ	13	GLN
47	BQ	123	HIS
47	BQ	141	GLN
48	BR	11	ASN
48	BR	13	HIS
48	BR	61	HIS
48	BR	91	GLN
49	BS	16	ASN
49	BS	61	ASN
49	BS	84	GLN
50	BT	38	ASN
50	BT	55	ASN
50	BT	58	ASN
50	BT	84	GLN
50	BT	90	GLN
50	BT	123	GLN
51	BU	49	HIS
51	BU	66	ASN
51	BU	81	HIS
51	BU	94	ASN
51	BU	117	GLN
52	BV	11	GLN
52	BV	89	GLN
53	BW	40	ASN
53	BW	57	ASN
54	BX	31	HIS
54	BX	41	ASN
54	BX	55	ASN
56	BZ	73	GLN
56	BZ	118	GLN
56	BZ	132	ASN
2	CB	37	ASN
2	CB	78	GLN
2	CB	135	GLN
2	CB	146	GLN
2	CB	204	ASN

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Mol	Chain	Res	Type
2	CB	212	GLN
3	CC	28	GLN
3	CC	31	HIS
3	CC	69	HIS
3	CC	98	ASN
3	CC	123	GLN
3	CC	170	GLN
3	CC	181	ASN
4	CD	62	GLN
4	CD	119	GLN
4	CD	161	ASN
4	CD	201	GLN
5	CE	56	GLN
5	CE	73	ASN
5	CE	78	HIS
5	CE	127	ASN
6	CF	7	ASN
6	CF	27	GLN
6	CF	32	ASN
6	CF	94	GLN
6	CF	100	ASN
7	CG	11	GLN
7	CG	13	GLN
7	CG	28	ASN
7	CG	68	ASN
7	CG	84	ASN
7	CG	106	GLN
7	CG	109	ASN
7	CG	148	ASN
8	CH	15	ASN
8	CH	78	GLN
8	CH	82	HIS
9	CI	23	ASN
9	CI	124	GLN
10	CJ	13	HIS
11	CK	104	GLN
11	CK	117	ASN
12	CL	8	ASN
12	CL	9	GLN
12	CL	49	ASN
12	CL	75	HIS
12	CL	99	HIS

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Mol	Chain	Res	Type
13	CM	40	ASN
13	CM	77	ASN
13	CM	101	GLN
15	CO	13	GLN
15	CO	37	ASN
15	CO	46	HIS
16	CP	13	HIS
16	CP	76	GLN
16	CP	82	GLN
17	CQ	16	GLN
18	CR	36	ASN
19	CS	47	HIS
19	CS	53	ASN
20	CT	16	HIS
20	CT	18	GLN
20	CT	26	ASN
25	CY	34	ASN
25	CY	91	ASN
25	CY	174	GLN
26	D0	29	GLN
26	D0	35	ASN
27	D1	16	ASN
27	D1	19	GLN
27	D1	56	GLN
28	D2	56	GLN
29	D3	19	GLN
29	D3	46	ASN
31	D5	23	HIS
31	D5	43	HIS
32	D6	20	ASN
32	D6	26	ASN
32	D6	32	ASN
33	D7	6	GLN
33	D7	8	ASN
34	D8	35	GLN
57	DC	44	HIS
57	DC	56	GLN
57	DC	57	ASN
38	DD	58	HIS
38	DD	126	GLN
38	DD	166	GLN
38	DD	186	HIS

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Mol	Chain	Res	Type
38	DD	198	ASN
38	DD	253	GLN
39	DE	35	GLN
39	DE	48	GLN
39	DE	54	GLN
39	DE	55	ASN
39	DE	132	HIS
39	DE	192	ASN
40	DF	8	GLN
40	DF	69	HIS
40	DF	75	HIS
40	DF	160	ASN
40	DF	169	ASN
41	DG	27	ASN
41	DG	40	ASN
41	DG	66	GLN
41	DG	121	ASN
41	DG	130	ASN
41	DG	132	ASN
42	DH	74	ASN
42	DH	147	ASN
43	DI	11	ASN
43	DI	43	ASN
43	DI	105	HIS
44	DN	56	ASN
44	DN	101	HIS
44	DN	128	HIS
45	DO	3	GLN
45	DO	13	ASN
46	DP	13	ASN
47	DQ	12	GLN
47	DQ	13	GLN
47	DQ	123	HIS
47	DQ	141	GLN
48	DR	11	ASN
48	DR	13	HIS
48	DR	61	HIS
48	DR	91	GLN
49	DS	16	ASN
49	DS	61	ASN
49	DS	84	GLN
50	DT	38	ASN

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Mol	Chain	Res	Type
50	DT	55	ASN
50	DT	58	ASN
50	DT	84	GLN
50	DT	90	GLN
50	DT	123	GLN
51	DU	49	HIS
51	DU	66	ASN
51	DU	81	HIS
51	DU	94	ASN
51	DU	117	GLN
52	DV	11	GLN
52	DV	89	GLN
53	DW	40	ASN
53	DW	57	ASN
54	DX	31	HIS
54	DX	41	ASN
54	DX	55	ASN
55	DY	92	ASN
56	DZ	55	HIS

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1503/1522 (98%)	210 (13%)	31 (2%)
1	CA	1503/1522 (98%)	214 (14%)	29 (1%)
22	AV	16/76 (21%)	0	0
22	CV	16/76 (21%)	0	0
23	AW	76/77 (98%)	26 (34%)	0
23	CW	76/77 (98%)	20 (26%)	0
24	AX	10/31 (32%)	3 (30%)	0
24	CX	10/31 (32%)	2 (20%)	0
35	BA	2766/2782 (99%)	577 (20%)	57 (2%)
35	DA	2766/2782 (99%)	580 (20%)	57 (2%)
36	BB	118/122 (96%)	19 (16%)	1 (0%)
36	DB	118/122 (96%)	19 (16%)	1 (0%)
All	All	8978/9220 (97%)	1670 (18%)	176 (1%)

All (1670) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	9	G

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Mol	Chain	Res	Type
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	61	G
1	AA	65	U
1	AA	80	G
1	AA	81	U
1	AA	90	U
1	AA	97	G
1	AA	98	G
1	AA	116	A
1	AA	120	A
1	AA	121	C
1	AA	131	C
1	AA	146	G
1	AA	150	C
1	AA	172	A
1	AA	189(F)	U
1	AA	189(H)	G
1	AA	195	A
1	AA	197	A
1	AA	204	U
1	AA	244	U
1	AA	247	G
1	AA	251	G
1	AA	266	G
1	AA	267	C
1	AA	274	A
1	AA	279	A
1	AA	289	G
1	AA	316	G
1	AA	328	C
1	AA	329	A
1	AA	332	G
1	AA	345	C
1	AA	352	C
1	AA	353	A
1	AA	354	G
1	AA	367	U

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Mol	Chain	Res	Type
1	AA	372	C
1	AA	397	A
1	AA	412	A
1	AA	413	G
1	AA	414	A
1	AA	422	C
1	AA	423	G
1	AA	428	G
1	AA	429	U
1	AA	430	A
1	AA	435	C
1	AA	436	C
1	AA	437	U
1	AA	442	C
1	AA	452	A
1	AA	461	A
1	AA	482	A
1	AA	484	G
1	AA	485	G
1	AA	496	A
1	AA	498	U
1	AA	509	A
1	AA	510	A
1	AA	511	C
1	AA	518	C
1	AA	524	G
1	AA	527	G
1	AA	531	U
1	AA	532	A
1	AA	533	A
1	AA	534	U
1	AA	536	C
1	AA	547	A
1	AA	559	A
1	AA	561	U
1	AA	562	C
1	AA	564	C
1	AA	566	G
1	AA	570	G
1	AA	572	A
1	AA	573	A
1	AA	575	G

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Mol	Chain	Res	Type
1	AA	576	G
1	AA	577	G
1	AA	596	C
1	AA	631	G
1	AA	632	A
1	AA	653	A
1	AA	687	A
1	AA	688	G
1	AA	731	G
1	AA	749	C
1	AA	755	G
1	AA	793	U
1	AA	794	A
1	AA	803	G
1	AA	816	A
1	AA	817	C
1	AA	819	A
1	AA	820	U
1	AA	821	G
1	AA	828	A
1	AA	833	U
1	AA	839	U
1	AA	840	C
1	AA	841	U
1	AA	848	C
1	AA	859	A
1	AA	874	G
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	968	A
1	AA	969	A
1	AA	974	A
1	AA	975	A
1	AA	976	G
1	AA	977	A
1	AA	978	A

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Mol	Chain	Res	Type
1	AA	980	C
1	AA	991	U
1	AA	992	U
1	AA	993	G
1	AA	1026	G
1	AA	1050	G
1	AA	1053	G
1	AA	1054	C
1	AA	1064	G
1	AA	1065	U
1	AA	1066	C
1	AA	1068	G
1	AA	1085	U
1	AA	1094	G
1	AA	1095	U
1	AA	1101	A
1	AA	1117	G
1	AA	1118	C
1	AA	1123	A
1	AA	1124	G
1	AA	1125	U
1	AA	1126	U
1	AA	1129	C
1	AA	1130	A
1	AA	1131	G
1	AA	1137	C
1	AA	1138	G
1	AA	1139	G
1	AA	1146	A
1	AA	1147	C
1	AA	1152	A
1	AA	1159	U
1	AA	1184	G
1	AA	1187	G
1	AA	1190	G
1	AA	1196	U
1	AA	1197	G
1	AA	1212	U
1	AA	1213	A
1	AA	1225	A
1	AA	1227	A
1	AA	1238	A

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Mol	Chain	Res	Type
1	AA	1249	C
1	AA	1256	A
1	AA	1257	U
1	AA	1278	U
1	AA	1280	A
1	AA	1281	U
1	AA	1282	C
1	AA	1286	A
1	AA	1287	A
1	AA	1294	G
1	AA	1297	C
1	AA	1300	G
1	AA	1301	U
1	AA	1302	U
1	AA	1305	G
1	AA	1317	C
1	AA	1320	C
1	AA	1322	C
1	AA	1325	C
1	AA	1331	G
1	AA	1335	C
1	AA	1346	A
1	AA	1347	G
1	AA	1364	U
1	AA	1398	A
1	AA	1419	G
1	AA	1432	G
1	AA	1442(A)	G
1	AA	1442(B)	A
1	AA	1443	G
1	AA	1452	C
1	AA	1456	G
1	AA	1487	G
1	AA	1492	A
1	AA	1499	A
1	AA	1504	G
1	AA	1505	G
1	AA	1506	U
1	AA	1517	G
1	AA	1529	G
1	AA	1530	G
23	AW	3	C

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Mol	Chain	Res	Type
23	AW	4	G
23	AW	5	G
23	AW	8	U
23	AW	9	G
23	AW	17	C
23	AW	18	U
23	AW	19	G
23	AW	20	G
23	AW	21	U
23	AW	22	A
23	AW	24	C
23	AW	31	G
23	AW	33	C
23	AW	38	A
23	AW	39	A
23	AW	41	C
23	AW	48	U
23	AW	49	C
23	AW	50	G
23	AW	54	G
23	AW	61	U
23	AW	62	C
23	AW	74	A
23	AW	75	C
23	AW	77	A
24	AX	13	A
24	AX	17	U
24	AX	22	U
35	BA	10	G
35	BA	17	G
35	BA	28	A
35	BA	34	C
35	BA	35	G
35	BA	45	C
35	BA	49	A
35	BA	50	U
35	BA	51	G
35	BA	55	G
35	BA	68	G
35	BA	69	C
35	BA	71	A
35	BA	72	U

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Mol	Chain	Res	Type
35	BA	73	A
35	BA	75	G
35	BA	83	G
35	BA	84	A
35	BA	85	G
35	BA	88	G
35	BA	90	U
35	BA	94	C
35	BA	95	G
35	BA	99	U
35	BA	100	G
35	BA	102	G
35	BA	118	A
35	BA	120	U
35	BA	132	G
35	BA	139	G
35	BA	139(A)	G
35	BA	140	G
35	BA	142	A
35	BA	142(A)	C
35	BA	143(A)	C
35	BA	146	G
35	BA	149	A
35	BA	157	U
35	BA	158	U
35	BA	174	C
35	BA	182	A
35	BA	196	A
35	BA	197	A
35	BA	199	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	248	G
35	BA	249	C
35	BA	252	G
35	BA	261	G
35	BA	271(K)	U

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Mol	Chain	Res	Type
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	G
35	BA	272(B)	G
35	BA	272(H)	C
35	BA	274	G
35	BA	275	G
35	BA	283	A
35	BA	284	U
35	BA	286	C
35	BA	287	C
35	BA	292	C
35	BA	310	A
35	BA	311	A
35	BA	329	G
35	BA	330	A
35	BA	332	A
35	BA	333	G
35	BA	335	C
35	BA	343	C
35	BA	349	G
35	BA	352	G
35	BA	353	G
35	BA	356	G
35	BA	362	U
35	BA	363(F)	A
35	BA	365	C
35	BA	372	G
35	BA	386	G
35	BA	387	U
35	BA	388	G
35	BA	405	U
35	BA	406	G
35	BA	411	G
35	BA	416	C
35	BA	418	G
35	BA	428	A

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Mol	Chain	Res	Type
35	BA	444	C
35	BA	448	U
35	BA	451	C
35	BA	456	C
35	BA	457	A
35	BA	470	A
35	BA	475	U
35	BA	481	G
35	BA	482	A
35	BA	494	G
35	BA	505	A
35	BA	508	G
35	BA	509	C
35	BA	512	G
35	BA	525	U
35	BA	529	A
35	BA	531	C
35	BA	532	A
35	BA	533	G
35	BA	537	C
35	BA	542	C
35	BA	543	C
35	BA	547	A
35	BA	548	A
35	BA	549	G
35	BA	551	G
35	BA	556	G
35	BA	562	U
35	BA	563	G
35	BA	572	A
35	BA	573	G
35	BA	575	A
35	BA	586	A
35	BA	588	U
35	BA	604	G
35	BA	607	U
35	BA	614(A)	U
35	BA	614(B)	G
35	BA	614(C)	A
35	BA	615	G
35	BA	620	G
35	BA	622	G

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Mol	Chain	Res	Type
35	BA	627	A
35	BA	637	A
35	BA	645	C
35	BA	646	A
35	BA	650	C
35	BA	652	C
35	BA	656	G
35	BA	670	A
35	BA	671	C
35	BA	686	G
35	BA	687	C
35	BA	708	C
35	BA	717	G
35	BA	722	A
35	BA	730	C
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	791	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	846	C
35	BA	848	G
35	BA	857	C
35	BA	859	G
35	BA	864	G
35	BA	866	A
35	BA	878	A
35	BA	892	G
35	BA	896	A
35	BA	897	C
35	BA	898	C
35	BA	899	A

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Mol	Chain	Res	Type
35	BA	904	C
35	BA	910	A
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	955	C
35	BA	956	G
35	BA	957	A
35	BA	958	U
35	BA	959	A
35	BA	961	C
35	BA	964	C
35	BA	965	C
35	BA	973	A
35	BA	974	G
35	BA	975	C
35	BA	980	A
35	BA	983	A
35	BA	985	C
35	BA	990	A
35	BA	991	C
35	BA	996	A
35	BA	1011	G
35	BA	1012	U
35	BA	1013	C
35	BA	1017	G
35	BA	1020	A
35	BA	1022	G
35	BA	1023	U
35	BA	1025	G
35	BA	1026	U
35	BA	1033	U
35	BA	1039	G
35	BA	1040	C
35	BA	1041	C
35	BA	1042	G
35	BA	1044	G
35	BA	1045	A
35	BA	1047	G

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Mol	Chain	Res	Type
35	BA	1049	C
35	BA	1052	C
35	BA	1106	A
35	BA	1110	G
35	BA	1111	A
35	BA	1112	G
35	BA	1113	U
35	BA	1115	G
35	BA	1129	A
35	BA	1130	U
35	BA	1135	C
35	BA	1136	G
35	BA	1143	A
35	BA	1155	A
35	BA	1156	A
35	BA	1159	U
35	BA	1173	G
35	BA	1174	A
35	BA	1175	U
35	BA	1176	G
35	BA	1177	A
35	BA	1178	C
35	BA	1194	A
35	BA	1195	G
35	BA	1205	U
35	BA	1210	A
35	BA	1211	U
35	BA	1212	G
35	BA	1218	C
35	BA	1221	C
35	BA	1241	A
35	BA	1247	A
35	BA	1248	G
35	BA	1249	U
35	BA	1251	C
35	BA	1253	A
35	BA	1254	A
35	BA	1255	U
35	BA	1256	G
35	BA	1265	A
35	BA	1271	G
35	BA	1272	A

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Mol	Chain	Res	Type
35	BA	1276	A
35	BA	1281	G
35	BA	1300	U
35	BA	1301	A
35	BA	1302	A
35	BA	1314	C
35	BA	1319	G
35	BA	1329	U
35	BA	1330	C
35	BA	1332	G
35	BA	1345	C
35	BA	1349	A
35	BA	1359	A
35	BA	1365	A
35	BA	1368	G
35	BA	1379	A
35	BA	1380	G
35	BA	1385	G
35	BA	1386	C
35	BA	1390	U
35	BA	1407	C
35	BA	1412	A
35	BA	1416	G
35	BA	1417	C
35	BA	1420	U
35	BA	1421	G
35	BA	1428	C
35	BA	1437	C
35	BA	1445	A
35	BA	1449	A
35	BA	1450	G
35	BA	1460	A
35	BA	1461	G
35	BA	1467	C
35	BA	1471	A
35	BA	1475	G
35	BA	1478	G
35	BA	1482	G
35	BA	1484	G
35	BA	1485	G
35	BA	1490	A
35	BA	1493	C

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Mol	Chain	Res	Type
35	BA	1494	A
35	BA	1495	A
35	BA	1497	U
35	BA	1498	C
35	BA	1502	C
35	BA	1505	C
35	BA	1508	A
35	BA	1509	C
35	BA	1509(A)	A
35	BA	1528(A)	A
35	BA	1529	G
35	BA	1530	C
35	BA	1532	C
35	BA	1533	G
35	BA	1543	C
35	BA	1545	A
35	BA	1547	C
35	BA	1554	A
35	BA	1558	A
35	BA	1559	G
35	BA	1569	A
35	BA	1578	U
35	BA	1579	A
35	BA	1584	C
35	BA	1586	A
35	BA	1587	A
35	BA	1591	G
35	BA	1594	G
35	BA	1595	G
35	BA	1603	A
35	BA	1608	A
35	BA	1609	A
35	BA	1610	A
35	BA	1613	G
35	BA	1614	A
35	BA	1615	C
35	BA	1616	A
35	BA	1617	C
35	BA	1635	G
35	BA	1640	C
35	BA	1648	C
35	BA	1654	A

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Mol	Chain	Res	Type
35	BA	1674	G
35	BA	1678	G
35	BA	1694	C
35	BA	1696	G
35	BA	1707	G
35	BA	1718	G
35	BA	1739	U
35	BA	1741	A
35	BA	1742	G
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	1791	A
35	BA	1799	G
35	BA	1800	C
35	BA	1816	G
35	BA	1820	U
35	BA	1835	G
35	BA	1847	A
35	BA	1854	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	1903	G
35	BA	1906	G
35	BA	1912	A
35	BA	1913	A
35	BA	1929	G
35	BA	1936	A
35	BA	1938	A
35	BA	1955	U
35	BA	1963	U

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Mol	Chain	Res	Type
35	BA	1964	G
35	BA	1965	C
35	BA	1967	C
35	BA	1969	A
35	BA	1971	A
35	BA	1972	A
35	BA	1987	G
35	BA	1988	C
35	BA	1991	U
35	BA	1993	U
35	BA	2023	G
35	BA	2031	A
35	BA	2033	A
35	BA	2034	U
35	BA	2036	C
35	BA	2043	C
35	BA	2051	A
35	BA	2055	C
35	BA	2056	G
35	BA	2060	A
35	BA	2061	G
35	BA	2062	A
35	BA	2069	G
35	BA	2093	G
35	BA	2099	U
35	BA	2103	C
35	BA	2104	G
35	BA	2108	C
35	BA	2110	G
35	BA	2111	C
35	BA	2112	G
35	BA	2116	G
35	BA	2117	A
35	BA	2118	U
35	BA	2119	A
35	BA	2120	G
35	BA	2122	U
35	BA	2127	G
35	BA	2128	C
35	BA	2163	C
35	BA	2164	C
35	BA	2165	G

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Mol	Chain	Res	Type
35	BA	2166	G
35	BA	2169	A
35	BA	2171	A
35	BA	2172	U
35	BA	2173	A
35	BA	2176	A
35	BA	2179	C
35	BA	2185	C
35	BA	2187	G
35	BA	2190	G
35	BA	2198	A
35	BA	2199	A
35	BA	2200	C
35	BA	2207	G
35	BA	2208	A
35	BA	2218	U
35	BA	2225	A
35	BA	2226	C
35	BA	2238	G
35	BA	2239	G
35	BA	2243	U
35	BA	2251	G
35	BA	2263	C
35	BA	2275	C
35	BA	2283	C
35	BA	2285	C
35	BA	2287	A
35	BA	2290	G
35	BA	2294	C
35	BA	2297	C
35	BA	2305	A
35	BA	2307	G
35	BA	2308	G
35	BA	2311	A
35	BA	2313	C
35	BA	2316	C
35	BA	2319	G
35	BA	2320	A
35	BA	2325	G
35	BA	2334	G
35	BA	2336	A
35	BA	2345	G

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Mol	Chain	Res	Type
35	BA	2347	C
35	BA	2349	G
35	BA	2358	G
35	BA	2383	G
35	BA	2385	C
35	BA	2387	U
35	BA	2388	A
35	BA	2398	U
35	BA	2399	G
35	BA	2400	G
35	BA	2402	C
35	BA	2408	U
35	BA	2423	U
35	BA	2425	A
35	BA	2427	C
35	BA	2428	G
35	BA	2429	G
35	BA	2430	A
35	BA	2431	U
35	BA	2439	A
35	BA	2441	C
35	BA	2447	G
35	BA	2448	A
35	BA	2465	C
35	BA	2469	A
35	BA	2470	G
35	BA	2474	C
35	BA	2476	A
35	BA	2478	A
35	BA	2482	G
35	BA	2483	C
35	BA	2490	G
35	BA	2491	U
35	BA	2498	C
35	BA	2502	G
35	BA	2505	G
35	BA	2518	A
35	BA	2520	C
35	BA	2523	G
35	BA	2529	G
35	BA	2534	A
35	BA	2543	G

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Mol	Chain	Res	Type
35	BA	2554	U
35	BA	2559	C
35	BA	2566	A
35	BA	2567	G
35	BA	2571	C
35	BA	2572	A
35	BA	2573	C
35	BA	2582	G
35	BA	2585	U
35	BA	2586	C
35	BA	2602	A
35	BA	2609	U
35	BA	2610	C
35	BA	2611	U
35	BA	2612	C
35	BA	2615	U
35	BA	2630	G
35	BA	2640	G
35	BA	2646	C
35	BA	2655	G
35	BA	2673	G
35	BA	2675	A
35	BA	2682	U
35	BA	2690	C
35	BA	2691	C
35	BA	2702	U
35	BA	2703	C
35	BA	2712(A)	A
35	BA	2713	A
35	BA	2720	U
35	BA	2726	U
35	BA	2733	A
35	BA	2752	C
35	BA	2754	U
35	BA	2759	G
35	BA	2762	G
35	BA	2763	G
35	BA	2765	A
35	BA	2778	A
35	BA	2779	U
35	BA	2781	A
35	BA	2789	C

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Mol	Chain	Res	Type
35	BA	2790	A
35	BA	2791	C
35	BA	2796	U
35	BA	2801(A)	A
35	BA	2802	G
35	BA	2803	C
35	BA	2808	U
35	BA	2821	A
35	BA	2823	A
35	BA	2833	G
35	BA	2834	G
35	BA	2835	A
35	BA	2849	U
35	BA	2860	A
35	BA	2864	G
35	BA	2872	G
35	BA	2893	G
36	BB	8	U
36	BB	13	A
36	BB	15	A
36	BB	16	G
36	BB	22	U
36	BB	24	G
36	BB	25	A
36	BB	27	C
36	BB	33	G
36	BB	41	U
36	BB	42	C
36	BB	45	A
36	BB	47	C
36	BB	53	A
36	BB	67	G
36	BB	73	A
36	BB	75	G
36	BB	88	C
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

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Mol	Chain	Res	Type
1	CA	51	A
1	CA	61	G
1	CA	65	U
1	CA	80	G
1	CA	81	U
1	CA	90	U
1	CA	97	G
1	CA	98	G
1	CA	116	A
1	CA	120	A
1	CA	121	C
1	CA	129(A)	G
1	CA	131	C
1	CA	146	G
1	CA	150	C
1	CA	172	A
1	CA	189(F)	U
1	CA	189(H)	G
1	CA	195	A
1	CA	197	A
1	CA	204	U
1	CA	244	U
1	CA	247	G
1	CA	251	G
1	CA	266	G
1	CA	267	C
1	CA	274	A
1	CA	279	A
1	CA	289	G
1	CA	316	G
1	CA	328	C
1	CA	329	A
1	CA	332	G
1	CA	345	C
1	CA	352	C
1	CA	353	A
1	CA	354	G
1	CA	367	U
1	CA	372	C
1	CA	397	A
1	CA	412	A
1	CA	413	G

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Mol	Chain	Res	Type
1	CA	414	A
1	CA	422	C
1	CA	423	G
1	CA	428	G
1	CA	429	U
1	CA	430	A
1	CA	435	C
1	CA	436	C
1	CA	437	U
1	CA	442	C
1	CA	452	A
1	CA	461	A
1	CA	482	A
1	CA	484	G
1	CA	485	G
1	CA	496	A
1	CA	498	U
1	CA	509	A
1	CA	510	A
1	CA	511	C
1	CA	518	C
1	CA	524	G
1	CA	527	G
1	CA	531	U
1	CA	532	A
1	CA	533	A
1	CA	534	U
1	CA	536	C
1	CA	547	A
1	CA	559	A
1	CA	561	U
1	CA	562	C
1	CA	564	C
1	CA	566	G
1	CA	572	A
1	CA	573	A
1	CA	575	G
1	CA	576	G
1	CA	577	G
1	CA	596	C
1	CA	631	G
1	CA	632	A

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Mol	Chain	Res	Type
1	CA	653	A
1	CA	687	A
1	CA	688	G
1	CA	731	G
1	CA	748	C
1	CA	749	C
1	CA	755	G
1	CA	793	U
1	CA	794	A
1	CA	803	G
1	CA	816	A
1	CA	817	C
1	CA	819	A
1	CA	820	U
1	CA	821	G
1	CA	828	A
1	CA	833	U
1	CA	839	U
1	CA	840	C
1	CA	841	U
1	CA	848	C
1	CA	859	A
1	CA	874	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	968	A
1	CA	969	A
1	CA	974	A
1	CA	975	A
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

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Mol	Chain	Res	Type
1	CA	1026	G
1	CA	1050	G
1	CA	1053	G
1	CA	1054	C
1	CA	1064	G
1	CA	1065	U
1	CA	1066	C
1	CA	1068	G
1	CA	1085	U
1	CA	1094	G
1	CA	1095	U
1	CA	1101	A
1	CA	1117	G
1	CA	1118	C
1	CA	1123	A
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	1137	C
1	CA	1138	G
1	CA	1139	G
1	CA	1146	A
1	CA	1147	C
1	CA	1152	A
1	CA	1159	U
1	CA	1184	G
1	CA	1187	G
1	CA	1190	G
1	CA	1196	U
1	CA	1197	G
1	CA	1212	U
1	CA	1213	A
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	1278	U

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Mol	Chain	Res	Type
1	CA	1280	A
1	CA	1281	U
1	CA	1282	C
1	CA	1286	A
1	CA	1287	A
1	CA	1294	G
1	CA	1297	C
1	CA	1300	G
1	CA	1301	U
1	CA	1302	U
1	CA	1305	G
1	CA	1317	C
1	CA	1320	C
1	CA	1322	C
1	CA	1325	C
1	CA	1331	G
1	CA	1335	C
1	CA	1347	G
1	CA	1364	U
1	CA	1398	A
1	CA	1419	G
1	CA	1442	G
1	CA	1442(A)	G
1	CA	1442(B)	A
1	CA	1443	G
1	CA	1447	A
1	CA	1452	C
1	CA	1456	G
1	CA	1457	G
1	CA	1492	A
1	CA	1494	G
1	CA	1499	A
1	CA	1504	G
1	CA	1505	G
1	CA	1506	U
1	CA	1517	G
1	CA	1518	A
1	CA	1519	A
1	CA	1529	G
1	CA	1530	G
23	CW	5	G
23	CW	7	G

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Mol	Chain	Res	Type
23	CW	8	U
23	CW	17	C
23	CW	18	U
23	CW	20	G
23	CW	21	U
23	CW	22	A
23	CW	24	C
23	CW	44	A
23	CW	48	U
23	CW	49	C
23	CW	54	G
23	CW	57	C
23	CW	60	A
23	CW	62	C
23	CW	66	C
23	CW	68	C
23	CW	73	A
23	CW	77	A
24	CX	13	A
24	CX	19	U
35	DA	10	G
35	DA	17	G
35	DA	28	A
35	DA	34	C
35	DA	35	G
35	DA	45	C
35	DA	49	A
35	DA	50	U
35	DA	51	G
35	DA	55	G
35	DA	68	G
35	DA	69	C
35	DA	71	A
35	DA	72	U
35	DA	73	A
35	DA	75	G
35	DA	83	G
35	DA	84	A
35	DA	85	G
35	DA	88	G
35	DA	90	U
35	DA	94	C

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Mol	Chain	Res	Type
35	DA	95	G
35	DA	99	U
35	DA	100	G
35	DA	102	G
35	DA	118	A
35	DA	120	U
35	DA	132	G
35	DA	139	G
35	DA	139(A)	G
35	DA	140	G
35	DA	142	A
35	DA	142(A)	C
35	DA	143(A)	C
35	DA	146	G
35	DA	149	A
35	DA	157	U
35	DA	158	U
35	DA	174	C
35	DA	182	A
35	DA	196	A
35	DA	197	A
35	DA	199	A
35	DA	205	G
35	DA	215	G
35	DA	216	A
35	DA	221	A
35	DA	222	A
35	DA	228	A
35	DA	229	A
35	DA	248	G
35	DA	249	C
35	DA	252	G
35	DA	261	G
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	G

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Mol	Chain	Res	Type
35	DA	272(B)	G
35	DA	272(H)	C
35	DA	274	G
35	DA	275	G
35	DA	283	A
35	DA	284	U
35	DA	286	C
35	DA	287	C
35	DA	292	C
35	DA	310	A
35	DA	311	A
35	DA	329	G
35	DA	330	A
35	DA	332	A
35	DA	333	G
35	DA	335	C
35	DA	343	C
35	DA	349	G
35	DA	352	G
35	DA	353	G
35	DA	356	G
35	DA	362	U
35	DA	363(F)	A
35	DA	365	C
35	DA	372	G
35	DA	386	G
35	DA	387	U
35	DA	388	G
35	DA	405	U
35	DA	406	G
35	DA	411	G
35	DA	412	A
35	DA	416	C
35	DA	418	G
35	DA	428	A
35	DA	444	C
35	DA	448	U
35	DA	451	C
35	DA	456	C
35	DA	457	A
35	DA	470	A
35	DA	475	U

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Mol	Chain	Res	Type
35	DA	481	G
35	DA	482	A
35	DA	494	G
35	DA	505	A
35	DA	508	G
35	DA	509	C
35	DA	512	G
35	DA	525	U
35	DA	529	A
35	DA	531	C
35	DA	532	A
35	DA	533	G
35	DA	537	C
35	DA	542	C
35	DA	543	C
35	DA	547	A
35	DA	548	A
35	DA	549	G
35	DA	551	G
35	DA	556	G
35	DA	562	U
35	DA	563	G
35	DA	572	A
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	614(A)	U
35	DA	614(B)	G
35	DA	614(C)	A
35	DA	615	G
35	DA	620	G
35	DA	622	G
35	DA	627	A
35	DA	637	A
35	DA	645	C
35	DA	646	A
35	DA	650	C
35	DA	652	C
35	DA	656	G

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Mol	Chain	Res	Type
35	DA	670	A
35	DA	671	C
35	DA	686	G
35	DA	687	C
35	DA	708	C
35	DA	717	G
35	DA	722	A
35	DA	730	C
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	791	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	846	C
35	DA	848	G
35	DA	857	C
35	DA	859	G
35	DA	864	G
35	DA	866	A
35	DA	878	A
35	DA	892	G
35	DA	896	A
35	DA	897	C
35	DA	898	C
35	DA	899	A
35	DA	904	C
35	DA	910	A
35	DA	917	A
35	DA	926	A
35	DA	932	G
35	DA	941	A
35	DA	945	A

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Mol	Chain	Res	Type
35	DA	946	G
35	DA	955	C
35	DA	956	G
35	DA	957	A
35	DA	958	U
35	DA	959	A
35	DA	961	C
35	DA	964	C
35	DA	965	C
35	DA	973	A
35	DA	974	G
35	DA	975	C
35	DA	980	A
35	DA	983	A
35	DA	985	C
35	DA	990	A
35	DA	991	C
35	DA	996	A
35	DA	1011	G
35	DA	1012	U
35	DA	1013	C
35	DA	1017	G
35	DA	1020	A
35	DA	1022	G
35	DA	1023	U
35	DA	1025	G
35	DA	1026	U
35	DA	1033	U
35	DA	1039	G
35	DA	1040	C
35	DA	1041	C
35	DA	1042	G
35	DA	1044	G
35	DA	1045	A
35	DA	1047	G
35	DA	1049	C
35	DA	1052	C
35	DA	1106	A
35	DA	1110	G
35	DA	1111	A
35	DA	1112	G
35	DA	1113	U

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Mol	Chain	Res	Type
35	DA	1115	G
35	DA	1129	A
35	DA	1130	U
35	DA	1135	C
35	DA	1136	G
35	DA	1143	A
35	DA	1155	A
35	DA	1156	A
35	DA	1159	U
35	DA	1173	G
35	DA	1174	A
35	DA	1175	U
35	DA	1176	G
35	DA	1177	A
35	DA	1178	C
35	DA	1194	A
35	DA	1195	G
35	DA	1205	U
35	DA	1210	A
35	DA	1211	U
35	DA	1212	G
35	DA	1218	C
35	DA	1221	C
35	DA	1241	A
35	DA	1247	A
35	DA	1248	G
35	DA	1249	U
35	DA	1251	C
35	DA	1253	A
35	DA	1254	A
35	DA	1255	U
35	DA	1256	G
35	DA	1265	A
35	DA	1271	G
35	DA	1272	A
35	DA	1276	A
35	DA	1281	G
35	DA	1300	U
35	DA	1301	A
35	DA	1302	A
35	DA	1314	C
35	DA	1319	G

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Mol	Chain	Res	Type
35	DA	1329	U
35	DA	1330	C
35	DA	1332	G
35	DA	1345	C
35	DA	1349	A
35	DA	1359	A
35	DA	1368	G
35	DA	1379	A
35	DA	1380	G
35	DA	1385	G
35	DA	1386	C
35	DA	1390	U
35	DA	1407	C
35	DA	1412	A
35	DA	1416	G
35	DA	1417	C
35	DA	1420	U
35	DA	1421	G
35	DA	1428	C
35	DA	1445	A
35	DA	1449	A
35	DA	1450	G
35	DA	1460	A
35	DA	1461	G
35	DA	1467	C
35	DA	1471	A
35	DA	1475	G
35	DA	1478	G
35	DA	1482	G
35	DA	1484	G
35	DA	1485	G
35	DA	1490	A
35	DA	1493	C
35	DA	1494	A
35	DA	1495	A
35	DA	1497	U
35	DA	1498	C
35	DA	1502	C
35	DA	1505	C
35	DA	1508	A
35	DA	1509	C
35	DA	1509(A)	A

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Mol	Chain	Res	Type
35	DA	1528(A)	A
35	DA	1529	G
35	DA	1530	C
35	DA	1532	C
35	DA	1533	G
35	DA	1543	C
35	DA	1545	A
35	DA	1547	C
35	DA	1554	A
35	DA	1558	A
35	DA	1559	G
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	1591	G
35	DA	1594	G
35	DA	1595	G
35	DA	1603	A
35	DA	1608	A
35	DA	1609	A
35	DA	1610	A
35	DA	1613	G
35	DA	1614	A
35	DA	1615	C
35	DA	1616	A
35	DA	1617	C
35	DA	1635	G
35	DA	1640	C
35	DA	1648	C
35	DA	1654	A
35	DA	1674	G
35	DA	1678	G
35	DA	1694	C
35	DA	1696	G
35	DA	1707	G
35	DA	1718	G
35	DA	1739	U
35	DA	1741	A
35	DA	1742	G

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Mol	Chain	Res	Type
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	1791	A
35	DA	1799	G
35	DA	1800	C
35	DA	1816	G
35	DA	1820	U
35	DA	1835	G
35	DA	1847	A
35	DA	1854	A
35	DA	1858	G
35	DA	1865	G
35	DA	1866	C
35	DA	1877	A
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	1903	G
35	DA	1906	G
35	DA	1912	A
35	DA	1913	A
35	DA	1929	G
35	DA	1936	A
35	DA	1938	A
35	DA	1955	U
35	DA	1963	U
35	DA	1964	G
35	DA	1965	C
35	DA	1967	C
35	DA	1969	A
35	DA	1971	A
35	DA	1972	A
35	DA	1987	G
35	DA	1988	C
35	DA	1991	U

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Mol	Chain	Res	Type
35	DA	1993	U
35	DA	2023	G
35	DA	2026	C
35	DA	2031	A
35	DA	2033	A
35	DA	2034	U
35	DA	2036	C
35	DA	2043	C
35	DA	2051	A
35	DA	2055	C
35	DA	2056	G
35	DA	2060	A
35	DA	2061	G
35	DA	2062	A
35	DA	2069	G
35	DA	2093	G
35	DA	2099	U
35	DA	2103	C
35	DA	2104	G
35	DA	2108	C
35	DA	2110	G
35	DA	2111	C
35	DA	2112	G
35	DA	2116	G
35	DA	2117	A
35	DA	2118	U
35	DA	2119	A
35	DA	2120	G
35	DA	2122	U
35	DA	2127	G
35	DA	2128	C
35	DA	2163	C
35	DA	2164	C
35	DA	2165	G
35	DA	2166	G
35	DA	2169	A
35	DA	2171	A
35	DA	2172	U
35	DA	2173	A
35	DA	2176	A
35	DA	2179	C
35	DA	2185	C

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Mol	Chain	Res	Type
35	DA	2187	G
35	DA	2190	G
35	DA	2198	A
35	DA	2199	A
35	DA	2200	C
35	DA	2207	G
35	DA	2208	A
35	DA	2218	U
35	DA	2225	A
35	DA	2226	C
35	DA	2238	G
35	DA	2239	G
35	DA	2243	U
35	DA	2251	G
35	DA	2263	C
35	DA	2275	C
35	DA	2283	C
35	DA	2285	C
35	DA	2287	A
35	DA	2290	G
35	DA	2294	C
35	DA	2297	C
35	DA	2305	A
35	DA	2307	G
35	DA	2308	G
35	DA	2311	A
35	DA	2313	C
35	DA	2316	C
35	DA	2319	G
35	DA	2320	A
35	DA	2325	G
35	DA	2334	G
35	DA	2336	A
35	DA	2345	G
35	DA	2347	C
35	DA	2349	G
35	DA	2358	G
35	DA	2383	G
35	DA	2385	C
35	DA	2387	U
35	DA	2388	A
35	DA	2398	U

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Mol	Chain	Res	Type
35	DA	2399	G
35	DA	2400	G
35	DA	2402	C
35	DA	2408	U
35	DA	2423	U
35	DA	2425	A
35	DA	2427	C
35	DA	2428	G
35	DA	2429	G
35	DA	2430	A
35	DA	2431	U
35	DA	2439	A
35	DA	2441	C
35	DA	2447	G
35	DA	2448	A
35	DA	2465	C
35	DA	2469	A
35	DA	2470	G
35	DA	2474	C
35	DA	2476	A
35	DA	2478	A
35	DA	2482	G
35	DA	2483	C
35	DA	2490	G
35	DA	2491	U
35	DA	2498	C
35	DA	2502	G
35	DA	2505	G
35	DA	2518	A
35	DA	2520	C
35	DA	2523	G
35	DA	2529	G
35	DA	2534	A
35	DA	2543	G
35	DA	2554	U
35	DA	2559	C
35	DA	2566	A
35	DA	2567	G
35	DA	2571	C
35	DA	2572	A
35	DA	2573	C
35	DA	2582	G

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Mol	Chain	Res	Type
35	DA	2585	U
35	DA	2586	C
35	DA	2602	A
35	DA	2609	U
35	DA	2610	C
35	DA	2611	U
35	DA	2612	C
35	DA	2615	U
35	DA	2630	G
35	DA	2640	G
35	DA	2646	C
35	DA	2655	G
35	DA	2673	G
35	DA	2675	A
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	2752	C
35	DA	2754	U
35	DA	2759	G
35	DA	2762	G
35	DA	2763	G
35	DA	2765	A
35	DA	2766	G
35	DA	2778	A
35	DA	2779	U
35	DA	2780	G
35	DA	2781	A
35	DA	2789	C
35	DA	2790	A
35	DA	2791	C
35	DA	2796	U
35	DA	2801(A)	A
35	DA	2802	G

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Mol	Chain	Res	Type
35	DA	2803	C
35	DA	2808	U
35	DA	2821	A
35	DA	2823	A
35	DA	2833	G
35	DA	2834	G
35	DA	2835	A
35	DA	2849	U
35	DA	2860	A
35	DA	2864	G
35	DA	2872	G
35	DA	2893	G
36	DB	8	U
36	DB	13	A
36	DB	15	A
36	DB	16	G
36	DB	22	U
36	DB	24	G
36	DB	25	A
36	DB	27	C
36	DB	33	G
36	DB	41	U
36	DB	42	C
36	DB	45	A
36	DB	47	C
36	DB	53	A
36	DB	67	G
36	DB	73	A
36	DB	75	G
36	DB	88	C
36	DB	110	G

All (176) 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

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Mol	Chain	Res	Type
1	AA	266	G
1	AA	328	C
1	AA	366	C
1	AA	428	G
1	AA	429	U
1	AA	484	G
1	AA	509	A
1	AA	533	A
1	AA	560	U
1	AA	575	G
1	AA	687	A
1	AA	748	C
1	AA	913	A
1	AA	992	U
1	AA	1049	U
1	AA	1064	G
1	AA	1065	U
1	AA	1067	A
1	AA	1281	U
1	AA	1285	A
1	AA	1300	G
1	AA	1442(A)	G
1	AA	1498	U
1	AA	1504	G
35	BA	27	G
35	BA	49	A
35	BA	71	A
35	BA	74	A
35	BA	214	G
35	BA	221	A
35	BA	272	G
35	BA	283	A
35	BA	331	A
35	BA	332	A
35	BA	334	C
35	BA	387	U
35	BA	474	G
35	BA	481	G
35	BA	542	C
35	BA	587	C
35	BA	603	A
35	BA	614(C)	A

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Mol	Chain	Res	Type
35	BA	651	G
35	BA	669	G
35	BA	670	A
35	BA	752	A
35	BA	856	C
35	BA	1022	G
35	BA	1112	G
35	BA	1176	G
35	BA	1210	A
35	BA	1275	A
35	BA	1300	U
35	BA	1301	A
35	BA	1378	A
35	BA	1427	A
35	BA	1459	G
35	BA	1558	A
35	BA	1612	C
35	BA	1653	G
35	BA	1799	G
35	BA	1819	A
35	BA	1912	A
35	BA	1935	G
35	BA	1937	A
35	BA	1962	C
35	BA	1970	A
35	BA	1987	G
35	BA	1992	G
35	BA	2033	A
35	BA	2126	A
35	BA	2128	C
35	BA	2225	A
35	BA	2282	G
35	BA	2290	G
35	BA	2313	C
35	BA	2422	A
35	BA	2481	G
35	BA	2610	C
35	BA	2689	U
35	BA	2859	G
36	BB	66	A
1	CA	30	U
1	CA	60	A

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Mol	Chain	Res	Type
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	328	C
1	CA	366	C
1	CA	428	G
1	CA	429	U
1	CA	484	G
1	CA	509	A
1	CA	533	A
1	CA	560	U
1	CA	575	G
1	CA	687	A
1	CA	748	C
1	CA	913	A
1	CA	992	U
1	CA	1049	U
1	CA	1064	G
1	CA	1065	U
1	CA	1067	A
1	CA	1281	U
1	CA	1285	A
1	CA	1300	G
1	CA	1498	U
35	DA	27	G
35	DA	49	A
35	DA	71	A
35	DA	74	A
35	DA	214	G
35	DA	221	A
35	DA	272	G
35	DA	283	A
35	DA	331	A
35	DA	332	A
35	DA	334	C
35	DA	387	U
35	DA	474	G
35	DA	481	G
35	DA	542	C

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Mol	Chain	Res	Type
35	DA	587	C
35	DA	603	A
35	DA	614(C)	A
35	DA	651	G
35	DA	669	G
35	DA	670	A
35	DA	752	A
35	DA	856	C
35	DA	1022	G
35	DA	1112	G
35	DA	1176	G
35	DA	1210	A
35	DA	1275	A
35	DA	1300	U
35	DA	1301	A
35	DA	1378	A
35	DA	1427	A
35	DA	1459	G
35	DA	1558	A
35	DA	1612	C
35	DA	1653	G
35	DA	1799	G
35	DA	1819	A
35	DA	1912	A
35	DA	1935	G
35	DA	1937	A
35	DA	1962	C
35	DA	1970	A
35	DA	1987	G
35	DA	1992	G
35	DA	2033	A
35	DA	2126	A
35	DA	2128	C
35	DA	2225	A
35	DA	2282	G
35	DA	2313	C
35	DA	2422	A
35	DA	2481	G
35	DA	2610	C
35	DA	2689	U
35	DA	2763	G
35	DA	2859	G

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Mol	Chain	Res	Type
36	DB	66	A

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

2 non-standard protein/DNA/RNA residues are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
23	5MU	AW	55	23	20,22,23	1.18	3 (15%)	25,32,35	1.36	3 (12%)
23	5MU	CW	55	23	20,22,23	1.18	4 (20%)	25,32,35	1.30	3 (12%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
23	5MU	AW	55	23	-	0/6/25/26	0/2/2/2
23	5MU	CW	55	23	-	0/6/25/26	0/2/2/2

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	AW	55	5MU	P-OP1	2.85	1.50	1.46
23	CW	55	5MU	P-OP1	2.61	1.49	1.46
23	AW	55	5MU	C6-N1	2.44	1.38	1.34
23	CW	55	5MU	C6-N1	2.40	1.38	1.34
23	CW	55	5MU	C6-C5	-2.22	1.34	1.40
23	AW	55	5MU	C6-C5	-2.09	1.34	1.40
23	CW	55	5MU	C4-C5	2.07	1.45	1.40

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	AW	55	5MU	C6-N1-C2	-4.97	121.00	122.41
23	CW	55	5MU	C6-N1-C2	-4.32	121.18	122.41
23	AW	55	5MU	C5-C6-N1	2.26	124.05	122.02
23	CW	55	5MU	C5-C6-N1	2.23	124.02	122.02
23	CW	55	5MU	C5M-C5-C6	2.02	122.80	118.61
23	AW	55	5MU	C5M-C5-C6	2.00	122.77	118.61

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

5.5 Carbohydrates

There are no carbohydrates in this entry.

5.6 Ligand geometry

Of 1486 ligands modelled in this entry, 1486 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

The following chains have linkage breaks:

Mol	Chain	Number of breaks
13	CM	5
13	AM	5
9	AI	2
9	CI	2

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Mol	Chain	Number of breaks
52	DV	1
41	DG	1
41	BG	1
52	BV	1
32	D6	1
32	B6	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B6	46:HIS	C	47:THR	N	6.15
1	D6	46:HIS	C	47:THR	N	6.12
1	CI	53:VAL	C	54:ASP	N	5.30
1	AI	53:VAL	C	54:ASP	N	5.29
1	DG	112:PRO	C	113:ARG	N	4.36
1	CM	69:GLU	C	70:LEU	N	4.32
1	AM	69:GLU	C	70:LEU	N	4.30
1	DV	80:GLN	C	81:TYR	N	3.61
1	CM	112:GLY	C	113:PRO	N	3.58
1	AM	112:GLY	C	113:PRO	N	3.57
1	BV	80:GLN	C	81:TYR	N	3.57
1	CM	118:ALA	C	119:GLY	N	3.52
1	AM	118:ALA	C	119:GLY	N	3.48
1	CI	104:ARG	C	105:ASP	N	3.03
1	BG	112:PRO	C	113:ARG	N	3.00
1	AI	104:ARG	C	105:ASP	N	2.98
1	AM	97:PRO	C	98:VAL	N	2.93
1	CM	97:PRO	C	98:VAL	N	2.92
1	CM	65:LYS	C	66:LEU	N	2.52
1	AM	65:LYS	C	66:LEU	N	2.50

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	AA	1504/1522 (98%)	0.47	129 (8%) 11 6	15, 82, 177, 200	0
1	CA	1504/1522 (98%)	0.63	160 (10%) 7 4	20, 90, 190, 200	0
2	AB	235/256 (91%)	0.49	22 (9%) 9 5	19, 113, 188, 200	0
2	CB	235/256 (91%)	0.46	19 (8%) 12 6	26, 127, 188, 200	0
3	AC	207/239 (86%)	0.22	13 (6%) 19 8	11, 98, 175, 200	0
3	CC	207/239 (86%)	0.37	13 (6%) 19 8	38, 121, 183, 200	0
4	AD	208/209 (99%)	0.13	5 (2%) 56 26	13, 75, 145, 200	0
4	CD	208/209 (99%)	0.07	6 (2%) 49 23	25, 89, 155, 200	0
5	AE	151/162 (93%)	0.15	5 (3%) 44 20	21, 73, 158, 190	0
5	CE	151/162 (93%)	0.36	4 (2%) 53 24	26, 89, 157, 200	0
6	AF	101/101 (100%)	0.17	5 (4%) 28 12	19, 100, 151, 189	0
6	CF	101/101 (100%)	0.02	2 (1%) 62 30	16, 83, 141, 170	0
7	AG	155/156 (99%)	0.37	14 (9%) 10 6	34, 104, 175, 194	0
7	CG	155/156 (99%)	0.35	11 (7%) 16 7	53, 123, 185, 200	0
8	AH	138/138 (100%)	0.05	3 (2%) 59 28	33, 81, 145, 190	0
8	CH	138/138 (100%)	-0.03	3 (2%) 59 28	30, 91, 147, 165	0
9	AI	127/128 (99%)	0.15	4 (3%) 47 22	27, 123, 180, 200	0
9	CI	127/128 (99%)	0.93	23 (18%) 2 2	43, 140, 195, 200	0
10	AJ	99/105 (94%)	0.54	8 (8%) 12 6	47, 120, 180, 200	0
10	CJ	99/105 (94%)	1.28	21 (21%) 1 2	65, 140, 189, 200	0
11	AK	119/129 (92%)	0.59	11 (9%) 9 5	13, 78, 163, 187	0
11	CK	119/129 (92%)	0.56	9 (7%) 14 7	30, 86, 164, 200	0
12	AL	125/135 (92%)	-0.03	0 100 100	19, 71, 146, 200	0
12	CL	125/135 (92%)	0.11	1 (0%) 83 53	12, 75, 143, 200	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	AM	125/126 (99%)	0.39	13 (10%) 7 5	56, 124, 183, 200	0
13	CM	125/126 (99%)	0.33	10 (8%) 12 7	41, 140, 199, 200	0
14	AN	60/61 (98%)	0.28	2 (3%) 44 20	38, 94, 181, 200	0
14	CN	60/61 (98%)	0.36	2 (3%) 44 20	57, 117, 171, 189	0
15	AO	88/89 (98%)	-0.20	1 (1%) 77 44	11, 84, 147, 172	0
15	CO	88/89 (98%)	-0.02	2 (2%) 57 27	18, 88, 146, 167	0
16	AP	84/88 (95%)	0.19	3 (3%) 41 18	17, 64, 135, 200	0
16	CP	84/88 (95%)	0.61	12 (14%) 3 3	32, 90, 139, 199	0
17	AQ	100/105 (95%)	0.35	10 (10%) 8 5	15, 81, 143, 200	0
17	CQ	100/105 (95%)	0.41	10 (10%) 8 5	20, 84, 134, 200	0
18	AR	70/88 (79%)	0.31	3 (4%) 34 14	33, 87, 156, 200	0
18	CR	70/88 (79%)	0.38	4 (5%) 23 10	17, 79, 137, 170	0
19	AS	79/93 (84%)	0.46	7 (8%) 10 6	60, 134, 200, 200	0
19	CS	79/93 (84%)	0.59	9 (11%) 6 4	76, 140, 200, 200	0
20	AT	99/106 (93%)	0.31	8 (8%) 12 6	21, 91, 178, 200	0
20	CT	99/106 (93%)	0.24	7 (7%) 16 7	45, 102, 167, 197	0
21	AU	25/27 (92%)	1.02	6 (24%) 1 2	59, 114, 161, 200	0
21	CU	25/27 (92%)	1.96	11 (44%) 1 1	58, 131, 182, 200	0
22	AV	17/76 (22%)	0.38	2 (11%) 5 4	55, 68, 122, 125	0
22	CV	17/76 (22%)	0.01	0 100 100	56, 73, 128, 131	0
23	AW	77/77 (100%)	3.63	43 (55%) 0 1	63, 176, 200, 200	0
23	CW	77/77 (100%)	5.10	56 (72%) 0 0	62, 190, 200, 200	0
24	AX	11/31 (35%)	-0.05	0 100 100	23, 72, 120, 172	0
24	CX	11/31 (35%)	-0.14	0 100 100	41, 63, 93, 196	0
25	AY	185/185 (100%)	0.37	11 (5%) 22 9	27, 99, 167, 200	0
25	CY	185/185 (100%)	0.30	16 (8%) 11 6	9, 93, 166, 198	0
26	B0	85/85 (100%)	0.70	10 (11%) 5 4	21, 80, 184, 199	0
26	D0	85/85 (100%)	0.84	10 (11%) 5 4	39, 95, 174, 200	0
27	B1	89/98 (90%)	0.10	6 (6%) 17 8	5, 64, 138, 193	0
27	D1	89/98 (90%)	-0.10	1 (1%) 77 44	5, 62, 133, 200	0
28	B2	51/72 (70%)	-0.17	1 (1%) 62 30	44, 103, 157, 200	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
28	D2	51/72 (70%)	0.24	4 (7%) 13 7	24, 93, 168, 200	0
29	B3	60/60 (100%)	0.29	1 (1%) 67 34	15, 81, 158, 200	0
29	D3	60/60 (100%)	0.23	3 (5%) 28 12	21, 85, 167, 200	0
30	B4	50/71 (70%)	0.07	0 100 100	71, 144, 192, 200	0
30	D4	50/71 (70%)	0.44	5 (10%) 8 5	86, 167, 192, 200	0
31	B5	59/60 (98%)	0.26	3 (5%) 27 11	22, 84, 184, 200	0
31	D5	59/60 (98%)	-0.05	0 100 100	6, 74, 191, 200	0
32	B6	45/54 (83%)	0.83	6 (13%) 4 3	53, 122, 184, 200	0
32	D6	45/54 (83%)	1.14	8 (17%) 2 2	54, 147, 188, 200	0
33	B7	49/49 (100%)	0.20	1 (2%) 62 30	5, 47, 114, 200	0
33	D7	49/49 (100%)	0.18	1 (2%) 62 30	3, 44, 105, 176	0
34	B8	64/65 (98%)	0.08	0 100 100	7, 53, 145, 200	0
34	D8	64/65 (98%)	0.14	2 (3%) 47 22	27, 73, 140, 185	0
35	BA	2767/2782 (99%)	0.50	290 (10%) 7 5	9, 65, 172, 200	0
35	DA	2767/2782 (99%)	0.50	262 (9%) 8 5	6, 62, 169, 200	0
36	BB	119/122 (97%)	0.67	14 (11%) 5 4	60, 102, 160, 189	0
36	DB	119/122 (97%)	0.99	19 (15%) 3 2	69, 140, 188, 200	0
37	BC	191/229 (83%)	1.56	54 (28%) 1 1	76, 175, 200, 200	0
38	BD	272/276 (98%)	-0.13	0 100 100	8, 56, 122, 200	0
38	DD	272/276 (98%)	-0.19	1 (0%) 90 71	1, 47, 114, 200	0
39	BE	205/206 (99%)	0.40	14 (6%) 17 8	10, 75, 160, 200	0
39	DE	205/206 (99%)	0.12	3 (1%) 70 36	7, 64, 153, 199	0
40	BF	208/210 (99%)	0.06	8 (3%) 38 17	1, 69, 164, 200	0
40	DF	208/210 (99%)	0.04	5 (2%) 56 26	6, 75, 170, 200	0
41	BG	181/182 (99%)	0.56	25 (13%) 4 3	36, 107, 171, 200	0
41	DG	181/182 (99%)	0.77	29 (16%) 3 2	45, 135, 191, 200	0
42	BH	160/180 (88%)	0.68	19 (11%) 5 4	47, 145, 200, 200	0
42	DH	160/180 (88%)	0.29	10 (6%) 19 8	36, 110, 180, 200	0
43	BI	146/148 (98%)	0.33	9 (6%) 20 9	25, 112, 184, 200	0
43	DI	146/148 (98%)	1.28	38 (26%) 1 2	17, 134, 200, 200	0
44	BN	139/140 (99%)	0.03	3 (2%) 59 28	37, 98, 160, 200	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
44	DN	139/140 (99%)	-0.05	1 (0%) 84 56	19, 76, 152, 195	0
45	BO	122/122 (100%)	0.11	2 (1%) 68 35	15, 63, 116, 133	0
45	DO	122/122 (100%)	-0.11	0 100 100	10, 49, 100, 128	0
46	BP	146/150 (97%)	0.35	11 (7%) 14 7	6, 84, 167, 200	0
46	DP	146/150 (97%)	0.46	9 (6%) 20 9	18, 93, 168, 199	0
47	BQ	136/141 (96%)	0.19	6 (4%) 33 14	26, 90, 187, 200	0
47	DQ	136/141 (96%)	-0.04	3 (2%) 59 28	16, 73, 158, 200	0
48	BR	117/118 (99%)	-0.11	0 100 100	8, 66, 138, 198	0
48	DR	117/118 (99%)	-0.13	0 100 100	8, 64, 136, 180	0
49	BS	99/112 (88%)	0.45	9 (9%) 9 5	32, 105, 186, 200	0
49	DS	99/112 (88%)	1.19	24 (24%) 1 2	62, 133, 182, 200	0
50	BT	138/146 (94%)	0.15	5 (3%) 41 18	21, 96, 190, 200	0
50	DT	138/146 (94%)	0.19	8 (5%) 22 9	17, 84, 173, 200	0
51	BU	117/118 (99%)	0.10	7 (5%) 21 9	15, 79, 161, 182	0
51	DU	117/118 (99%)	0.12	2 (1%) 67 34	12, 65, 141, 194	0
52	BV	101/101 (100%)	0.67	12 (11%) 5 4	26, 106, 188, 200	0
52	DV	101/101 (100%)	0.21	5 (4%) 28 12	29, 100, 178, 200	0
53	BW	113/113 (100%)	-0.11	1 (0%) 81 51	8, 55, 134, 200	0
53	DW	113/113 (100%)	-0.09	0 100 100	16, 66, 148, 200	0
54	BX	93/96 (96%)	-0.03	1 (1%) 77 44	12, 83, 163, 200	0
54	DX	93/96 (96%)	0.10	0 100 100	18, 79, 147, 185	0
55	BY	101/110 (91%)	-0.03	3 (2%) 48 22	16, 94, 187, 200	0
55	DY	101/110 (91%)	0.31	8 (7%) 13 7	21, 108, 187, 200	0
56	BZ	177/206 (85%)	0.20	7 (3%) 36 16	46, 113, 178, 200	0
56	DZ	177/206 (85%)	0.38	11 (6%) 20 9	11, 114, 180, 200	0
57	DC	191/229 (83%)	1.98	86 (45%) 1 1	120, 180, 200, 200	0
All	All	21178/22108 (95%)	0.44	1825 (8%) 11 6	1, 84, 184, 200	0

All (1825) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
23	CW	7	G	21.3
35	DA	897	C	20.9

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Mol	Chain	Res	Type	RSRZ
1	CA	88	A	18.7
23	CW	50	G	18.3
35	BA	897	C	17.3
35	DA	2174	C	17.0
23	AW	60	A	13.7
1	CA	89	C	13.7
23	CW	8	U	13.3
23	CW	35	C	12.9
23	AW	50	G	12.9
1	AA	1027	C	12.7
23	AW	7	G	12.5
1	AA	1026	G	12.5
23	CW	6	G	12.3
32	D6	43	CYS	11.8
23	CW	49	C	11.7
1	CA	90	U	11.7
35	DA	1531	C	11.5
35	DA	2109	U	11.3
1	CA	1027	C	11.1
23	CW	11	A	11.0
23	CW	22	A	10.9
43	DI	67	ARG	10.9
23	AW	16	C	10.7
23	AW	8	U	10.7
23	CW	33	C	10.7
37	BC	77	ILE	10.6
37	BC	178	ALA	10.5
27	D1	96	LYS	10.4
1	CA	1026	G	10.3
23	AW	20	G	10.3
26	D0	7	LEU	9.9
46	DP	119	GLU	9.8
10	CJ	71	LEU	9.7
23	AW	61	U	9.5
35	DA	2802	G	9.4
37	BC	34	THR	9.4
35	BA	2791	C	9.1
35	DA	895	U	9.0
36	DB	4	C	9.0
43	DI	70	GLU	8.9
43	DI	66	GLU	8.8
35	BA	334	C	8.6

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Mol	Chain	Res	Type	RSRZ
36	DB	27	C	8.6
23	CW	34	U	8.6
23	CW	51	U	8.6
23	CW	15	G	8.6
26	D0	8	ALA	8.5
57	DC	38	ASP	8.5
23	AW	15	G	8.4
23	CW	21	U	8.4
41	DG	135	LEU	8.4
35	BA	1467	C	8.4
35	BA	1496	A	8.3
10	CJ	38	ILE	8.3
47	BQ	140	ALA	8.3
1	CA	1009	G	8.3
35	DA	2892	A	8.3
23	CW	61	U	8.3
23	CW	62	C	8.2
23	CW	32	G	8.2
23	AW	33	C	8.2
43	DI	71	ILE	8.1
35	BA	1527	G	8.1
57	DC	178	ALA	8.0
23	AW	49	C	8.0
32	B6	45	LYS	8.0
23	CW	10	G	8.0
41	DG	89	GLY	8.0
55	DY	52	SER	8.0
27	B1	96	LYS	7.8
23	AW	9	G	7.8
47	BQ	141	GLN	7.8
26	D0	6	ALA	7.8
23	AW	22	A	7.7
41	DG	134	GLY	7.7
35	DA	2173	A	7.6
35	DA	2175	C	7.6
35	BA	2892	A	7.6
35	BA	2792	G	7.6
42	BH	44	VAL	7.6
41	DG	88	ILE	7.5
35	BA	2793	G	7.5
23	AW	59	A	7.5
23	CW	36	A	7.5

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Mol	Chain	Res	Type	RSRZ
1	CA	84	U	7.5
35	BA	289	A	7.5
23	CW	60	A	7.4
35	BA	1048	A	7.4
37	BC	35	ALA	7.4
35	DA	2169	A	7.4
41	DG	155	MET	7.3
35	BA	2169	A	7.3
35	BA	1450	G	7.2
35	DA	2117	A	7.1
37	BC	95	GLY	7.1
35	DA	2113	U	7.1
35	DA	896	A	7.1
37	BC	96	GLY	7.1
35	DA	75	G	7.0
35	DA	2168	G	7.0
57	DC	179	SER	7.0
23	CW	23	G	7.0
26	B0	5	LYS	7.0
20	CT	104	LEU	6.9
1	AA	1005	A	6.9
32	D6	40	CYS	6.9
57	DC	181	PRO	6.9
23	CW	20	G	6.8
41	DG	41	GLN	6.8
41	BG	89	GLY	6.8
7	AG	84	ASN	6.7
37	BC	120	MET	6.7
35	BA	2170	A	6.7
1	AA	1034	G	6.7
1	CA	993	G	6.7
23	CW	9	G	6.7
57	DC	122	ALA	6.7
43	DI	108	THR	6.7
36	BB	5	C	6.7
35	BA	2893	G	6.7
57	DC	183	GLU	6.6
7	AG	86	GLN	6.6
23	AW	21	U	6.6
35	DA	2170	A	6.5
26	B0	3	HIS	6.5
23	AW	34	U	6.5

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Mol	Chain	Res	Type	RSRZ
57	DC	172	HIS	6.5
35	DA	2126	A	6.5
35	BA	1526	G	6.5
36	DB	56	G	6.5
23	CW	54	G	6.4
40	BF	12	LEU	6.4
26	B0	6	ALA	6.4
23	CW	24	C	6.4
23	CW	63	C	6.4
23	AW	11	A	6.4
10	CJ	4	ILE	6.4
2	AB	35	GLU	6.4
23	AW	52	C	6.4
37	BC	40	THR	6.4
37	BC	78	ALA	6.4
23	CW	59	A	6.3
23	CW	14	A	6.3
1	AA	1086	U	6.3
35	DA	2116	G	6.2
7	AG	85	TYR	6.2
35	BA	279	C	6.2
1	CA	81	U	6.2
23	CW	58	A	6.2
35	BA	899	A	6.2
35	BA	1507	A	6.2
23	AW	35	C	6.2
1	CA	80	G	6.2
35	DA	2789	C	6.2
35	BA	2795	G	6.1
1	CA	1025	U	6.1
26	D0	85	ALA	6.1
23	AW	58	A	6.1
35	BA	1546	C	6.1
35	DA	2115	G	6.1
37	BC	122	ALA	6.0
1	CA	1094	G	6.0
43	DI	92	VAL	6.0
23	AW	51	U	6.0
23	AW	32	G	6.0
23	AW	53	G	6.0
1	CA	1086	U	6.0
17	CQ	69	LYS	5.9

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Mol	Chain	Res	Type	RSRZ
37	BC	121	GLY	5.9
35	BA	2794	C	5.9
37	BC	90	GLY	5.9
35	BA	1044	G	5.9
35	DA	877	U	5.9
41	BG	39	ILE	5.9
35	BA	1110	G	5.9
35	DA	1448	G	5.9
35	DA	1530	C	5.9
1	AA	1025	U	5.8
43	DI	143	SER	5.8
23	AW	47	G	5.8
35	DA	1865	G	5.8
56	DZ	28	MET	5.8
35	DA	2114	A	5.8
35	DA	878	A	5.7
43	DI	84	GLY	5.7
37	BC	39	GLU	5.7
35	DA	2790	A	5.7
57	DC	177	LYS	5.7
47	BQ	139	GLU	5.7
35	BA	1422	G	5.7
57	DC	176	GLY	5.7
41	BG	42	GLY	5.7
57	DC	78	ALA	5.6
23	CW	57	C	5.6
23	CW	56	U	5.6
1	CA	1028	C	5.6
23	AW	13	C	5.6
10	CJ	5	ARG	5.6
23	CW	12	G	5.6
1	CA	1043	C	5.6
23	AW	6	G	5.6
35	DA	1544	A	5.6
35	DA	275	G	5.6
35	DA	2172	U	5.5
35	DA	271(J)	C	5.5
36	DB	5	C	5.5
35	DA	2108	C	5.5
35	BA	896	A	5.5
1	CA	82	U	5.5
35	BA	2796	U	5.5

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Mol	Chain	Res	Type	RSRZ
1	CA	83	U	5.4
35	BA	290	G	5.4
35	DA	919	G	5.4
35	BA	1578	U	5.4
35	BA	2122	U	5.4
1	CA	91	C	5.4
41	BG	90	LEU	5.4
57	DC	85	GLU	5.3
57	DC	222	VAL	5.3
35	DA	290	G	5.3
26	B0	4	LYS	5.3
35	DA	11	G	5.3
35	DA	2121	G	5.3
50	DT	39	ARG	5.3
35	BA	1509(A)	A	5.2
21	CU	26	LYS	5.2
57	DC	180	PHE	5.2
35	BA	75	G	5.2
57	DC	132	ALA	5.2
23	CW	1	C	5.2
35	DA	1527	G	5.2
3	AC	79	ARG	5.2
2	AB	90	MET	5.2
35	BA	708	C	5.2
35	DA	2893	G	5.2
35	BA	1506	C	5.2
43	DI	90	GLY	5.2
35	DA	2120	G	5.2
37	BC	108	MET	5.2
1	AA	1220	G	5.2
35	DA	1450	G	5.2
23	CW	55	5MU	5.2
43	DI	119	PRO	5.2
35	DA	2801(A)	A	5.1
36	BB	4	C	5.1
35	DA	12	U	5.1
35	BA	1111	A	5.1
1	AA	1030(B)	C	5.1
23	CW	26	C	5.1
1	CA	1217	C	5.1
37	BC	41	VAL	5.1
43	DI	69	LYS	5.0

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Mol	Chain	Res	Type	RSRZ
1	AA	1035	A	5.0
41	DG	90	LEU	5.0
35	BA	2173	A	5.0
35	BA	301	G	5.0
43	DI	130	TYR	5.0
4	AD	36	ARG	5.0
49	DS	33	LYS	5.0
35	DA	894	C	5.0
35	BA	2121	G	5.0
10	CJ	70	ARG	5.0
23	CW	2	G	5.0
57	DC	154	ARG	5.0
35	BA	2174	C	4.9
35	DA	2801	A	4.9
37	BC	119	VAL	4.9
35	DA	2313	C	4.9
23	CW	19	G	4.9
35	DA	2891	G	4.9
35	DA	1499	C	4.9
11	CK	80	VAL	4.9
19	CS	82	GLY	4.9
56	DZ	27	VAL	4.9
2	AB	40	HIS	4.8
35	DA	900	A	4.8
7	CG	4	ARG	4.8
55	DY	50	ARG	4.8
1	CA	994	A	4.8
2	CB	18	GLY	4.8
35	DA	271(I)	G	4.8
57	DC	182	PRO	4.8
35	BA	30	G	4.8
20	AT	104	LEU	4.8
43	BI	146	ALA	4.8
1	AA	1021	G	4.8
49	DS	34	HIS	4.8
1	AA	97	G	4.8
49	DS	37	ALA	4.8
35	BA	288	C	4.7
1	CA	181	G	4.7
13	AM	7	VAL	4.7
21	CU	24	ARG	4.7
35	DA	1864	U	4.7

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Mol	Chain	Res	Type	RSRZ
37	BC	124	GLY	4.7
35	BA	895	U	4.7
35	BA	2382	G	4.7
35	BA	2189	U	4.7
35	DA	271(N)	U	4.7
32	D6	39	TYR	4.7
57	DC	88	GLU	4.7
57	DC	133	PRO	4.7
23	AW	12	G	4.7
57	DC	37	PHE	4.7
41	BG	43	LEU	4.6
35	BA	1450(A)	C	4.6
32	D6	42	TRP	4.6
23	AW	62	C	4.6
19	CS	40	ILE	4.6
35	BA	2172	U	4.6
47	DQ	140	ALA	4.6
13	AM	125	ARG	4.6
23	AW	23	G	4.6
35	DA	1422	G	4.6
35	DA	1505	C	4.6
42	BH	58	GLU	4.6
57	DC	215	THR	4.6
57	DC	23	ASP	4.5
35	DA	1863	G	4.5
52	BV	67	GLY	4.5
23	CW	28	U	4.5
14	CN	5	ALA	4.5
35	BA	2115	G	4.5
43	DI	53	ALA	4.5
57	DC	82	LYS	4.5
35	DA	352	G	4.5
35	DA	1484	G	4.5
1	CA	153	C	4.5
35	BA	1215	G	4.5
2	CB	215	LEU	4.5
1	AA	993	G	4.5
35	BA	333	G	4.5
35	DA	2124	G	4.5
35	DA	1546	C	4.4
1	CA	79	G	4.4
2	AB	41	ILE	4.4

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Mol	Chain	Res	Type	RSRZ
35	DA	2477	C	4.4
37	BC	79	LYS	4.4
1	CA	70	G	4.4
35	DA	1525	G	4.4
36	DB	24	G	4.4
37	BC	99	ILE	4.4
2	CB	128	GLU	4.4
1	CA	1005	A	4.4
35	DA	2123	G	4.4
35	BA	1214	A	4.4
1	CA	1083	U	4.4
35	BA	1508	A	4.3
35	DA	2665	A	4.3
23	CW	27	G	4.3
28	D2	62	THR	4.3
1	CA	1129	C	4.3
35	BA	2808	U	4.3
35	BA	2482	G	4.3
30	D4	1	MET	4.3
43	DI	127	VAL	4.3
46	DP	118	GLY	4.3
17	AQ	69	LYS	4.3
10	CJ	83	GLU	4.3
57	DC	46	LYS	4.3
3	AC	82	GLU	4.3
35	DA	1526	G	4.3
35	DA	1508	A	4.3
1	AA	1036	G	4.3
1	CA	1031	G	4.3
35	DA	311	A	4.3
35	BA	1895	C	4.3
26	B0	7	LEU	4.3
43	DI	141	LYS	4.3
23	CW	47	G	4.3
21	CU	25	LYS	4.3
1	CA	1030(C)	G	4.2
35	BA	401	A	4.2
35	DA	2795	G	4.2
1	CA	1302	U	4.2
37	BC	38	ASP	4.2
35	BA	919	G	4.2
30	D4	2	LYS	4.2

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Mol	Chain	Res	Type	RSRZ
35	DA	272(J)	C	4.2
9	CI	22	GLY	4.2
23	AW	10	G	4.2
35	BA	1544	A	4.2
10	CJ	73	ASP	4.2
10	CJ	97	GLU	4.2
35	BA	2126	A	4.2
35	DA	2125	G	4.2
35	BA	2112	G	4.2
35	BA	2637	U	4.2
1	AA	76	C	4.2
1	AA	269	C	4.2
2	CB	208	ILE	4.2
36	DB	6	C	4.2
23	CW	48	U	4.2
1	CA	1141	C	4.2
42	BH	24	VAL	4.2
35	BA	1174	A	4.2
35	BA	1494	A	4.2
35	DA	300	A	4.2
36	BB	66	A	4.2
21	CU	23	PRO	4.2
35	BA	1577	C	4.2
35	DA	362	U	4.2
35	DA	899	A	4.2
57	DC	190	ARG	4.2
35	DA	312	G	4.2
1	AA	1028	C	4.2
1	AA	1260	C	4.1
57	DC	157	LYS	4.1
35	BA	1114	G	4.1
20	CT	106	ALA	4.1
35	DA	879	G	4.1
1	AA	89	C	4.1
23	CW	16	C	4.1
7	CG	156	TRP	4.1
43	DI	25	TYR	4.1
31	B5	60	VAL	4.1
1	AA	366	C	4.1
2	CB	207	ALA	4.1
35	BA	2110	G	4.1
35	DA	1866	C	4.1

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Mol	Chain	Res	Type	RSRZ
35	BA	2473	U	4.1
37	BC	83	ILE	4.1
37	BC	76	ALA	4.1
35	BA	414	C	4.1
1	CA	1034	G	4.1
6	AF	39	LYS	4.0
35	BA	1865	G	4.0
41	BG	41	GLN	4.0
35	DA	299	A	4.0
35	DA	918	A	4.0
35	DA	271(M)	G	4.0
41	BG	91	ARG	4.0
16	CP	13	HIS	4.0
25	AY	52	LEU	4.0
11	AK	19	ALA	4.0
35	BA	105	C	4.0
35	DA	2110	G	4.0
50	DT	115	ARG	4.0
13	CM	104	ARG	4.0
1	CA	64	G	4.0
20	CT	103	GLY	4.0
43	DI	125	GLU	4.0
17	AQ	65	ILE	4.0
35	DA	289	A	4.0
35	DA	2796	U	4.0
35	BA	2467	C	4.0
37	BC	88	GLU	4.0
35	DA	226	G	4.0
57	DC	43	VAL	4.0
35	BA	1528	A	4.0
35	BA	2662	A	4.0
21	CU	20	LYS	4.0
37	BC	80	GLY	4.0
35	BA	2477	C	4.0
43	DI	64	GLU	4.0
35	BA	2104	G	3.9
35	DA	1888	G	3.9
35	DA	2171	A	3.9
35	DA	2411	A	3.9
50	DT	2	ASN	3.9
49	DS	59	LYS	3.9
1	CA	1087	G	3.9

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Mol	Chain	Res	Type	RSRZ
1	CA	1128	C	3.9
36	DB	3	C	3.9
35	DA	2792	G	3.9
57	DC	149	ILE	3.9
35	BA	2799	C	3.9
35	DA	652	C	3.9
41	BG	38	VAL	3.9
23	CW	31	G	3.9
35	BA	1115	G	3.9
35	DA	1461	G	3.9
35	DA	2476	A	3.9
36	BB	27	C	3.9
47	DQ	141	GLN	3.9
1	CA	1224	G	3.9
35	BA	344	G	3.9
35	BA	363(F)	A	3.9
49	BS	33	LYS	3.9
1	CA	268	C	3.9
35	BA	1530	C	3.9
9	AI	18	PHE	3.9
1	CA	1030(B)	C	3.9
35	BA	2471	C	3.9
37	BC	91	ALA	3.9
20	AT	103	GLY	3.9
1	CA	71	C	3.9
1	CA	177	C	3.9
36	DB	55	U	3.9
36	BB	107	G	3.9
57	DC	96	GLY	3.9
43	BI	61	ARG	3.8
1	AA	73	G	3.8
23	CW	5	G	3.8
35	BA	1954	G	3.8
40	BF	11	VAL	3.8
43	DI	107	VAL	3.8
49	DS	51	ALA	3.8
49	DS	48	LEU	3.8
25	CY	58	VAL	3.8
23	CW	13	C	3.8
51	BU	118	GLY	3.8
35	BA	351	G	3.8
35	DA	1447	G	3.8

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Mol	Chain	Res	Type	RSRZ
52	BV	68	LYS	3.8
35	DA	415	A	3.8
35	BA	356	G	3.8
35	BA	1525	G	3.8
1	AA	1024	G	3.8
35	DA	271(R)	G	3.8
35	DA	1466	G	3.8
35	DA	2127	G	3.8
1	CA	1395	C	3.8
35	DA	1498	C	3.8
35	DA	1497	U	3.8
13	CM	125	ARG	3.8
57	DC	131	LEU	3.8
1	CA	992	U	3.8
39	BE	48	GLN	3.8
1	AA	82	U	3.8
3	CC	79	ARG	3.8
41	DG	87	PRO	3.8
35	DA	2808	U	3.8
39	BE	35	GLN	3.8
7	CG	53	LYS	3.7
1	AA	1003	G	3.7
1	CA	1295	G	3.7
25	CY	41	LEU	3.7
35	BA	2120	G	3.7
43	DI	97	ILE	3.7
35	DA	1467	C	3.7
1	CA	921	U	3.7
20	AT	98	PRO	3.7
57	DC	81	GLU	3.7
57	DC	216	THR	3.7
35	DA	2468	G	3.7
35	DA	271(O)	C	3.7
42	BH	19	VAL	3.7
1	AA	992	U	3.7
46	DP	120	ALA	3.7
1	CA	953	G	3.7
1	CA	1024	G	3.7
1	CA	218	C	3.7
19	CS	81	ARG	3.7
41	DG	72	ARG	3.7
57	DC	152	ILE	3.7

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Mol	Chain	Res	Type	RSRZ
23	AW	67	C	3.7
35	BA	1153	C	3.7
35	DA	2794	C	3.7
25	CY	59	THR	3.7
7	CG	76	ARG	3.7
41	DG	40	ASN	3.7
35	DA	1174	A	3.7
23	CW	53	G	3.7
35	BA	1531	C	3.7
35	BA	1863	G	3.7
2	AB	208	ILE	3.7
1	AA	69	G	3.7
1	CA	922	G	3.7
35	BA	306	U	3.7
35	DA	2666	C	3.7
36	BB	117	G	3.7
35	BA	1545	A	3.7
19	AS	30	LEU	3.7
41	BG	155	MET	3.7
52	BV	5	VAL	3.7
43	DI	134	PRO	3.7
1	CA	1502	A	3.6
23	CW	29	C	3.6
35	BA	434	U	3.6
35	DA	74	A	3.6
35	BA	2113	U	3.6
42	DH	101	ARG	3.6
1	AA	1006	C	3.6
49	DS	56	LEU	3.6
35	BA	2125	G	3.6
35	BA	2410	G	3.6
1	AA	88	A	3.6
35	DA	1876	A	3.6
57	DC	145	VAL	3.6
1	CA	367	U	3.6
35	DA	2793	G	3.6
37	BC	123	VAL	3.6
37	BC	155	GLU	3.6
43	DI	89	TYR	3.6
57	DC	97	GLU	3.6
23	CW	37	U	3.6
1	AA	68	G	3.6

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Mol	Chain	Res	Type	RSRZ
30	D4	23	GLU	3.6
35	BA	415	A	3.6
35	BA	2476	A	3.6
1	AA	83	U	3.6
9	CI	96	LEU	3.6
25	AY	55	ILE	3.6
27	B1	78	LYS	3.6
35	BA	305	U	3.6
35	DA	2312	U	3.6
1	AA	418	C	3.6
21	CU	21	TYR	3.6
35	BA	1505	C	3.6
42	DH	83	TYR	3.6
9	CI	20	ARG	3.6
35	BA	275	G	3.6
57	DC	21	THR	3.6
1	CA	366	C	3.5
35	BA	403	U	3.5
35	DA	271(L)	U	3.5
26	D0	5	LYS	3.5
46	BP	130	PHE	3.5
35	DA	884	C	3.5
21	AU	9	ARG	3.5
35	BA	1498	C	3.5
1	AA	1393	U	3.5
1	CA	983	A	3.5
35	DA	1496	A	3.5
10	CJ	37	PRO	3.5
26	B0	2	ALA	3.5
35	DA	2799	C	3.5
46	BP	90	ARG	3.5
2	AB	228	GLY	3.5
9	CI	14	VAL	3.5
9	CI	102	LEU	3.5
13	AM	119	GLY	3.5
35	BA	357	A	3.5
42	BH	59	ARG	3.5
13	AM	120	LYS	3.5
57	DC	158	ALA	3.5
1	CA	1021	G	3.5
57	DC	102	LYS	3.5
35	DA	334	C	3.5

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Mol	Chain	Res	Type	RSRZ
2	CB	70	PHE	3.5
20	AT	56	MET	3.5
35	DA	363(F)	A	3.5
35	DA	2809	A	3.5
10	AJ	70	ARG	3.5
1	CA	1090	U	3.5
2	AB	222	ILE	3.5
35	DA	1532	C	3.5
46	DP	88	LEU	3.4
7	AG	154	TYR	3.4
1	AA	994	A	3.4
43	DI	63	ALA	3.4
3	CC	201	TYR	3.4
35	BA	2891	G	3.4
1	AA	1223	C	3.4
43	BI	132	PRO	3.4
39	DE	1	MET	3.4
42	BH	43	VAL	3.4
56	DZ	88	PHE	3.4
35	BA	1866	C	3.4
35	DA	319	C	3.4
35	DA	2163	C	3.4
35	DA	2788	C	3.4
36	DB	28	C	3.4
46	BP	138	LEU	3.4
10	CJ	72	VAL	3.4
42	DH	82	GLY	3.4
1	CA	266	G	3.4
35	BA	1881	C	3.4
35	BA	2128	C	3.4
35	BA	2164	C	3.4
57	DC	18	LYS	3.4
50	BT	135	ALA	3.4
1	CA	1125	U	3.4
35	BA	2551	C	3.4
35	DA	2467	C	3.4
7	CG	74	GLU	3.4
49	DS	55	ALA	3.4
35	BA	652	C	3.4
1	CA	1229	A	3.4
3	CC	188	LEU	3.4
35	DA	429	A	3.4

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Mol	Chain	Res	Type	RSRZ
1	CA	570	G	3.4
18	CR	87	ARG	3.4
14	AN	2	ALA	3.4
35	DA	1469	A	3.4
23	CW	25	U	3.4
1	AA	144	G	3.4
38	DD	26	LYS	3.4
36	DB	26	A	3.3
32	B6	46	HIS	3.3
44	BN	134	ARG	3.3
40	BF	24	LEU	3.3
1	CA	1095	U	3.3
35	BA	2344	U	3.3
35	DA	271(K)	U	3.3
3	CC	189	ALA	3.3
46	DP	87	ASP	3.3
1	CA	189(B)	C	3.3
35	DA	1586	A	3.3
10	CJ	6	ILE	3.3
26	B0	85	ALA	3.3
57	DC	123	VAL	3.3
13	AM	84	ILE	3.3
35	BA	355	G	3.3
28	D2	61	LEU	3.3
29	B3	1	MET	3.3
35	BA	2411	A	3.3
41	DG	74	LYS	3.3
10	AJ	71	LEU	3.3
37	BC	173	ALA	3.3
1	AA	1172	C	3.3
46	BP	119	GLU	3.3
18	CR	51	LEU	3.3
32	D6	44	ARG	3.3
57	DC	45	ALA	3.3
1	AA	1002	G	3.3
1	AA	201	C	3.3
1	AA	419	C	3.3
1	AA	1445	C	3.3
17	CQ	45	HIS	3.3
37	BC	109	ASP	3.3
17	AQ	101	ARG	3.3
49	DS	36	TYR	3.3

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Mol	Chain	Res	Type	RSRZ
1	CA	425	G	3.3
35	BA	2466	C	3.3
35	BA	2805	G	3.3
1	CA	152	A	3.3
35	DA	1449	A	3.3
43	DI	65	ALA	3.3
10	CJ	39	PRO	3.3
47	BQ	138	ASP	3.3
50	DT	138	ALA	3.3
46	BP	114	ILE	3.3
1	CA	1390	U	3.3
35	BA	2171	A	3.3
35	DA	2119	A	3.3
57	DC	77	ILE	3.3
37	BC	75	LEU	3.3
35	BA	2470	G	3.3
35	DA	2112	G	3.3
35	BA	1637	A	3.3
57	DC	36	LYS	3.3
40	DF	134	GLY	3.3
43	DI	120	ILE	3.2
18	AR	87	ARG	3.2
41	BG	92	VAL	3.2
55	DY	51	VAL	3.2
57	DC	136	LEU	3.2
35	DA	29	U	3.2
1	CA	265	G	3.2
35	BA	1896	G	3.2
57	DC	39	GLU	3.2
1	CA	952	U	3.2
15	CO	23	GLY	3.2
35	BA	1950	G	3.2
35	BA	2107	C	3.2
20	CT	89	ARG	3.2
35	BA	345	A	3.2
35	BA	2167	U	3.2
1	AA	904	C	3.2
23	CW	52	C	3.2
35	DA	2128	C	3.2
40	BF	19	GLU	3.2
56	BZ	145	GLU	3.2
22	AV	26	G	3.2

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Mol	Chain	Res	Type	RSRZ
35	DA	271(S)	G	3.2
39	BE	80	GLU	3.2
37	BC	24	GLU	3.2
11	CK	82	VAL	3.2
35	BA	1154	G	3.2
35	BA	2106	G	3.2
9	CI	66	ARG	3.2
40	DF	133	ASN	3.2
1	CA	1096	C	3.2
1	AA	200	G	3.2
35	DA	333	G	3.2
35	DA	1465	G	3.2
16	AP	84	ALA	3.2
21	AU	8	THR	3.2
41	DG	34	LEU	3.2
12	CL	33	ARG	3.2
23	AW	57	C	3.2
2	CB	234	PRO	3.2
35	BA	2567	G	3.2
43	BI	58	LEU	3.2
43	DI	56	LYS	3.2
1	AA	1126	U	3.2
18	AR	77	GLY	3.1
1	CA	995	C	3.1
1	CA	1215	G	3.1
35	DA	1303	G	3.1
43	BI	68	LEU	3.1
10	CJ	8	LEU	3.1
1	AA	54	C	3.1
35	BA	707	G	3.1
57	DC	184	LYS	3.1
57	DC	187	ASP	3.1
2	CB	42	ILE	3.1
11	CK	42	TRP	3.1
13	AM	124	PRO	3.1
37	BC	103	ILE	3.1
1	CA	183	G	3.1
56	DZ	173	ALA	3.1
35	DA	898	C	3.1
42	BH	55	PRO	3.1
5	CE	29	GLY	3.1
35	DA	271(Q)	G	3.1

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Mol	Chain	Res	Type	RSRZ
47	DQ	80	GLU	3.1
1	AA	924	C	3.1
35	BA	2412	A	3.1
39	BE	44	TYR	3.1
35	BA	1113	U	3.1
2	CB	68	ILE	3.1
35	DA	1171	G	3.1
11	AK	82	VAL	3.1
37	BC	87	GLU	3.1
35	BA	2790	A	3.1
46	DP	90	ARG	3.1
39	BE	34	VAL	3.1
42	BH	52	VAL	3.1
49	DS	82	ILE	3.1
1	CA	1042	G	3.1
35	DA	1470	G	3.1
41	BG	134	GLY	3.1
35	DA	184	C	3.1
35	DA	272(I)	U	3.1
37	BC	172	HIS	3.1
23	AW	31	G	3.1
35	BA	1448	G	3.1
35	DA	855	G	3.1
35	DA	1436	G	3.1
3	CC	196	LEU	3.1
49	BS	49	VAL	3.1
1	AA	365	U	3.1
8	CH	130	GLY	3.1
23	AW	26	C	3.1
55	BY	50	ARG	3.1
57	DC	22	ILE	3.1
16	CP	42	ARG	3.1
43	DI	73	GLU	3.0
1	AA	195	A	3.0
23	AW	14	A	3.0
35	BA	1940	U	3.0
40	DF	23	ASP	3.0
35	BA	1421	G	3.0
35	DA	1170	G	3.0
2	CB	31	TYR	3.0
16	CP	39	TYR	3.0
21	CU	22	ARG	3.0

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Mol	Chain	Res	Type	RSRZ
35	BA	883	G	3.0
35	DA	880	G	3.0
37	BC	97	GLU	3.0
10	CJ	99	LYS	3.0
1	AA	421	U	3.0
25	AY	110	ARG	3.0
35	BA	898	C	3.0
35	DA	603	A	3.0
35	DA	2105	C	3.0
28	D2	43	GLN	3.0
3	CC	80	GLY	3.0
37	BC	125	SER	3.0
35	BA	880	G	3.0
52	BV	28	GLU	3.0
35	BA	1465	G	3.0
23	AW	48	U	3.0
49	DS	38	GLN	3.0
7	AG	62	PHE	3.0
35	DA	1173	G	3.0
1	CA	194	C	3.0
35	BA	1579	A	3.0
35	BA	2163	C	3.0
57	DC	146	GLY	3.0
1	CA	1033	G	3.0
35	DA	30	G	3.0
1	CA	188	C	3.0
11	CK	96	ARG	3.0
20	CT	98	PRO	3.0
39	DE	69	LYS	3.0
3	CC	143	GLU	3.0
6	AF	64	GLN	3.0
1	AA	1257	U	3.0
13	CM	24	GLY	3.0
16	CP	83	GLU	3.0
35	DA	1500	G	3.0
32	B6	44	ARG	3.0
50	BT	39	ARG	3.0
2	CB	80	ILE	3.0
35	BA	497	A	3.0
31	B5	53	ALA	3.0
1	AA	427	U	2.9
35	BA	2345	G	2.9

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Mol	Chain	Res	Type	RSRZ
35	DA	2351	G	2.9
43	BI	72	LEU	2.9
39	BE	66	HIS	2.9
25	CY	70	SER	2.9
35	BA	271(O)	C	2.9
35	BA	413	C	2.9
2	AB	15	VAL	2.9
35	DA	2122	U	2.9
35	BA	1447	G	2.9
35	DA	881	G	2.9
23	AW	24	C	2.9
35	DA	1509(A)	A	2.9
43	DI	105	HIS	2.9
55	BY	61	ILE	2.9
49	BS	51	ALA	2.9
16	AP	41	PRO	2.9
1	AA	1219	U	2.9
46	BP	113	LYS	2.9
35	DA	1533	G	2.9
10	CJ	98	ILE	2.9
35	BA	1463	C	2.9
3	AC	101	LEU	2.9
9	CI	95	LYS	2.9
37	BC	36	LYS	2.9
46	BP	120	ALA	2.9
32	D6	45	LYS	2.9
35	DA	1044	G	2.9
1	CA	1225	A	2.9
3	AC	66	VAL	2.9
35	BA	2108	C	2.9
57	DC	93	TYR	2.9
37	BC	179	SER	2.9
51	BU	84	LYS	2.9
25	AY	99	LEU	2.9
9	CI	65	VAL	2.9
13	AM	104	ARG	2.9
35	DA	604	G	2.9
56	BZ	4	ARG	2.9
1	AA	1037	C	2.9
1	CA	1030(D)	A	2.9
35	BA	2026	C	2.9
35	BA	2105	C	2.9

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Mol	Chain	Res	Type	RSRZ
2	AB	209	ARG	2.9
41	DG	33	ARG	2.9
25	AY	1	MET	2.9
49	DS	68	GLN	2.9
36	BB	63	G	2.9
43	BI	131	LYS	2.9
1	AA	160	A	2.9
1	CA	840	C	2.9
4	AD	37	PRO	2.9
36	DB	49	C	2.9
9	CI	18	PHE	2.9
1	AA	117	G	2.9
1	AA	1124	G	2.9
23	AW	19	G	2.9
1	AA	272	C	2.9
1	CA	196	A	2.9
35	BA	2116	G	2.9
35	BA	2801(A)	A	2.9
36	BB	106	G	2.9
35	DA	1053	C	2.9
41	DG	28	VAL	2.9
19	AS	81	ARG	2.9
1	AA	271	C	2.9
1	AA	1230	C	2.9
1	AA	1442(B)	A	2.9
1	CA	1273	G	2.9
17	CQ	64	PRO	2.9
35	BA	1029	A	2.9
35	BA	2801	A	2.9
35	DA	600	G	2.9
35	DA	924	C	2.9
26	D0	4	LYS	2.9
40	BF	133	ASN	2.9
55	DY	53	PRO	2.9
17	CQ	63	ARG	2.8
1	AA	179	A	2.8
1	CA	532	A	2.8
1	CA	591	U	2.8
2	CB	232	PRO	2.8
23	CW	43	G	2.8
25	CY	101	ILE	2.8
35	BA	2117	A	2.8

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Mol	Chain	Res	Type	RSRZ
35	DA	414	C	2.8
35	DA	2833	G	2.8
17	AQ	44	ALA	2.8
2	AB	68	ILE	2.8
9	CI	50	LEU	2.8
1	AA	80	G	2.8
17	AQ	43	LEU	2.8
35	BA	2114	A	2.8
35	DA	356	G	2.8
35	DA	1524	G	2.8
49	DS	50	SER	2.8
40	BF	134	GLY	2.8
41	DG	32	PRO	2.8
1	AA	991	U	2.8
1	AA	1125	U	2.8
1	CA	533	A	2.8
1	CA	977	A	2.8
35	BA	2526	G	2.8
35	BA	2804	C	2.8
35	BA	2807	G	2.8
43	DI	85	GLU	2.8
49	DS	103	GLU	2.8
7	AG	4	ARG	2.8
11	AK	83	ILE	2.8
50	DT	118	ARG	2.8
57	DC	142	ALA	2.8
50	DT	1	MET	2.8
10	AJ	5	ARG	2.8
35	DA	1048	A	2.8
1	CA	925	G	2.8
1	CA	1216	G	2.8
30	D4	3	GLU	2.8
35	BA	2127	G	2.8
51	DU	74	LEU	2.8
57	DC	26	ALA	2.8
10	CJ	82	ILE	2.8
47	BQ	124	LYS	2.8
17	AQ	16	GLN	2.8
39	BE	82	ARG	2.8
20	CT	105	SER	2.8
23	AW	66	C	2.8
35	BA	1936	A	2.8

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Mol	Chain	Res	Type	RSRZ
35	BA	2123	G	2.8
42	BH	57	ASP	2.8
37	BC	190	ARG	2.8
1	CA	1200	C	2.8
35	BA	34	C	2.8
9	CI	9	ARG	2.8
7	AG	151	TYR	2.8
1	AA	90	U	2.8
35	BA	2832	U	2.8
7	CG	3	ARG	2.8
57	DC	98	GLU	2.8
35	DA	1468	C	2.8
49	BS	34	HIS	2.8
1	AA	145	G	2.8
1	CA	97	G	2.8
1	CA	1442(A)	G	2.8
35	BA	1470	G	2.8
35	DA	2100	G	2.8
50	DT	119	LYS	2.8
1	AA	1259	C	2.8
35	BA	1445(A)	C	2.8
35	BA	476	G	2.8
3	CC	190	ARG	2.8
2	AB	215	LEU	2.8
41	DG	39	ILE	2.8
51	BU	117	GLN	2.8
2	AB	229	VAL	2.8
3	CC	207	VAL	2.7
25	CY	67	VAL	2.7
35	DA	1523	U	2.7
42	DH	45	VAL	2.7
4	CD	181	MET	2.7
39	BE	49	LEU	2.7
57	DC	95	GLY	2.7
25	AY	100	TYR	2.7
35	BA	1436	G	2.7
35	BA	2168	G	2.7
35	DA	2382	G	2.7
25	CY	144	ALA	2.7
25	CY	55	ILE	2.7
1	CA	1238	A	2.7
1	AA	155	C	2.7

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Mol	Chain	Res	Type	RSRZ
9	CI	53	VAL	2.7
43	BI	136	VAL	2.7
1	AA	700	G	2.7
1	CA	1003	G	2.7
35	BA	2190	G	2.7
35	DA	2894	G	2.7
46	DP	84	ASN	2.7
35	DA	1749	A	2.7
23	CW	46	G	2.7
2	CB	214	ILE	2.7
1	CA	1223	C	2.7
36	BB	6	C	2.7
1	CA	718	G	2.7
36	DB	61	G	2.7
49	DS	11	LYS	2.7
14	CN	2	ALA	2.7
35	BA	2258	C	2.7
39	BE	204	ALA	2.7
49	BS	48	LEU	2.7
1	CA	961	U	2.7
7	AG	5	ARG	2.7
35	BA	1423	G	2.7
35	BA	1702	G	2.7
35	DA	1341	U	2.7
39	BE	33	VAL	2.7
7	CG	6	ARG	2.7
1	AA	153	C	2.7
9	CI	13	ALA	2.7
23	AW	29	C	2.7
37	BC	93	TYR	2.7
41	DG	172	LEU	2.7
7	CG	62	PHE	2.7
51	DU	75	ASN	2.7
57	DC	134	ARG	2.7
35	BA	402	A	2.7
35	DA	1545	A	2.7
35	BA	1631	C	2.7
9	CI	93	ARG	2.7
42	BH	54	ARG	2.7
35	BA	1519	G	2.7
35	DA	1485	G	2.7
42	BH	35	VAL	2.7

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Mol	Chain	Res	Type	RSRZ
1	CA	1236	A	2.7
2	AB	207	ALA	2.7
35	BA	918	A	2.7
35	DA	547	A	2.7
55	DY	54	LYS	2.7
35	BA	271(J)	C	2.7
35	BA	1880	C	2.7
35	DA	34	C	2.7
11	CK	13	GLN	2.7
37	BC	23	ASP	2.7
1	AA	266	G	2.7
28	B2	35	LEU	2.7
35	BA	412	A	2.7
43	DI	77	LEU	2.7
16	AP	39	TYR	2.6
35	BA	1714	G	2.6
7	AG	74	GLU	2.6
9	CI	81	ILE	2.6
35	DA	1528	A	2.6
36	DB	66	A	2.6
45	BO	59	LYS	2.6
1	AA	1389	C	2.6
11	AK	20	TYR	2.6
46	BP	118	GLY	2.6
43	BI	65	ALA	2.6
10	CJ	43	ARG	2.6
13	CM	61	GLU	2.6
29	D3	25	ALA	2.6
41	DG	153	ARG	2.6
52	BV	46	VAL	2.6
1	CA	451	A	2.6
1	CA	1044	A	2.6
35	DA	2883	A	2.6
1	CA	488	C	2.6
26	B0	8	ALA	2.6
46	BP	149	GLU	2.6
55	DY	28	LYS	2.6
21	AU	7	ARG	2.6
1	AA	952	U	2.6
35	BA	1109	C	2.6
37	BC	26	ALA	2.6
52	BV	96	ILE	2.6

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Mol	Chain	Res	Type	RSRZ
35	BA	2124	G	2.6
1	AA	1102	A	2.6
35	DA	1877	A	2.6
35	BA	343	C	2.6
13	CM	108	ARG	2.6
7	CG	5	ARG	2.6
1	CA	118	U	2.6
1	CA	1004	A	2.6
10	CJ	91	PRO	2.6
35	DA	2791	C	2.6
1	AA	426	G	2.6
1	CA	146	G	2.6
1	CA	426	G	2.6
1	CA	1274	G	2.6
35	DA	361	G	2.6
35	DA	2811	G	2.6
7	AG	75	VAL	2.6
19	AS	27	GLU	2.6
35	DA	2835	A	2.6
1	AA	1270	C	2.6
1	CA	932	C	2.6
36	BB	88	C	2.6
3	AC	196	LEU	2.6
2	AB	85	ALA	2.6
1	AA	698	G	2.6
1	AA	751	U	2.6
35	BA	1466	G	2.6
41	BG	135	LEU	2.6
9	AI	105	ASP	2.6
37	BC	98	GLU	2.6
42	DH	86	GLU	2.6
51	BU	91	ASP	2.6
1	AA	1430	C	2.6
16	CP	38	TYR	2.6
25	AY	45	TYR	2.6
35	BA	1152	C	2.6
13	CM	3	ARG	2.6
21	AU	11	GLY	2.6
41	DG	86	MET	2.6
57	DC	24	GLU	2.6
57	DC	99	ILE	2.6
4	AD	38	TYR	2.6

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Mol	Chain	Res	Type	RSRZ
27	B1	77	ALA	2.6
56	BZ	89	PHE	2.6
41	BG	138	GLN	2.6
8	CH	116	LYS	2.6
35	DA	272(B)	G	2.6
35	DA	1421	G	2.6
45	BO	49	ARG	2.6
57	DC	153	ILE	2.6
1	AA	1008	C	2.6
35	DA	2863	C	2.6
41	DG	156	ASP	2.6
35	BA	29	U	2.6
41	BG	40	ASN	2.6
41	BG	111	LEU	2.6
1	CA	1272	G	2.5
35	BA	1921	G	2.5
35	DA	1529	G	2.5
35	DA	1949	G	2.5
1	AA	1093	A	2.5
35	BA	1213	A	2.5
3	AC	102	ASN	2.5
42	DH	34	GLU	2.5
1	CA	689	C	2.5
35	BA	1468	C	2.5
39	BE	205	ALA	2.5
1	CA	96	U	2.5
10	AJ	90	LEU	2.5
1	AA	270	A	2.5
35	DA	1301	A	2.5
35	DA	2879	C	2.5
1	AA	903	G	2.5
1	CA	592	G	2.5
35	BA	1419	A	2.5
35	BA	1509(B)	A	2.5
35	BA	1533	G	2.5
35	BA	2857	G	2.5
35	DA	407	G	2.5
56	BZ	7	ALA	2.5
1	AA	748	C	2.5
19	AS	28	LYS	2.5
35	BA	1499	C	2.5
35	DA	634	C	2.5

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Mol	Chain	Res	Type	RSRZ
25	CY	100	TYR	2.5
5	CE	12	LEU	2.5
9	CI	30	GLY	2.5
35	BA	2357	U	2.5
35	BA	2166	G	2.5
41	BG	156	ASP	2.5
9	CI	33	PHE	2.5
10	CJ	74	ILE	2.5
10	CJ	85	LEU	2.5
56	DZ	12	GLY	2.5
35	DA	271(Z)	C	2.5
35	DA	1402	C	2.5
1	CA	1091	U	2.5
21	CU	2	GLY	2.5
9	CI	7	THR	2.5
37	BC	177	LYS	2.5
35	BA	513	A	2.5
35	BA	2027	G	2.5
35	DA	257	A	2.5
1	CA	1389	C	2.5
26	D0	17	GLN	2.5
35	DA	2878	U	2.5
8	AH	116	LYS	2.5
1	AA	431	A	2.5
1	AA	1004	A	2.5
1	CA	1084	G	2.5
35	DA	406	G	2.5
49	DS	104	GLY	2.5
41	DG	115	ARG	2.5
11	AK	32	ILE	2.5
35	BA	1026	U	2.5
27	B1	79	GLY	2.5
3	AC	189	ALA	2.5
35	BA	2532	G	2.5
35	DA	1213	A	2.5
57	DC	208	PHE	2.5
1	AA	79	G	2.5
1	CA	1001(A)	G	2.5
36	DB	110	G	2.5
1	CA	1244	C	2.5
1	CA	1303	C	2.5
35	BA	2179	C	2.5

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Mol	Chain	Res	Type	RSRZ
35	DA	2803	C	2.5
1	CA	1257	U	2.5
3	AC	103	VAL	2.5
5	AE	126	ARG	2.5
10	AJ	6	ILE	2.5
23	CW	44	A	2.5
40	BF	25	PRO	2.5
35	BA	304	G	2.5
36	DB	23	G	2.5
1	CA	812	C	2.5
3	AC	64	VAL	2.5
17	CQ	73	VAL	2.5
35	DA	1547	C	2.5
40	DF	24	LEU	2.5
5	AE	31	LEU	2.5
10	AJ	8	LEU	2.5
35	BA	1760	A	2.5
37	BC	192	PHE	2.5
1	CA	1243	C	2.5
21	CU	18	TYR	2.5
34	D8	5	LYS	2.5
35	BA	2802	G	2.5
49	BS	37	ALA	2.5
2	CB	96	ARG	2.5
57	DC	223	ARG	2.5
43	DI	101	LEU	2.4
9	AI	9	ARG	2.4
35	BA	332	A	2.4
35	BA	2809	A	2.4
49	DS	49	VAL	2.4
49	DS	52	SER	2.4
49	DS	54	LEU	2.4
1	AA	963	G	2.4
1	AA	1129	C	2.4
35	DA	258	G	2.4
35	DA	1003	G	2.4
11	AK	29	ILE	2.4
17	CQ	65	ILE	2.4
2	AB	91	PRO	2.4
56	DZ	59	LEU	2.4
35	DA	2629	A	2.4
56	DZ	147	GLY	2.4

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Mol	Chain	Res	Type	RSRZ
15	CO	24	SER	2.4
1	AA	178	C	2.4
1	AA	384	G	2.4
35	DA	1320	C	2.4
6	AF	89	MET	2.4
54	BX	69	TYR	2.4
2	AB	237	ALA	2.4
19	CS	28	LYS	2.4
32	B6	40	CYS	2.4
56	DZ	13	GLU	2.4
1	AA	990	C	2.4
23	AW	63	C	2.4
35	BA	87	C	2.4
35	BA	317	G	2.4
35	BA	366	C	2.4
35	BA	435	C	2.4
35	BA	2481	G	2.4
35	BA	2538	C	2.4
35	DA	86	C	2.4
36	BB	3	C	2.4
36	BB	62	C	2.4
5	CE	109	ILE	2.4
17	CQ	43	LEU	2.4
1	CA	640	A	2.4
7	AG	18	TYR	2.4
1	CA	1140	C	2.4
2	AB	21	ARG	2.4
35	DA	363(B)	G	2.4
55	DY	86	ARG	2.4
51	BU	93	LYS	2.4
4	CD	40	PRO	2.4
47	BQ	123	HIS	2.4
9	CI	36	TYR	2.4
35	DA	1587	A	2.4
41	BG	88	ILE	2.4
1	AA	66	G	2.4
1	AA	651	C	2.4
35	BA	602	G	2.4
35	BA	2484	G	2.4
35	BA	2648	C	2.4
35	DA	506	G	2.4
35	DA	1506	C	2.4

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Mol	Chain	Res	Type	RSRZ
43	DI	139	GLN	2.4
57	DC	76	ALA	2.4
37	BC	82	LYS	2.4
41	DG	11	TYR	2.4
57	DC	171	ILE	2.4
1	CA	652	U	2.4
35	DA	363(A)	A	2.4
35	DA	511	U	2.4
32	D6	41	PRO	2.4
35	BA	2165	G	2.4
52	DV	26	ASP	2.4
57	DC	155	GLU	2.4
41	BG	157	ILE	2.4
57	DC	35	ALA	2.4
1	CA	349	A	2.4
35	BA	104	U	2.4
35	BA	2602	A	2.4
36	BB	112	U	2.4
57	DC	175	VAL	2.4
1	AA	146	G	2.4
23	AW	17	C	2.4
35	BA	879	G	2.4
35	BA	1888	G	2.4
35	DA	707	G	2.4
35	DA	1482	G	2.4
13	AM	108	ARG	2.4
25	CY	61	PRO	2.4
35	BA	858	U	2.4
35	BA	1497	U	2.4
35	BA	894	C	2.4
35	DA	1895	C	2.4
16	CP	12	LYS	2.4
35	BA	1801	G	2.4
41	DG	75	LYS	2.4
57	DC	209	LEU	2.3
1	AA	1314	C	2.3
35	DA	318	C	2.3
22	AV	27	G	2.3
35	BA	311	A	2.3
35	BA	1876	A	2.3
35	DA	1637	A	2.3
8	AH	35	ILE	2.3

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Mol	Chain	Res	Type	RSRZ
11	CK	108	ILE	2.3
35	DA	1153	C	2.3
35	DA	1967	C	2.3
56	DZ	38	TYR	2.3
1	CA	688	G	2.3
35	BA	1529	G	2.3
57	DC	217	THR	2.3
2	CB	227	GLY	2.3
14	AN	5	ALA	2.3
18	CR	64	ARG	2.3
1	CA	1201	A	2.3
35	DA	1759	A	2.3
35	DA	2810	A	2.3
57	DC	185	LEU	2.3
1	CA	562	C	2.3
1	CA	924	C	2.3
1	CA	1116	C	2.3
42	DH	59	ARG	2.3
1	CA	587	G	2.3
43	DI	68	LEU	2.3
1	AA	1083	U	2.3
35	DA	913	U	2.3
35	BA	1495	A	2.3
35	DA	332	A	2.3
42	BH	51	ARG	2.3
43	DI	110	ASP	2.3
1	CA	1218	C	2.3
35	DA	635	C	2.3
1	AA	752	G	2.3
1	AA	925	G	2.3
1	AA	1048	G	2.3
1	CA	428	G	2.3
5	CE	31	LEU	2.3
25	CY	75	ALA	2.3
35	DA	1423	G	2.3
35	DA	1647	G	2.3
35	BA	1864	U	2.3
35	BA	1911	U	2.3
42	BH	20	ALA	2.3
13	CM	105	THR	2.3
1	AA	344	A	2.3
1	CA	1503	A	2.3

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Mol	Chain	Res	Type	RSRZ
35	DA	225	A	2.3
11	CK	129	SER	2.3
39	BE	42	ASP	2.3
23	CW	69	C	2.3
35	BA	645	C	2.3
35	BA	1638	C	2.3
43	DI	144	VAL	2.3
20	AT	106	ALA	2.3
25	CY	98	ALA	2.3
35	BA	362	U	2.3
35	DA	1492	G	2.3
21	CU	9	ARG	2.3
25	AY	58	VAL	2.3
57	DC	212	VAL	2.3
44	BN	26	LEU	2.3
35	BA	2365	G	2.3
35	BA	2449	U	2.3
35	BA	2647	U	2.3
56	BZ	113	ALA	2.3
4	CD	44	GLY	2.3
25	AY	97	ASP	2.3
1	AA	55	A	2.3
37	BC	191	ALA	2.3
4	CD	2	GLY	2.3
35	BA	2175	C	2.3
41	DG	49	ASP	2.3
2	CB	12	GLU	2.3
35	BA	1108	U	2.3
42	BH	41	MET	2.3
49	BS	32	LEU	2.3
1	AA	1368	G	2.3
1	CA	413	G	2.3
1	CA	1022	G	2.3
19	AS	18	LYS	2.3
19	AS	82	GLY	2.3
19	CS	18	LYS	2.3
46	BP	137	LYS	2.3
3	AC	188	LEU	2.3
35	BA	28	A	2.3
52	BV	12	TYR	2.3
1	AA	417	C	2.3
42	BH	60	ARG	2.3

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Mol	Chain	Res	Type	RSRZ
16	CP	7	ALA	2.3
35	BA	614(A)	U	2.3
56	DZ	172	ALA	2.3
1	AA	460	G	2.3
2	CB	202	PRO	2.3
2	AB	42	ILE	2.3
25	AY	54	GLN	2.3
32	D6	49	HIS	2.3
57	DC	103	ILE	2.3
57	DC	89	ALA	2.3
1	AA	1268	A	2.3
13	AM	126	LYS	2.3
16	CP	8	ARG	2.3
35	DA	2628	C	2.3
57	DC	127	LEU	2.3
1	AA	953	G	2.2
35	BA	1878	G	2.2
35	BA	2661	G	2.2
35	DA	1169	G	2.2
1	AA	1447	A	2.2
52	DV	96	ILE	2.2
1	CA	427	U	2.2
1	CA	1115	C	2.2
1	CA	1393	U	2.2
35	BA	280	C	2.2
35	BA	1018	C	2.2
35	BA	1049	C	2.2
35	DA	2167	U	2.2
10	AJ	83	GLU	2.2
3	CC	104	GLN	2.2
11	AK	17	GLY	2.2
35	BA	1418	G	2.2
44	DN	139	GLU	2.2
57	DC	173	ALA	2.2
35	BA	646	A	2.2
35	BA	2268	A	2.2
35	DA	1106	A	2.2
37	BC	145	VAL	2.2
43	DI	88	ILE	2.2
1	CA	19	C	2.2
10	CJ	7	LYS	2.2
35	BA	316	C	2.2

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Mol	Chain	Res	Type	RSRZ
40	DF	135	LYS	2.2
49	DS	76	LYS	2.2
6	AF	38	GLU	2.2
7	CG	77	SER	2.2
11	CK	17	GLY	2.2
25	CY	90	LEU	2.2
26	D0	15	ASP	2.2
31	B5	51	TYR	2.2
35	BA	1482	G	2.2
49	BS	36	TYR	2.2
1	CA	923	A	2.2
1	CA	958	A	2.2
35	BA	1001	A	2.2
1	CA	1278	U	2.2
9	CI	94	ALA	2.2
17	AQ	19	VAL	2.2
3	AC	192	THR	2.2
41	BG	44	GLY	2.2
42	BH	50	VAL	2.2
1	CA	199	G	2.2
16	CP	17	TYR	2.2
35	BA	175	G	2.2
35	BA	920	G	2.2
35	BA	1630	G	2.2
35	DA	512	G	2.2
35	DA	1921	G	2.2
32	B6	47	THR	2.2
6	AF	41	GLU	2.2
13	AM	19	LEU	2.2
52	BV	10	LYS	2.2
1	AA	989	C	2.2
1	CA	1226	C	2.2
3	AC	193	TYR	2.2
13	AM	64	TRP	2.2
57	DC	94	VAL	2.2
30	D4	9	LEU	2.2
41	BG	152	LEU	2.2
5	AE	120	THR	2.2
35	BA	94(A)	G	2.2
35	DA	495	G	2.2
19	AS	80	TYR	2.2
1	AA	1150	U	2.2

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Mol	Chain	Res	Type	RSRZ
1	CA	571	U	2.2
13	AM	6	GLY	2.2
20	AT	70	SER	2.2
52	DV	21	ARG	2.2
1	AA	1277	C	2.2
1	AA	1322	C	2.2
35	DA	2350	C	2.2
2	AB	218	ALA	2.2
19	CS	71	LEU	2.2
1	CA	1442	G	2.2
35	DA	1388	G	2.2
35	BA	922	U	2.2
17	CQ	70	ARG	2.2
20	AT	85	MET	2.2
35	BA	2347	C	2.2
35	BA	2540	C	2.2
36	DB	62	C	2.2
41	BG	25	TYR	2.2
17	CQ	17	LYS	2.2
1	AA	254	G	2.2
1	CA	195	A	2.2
1	CA	285	G	2.2
35	BA	308	G	2.2
6	CF	33	TYR	2.2
7	AG	83	ALA	2.2
19	CS	80	TYR	2.2
23	AW	25	U	2.2
35	BA	2109	U	2.2
41	BG	159	VAL	2.2
37	BC	215	THR	2.2
50	DT	93	ARG	2.2
1	AA	1096	C	2.2
35	BA	1052	C	2.2
35	DA	2295	C	2.2
51	BU	80	ILE	2.2
35	BA	1112	G	2.2
35	DA	28	A	2.2
41	DG	73	ALA	2.2
57	DC	44	HIS	2.2
4	CD	155	LEU	2.2
2	AB	99	GLY	2.2
56	BZ	31	ARG	2.2

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Mol	Chain	Res	Type	RSRZ
56	BZ	114	GLY	2.2
1	AA	47	C	2.2
35	DA	1638	C	2.2
57	DC	151	GLU	2.2
13	CM	65	LYS	2.2
34	D8	31	HIS	2.2
41	DG	58	GLN	2.2
57	DC	104	LEU	2.2
35	BA	2479	G	2.2
35	BA	2835	A	2.2
35	DA	2470	G	2.2
16	CP	73	LEU	2.2
25	AY	68	VAL	2.2
37	BC	102	LYS	2.2
46	DP	138	LEU	2.2
55	BY	51	VAL	2.2
52	BV	45	THR	2.2
1	AA	1029	C	2.1
35	BA	1509	C	2.1
35	DA	1837	C	2.1
5	AE	45	PHE	2.1
8	AH	117	GLY	2.1
18	CR	85	LEU	2.1
25	CY	52	LEU	2.1
1	CA	184	G	2.1
1	CA	286	G	2.1
23	CW	64	G	2.1
3	CC	150	LYS	2.1
25	CY	69	GLN	2.1
26	B0	15	ASP	2.1
27	B1	80	LEU	2.1
35	BA	1435	G	2.1
35	BA	1552	G	2.1
35	DA	283	A	2.1
36	BB	67	G	2.1
42	BH	46	GLU	2.1
33	B7	37	LYS	2.1
39	BE	81	ILE	2.1
1	CA	322	C	2.1
35	BA	1547	C	2.1
52	BV	50	PRO	2.1
28	D2	60	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
37	BC	81	GLU	2.1
50	BT	36	GLU	2.1
51	BU	74	LEU	2.1
4	AD	42	GLN	2.1
1	AA	429	U	2.1
11	AK	35	PRO	2.1
1	AA	1068	G	2.1
1	CA	1047	G	2.1
35	BA	1449	A	2.1
35	DA	175	G	2.1
35	DA	218	A	2.1
35	DA	2310	A	2.1
41	DG	35	GLU	2.1
7	CG	75	VAL	2.1
9	CI	124	GLN	2.1
43	DI	62	LYS	2.1
49	BS	62	LYS	2.1
1	CA	984	C	2.1
1	CA	1264	C	2.1
17	AQ	18	THR	2.1
20	AT	99	LEU	2.1
35	DA	1757	U	2.1
42	DH	60	ARG	2.1
57	DC	221	SER	2.1
1	AA	196	A	2.1
11	AK	98	LEU	2.1
35	BA	603	A	2.1
35	BA	512	G	2.1
35	BA	859	G	2.1
35	BA	1216	G	2.1
35	BA	2761	G	2.1
1	AA	154	C	2.1
2	CB	211	ILE	2.1
35	DA	267	C	2.1
35	DA	1437	C	2.1
1	AA	1301	U	2.1
2	AB	149	LEU	2.1
35	BA	547	A	2.1
42	BH	56	SER	2.1
1	AA	156	G	2.1
35	BA	1030	G	2.1
57	DC	148	ASN	2.1

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Mol	Chain	Res	Type	RSRZ
35	BA	923	C	2.1
35	DA	1551	C	2.1
21	AU	14	TRP	2.1
37	BC	37	PHE	2.1
41	BG	182	LYS	2.1
57	DC	84	LYS	2.1
17	AQ	63	ARG	2.1
26	D0	16	SER	2.1
52	DV	90	PRO	2.1
57	DC	170	ALA	2.1
1	AA	430	A	2.1
1	CA	1394	A	2.1
35	BA	501	A	2.1
1	AA	1082	G	2.1
1	CA	1032	G	2.1
1	CA	1082	G	2.1
3	AC	107	GLN	2.1
9	CI	105	ASP	2.1
21	AU	10	ARG	2.1
35	DA	559	G	2.1
35	DA	920	G	2.1
52	BV	98	GLU	2.1
27	B1	42	GLN	2.1
52	BV	100	ARG	2.1
1	CA	1314	C	2.1
42	DH	136	ILE	2.1
56	DZ	5	LEU	2.1
39	BE	69	LYS	2.1
50	BT	2	ASN	2.1
57	DC	211	SER	2.1
35	DA	1175	U	2.1
11	AK	21	ILE	2.1
49	DS	31	SER	2.1
49	DS	39	ILE	2.1
5	AE	91	LEU	2.1
35	DA	819	A	2.1
35	DA	1045	A	2.1
49	DS	80	LEU	2.1
1	AA	1047	G	2.1
35	BA	315	G	2.1
36	DB	107	G	2.1
46	DP	95	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
35	BA	1004	C	2.1
35	BA	1166	C	2.1
57	DC	144	THR	2.1
4	CD	132	ARG	2.1
10	AJ	72	VAL	2.1
50	BT	3	ARG	2.1
2	CB	33	TYR	2.1
11	AK	30	VAL	2.1
25	CY	97	ASP	2.1
35	DA	1507	A	2.1
1	CA	69	G	2.1
35	BA	1047	G	2.1
35	DA	10	G	2.1
35	DA	271(H)	G	2.1
1	CA	47	C	2.1
1	CA	345	C	2.1
4	AD	188	LEU	2.1
55	DY	83	THR	2.1
1	AA	358	U	2.1
18	AR	61	LYS	2.1
23	CW	67	C	2.1
35	BA	2646	C	2.1
7	AG	2	ALA	2.1
16	CP	41	PRO	2.1
29	D3	44	ARG	2.1
33	D7	49	ARG	2.1
19	CS	15	LEU	2.1
41	BG	133	LEU	2.1
13	AM	65	LYS	2.1
35	BA	2346	A	2.1
39	DE	2	LYS	2.1
57	DC	126	LYS	2.1
23	CW	65	G	2.1
35	BA	2472	G	2.1
36	DB	98	G	2.1
43	DI	116	LEU	2.1
1	CA	193	C	2.1
1	CA	1296	C	2.1
35	BA	850	C	2.1
35	BA	877	U	2.1
35	DA	87	C	2.1
35	DA	1450(A)	C	2.1

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Mol	Chain	Res	Type	RSRZ
57	DC	189	ILE	2.1
2	AB	38	GLY	2.1
20	CT	56	MET	2.0
36	DB	15	A	2.0
8	CH	129	VAL	2.0
3	CC	90	GLU	2.0
32	B6	35	GLU	2.0
35	BA	312	G	2.0
35	BA	1524	G	2.0
35	DA	2807	G	2.0
42	BH	126	PRO	2.0
57	DC	105	ASP	2.0
1	AA	385	C	2.0
26	B0	1	MET	2.0
21	CU	10	ARG	2.0
23	AW	36	A	2.0
16	CP	14	ASN	2.0
1	CA	1370	G	2.0
1	AA	1297	C	2.0
15	AO	73	GLU	2.0
35	DA	599	G	2.0
35	DA	2834	G	2.0
35	DA	268	C	2.0
35	DA	1026	U	2.0
46	BP	117	GLU	2.0
26	D0	61	ALA	2.0
9	AI	19	LEU	2.0
29	D3	47	VAL	2.0
13	CM	69	GLU	2.0
1	AA	288	A	2.0
6	CF	35	ALA	2.0
17	AQ	45	HIS	2.0
35	BA	2361	A	2.0
37	BC	149	ILE	2.0
41	DG	138	GLN	2.0
41	BG	93	THR	2.0
1	AA	265	G	2.0
1	CA	351	G	2.0
35	BA	354	G	2.0
35	DA	416	C	2.0
35	DA	2473	U	2.0
7	AG	49	ILE	2.0

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Mol	Chain	Res	Type	RSRZ
40	BF	27	GLU	2.0
49	DS	58	LEU	2.0
52	DV	6	LYS	2.0
57	DC	83	ILE	2.0
13	CM	66	LEU	2.0
41	DG	16	ARG	2.0
1	AA	699	C	2.0
11	CK	100	ALA	2.0
37	BC	213	TYR	2.0
44	BN	30	ILE	2.0
53	BW	52	GLU	2.0
3	CC	2	GLY	2.0
19	CS	68	GLY	2.0
42	DH	75	ALA	2.0
17	CQ	18	THR	2.0
35	BA	2781	A	2.0
9	CI	29	ASN	2.0

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

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, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q < 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q < 0.9
23	5MU	CW	55	21/22	0.66	-	177,200,200,200	0
23	5MU	AW	55	21/22	0.26	-	130,173,200,200	0

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, 95th percentile and maximum values of B factors

of atoms in the group. The column labelled 'Q < 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
58	MG	BB	205	1/1	0.23	-	6,6,6,6	1
58	MG	BA	3095	1/1	0.11	-	1,1,1,1	0
58	MG	BA	3058	1/1	0.46	-	3,3,3,3	1
58	MG	DU	201	1/1	0.19	-	77,77,77,77	1
58	MG	BA	3100	1/1	0.30	-	1,1,1,1	1
58	MG	CA	1661	1/1	0.42	-	17,17,17,17	0
58	MG	DA	3361	1/1	0.45	-	88,88,88,88	0
58	MG	CA	1748	1/1	0.76	-	97,97,97,97	1
58	MG	DA	3114	1/1	0.13	-	1,1,1,1	0
58	MG	AA	1797	1/1	0.76	-	9,9,9,9	1
58	MG	AA	1637	1/1	0.25	-	11,11,11,11	0
58	MG	AA	1679	1/1	0.70	-	12,12,12,12	1
58	MG	CA	1700	1/1	0.29	-	10,10,10,10	0
58	MG	AA	1664	1/1	0.26	-	4,4,4,4	0
58	MG	BA	3111	1/1	0.06	-	1,1,1,1	0
58	MG	BA	3426	1/1	0.19	-	27,27,27,27	0
58	MG	BA	3168	1/1	0.44	-	29,29,29,29	0
58	MG	DA	3319	1/1	0.21	-	116,116,116,116	1
58	MG	BA	3066	1/1	0.31	-	20,20,20,20	0
58	MG	BA	3052	1/1	0.10	-	51,51,51,51	0
58	MG	BA	3266	1/1	0.64	-	65,65,65,65	0
58	MG	BA	3108	1/1	0.08	-	25,25,25,25	0
58	MG	BA	3178	1/1	0.57	-	38,38,38,38	0
58	MG	AA	1729	1/1	0.26	-	19,19,19,19	0
58	MG	DA	3183	1/1	0.14	-	11,11,11,11	0
58	MG	DA	3023	1/1	0.35	-	1,1,1,1	0
58	MG	DA	3292	1/1	0.31	-	45,45,45,45	0
58	MG	DA	3379	1/1	0.17	-	47,47,47,47	0
58	MG	DA	3103	1/1	0.21	-	1,1,1,1	0
58	MG	BA	3362	1/1	0.21	-	38,38,38,38	0
58	MG	DA	3073	1/1	0.17	-	1,1,1,1	1
58	MG	AA	1763	1/1	0.74	-	40,40,40,40	1
58	MG	DA	3108	1/1	0.18	-	13,13,13,13	0
58	MG	DA	3356	1/1	0.26	-	57,57,57,57	0
58	MG	BA	3128	1/1	0.35	-	1,1,1,1	0
58	MG	DA	3077	1/1	0.09	-	1,1,1,1	0
58	MG	CW	117	1/1	0.40	-	57,57,57,57	1
58	MG	AA	1794	1/1	0.31	-	40,40,40,40	0
58	MG	BA	3411	1/1	0.23	-	99,99,99,99	1
58	MG	BA	3012	1/1	0.11	-	38,38,38,38	0
58	MG	DA	3376	1/1	0.12	-	1,1,1,1	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	BA	3049	1/1	0.07	-	17,17,17,17	0
58	MG	AA	1792	1/1	0.48	-	56,56,56,56	0
58	MG	DA	3372	1/1	0.89	-	35,35,35,35	1
58	MG	DA	3070	1/1	0.34	-	40,40,40,40	1
58	MG	DA	3202	1/1	0.74	-	7,7,7,7	1
58	MG	BA	3175	1/1	0.09	-	21,21,21,21	0
58	MG	BA	3406	1/1	0.51	-	19,19,19,19	0
58	MG	DA	3340	1/1	0.30	-	59,59,59,59	0
58	MG	BA	3210	1/1	1.62	-	10,10,10,10	1
58	MG	BA	3122	1/1	0.11	-	1,1,1,1	1
58	MG	DX	102	1/1	0.22	-	23,23,23,23	1
58	MG	DA	3304	1/1	0.40	-	1,1,1,1	1
58	MG	DA	3207	1/1	0.41	-	36,36,36,36	1
58	MG	CW	107	1/1	1.66	-	84,84,84,84	0
58	MG	BA	3444	1/1	0.71	-	15,15,15,15	1
58	MG	AA	1736	1/1	0.39	-	20,20,20,20	0
58	MG	DA	3402	1/1	0.34	-	45,45,45,45	1
58	MG	BB	218	1/1	0.13	-	18,18,18,18	0
58	MG	BA	3438	1/1	0.32	-	44,44,44,44	0
58	MG	BA	3305	1/1	0.08	-	37,37,37,37	0
58	MG	AA	1661	1/1	0.08	-	10,10,10,10	1
58	MG	CA	1668	1/1	0.51	-	43,43,43,43	0
58	MG	AA	1744	1/1	0.35	-	22,22,22,22	0
58	MG	BA	3014	1/1	0.71	-	51,51,51,51	0
58	MG	DA	3093	1/1	0.09	-	9,9,9,9	0
58	MG	CA	1606	1/1	0.39	-	29,29,29,29	0
58	MG	B5	102	1/1	0.23	-	48,48,48,48	0
58	MG	DA	3364	1/1	0.26	-	42,42,42,42	0
58	MG	DA	3327	1/1	0.09	-	2,2,2,2	1
59	ZN	AD	303	1/1	0.18	-	26,26,26,26	0
58	MG	BA	3315	1/1	0.38	-	87,87,87,87	0
58	MG	BA	3059	1/1	0.19	-	9,9,9,9	0
58	MG	DX	101	1/1	0.17	-	52,52,52,52	1
58	MG	DA	3004	1/1	0.71	-	64,64,64,64	0
58	MG	BA	3132	1/1	0.17	-	24,24,24,24	1
58	MG	DA	3389	1/1	0.37	-	33,33,33,33	1
58	MG	AA	1692	1/1	0.10	-	3,3,3,3	1
58	MG	BA	3338	1/1	0.19	-	46,46,46,46	0
58	MG	BA	3350	1/1	0.59	-	70,70,70,70	0
58	MG	CA	1781	1/1	0.18	-	1,1,1,1	1
58	MG	DA	3358	1/1	0.53	-	11,11,11,11	1
58	MG	BA	3042	1/1	0.16	-	1,1,1,1	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	CA	1669	1/1	0.17	-	32,32,32,32	0
58	MG	BA	3176	1/1	0.84	-	21,21,21,21	1
58	MG	DA	3317	1/1	0.37	-	78,78,78,78	1
58	MG	DA	3109	1/1	0.06	-	17,17,17,17	0
58	MG	CA	1799	1/1	0.37	-	39,39,39,39	1
58	MG	BA	3073	1/1	0.45	-	1,1,1,1	0
58	MG	DA	3175	1/1	0.18	-	43,43,43,43	1
58	MG	DA	3104	1/1	0.12	-	9,9,9,9	1
58	MG	DA	3271	1/1	0.51	-	113,113,113,113	1
58	MG	CA	1712	1/1	0.67	-	19,19,19,19	0
58	MG	AA	1656	1/1	0.48	-	31,31,31,31	0
58	MG	DA	3039	1/1	0.15	-	2,2,2,2	0
58	MG	CA	1789	1/1	0.19	-	73,73,73,73	0
58	MG	AA	1787	1/1	0.19	-	53,53,53,53	1
58	MG	AA	1782	1/1	0.23	-	47,47,47,47	0
58	MG	DA	3363	1/1	0.49	-	13,13,13,13	1
58	MG	BA	3102	1/1	0.28	-	21,21,21,21	1
58	MG	AV	103	1/1	0.15	-	70,70,70,70	0
58	MG	DA	3009	1/1	0.24	-	1,1,1,1	1
58	MG	BB	202	1/1	0.19	-	9,9,9,9	1
58	MG	AW	120	1/1	0.16	-	58,58,58,58	1
58	MG	DA	3289	1/1	0.41	-	36,36,36,36	0
58	MG	DA	3138	1/1	0.35	-	17,17,17,17	0
58	MG	AW	116	1/1	0.40	-	61,61,61,61	0
58	MG	DA	3221	1/1	0.82	-	79,79,79,79	1
58	MG	BA	3150	1/1	0.25	-	22,22,22,22	0
58	MG	BA	3026	1/1	0.16	-	8,8,8,8	0
58	MG	CW	113	1/1	0.60	-	68,68,68,68	1
58	MG	CA	1675	1/1	0.55	-	47,47,47,47	1
58	MG	BA	3018	1/1	0.24	-	35,35,35,35	0
58	MG	BA	3053	1/1	0.14	-	1,1,1,1	0
58	MG	CA	1631	1/1	0.28	-	57,57,57,57	0
58	MG	AA	1670	1/1	0.23	-	22,22,22,22	0
58	MG	BA	3257	1/1	0.22	-	42,42,42,42	0
58	MG	AA	1725	1/1	0.45	-	48,48,48,48	0
58	MG	DA	3321	1/1	0.26	-	85,85,85,85	0
58	MG	BA	3404	1/1	0.28	-	108,108,108,108	0
58	MG	AA	1684	1/1	0.07	-	25,25,25,25	0
58	MG	DA	3345	1/1	0.15	-	2,2,2,2	1
58	MG	DA	3396	1/1	0.41	-	14,14,14,14	0
58	MG	DA	3371	1/1	0.18	-	35,35,35,35	1
58	MG	BA	3418	1/1	0.63	-	41,41,41,41	1

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	DA	3119	1/1	0.29	-	1,1,1,1	0
58	MG	BA	3291	1/1	0.13	-	7,7,7,7	0
58	MG	CA	1644	1/1	0.18	-	31,31,31,31	0
58	MG	DV	201	1/1	0.11	-	1,1,1,1	0
58	MG	BA	3290	1/1	0.98	-	33,33,33,33	1
58	MG	DA	3010	1/1	0.16	-	1,1,1,1	0
58	MG	DA	3354	1/1	0.17	-	6,6,6,6	1
58	MG	DA	3362	1/1	0.21	-	15,15,15,15	0
58	MG	AA	1803	1/1	0.16	-	9,9,9,9	0
58	MG	AA	1761	1/1	0.40	-	13,13,13,13	0
58	MG	BA	3241	1/1	0.53	-	27,27,27,27	0
58	MG	B5	101	1/1	0.22	-	1,1,1,1	0
58	MG	BA	3123	1/1	0.50	-	35,35,35,35	0
58	MG	BA	3270	1/1	0.26	-	6,6,6,6	0
58	MG	CA	1653	1/1	0.09	-	41,41,41,41	0
58	MG	DA	3027	1/1	0.55	-	55,55,55,55	1
58	MG	BX	101	1/1	0.15	-	26,26,26,26	1
58	MG	BA	3279	1/1	0.26	-	35,35,35,35	1
58	MG	BA	3019	1/1	0.59	-	1,1,1,1	0
58	MG	BA	3401	1/1	0.82	-	42,42,42,42	0
58	MG	AA	1651	1/1	0.11	-	32,32,32,32	0
58	MG	CA	1659	1/1	0.14	-	34,34,34,34	1
58	MG	DA	3072	1/1	0.10	-	1,1,1,1	1
58	MG	DA	3080	1/1	0.06	-	1,1,1,1	1
58	MG	BA	3101	1/1	0.35	-	1,1,1,1	1
58	MG	DA	3045	1/1	0.21	-	10,10,10,10	0
58	MG	AA	1618	1/1	0.15	-	1,1,1,1	0
58	MG	CA	1776	1/1	0.21	-	32,32,32,32	0
58	MG	DA	3255	1/1	0.06	-	1,1,1,1	0
58	MG	BA	3197	1/1	0.20	-	25,25,25,25	1
58	MG	DU	202	1/1	0.81	-	1,1,1,1	1
58	MG	CA	1613	1/1	0.88	-	10,10,10,10	1
58	MG	AA	1658	1/1	0.20	-	1,1,1,1	0
58	MG	DP	201	1/1	0.40	-	1,1,1,1	1
58	MG	DA	3407	1/1	0.23	-	9,9,9,9	0
58	MG	DA	3174	1/1	0.76	-	50,50,50,50	1
58	MG	DA	3344	1/1	0.15	-	20,20,20,20	0
58	MG	BA	3321	1/1	0.12	-	51,51,51,51	0
58	MG	BA	3063	1/1	0.12	-	6,6,6,6	0
58	MG	CA	1601	1/1	0.08	-	21,21,21,21	1
58	MG	AA	1625	1/1	0.48	-	31,31,31,31	0
58	MG	CA	1646	1/1	0.42	-	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	BA	3145	1/1	0.22	-	4,4,4,4	0
58	MG	DA	3112	1/1	0.33	-	1,1,1,1	0
58	MG	DA	3140	1/1	0.47	-	25,25,25,25	0
58	MG	AA	1716	1/1	0.23	-	60,60,60,60	0
58	MG	DA	3032	1/1	0.14	-	23,23,23,23	0
58	MG	DA	3405	1/1	0.43	-	30,30,30,30	1
58	MG	AW	123	1/1	0.38	-	1,1,1,1	1
58	MG	BA	3409	1/1	0.34	-	5,5,5,5	0
58	MG	DA	3161	1/1	0.48	-	112,112,112,112	0
58	MG	AA	1798	1/1	0.73	-	52,52,52,52	1
58	MG	AV	101	1/1	0.56	-	46,46,46,46	0
58	MG	BA	3216	1/1	0.16	-	49,49,49,49	0
58	MG	BA	3044	1/1	0.34	-	36,36,36,36	0
58	MG	DA	3267	1/1	0.27	-	28,28,28,28	1
58	MG	BA	3414	1/1	0.17	-	20,20,20,20	0
58	MG	BA	3214	1/1	0.06	-	106,106,106,106	1
58	MG	AA	1756	1/1	0.20	-	58,58,58,58	0
58	MG	DA	3066	1/1	0.28	-	1,1,1,1	0
58	MG	AA	1620	1/1	0.18	-	3,3,3,3	0
58	MG	DA	3232	1/1	0.44	-	1,1,1,1	0
58	MG	AA	1622	1/1	0.09	-	1,1,1,1	1
58	MG	DB	202	1/1	0.58	-	33,33,33,33	1
58	MG	CA	1714	1/1	0.09	-	53,53,53,53	0
58	MG	DA	3028	1/1	0.10	-	59,59,59,59	1
58	MG	CA	1768	1/1	0.58	-	5,5,5,5	1
58	MG	CA	1756	1/1	0.45	-	56,56,56,56	0
58	MG	DA	3342	1/1	0.34	-	1,1,1,1	1
58	MG	BA	3389	1/1	0.58	-	31,31,31,31	0
58	MG	DA	3308	1/1	0.54	-	3,3,3,3	0
58	MG	AA	1628	1/1	0.13	-	1,1,1,1	1
58	MG	BA	3354	1/1	0.12	-	58,58,58,58	0
58	MG	DA	3429	1/1	0.66	-	36,36,36,36	1
58	MG	AA	1754	1/1	0.38	-	49,49,49,49	1
58	MG	BA	3344	1/1	0.15	-	1,1,1,1	1
58	MG	BA	3275	1/1	0.18	-	37,37,37,37	0
58	MG	AA	1681	1/1	0.21	-	14,14,14,14	0
58	MG	AA	1715	1/1	0.83	-	29,29,29,29	1
58	MG	BA	3313	1/1	0.47	-	18,18,18,18	0
58	MG	AA	1613	1/1	0.79	-	11,11,11,11	1
58	MG	DA	3288	1/1	0.29	-	7,7,7,7	1
58	MG	CA	1701	1/1	0.19	-	3,3,3,3	0
58	MG	CA	1797	1/1	1.56	-	82,82,82,82	1

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	DA	3078	1/1	0.13	-	58,58,58,58	1
58	MG	BA	3147	1/1	0.72	-	1,1,1,1	1
58	MG	CA	1614	1/1	0.28	-	6,6,6,6	0
58	MG	DA	3188	1/1	0.10	-	26,26,26,26	0
58	MG	AA	1703	1/1	0.12	-	22,22,22,22	0
58	MG	D3	101	1/1	0.31	-	42,42,42,42	0
58	MG	BA	3188	1/1	0.22	-	12,12,12,12	0
58	MG	DA	3378	1/1	0.16	-	18,18,18,18	1
58	MG	BA	3086	1/1	0.43	-	1,1,1,1	0
58	MG	BA	3268	1/1	0.37	-	30,30,30,30	0
58	MG	DA	3002	1/1	0.09	-	6,6,6,6	1
58	MG	BA	3420	1/1	0.12	-	10,10,10,10	0
58	MG	BA	3236	1/1	0.20	-	1,1,1,1	0
58	MG	BD	302	1/1	0.10	-	1,1,1,1	0
58	MG	CX	102	1/1	0.13	-	1,1,1,1	1
58	MG	BA	3261	1/1	0.30	-	1,1,1,1	0
58	MG	CA	1728	1/1	0.38	-	41,41,41,41	1
58	MG	DA	3391	1/1	0.17	-	19,19,19,19	0
58	MG	BA	3415	1/1	0.60	-	18,18,18,18	1
58	MG	BA	3090	1/1	0.23	-	24,24,24,24	1
58	MG	AA	1783	1/1	0.14	-	39,39,39,39	1
58	MG	DA	3185	1/1	0.14	-	19,19,19,19	0
58	MG	DA	3419	1/1	0.57	-	58,58,58,58	0
58	MG	CA	1690	1/1	0.69	-	20,20,20,20	1
58	MG	DA	3059	1/1	0.10	-	1,1,1,1	0
58	MG	AA	1669	1/1	0.46	-	5,5,5,5	0
58	MG	BA	3387	1/1	0.11	-	42,42,42,42	0
58	MG	AA	1701	1/1	0.49	-	8,8,8,8	1
58	MG	CL	201	1/1	0.08	-	1,1,1,1	0
58	MG	BA	3165	1/1	0.09	-	4,4,4,4	1
58	MG	BA	3097	1/1	0.08	-	1,1,1,1	0
58	MG	DA	3193	1/1	0.14	-	1,1,1,1	1
58	MG	BA	3416	1/1	0.51	-	13,13,13,13	0
58	MG	CA	1715	1/1	0.25	-	55,55,55,55	0
58	MG	DA	3033	1/1	0.20	-	13,13,13,13	0
58	MG	DA	3191	1/1	0.18	-	5,5,5,5	1
58	MG	DA	3139	1/1	0.56	-	53,53,53,53	0
58	MG	BA	3069	1/1	0.22	-	1,1,1,1	0
58	MG	BA	3249	1/1	0.44	-	58,58,58,58	0
58	MG	BA	3174	1/1	0.15	-	1,1,1,1	1
58	MG	DA	3439	1/1	2.16	-	85,85,85,85	1
58	MG	BA	3379	1/1	1.42	-	50,50,50,50	1

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	BA	3283	1/1	0.26	-	2,2,2,2	0
58	MG	BA	3403	1/1	0.33	-	55,55,55,55	1
58	MG	DA	3432	1/1	0.15	-	50,50,50,50	0
58	MG	BA	3166	1/1	0.17	-	66,66,66,66	0
58	MG	DA	3257	1/1	0.13	-	54,54,54,54	0
58	MG	DA	3200	1/1	0.15	-	2,2,2,2	0
58	MG	BA	3130	1/1	0.43	-	1,1,1,1	1
58	MG	BA	3023	1/1	0.11	-	1,1,1,1	1
58	MG	AA	1755	1/1	0.63	-	47,47,47,47	0
58	MG	AA	1617	1/1	0.14	-	6,6,6,6	1
58	MG	CA	1647	1/1	0.38	-	82,82,82,82	0
58	MG	BA	3187	1/1	0.05	-	1,1,1,1	0
58	MG	BA	3142	1/1	0.13	-	67,67,67,67	0
58	MG	BA	3064	1/1	0.26	-	1,1,1,1	0
58	MG	BA	3217	1/1	0.31	-	35,35,35,35	0
58	MG	CA	1735	1/1	0.29	-	1,1,1,1	1
58	MG	CA	1699	1/1	0.42	-	6,6,6,6	1
58	MG	DA	3295	1/1	0.34	-	79,79,79,79	0
58	MG	AA	1608	1/1	0.08	-	3,3,3,3	0
58	MG	BA	3410	1/1	0.11	-	6,6,6,6	1
58	MG	BA	3164	1/1	0.39	-	56,56,56,56	0
58	MG	AA	1711	1/1	0.16	-	21,21,21,21	1
58	MG	BA	3140	1/1	0.22	-	24,24,24,24	1
58	MG	AA	1665	1/1	0.38	-	21,21,21,21	0
58	MG	DA	3120	1/1	0.20	-	1,1,1,1	1
58	MG	BA	3331	1/1	0.13	-	11,11,11,11	1
58	MG	CA	1670	1/1	0.23	-	23,23,23,23	0
58	MG	AA	1688	1/1	0.77	-	12,12,12,12	1
58	MG	AE	202	1/1	0.21	-	37,37,37,37	0
58	MG	BA	3104	1/1	0.17	-	1,1,1,1	0
58	MG	AA	1771	1/1	0.12	-	9,9,9,9	0
58	MG	DA	3346	1/1	0.44	-	115,115,115,115	0
58	MG	DA	3395	1/1	0.66	-	1,1,1,1	0
58	MG	BA	3196	1/1	0.57	-	19,19,19,19	0
58	MG	AA	1621	1/1	0.13	-	3,3,3,3	0
58	MG	BA	3254	1/1	0.07	-	5,5,5,5	0
58	MG	AW	103	1/1	0.37	-	1,1,1,1	1
58	MG	BA	3370	1/1	0.46	-	37,37,37,37	0
58	MG	DA	3115	1/1	0.29	-	6,6,6,6	0
58	MG	CA	1733	1/1	0.34	-	59,59,59,59	0
58	MG	DA	3081	1/1	0.12	-	11,11,11,11	0
58	MG	DA	3152	1/1	0.80	-	62,62,62,62	1

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	BA	3280	1/1	0.18	-	72,72,72,72	0
58	MG	AA	1641	1/1	0.10	-	26,26,26,26	0
58	MG	DA	3054	1/1	0.08	-	1,1,1,1	0
58	MG	CA	1708	1/1	0.18	-	99,99,99,99	0
58	MG	DA	3283	1/1	0.26	-	7,7,7,7	1
58	MG	BA	3325	1/1	0.11	-	30,30,30,30	0
58	MG	BA	3028	1/1	0.43	-	1,1,1,1	0
58	MG	DA	3367	1/1	0.77	-	95,95,95,95	1
58	MG	DA	3165	1/1	0.19	-	47,47,47,47	0
58	MG	DA	3365	1/1	0.29	-	24,24,24,24	1
58	MG	CA	1638	1/1	0.13	-	6,6,6,6	0
58	MG	BA	3328	1/1	0.11	-	33,33,33,33	0
58	MG	BP	201	1/1	0.18	-	11,11,11,11	1
58	MG	DA	3235	1/1	0.08	-	7,7,7,7	1
58	MG	DA	3290	1/1	0.49	-	21,21,21,21	0
58	MG	CA	1633	1/1	0.09	-	2,2,2,2	0
58	MG	DA	3049	1/1	0.95	-	43,43,43,43	0
58	MG	BA	3278	1/1	0.10	-	8,8,8,8	0
58	MG	DA	3206	1/1	1.09	-	32,32,32,32	1
58	MG	DA	3420	1/1	0.17	-	14,14,14,14	1
58	MG	AA	1607	1/1	0.18	-	1,1,1,1	0
58	MG	DA	3231	1/1	0.22	-	14,14,14,14	0
58	MG	BA	3061	1/1	0.13	-	3,3,3,3	0
58	MG	DA	3388	1/1	0.59	-	39,39,39,39	0
58	MG	CW	101	1/1	1.72	-	83,83,83,83	1
58	MG	AA	1646	1/1	0.34	-	29,29,29,29	0
58	MG	BB	206	1/1	0.54	-	13,13,13,13	1
58	MG	DA	3339	1/1	0.44	-	1,1,1,1	1
58	MG	BA	3010	1/1	0.70	-	17,17,17,17	1
58	MG	BA	3171	1/1	0.15	-	1,1,1,1	1
58	MG	DA	3210	1/1	0.12	-	93,93,93,93	1
58	MG	BA	3262	1/1	0.12	-	32,32,32,32	1
58	MG	AA	1644	1/1	0.24	-	1,1,1,1	0
58	MG	BA	3220	1/1	0.18	-	16,16,16,16	1
58	MG	DA	3359	1/1	0.25	-	40,40,40,40	0
58	MG	DA	3176	1/1	0.56	-	77,77,77,77	0
58	MG	BA	3089	1/1	0.34	-	6,6,6,6	1
58	MG	B1	104	1/1	0.20	-	62,62,62,62	0
58	MG	BA	3263	1/1	0.22	-	29,29,29,29	0
58	MG	DP	204	1/1	0.24	-	15,15,15,15	1
58	MG	BA	3158	1/1	0.28	-	32,32,32,32	0
58	MG	AA	1784	1/1	0.37	-	43,43,43,43	1

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	DA	3089	1/1	0.17	-	3,3,3,3	0
58	MG	BA	3120	1/1	0.52	-	38,38,38,38	0
58	MG	BA	3422	1/1	0.15	-	30,30,30,30	0
58	MG	AA	1733	1/1	0.35	-	5,5,5,5	1
58	MG	BA	3076	1/1	0.23	-	1,1,1,1	0
58	MG	DA	3265	1/1	0.33	-	70,70,70,70	0
58	MG	DA	3399	1/1	0.15	-	19,19,19,19	0
58	MG	DA	3101	1/1	0.43	-	17,17,17,17	1
58	MG	AA	1615	1/1	1.12	-	47,47,47,47	0
58	MG	AA	1714	1/1	0.19	-	23,23,23,23	0
58	MG	AA	1762	1/1	0.56	-	58,58,58,58	0
58	MG	AW	113	1/1	0.28	-	60,60,60,60	0
58	MG	CW	115	1/1	1.01	-	93,93,93,93	1
58	MG	AW	115	1/1	0.78	-	19,19,19,19	1
58	MG	BA	3390	1/1	0.47	-	24,24,24,24	0
58	MG	CW	103	1/1	0.80	-	61,61,61,61	1
58	MG	CA	1651	1/1	0.35	-	50,50,50,50	1
58	MG	CA	1693	1/1	0.07	-	14,14,14,14	1
58	MG	DA	3042	1/1	0.28	-	17,17,17,17	1
58	MG	BA	3087	1/1	0.08	-	18,18,18,18	0
58	MG	BA	3106	1/1	0.12	-	19,19,19,19	1
58	MG	DF	305	1/1	0.51	-	1,1,1,1	1
58	MG	BA	3021	1/1	0.09	-	2,2,2,2	0
58	MG	DA	3079	1/1	0.07	-	5,5,5,5	0
58	MG	DA	3349	1/1	0.20	-	10,10,10,10	1
58	MG	BA	3190	1/1	0.30	-	17,17,17,17	0
58	MG	BA	3155	1/1	0.36	-	37,37,37,37	0
58	MG	DA	3437	1/1	0.29	-	59,59,59,59	1
58	MG	BA	3307	1/1	0.25	-	35,35,35,35	0
58	MG	DA	3377	1/1	0.83	-	62,62,62,62	1
58	MG	AA	1740	1/1	0.17	-	35,35,35,35	0
58	MG	DA	3369	1/1	0.48	-	142,142,142,142	1
58	MG	BA	3232	1/1	0.50	-	30,30,30,30	0
58	MG	AA	1732	1/1	0.20	-	31,31,31,31	0
58	MG	DA	3158	1/1	0.13	-	23,23,23,23	0
58	MG	AA	1804	1/1	0.23	-	20,20,20,20	0
58	MG	AW	102	1/1	0.35	-	82,82,82,82	1
58	MG	BB	201	1/1	0.08	-	32,32,32,32	1
58	MG	AA	1768	1/1	0.26	-	7,7,7,7	0
58	MG	AW	122	1/1	0.44	-	47,47,47,47	0
58	MG	CE	202	1/1	0.49	-	85,85,85,85	1
58	MG	DA	3315	1/1	0.26	-	6,6,6,6	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	DA	3212	1/1	0.61	-	86,86,86,86	1
58	MG	BA	3314	1/1	0.29	-	23,23,23,23	0
58	MG	AA	1759	1/1	0.20	-	20,20,20,20	0
58	MG	DA	3245	1/1	0.94	-	67,67,67,67	0
58	MG	DA	3205	1/1	0.06	-	13,13,13,13	0
58	MG	CA	1605	1/1	0.06	-	18,18,18,18	0
58	MG	BA	3124	1/1	0.08	-	7,7,7,7	0
58	MG	CG	201	1/1	0.30	-	10,10,10,10	1
58	MG	BA	3378	1/1	0.16	-	31,31,31,31	0
58	MG	DA	3262	1/1	1.53	-	79,79,79,79	1
58	MG	DA	3022	1/1	0.21	-	28,28,28,28	1
58	MG	DA	3167	1/1	0.22	-	12,12,12,12	0
58	MG	DA	3154	1/1	0.44	-	83,83,83,83	1
58	MG	CA	1806	1/1	0.31	-	35,35,35,35	0
58	MG	AA	1639	1/1	0.50	-	8,8,8,8	1
58	MG	DA	3269	1/1	0.61	-	57,57,57,57	1
58	MG	BN	202	1/1	0.53	-	3,3,3,3	1
58	MG	CA	1716	1/1	0.79	-	75,75,75,75	0
58	MG	AA	1786	1/1	0.12	-	1,1,1,1	1
58	MG	DN	202	1/1	0.28	-	31,31,31,31	1
58	MG	CA	1654	1/1	0.14	-	1,1,1,1	0
58	MG	DB	206	1/1	0.21	-	72,72,72,72	0
58	MG	BA	3428	1/1	0.12	-	1,1,1,1	0
58	MG	B1	101	1/1	0.22	-	27,27,27,27	0
58	MG	CA	1783	1/1	0.12	-	33,33,33,33	1
58	MG	BA	3436	1/1	0.09	-	6,6,6,6	1
58	MG	AA	1779	1/1	0.24	-	1,1,1,1	1
58	MG	CA	1736	1/1	0.52	-	71,71,71,71	0
58	MG	AA	1765	1/1	0.21	-	41,41,41,41	0
59	ZN	CD	301	1/1	0.20	-	35,35,35,35	0
58	MG	BB	212	1/1	0.16	-	1,1,1,1	1
58	MG	DA	3061	1/1	0.04	-	31,31,31,31	0
58	MG	BA	3211	1/1	0.13	-	50,50,50,50	1
58	MG	BA	3186	1/1	0.21	-	5,5,5,5	1
58	MG	DA	3196	1/1	0.30	-	7,7,7,7	1
58	MG	CA	1767	1/1	1.50	-	94,94,94,94	0
58	MG	CA	1676	1/1	0.22	-	43,43,43,43	1
58	MG	DA	3239	1/1	0.07	-	4,4,4,4	0
58	MG	DA	3084	1/1	0.16	-	13,13,13,13	0
58	MG	AA	1775	1/1	0.20	-	14,14,14,14	1
58	MG	CA	1649	1/1	0.25	-	14,14,14,14	1
58	MG	DA	3268	1/1	0.26	-	24,24,24,24	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	BA	3116	1/1	0.08	-	13,13,13,13	0
58	MG	BA	3200	1/1	0.14	-	5,5,5,5	1
58	MG	BA	3330	1/1	0.11	-	35,35,35,35	0
58	MG	BA	3244	1/1	0.12	-	1,1,1,1	0
58	MG	CA	1730	1/1	0.16	-	1,1,1,1	0
58	MG	DF	301	1/1	0.17	-	38,38,38,38	1
58	MG	BA	3258	1/1	0.15	-	32,32,32,32	0
58	MG	BA	3189	1/1	0.93	-	87,87,87,87	0
58	MG	DA	3030	1/1	0.16	-	2,2,2,2	0
58	MG	DA	3244	1/1	0.11	-	57,57,57,57	0
58	MG	DA	3392	1/1	0.50	-	46,46,46,46	0
58	MG	BA	3308	1/1	1.32	-	30,30,30,30	1
58	MG	AA	1801	1/1	0.32	-	1,1,1,1	0
58	MG	DB	201	1/1	0.36	-	22,22,22,22	1
58	MG	BA	3299	1/1	0.78	-	26,26,26,26	1
58	MG	CA	1698	1/1	0.09	-	22,22,22,22	0
58	MG	BA	3282	1/1	0.43	-	72,72,72,72	0
58	MG	DA	3121	1/1	0.32	-	20,20,20,20	0
58	MG	BB	210	1/1	1.06	-	68,68,68,68	1
58	MG	DA	3425	1/1	0.25	-	19,19,19,19	0
58	MG	DA	3251	1/1	0.49	-	10,10,10,10	1
58	MG	BA	3408	1/1	0.22	-	21,21,21,21	0
58	MG	BA	3435	1/1	0.27	-	85,85,85,85	0
58	MG	BN	201	1/1	0.20	-	47,47,47,47	1
58	MG	DA	3406	1/1	0.48	-	57,57,57,57	0
58	MG	DA	3211	1/1	0.37	-	39,39,39,39	1
58	MG	CA	1687	1/1	0.41	-	42,42,42,42	0
58	MG	DA	3184	1/1	0.14	-	1,1,1,1	0
58	MG	DA	3299	1/1	0.60	-	13,13,13,13	1
58	MG	CA	1770	1/1	1.11	-	78,78,78,78	1
58	MG	D1	101	1/1	0.49	-	55,55,55,55	0
58	MG	AA	1704	1/1	0.16	-	11,11,11,11	0
58	MG	CA	1795	1/1	0.17	-	34,34,34,34	0
58	MG	AA	1649	1/1	0.17	-	56,56,56,56	0
58	MG	BA	3296	1/1	0.10	-	11,11,11,11	0
58	MG	BA	3213	1/1	0.37	-	49,49,49,49	1
58	MG	DA	3252	1/1	0.26	-	89,89,89,89	0
58	MG	BA	3137	1/1	0.67	-	7,7,7,7	0
58	MG	DA	3156	1/1	0.14	-	21,21,21,21	0
58	MG	CA	1739	1/1	0.22	-	32,32,32,32	0
58	MG	BA	3355	1/1	0.09	-	37,37,37,37	0
58	MG	DA	3418	1/1	0.48	-	24,24,24,24	1

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	BA	3013	1/1	0.24	-	1,1,1,1	0
58	MG	CA	1642	1/1	0.12	-	2,2,2,2	0
58	MG	CA	1657	1/1	0.40	-	67,67,67,67	0
58	MG	DA	3225	1/1	0.31	-	35,35,35,35	0
58	MG	AA	1707	1/1	0.45	-	53,53,53,53	0
58	MG	CA	1744	1/1	0.18	-	33,33,33,33	0
58	MG	BA	3439	1/1	0.40	-	25,25,25,25	0
58	MG	DA	3227	1/1	0.46	-	73,73,73,73	0
58	MG	BA	3191	1/1	0.19	-	23,23,23,23	0
58	MG	DA	3260	1/1	0.19	-	8,8,8,8	1
58	MG	DA	3256	1/1	0.31	-	1,1,1,1	0
58	MG	DA	3096	1/1	0.29	-	1,1,1,1	0
58	MG	CA	1769	1/1	0.19	-	28,28,28,28	0
58	MG	DA	3428	1/1	0.55	-	17,17,17,17	0
58	MG	BA	3413	1/1	0.58	-	21,21,21,21	1
58	MG	BA	3079	1/1	0.18	-	1,1,1,1	0
58	MG	DA	3146	1/1	0.14	-	3,3,3,3	0
58	MG	DA	3297	1/1	0.34	-	11,11,11,11	1
58	MG	CA	1667	1/1	0.22	-	8,8,8,8	0
58	MG	BA	3364	1/1	0.15	-	12,12,12,12	0
58	MG	AA	1633	1/1	0.28	-	26,26,26,26	0
58	MG	CA	1705	1/1	0.10	-	5,5,5,5	0
58	MG	BA	3070	1/1	0.15	-	24,24,24,24	0
58	MG	CX	101	1/1	0.06	-	56,56,56,56	1
58	MG	BA	3337	1/1	0.75	-	1,1,1,1	1
58	MG	DA	3385	1/1	0.35	-	44,44,44,44	0
58	MG	DA	3416	1/1	0.07	-	1,1,1,1	1
58	MG	BA	3346	1/1	0.39	-	43,43,43,43	0
58	MG	DA	3243	1/1	0.15	-	18,18,18,18	0
58	MG	DA	3219	1/1	0.76	-	21,21,21,21	1
58	MG	BA	3433	1/1	0.18	-	33,33,33,33	0
58	MG	BA	3276	1/1	0.86	-	34,34,34,34	1
58	MG	BA	3287	1/1	0.30	-	45,45,45,45	1
58	MG	AW	104	1/1	0.07	-	14,14,14,14	1
58	MG	BA	3043	1/1	0.12	-	26,26,26,26	0
58	MG	BB	215	1/1	0.17	-	49,49,49,49	1
58	MG	AA	1750	1/1	0.15	-	42,42,42,42	0
58	MG	DA	3168	1/1	1.04	-	36,36,36,36	1
58	MG	BA	3027	1/1	0.31	-	1,1,1,1	1
58	MG	BA	3199	1/1	0.64	-	5,5,5,5	1
58	MG	BA	3351	1/1	0.35	-	68,68,68,68	1
58	MG	BA	3289	1/1	0.36	-	60,60,60,60	1

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	DA	3370	1/1	0.78	-	100,100,100,100	1
58	MG	CA	1611	1/1	0.08	-	22,22,22,22	0
58	MG	DA	3237	1/1	0.29	-	22,22,22,22	0
58	MG	DA	3037	1/1	0.16	-	1,1,1,1	0
58	MG	BB	204	1/1	0.84	-	76,76,76,76	1
58	MG	CA	1681	1/1	0.53	-	96,96,96,96	1
58	MG	DA	3128	1/1	0.13	-	1,1,1,1	1
58	MG	AA	1710	1/1	0.07	-	113,113,113,113	1
58	MG	BA	3349	1/1	0.37	-	86,86,86,86	0
58	MG	AE	201	1/1	0.26	-	28,28,28,28	0
58	MG	AA	1645	1/1	0.19	-	14,14,14,14	1
58	MG	BA	3380	1/1	0.19	-	63,63,63,63	0
58	MG	BA	3001	1/1	0.40	-	8,8,8,8	0
58	MG	BA	3371	1/1	0.44	-	53,53,53,53	1
58	MG	BA	3402	1/1	0.26	-	13,13,13,13	1
58	MG	BA	3440	1/1	0.18	-	33,33,33,33	0
58	MG	DA	3099	1/1	0.39	-	1,1,1,1	1
58	MG	DA	3179	1/1	0.83	-	52,52,52,52	1
58	MG	DA	3051	1/1	0.24	-	1,1,1,1	0
58	MG	BA	3030	1/1	0.22	-	56,56,56,56	1
58	MG	CA	1650	1/1	0.38	-	98,98,98,98	1
58	MG	DA	3141	1/1	0.56	-	1,1,1,1	1
58	MG	AW	105	1/1	0.73	-	82,82,82,82	0
58	MG	AX	102	1/1	0.20	-	4,4,4,4	0
58	MG	AA	1751	1/1	0.21	-	14,14,14,14	0
58	MG	BA	3119	1/1	0.19	-	4,4,4,4	0
58	MG	AA	1781	1/1	0.31	-	7,7,7,7	1
58	MG	DA	3286	1/1	0.33	-	12,12,12,12	0
58	MG	AA	1738	1/1	0.52	-	18,18,18,18	1
58	MG	AA	1678	1/1	0.12	-	13,13,13,13	0
58	MG	DB	210	1/1	0.18	-	49,49,49,49	1
58	MG	CA	1740	1/1	0.46	-	44,44,44,44	0
58	MG	BA	3267	1/1	0.22	-	34,34,34,34	0
58	MG	BA	3099	1/1	0.34	-	45,45,45,45	1
58	MG	DA	3436	1/1	1.44	-	41,41,41,41	0
58	MG	BA	3230	1/1	0.10	-	22,22,22,22	0
58	MG	BA	3445	1/1	0.47	-	25,25,25,25	1
58	MG	BA	3110	1/1	0.14	-	32,32,32,32	1
58	MG	BA	3051	1/1	0.54	-	1,1,1,1	0
58	MG	DA	3224	1/1	0.32	-	65,65,65,65	1
58	MG	CA	1636	1/1	0.19	-	1,1,1,1	0
58	MG	DA	3274	1/1	0.06	-	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	BA	3343	1/1	0.30	-	33,33,33,33	0
58	MG	DA	3324	1/1	0.14	-	40,40,40,40	0
58	MG	CW	110	1/1	3.26	-	66,66,66,66	1
58	MG	DA	3228	1/1	0.40	-	41,41,41,41	0
58	MG	CA	1697	1/1	0.46	-	59,59,59,59	1
58	MG	CA	1737	1/1	0.60	-	1,1,1,1	1
58	MG	AX	101	1/1	0.32	-	15,15,15,15	1
58	MG	AA	1752	1/1	0.30	-	42,42,42,42	1
58	MG	CA	1629	1/1	0.10	-	2,2,2,2	1
58	MG	BA	3134	1/1	0.07	-	1,1,1,1	0
58	MG	CA	1689	1/1	0.20	-	87,87,87,87	0
58	MG	BA	3430	1/1	0.30	-	1,1,1,1	1
58	MG	DA	3164	1/1	0.14	-	72,72,72,72	0
58	MG	AW	118	1/1	0.26	-	69,69,69,69	1
58	MG	DA	3137	1/1	0.13	-	5,5,5,5	1
58	MG	BA	3256	1/1	0.30	-	1,1,1,1	1
58	MG	DA	3085	1/1	0.15	-	1,1,1,1	0
58	MG	BA	3335	1/1	0.40	-	1,1,1,1	1
58	MG	DA	3097	1/1	0.32	-	55,55,55,55	1
58	MG	DA	3435	1/1	0.88	-	48,48,48,48	0
58	MG	DA	3351	1/1	0.34	-	11,11,11,11	1
58	MG	DA	3423	1/1	0.22	-	49,49,49,49	0
58	MG	DA	3266	1/1	0.15	-	17,17,17,17	1
58	MG	DA	3374	1/1	0.16	-	28,28,28,28	0
58	MG	BA	3002	1/1	0.37	-	16,16,16,16	1
58	MG	DA	3421	1/1	0.34	-	40,40,40,40	0
58	MG	BA	3395	1/1	0.20	-	1,1,1,1	1
58	MG	BA	3062	1/1	0.16	-	1,1,1,1	0
58	MG	DA	3082	1/1	0.13	-	20,20,20,20	0
58	MG	DA	3242	1/1	0.16	-	100,100,100,100	1
58	MG	CA	1612	1/1	0.18	-	75,75,75,75	0
58	MG	BA	3056	1/1	0.10	-	1,1,1,1	0
58	MG	DA	3208	1/1	0.10	-	14,14,14,14	0
58	MG	AW	108	1/1	1.09	-	24,24,24,24	1
58	MG	AA	1643	1/1	0.15	-	43,43,43,43	0
58	MG	DA	3401	1/1	0.25	-	49,49,49,49	1
58	MG	BA	3373	1/1	0.60	-	1,1,1,1	1
58	MG	AA	1723	1/1	0.33	-	55,55,55,55	0
58	MG	BA	3138	1/1	0.21	-	12,12,12,12	0
58	MG	DA	3387	1/1	0.26	-	33,33,33,33	1
58	MG	BB	217	1/1	0.60	-	49,49,49,49	0
58	MG	AA	1683	1/1	0.55	-	1,1,1,1	1

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
58	MG	BA	3072	1/1	0.29	-	100,100,100,100	0
58	MG	CA	1656	1/1	0.13	-	19,19,19,19	1
58	MG	BA	3397	1/1	0.51	-	44,44,44,44	0
58	MG	AA	1686	1/1	0.37	-	61,61,61,61	0
58	MG	CA	1765	1/1	0.27	-	85,85,85,85	0
58	MG	BA	3022	1/1	0.44	-	1,1,1,1	0
58	MG	AA	1647	1/1	0.09	-	17,17,17,17	1
58	MG	AA	1650	1/1	1.81	-	20,20,20,20	1
58	MG	BA	3092	1/1	0.13	-	5,5,5,5	0
58	MG	BA	3038	1/1	0.36	-	22,22,22,22	1
58	MG	DA	3348	1/1	0.28	-	9,9,9,9	1
58	MG	DA	3398	1/1	0.19	-	13,13,13,13	1
58	MG	BA	3084	1/1	0.16	-	1,1,1,1	1
58	MG	DA	3281	1/1	0.40	-	64,64,64,64	0
58	MG	CA	1726	1/1	0.23	-	36,36,36,36	0
58	MG	BO	201	1/1	0.62	-	1,1,1,1	1
58	MG	BA	3050	1/1	0.09	-	1,1,1,1	1
58	MG	DA	3323	1/1	0.12	-	63,63,63,63	1
58	MG	BA	3194	1/1	0.41	-	19,19,19,19	0
58	MG	CA	1745	1/1	0.23	-	112,112,112,112	1
58	MG	DA	3105	1/1	0.21	-	26,26,26,26	0
58	MG	CA	1640	1/1	0.27	-	65,65,65,65	1
58	MG	BD	301	1/1	0.18	-	1,1,1,1	0
58	MG	BA	3224	1/1	1.17	-	80,80,80,80	0
58	MG	AA	1773	1/1	0.76	-	16,16,16,16	1
58	MG	CA	1688	1/1	0.34	-	21,21,21,21	0
58	MG	DF	304	1/1	0.22	-	66,66,66,66	0
58	MG	DA	3058	1/1	0.25	-	42,42,42,42	0
58	MG	BA	3327	1/1	0.16	-	46,46,46,46	1
58	MG	AA	1741	1/1	0.35	-	48,48,48,48	0
58	MG	AA	1724	1/1	0.18	-	34,34,34,34	1
58	MG	DD	302	1/1	0.10	-	2,2,2,2	0
58	MG	DA	3029	1/1	0.10	-	1,1,1,1	0
58	MG	DA	3253	1/1	0.52	-	25,25,25,25	0
58	MG	BB	213	1/1	0.80	-	33,33,33,33	1
58	MG	AA	1666	1/1	0.34	-	47,47,47,47	0
58	MG	BA	3318	1/1	0.30	-	1,1,1,1	0
58	MG	DA	3130	1/1	0.10	-	33,33,33,33	0
58	MG	CW	111	1/1	0.80	-	136,136,136,136	1
58	MG	CA	1713	1/1	0.18	-	40,40,40,40	1
58	MG	BA	3135	1/1	0.16	-	38,38,38,38	0
58	MG	AW	121	1/1	0.41	-	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	BA	3376	1/1	0.07	-	15,15,15,15	0
58	MG	BA	3396	1/1	0.58	-	15,15,15,15	0
58	MG	BA	3096	1/1	0.26	-	1,1,1,1	1
58	MG	DA	3133	1/1	0.12	-	9,9,9,9	0
58	MG	AA	1731	1/1	0.13	-	79,79,79,79	1
58	MG	DA	3422	1/1	0.17	-	62,62,62,62	0
58	MG	AA	1747	1/1	0.24	-	5,5,5,5	0
58	MG	AA	1610	1/1	0.20	-	29,29,29,29	0
58	MG	BB	203	1/1	0.18	-	60,60,60,60	0
58	MG	DA	3294	1/1	0.24	-	73,73,73,73	1
58	MG	AA	1668	1/1	0.27	-	18,18,18,18	0
58	MG	AA	1712	1/1	0.50	-	50,50,50,50	0
58	MG	DA	3063	1/1	0.40	-	1,1,1,1	0
58	MG	AA	1778	1/1	0.10	-	16,16,16,16	1
58	MG	DB	211	1/1	0.20	-	1,1,1,1	1
58	MG	DA	3216	1/1	0.10	-	28,28,28,28	1
58	MG	CA	1609	1/1	0.23	-	62,62,62,62	0
58	MG	AA	1796	1/1	0.15	-	9,9,9,9	0
58	MG	AA	1609	1/1	0.80	-	7,7,7,7	1
58	MG	BA	3234	1/1	0.21	-	12,12,12,12	0
58	MG	CA	1782	1/1	0.13	-	28,28,28,28	0
58	MG	DA	3438	1/1	1.40	-	48,48,48,48	1
58	MG	BA	3032	1/1	0.13	-	1,1,1,1	0
58	MG	BA	3246	1/1	0.21	-	23,23,23,23	1
58	MG	DA	3135	1/1	0.72	-	12,12,12,12	0
58	MG	BA	3286	1/1	0.46	-	32,32,32,32	1
58	MG	CA	1691	1/1	0.09	-	1,1,1,1	0
58	MG	AA	1760	1/1	0.38	-	37,37,37,37	0
58	MG	DA	3147	1/1	0.19	-	22,22,22,22	0
58	MG	DA	3270	1/1	1.09	-	47,47,47,47	1
58	MG	AW	109	1/1	0.32	-	37,37,37,37	1
58	MG	CV	103	1/1	0.17	-	44,44,44,44	0
58	MG	BA	3075	1/1	0.32	-	6,6,6,6	1
58	MG	BA	3434	1/1	0.12	-	60,60,60,60	0
58	MG	BA	3358	1/1	0.36	-	22,22,22,22	0
58	MG	DA	3076	1/1	0.35	-	1,1,1,1	0
58	MG	DA	3241	1/1	0.75	-	50,50,50,50	0
58	MG	DA	3178	1/1	0.19	-	1,1,1,1	1
58	MG	AA	1742	1/1	0.13	-	36,36,36,36	0
58	MG	DA	3433	1/1	0.11	-	28,28,28,28	1
58	MG	DA	3113	1/1	0.12	-	1,1,1,1	0
58	MG	AA	1758	1/1	0.43	-	11,11,11,11	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	DA	3222	1/1	0.12	-	3,3,3,3	1
58	MG	BA	3425	1/1	0.13	-	23,23,23,23	0
58	MG	DA	3329	1/1	1.31	-	62,62,62,62	1
58	MG	DA	3153	1/1	0.24	-	1,1,1,1	0
58	MG	DA	3001	1/1	0.24	-	49,49,49,49	0
58	MG	BN	204	1/1	0.38	-	20,20,20,20	1
58	MG	BA	3206	1/1	0.16	-	1,1,1,1	1
58	MG	CA	1677	1/1	0.39	-	36,36,36,36	0
58	MG	DA	3328	1/1	0.38	-	63,63,63,63	0
58	MG	DA	3074	1/1	0.06	-	2,2,2,2	0
58	MG	DA	3343	1/1	0.50	-	1,1,1,1	1
58	MG	CW	102	1/1	0.29	-	38,38,38,38	1
58	MG	BA	3149	1/1	0.22	-	36,36,36,36	0
58	MG	CA	1800	1/1	0.07	-	9,9,9,9	0
58	MG	DA	3110	1/1	0.11	-	1,1,1,1	1
58	MG	BA	3295	1/1	0.14	-	1,1,1,1	0
58	MG	BA	3008	1/1	0.18	-	19,19,19,19	0
58	MG	BA	3367	1/1	0.43	-	37,37,37,37	0
58	MG	BA	3009	1/1	0.26	-	1,1,1,1	0
58	MG	BA	3094	1/1	0.14	-	25,25,25,25	1
58	MG	AA	1653	1/1	0.95	-	93,93,93,93	1
58	MG	DA	3273	1/1	0.22	-	97,97,97,97	1
58	MG	DA	3431	1/1	0.10	-	16,16,16,16	0
58	MG	BA	3383	1/1	0.88	-	39,39,39,39	1
58	MG	BA	3443	1/1	0.10	-	49,49,49,49	0
58	MG	D1	103	1/1	0.08	-	33,33,33,33	0
58	MG	BA	3247	1/1	0.26	-	26,26,26,26	1
58	MG	DA	3064	1/1	0.17	-	18,18,18,18	0
58	MG	CA	1741	1/1	0.28	-	1,1,1,1	1
58	MG	CA	1793	1/1	0.60	-	74,74,74,74	0
58	MG	AA	1789	1/1	0.27	-	111,111,111,111	0
58	MG	DA	3223	1/1	0.53	-	12,12,12,12	1
58	MG	BA	3260	1/1	0.32	-	1,1,1,1	0
58	MG	DA	3336	1/1	0.31	-	60,60,60,60	0
58	MG	DA	3018	1/1	0.32	-	12,12,12,12	0
58	MG	DB	205	1/1	0.34	-	5,5,5,5	1
58	MG	B3	101	1/1	0.24	-	14,14,14,14	0
58	MG	BA	3333	1/1	0.09	-	41,41,41,41	0
58	MG	AA	1757	1/1	0.33	-	51,51,51,51	1
58	MG	AA	1769	1/1	1.35	-	48,48,48,48	0
58	MG	CW	109	1/1	0.45	-	30,30,30,30	1
58	MG	DA	3430	1/1	0.18	-	13,13,13,13	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	D2	2601	1/1	0.35	-	73,73,73,73	1
58	MG	AM	201	1/1	0.15	-	28,28,28,28	0
58	MG	CA	1641	1/1	0.25	-	17,17,17,17	0
58	MG	DA	3127	1/1	0.46	-	57,57,57,57	0
58	MG	DA	3087	1/1	0.30	-	17,17,17,17	1
58	MG	DA	3335	1/1	0.18	-	7,7,7,7	1
58	MG	B1	103	1/1	0.16	-	1,1,1,1	0
58	MG	DA	3384	1/1	0.25	-	1,1,1,1	1
58	MG	AA	1627	1/1	0.44	-	9,9,9,9	0
58	MG	BF	302	1/1	0.78	-	15,15,15,15	1
58	MG	BA	3431	1/1	0.56	-	12,12,12,12	0
58	MG	BA	3185	1/1	0.07	-	1,1,1,1	0
58	MG	DA	3088	1/1	0.46	-	1,1,1,1	1
58	MG	CA	1808	1/1	0.71	-	43,43,43,43	1
58	MG	DA	3412	1/1	0.24	-	12,12,12,12	0
58	MG	BA	3427	1/1	0.22	-	99,99,99,99	1
58	MG	DA	3410	1/1	0.14	-	31,31,31,31	1
58	MG	DA	3305	1/1	0.15	-	1,1,1,1	0
58	MG	DA	3296	1/1	0.94	-	33,33,33,33	1
58	MG	AA	1630	1/1	0.17	-	19,19,19,19	0
58	MG	BA	3306	1/1	0.76	-	50,50,50,50	0
58	MG	BA	3195	1/1	0.10	-	39,39,39,39	1
58	MG	BA	3407	1/1	0.24	-	10,10,10,10	0
58	MG	AA	1636	1/1	0.07	-	16,16,16,16	0
58	MG	BA	3329	1/1	0.41	-	61,61,61,61	0
58	MG	AA	1660	1/1	0.25	-	17,17,17,17	0
58	MG	BA	3208	1/1	0.12	-	23,23,23,23	1
58	MG	DA	3155	1/1	0.24	-	21,21,21,21	0
58	MG	BA	3322	1/1	0.78	-	21,21,21,21	1
58	MG	CA	1652	1/1	0.47	-	1,1,1,1	1
58	MG	BA	3005	1/1	0.36	-	25,25,25,25	0
58	MG	AW	114	1/1	0.16	-	78,78,78,78	0
58	MG	AA	1603	1/1	0.17	-	20,20,20,20	0
58	MG	CE	201	1/1	0.55	-	78,78,78,78	0
58	MG	BA	3180	1/1	1.17	-	1,1,1,1	1
58	MG	CA	1723	1/1	0.33	-	10,10,10,10	1
58	MG	CA	1754	1/1	0.25	-	42,42,42,42	0
58	MG	DA	3062	1/1	0.46	-	21,21,21,21	0
58	MG	DA	3198	1/1	0.16	-	11,11,11,11	0
58	MG	CW	105	1/1	1.45	-	79,79,79,79	1
58	MG	AA	1785	1/1	0.15	-	19,19,19,19	0
58	MG	BA	3143	1/1	0.35	-	1,1,1,1	1

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	DA	3182	1/1	0.18	-	1,1,1,1	1
58	MG	BA	3035	1/1	0.53	-	67,67,67,67	1
58	MG	BA	3353	1/1	0.64	-	41,41,41,41	1
58	MG	DA	3131	1/1	0.14	-	22,22,22,22	0
58	MG	CA	1803	1/1	0.34	-	83,83,83,83	0
58	MG	CA	1790	1/1	0.19	-	19,19,19,19	0
58	MG	BA	3384	1/1	0.16	-	1,1,1,1	1
58	MG	CA	1665	1/1	0.53	-	34,34,34,34	0
58	MG	AD	301	1/1	0.22	-	15,15,15,15	1
58	MG	DE	302	1/1	0.32	-	50,50,50,50	0
58	MG	DA	3194	1/1	0.31	-	57,57,57,57	0
58	MG	DA	3424	1/1	0.27	-	31,31,31,31	1
58	MG	AA	1629	1/1	0.13	-	22,22,22,22	0
58	MG	BA	3003	1/1	0.32	-	68,68,68,68	1
58	MG	DA	3415	1/1	0.38	-	3,3,3,3	1
58	MG	DX	103	1/1	0.30	-	48,48,48,48	1
58	MG	DA	3017	1/1	0.12	-	11,11,11,11	0
58	MG	DB	214	1/1	0.64	-	25,25,25,25	1
58	MG	BA	3359	1/1	0.24	-	21,21,21,21	1
58	MG	BA	3182	1/1	0.17	-	13,13,13,13	0
58	MG	CA	1798	1/1	0.40	-	43,43,43,43	1
58	MG	BA	3071	1/1	0.12	-	20,20,20,20	0
58	MG	AA	1642	1/1	0.09	-	26,26,26,26	0
58	MG	AA	1634	1/1	0.31	-	28,28,28,28	0
58	MG	BA	3153	1/1	0.38	-	35,35,35,35	1
58	MG	CA	1660	1/1	0.21	-	8,8,8,8	0
58	MG	BA	3323	1/1	0.44	-	74,74,74,74	0
58	MG	DA	3322	1/1	0.18	-	34,34,34,34	1
58	MG	BA	3255	1/1	0.11	-	25,25,25,25	0
58	MG	CW	120	1/1	0.31	-	20,20,20,20	1
58	MG	BA	3339	1/1	0.28	-	3,3,3,3	0
58	MG	DA	3046	1/1	0.40	-	1,1,1,1	0
58	MG	BA	3218	1/1	0.10	-	50,50,50,50	0
58	MG	CA	1607	1/1	0.22	-	54,54,54,54	0
58	MG	CA	1757	1/1	0.61	-	35,35,35,35	0
58	MG	BA	3399	1/1	0.19	-	56,56,56,56	1
58	MG	BA	3083	1/1	0.13	-	18,18,18,18	0
58	MG	BA	3320	1/1	0.20	-	37,37,37,37	1
58	MG	BA	3311	1/1	0.11	-	1,1,1,1	0
58	MG	BA	3081	1/1	0.14	-	1,1,1,1	0
58	MG	BA	3345	1/1	0.56	-	1,1,1,1	1
58	MG	AA	1635	1/1	0.25	-	2,2,2,2	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	CA	1632	1/1	0.18	-	36,36,36,36	0
58	MG	CA	1727	1/1	1.20	-	92,92,92,92	0
58	MG	DA	3148	1/1	0.15	-	26,26,26,26	0
58	MG	BA	3207	1/1	0.64	-	1,1,1,1	1
58	MG	BA	3301	1/1	0.12	-	24,24,24,24	0
58	MG	DA	3218	1/1	0.42	-	12,12,12,12	0
58	MG	AG	201	1/1	0.15	-	5,5,5,5	1
58	MG	CA	1625	1/1	0.19	-	23,23,23,23	0
58	MG	BA	3340	1/1	0.43	-	22,22,22,22	1
58	MG	DA	3125	1/1	0.42	-	4,4,4,4	1
58	MG	BA	3060	1/1	0.19	-	42,42,42,42	0
58	MG	DA	3160	1/1	0.15	-	1,1,1,1	1
58	MG	BA	3348	1/1	1.11	-	84,84,84,84	0
58	MG	AA	1687	1/1	0.12	-	61,61,61,61	0
58	MG	BA	3424	1/1	0.16	-	37,37,37,37	0
58	MG	AA	1802	1/1	0.21	-	18,18,18,18	0
58	MG	CA	1617	1/1	0.62	-	29,29,29,29	0
58	MG	BA	3302	1/1	0.08	-	19,19,19,19	1
58	MG	DA	3312	1/1	0.26	-	1,1,1,1	0
58	MG	AA	1772	1/1	0.47	-	52,52,52,52	0
58	MG	DA	3173	1/1	0.33	-	52,52,52,52	1
58	MG	BA	3144	1/1	0.20	-	40,40,40,40	0
58	MG	AX	105	1/1	0.17	-	35,35,35,35	0
58	MG	BA	3326	1/1	0.25	-	23,23,23,23	1
58	MG	BA	3317	1/1	0.10	-	60,60,60,60	0
58	MG	BA	3057	1/1	0.20	-	7,7,7,7	0
58	MG	DA	3426	1/1	0.21	-	44,44,44,44	0
58	MG	DA	3098	1/1	0.14	-	5,5,5,5	0
58	MG	BA	3352	1/1	0.94	-	44,44,44,44	1
58	MG	DA	3026	1/1	0.64	-	1,1,1,1	0
58	MG	DA	3020	1/1	0.44	-	1,1,1,1	0
58	MG	DA	3057	1/1	0.17	-	3,3,3,3	0
58	MG	DA	3118	1/1	0.26	-	9,9,9,9	0
58	MG	DA	3086	1/1	0.37	-	1,1,1,1	1
58	MG	BA	3292	1/1	0.47	-	27,27,27,27	1
58	MG	BA	3126	1/1	0.34	-	1,1,1,1	0
58	MG	CA	1760	1/1	0.42	-	40,40,40,40	0
58	MG	CA	1608	1/1	0.09	-	17,17,17,17	0
58	MG	DA	3404	1/1	0.16	-	43,43,43,43	0
58	MG	CA	1720	1/1	0.11	-	4,4,4,4	1
58	MG	DA	3053	1/1	0.25	-	3,3,3,3	0
58	MG	DA	3172	1/1	0.08	-	17,17,17,17	1

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	AA	1619	1/1	0.09	-	25,25,25,25	0
58	MG	AA	1764	1/1	0.21	-	35,35,35,35	0
58	MG	BA	3109	1/1	0.37	-	3,3,3,3	0
58	MG	BA	3245	1/1	0.07	-	52,52,52,52	1
58	MG	CW	116	1/1	0.76	-	107,107,107,107	0
58	MG	BA	3304	1/1	0.16	-	24,24,24,24	0
58	MG	DA	3272	1/1	0.14	-	5,5,5,5	0
58	MG	CA	1771	1/1	0.08	-	1,1,1,1	1
58	MG	AA	1654	1/1	0.31	-	65,65,65,65	0
58	MG	AA	1713	1/1	0.12	-	25,25,25,25	0
58	MG	CA	1792	1/1	0.16	-	16,16,16,16	1
58	MG	BD	303	1/1	0.19	-	13,13,13,13	1
58	MG	DA	3337	1/1	0.20	-	92,92,92,92	0
58	MG	CW	121	1/1	0.18	-	28,28,28,28	1
58	MG	CV	104	1/1	0.19	-	45,45,45,45	1
58	MG	BA	3377	1/1	0.27	-	95,95,95,95	0
58	MG	CA	1779	1/1	0.20	-	34,34,34,34	0
58	MG	BA	3067	1/1	0.12	-	1,1,1,1	1
58	MG	CE	203	1/1	0.17	-	38,38,38,38	1
58	MG	AA	1721	1/1	0.31	-	44,44,44,44	0
58	MG	BA	3112	1/1	0.19	-	34,34,34,34	1
58	MG	DA	3261	1/1	0.31	-	30,30,30,30	0
58	MG	DA	3298	1/1	0.08	-	22,22,22,22	0
58	MG	CA	1717	1/1	0.15	-	1,1,1,1	0
58	MG	BA	3310	1/1	0.22	-	5,5,5,5	1
58	MG	BA	3393	1/1	0.23	-	14,14,14,14	0
58	MG	B7	101	1/1	0.07	-	8,8,8,8	0
58	MG	CA	1738	1/1	0.84	-	67,67,67,67	0
58	MG	BA	3226	1/1	0.27	-	1,1,1,1	1
58	MG	DA	3441	1/1	1.12	-	44,44,44,44	1
58	MG	BA	3151	1/1	0.18	-	1,1,1,1	0
58	MG	DA	3048	1/1	0.71	-	56,56,56,56	1
58	MG	DA	3068	1/1	0.17	-	24,24,24,24	0
58	MG	AA	1601	1/1	0.16	-	21,21,21,21	0
58	MG	AA	1672	1/1	0.09	-	24,24,24,24	0
58	MG	D2	2602	1/1	0.29	-	6,6,6,6	1
58	MG	BA	3319	1/1	0.07	-	1,1,1,1	0
58	MG	CA	1616	1/1	0.72	-	64,64,64,64	0
58	MG	BA	3202	1/1	0.15	-	14,14,14,14	0
58	MG	AA	1612	1/1	0.20	-	36,36,36,36	0
58	MG	DA	3192	1/1	0.84	-	27,27,27,27	0
58	MG	DA	3157	1/1	0.18	-	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	BA	3148	1/1	0.23	-	8,8,8,8	0
58	MG	BA	3007	1/1	0.09	-	37,37,37,37	0
58	MG	DA	3314	1/1	0.40	-	1,1,1,1	1
58	MG	CA	1645	1/1	0.25	-	46,46,46,46	0
58	MG	BA	3183	1/1	0.57	-	52,52,52,52	0
58	MG	AA	1793	1/1	0.33	-	6,6,6,6	1
58	MG	DA	3143	1/1	0.36	-	24,24,24,24	0
58	MG	AA	1788	1/1	0.30	-	40,40,40,40	0
58	MG	CA	1604	1/1	0.12	-	41,41,41,41	0
58	MG	DA	3238	1/1	0.42	-	1,1,1,1	0
58	MG	DA	3180	1/1	0.48	-	47,47,47,47	0
58	MG	BA	3392	1/1	0.18	-	70,70,70,70	0
58	MG	CA	1628	1/1	0.64	-	35,35,35,35	0
58	MG	BN	203	1/1	0.17	-	56,56,56,56	1
58	MG	CA	1791	1/1	0.12	-	1,1,1,1	1
58	MG	DA	3136	1/1	0.22	-	9,9,9,9	1
58	MG	DA	3132	1/1	0.08	-	34,34,34,34	0
58	MG	BA	3259	1/1	0.11	-	1,1,1,1	1
58	MG	CA	1786	1/1	0.61	-	39,39,39,39	1
58	MG	DA	3375	1/1	0.52	-	74,74,74,74	1
58	MG	BA	3203	1/1	0.18	-	10,10,10,10	0
58	MG	BA	3048	1/1	0.38	-	1,1,1,1	0
58	MG	DB	209	1/1	0.56	-	96,96,96,96	1
58	MG	CA	1623	1/1	0.31	-	84,84,84,84	1
58	MG	BF	301	1/1	0.35	-	14,14,14,14	0
58	MG	DA	3214	1/1	0.34	-	64,64,64,64	1
58	MG	BA	3198	1/1	0.30	-	4,4,4,4	0
58	MG	AW	106	1/1	1.17	-	26,26,26,26	1
58	MG	CA	1774	1/1	0.33	-	74,74,74,74	0
58	MG	BA	3363	1/1	0.09	-	90,90,90,90	0
58	MG	BA	3391	1/1	0.39	-	30,30,30,30	0
58	MG	AA	1726	1/1	0.25	-	10,10,10,10	0
58	MG	BA	3248	1/1	0.08	-	10,10,10,10	0
58	MG	BA	3006	1/1	0.82	-	77,77,77,77	0
58	MG	DA	3129	1/1	0.11	-	1,1,1,1	0
58	MG	DB	215	1/1	0.51	-	63,63,63,63	1
58	MG	BA	3173	1/1	0.31	-	24,24,24,24	0
58	MG	CA	1627	1/1	0.10	-	5,5,5,5	0
58	MG	DA	3150	1/1	0.46	-	39,39,39,39	1
58	MG	CV	102	1/1	0.40	-	57,57,57,57	0
58	MG	BA	3136	1/1	0.24	-	1,1,1,1	0
58	MG	AA	1718	1/1	0.57	-	1,1,1,1	1

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	BA	3225	1/1	0.76	-	67,67,67,67	0
58	MG	DB	212	1/1	0.25	-	55,55,55,55	0
58	MG	CA	1718	1/1	0.82	-	59,59,59,59	0
58	MG	CA	1807	1/1	0.12	-	1,1,1,1	0
58	MG	DH	201	1/1	0.43	-	12,12,12,12	1
58	MG	DA	3381	1/1	0.08	-	65,65,65,65	0
58	MG	CA	1620	1/1	0.11	-	34,34,34,34	0
58	MG	B1	102	1/1	0.25	-	7,7,7,7	1
58	MG	CA	1683	1/1	0.38	-	19,19,19,19	0
58	MG	BA	3205	1/1	0.16	-	23,23,23,23	0
58	MG	AK	201	1/1	0.35	-	33,33,33,33	1
58	MG	BA	3020	1/1	0.19	-	21,21,21,21	0
58	MG	BU	202	1/1	0.14	-	18,18,18,18	1
58	MG	DA	3025	1/1	0.12	-	5,5,5,5	0
58	MG	BF	303	1/1	0.35	-	36,36,36,36	0
58	MG	BA	3405	1/1	0.28	-	22,22,22,22	0
58	MG	DA	3300	1/1	0.12	-	38,38,38,38	0
58	MG	BA	3025	1/1	0.26	-	3,3,3,3	0
58	MG	DA	3203	1/1	0.38	-	1,1,1,1	1
58	MG	BA	3242	1/1	0.10	-	1,1,1,1	0
58	MG	CA	1658	1/1	1.19	-	24,24,24,24	1
58	MG	BA	3300	1/1	0.38	-	1,1,1,1	1
58	MG	BA	3118	1/1	0.21	-	33,33,33,33	1
58	MG	BA	3107	1/1	0.34	-	23,23,23,23	0
58	MG	DA	3083	1/1	0.14	-	22,22,22,22	0
58	MG	DA	3226	1/1	0.62	-	48,48,48,48	0
58	MG	AA	1694	1/1	0.28	-	13,13,13,13	1
58	MG	DA	3171	1/1	0.21	-	33,33,33,33	0
58	MG	AA	1767	1/1	0.23	-	21,21,21,21	0
58	MG	CL	202	1/1	0.49	-	5,5,5,5	1
58	MG	BA	3316	1/1	0.43	-	1,1,1,1	1
58	MG	BF	304	1/1	0.42	-	9,9,9,9	1
58	MG	CA	1732	1/1	0.26	-	10,10,10,10	0
58	MG	BA	3212	1/1	0.07	-	2,2,2,2	0
58	MG	CA	1655	1/1	0.26	-	69,69,69,69	1
58	MG	AA	1667	1/1	0.32	-	17,17,17,17	0
58	MG	BA	3223	1/1	0.27	-	9,9,9,9	1
58	MG	DB	207	1/1	0.57	-	16,16,16,16	1
58	MG	CA	1804	1/1	0.21	-	45,45,45,45	0
58	MG	DA	3122	1/1	0.16	-	8,8,8,8	0
58	MG	DA	3169	1/1	0.35	-	1,1,1,1	1
58	MG	DA	3107	1/1	0.29	-	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	AD	302	1/1	0.40	-	28,28,28,28	0
58	MG	DA	3394	1/1	0.21	-	30,30,30,30	1
58	MG	DA	3249	1/1	0.07	-	1,1,1,1	0
58	MG	BB	211	1/1	0.13	-	44,44,44,44	1
58	MG	BB	216	1/1	0.22	-	1,1,1,1	1
58	MG	CA	1643	1/1	1.37	-	73,73,73,73	1
58	MG	DA	3276	1/1	0.26	-	47,47,47,47	0
58	MG	BA	3156	1/1	0.91	-	12,12,12,12	1
58	MG	DA	3352	1/1	0.19	-	123,123,123,123	1
58	MG	BA	3033	1/1	0.37	-	20,20,20,20	0
58	MG	BA	3113	1/1	0.17	-	1,1,1,1	0
58	MG	BA	3231	1/1	0.78	-	102,102,102,102	0
58	MG	DA	3159	1/1	0.29	-	21,21,21,21	0
58	MG	BP	202	1/1	0.56	-	9,9,9,9	1
58	MG	CA	1692	1/1	0.30	-	74,74,74,74	1
58	MG	CA	1703	1/1	0.28	-	12,12,12,12	0
58	MG	BA	3177	1/1	0.20	-	36,36,36,36	1
58	MG	BA	3235	1/1	0.17	-	22,22,22,22	0
58	MG	CA	1664	1/1	0.10	-	54,54,54,54	1
58	MG	BA	3437	1/1	0.27	-	64,64,64,64	0
58	MG	CV	101	1/1	0.21	-	41,41,41,41	0
58	MG	AA	1671	1/1	0.32	-	47,47,47,47	0
58	MG	BA	3250	1/1	0.10	-	24,24,24,24	0
58	MG	DA	3123	1/1	0.23	-	1,1,1,1	0
58	MG	BU	201	1/1	0.37	-	12,12,12,12	1
58	MG	BA	3432	1/1	0.18	-	47,47,47,47	0
58	MG	DA	3038	1/1	0.24	-	3,3,3,3	1
58	MG	CA	1663	1/1	0.55	-	15,15,15,15	1
58	MG	BA	3347	1/1	0.54	-	1,1,1,1	0
58	MG	DA	3005	1/1	0.12	-	22,22,22,22	0
58	MG	CA	1746	1/1	0.83	-	74,74,74,74	0
58	MG	CA	1719	1/1	0.19	-	56,56,56,56	1
58	MG	BA	3034	1/1	0.14	-	15,15,15,15	0
58	MG	DA	3091	1/1	0.12	-	1,1,1,1	0
58	MG	DA	3285	1/1	0.36	-	13,13,13,13	1
58	MG	AA	1700	1/1	0.22	-	34,34,34,34	0
58	MG	BA	3272	1/1	0.08	-	1,1,1,1	1
58	MG	BA	3115	1/1	0.14	-	3,3,3,3	0
58	MG	CA	1750	1/1	0.37	-	14,14,14,14	0
58	MG	CA	1678	1/1	0.07	-	4,4,4,4	0
58	MG	D7	101	1/1	0.08	-	93,93,93,93	1
58	MG	BA	3221	1/1	0.14	-	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	DA	3411	1/1	0.19	-	19,19,19,19	0
58	MG	DB	204	1/1	0.48	-	89,89,89,89	1
58	MG	BA	3091	1/1	0.14	-	1,1,1,1	0
58	MG	AX	103	1/1	0.08	-	1,1,1,1	1
58	MG	BA	3332	1/1	0.19	-	64,64,64,64	0
58	MG	BA	3046	1/1	0.05	-	15,15,15,15	0
58	MG	CA	1794	1/1	0.70	-	68,68,68,68	0
58	MG	CW	106	1/1	1.99	-	47,47,47,47	1
58	MG	BA	3201	1/1	0.17	-	31,31,31,31	0
58	MG	DA	3047	1/1	0.09	-	1,1,1,1	0
58	MG	CA	1801	1/1	1.12	-	2,2,2,2	1
58	MG	CA	1743	1/1	0.35	-	64,64,64,64	0
58	MG	BE	301	1/1	0.14	-	1,1,1,1	1
58	MG	DA	3163	1/1	0.75	-	17,17,17,17	1
58	MG	DA	3117	1/1	0.39	-	5,5,5,5	0
58	MG	AW	111	1/1	0.14	-	76,76,76,76	1
58	MG	CA	1684	1/1	0.38	-	59,59,59,59	0
58	MG	AW	101	1/1	0.96	-	51,51,51,51	1
58	MG	CN	101	1/1	0.47	-	65,65,65,65	0
58	MG	DA	3124	1/1	0.20	-	24,24,24,24	0
58	MG	DA	3284	1/1	0.33	-	18,18,18,18	0
58	MG	BA	3423	1/1	0.56	-	54,54,54,54	1
58	MG	DA	3007	1/1	0.14	-	14,14,14,14	0
58	MG	BA	3237	1/1	0.10	-	8,8,8,8	1
58	MG	CW	118	1/1	0.28	-	1,1,1,1	1
58	MG	DA	3181	1/1	0.48	-	47,47,47,47	1
58	MG	BA	3381	1/1	0.06	-	23,23,23,23	0
58	MG	DA	3186	1/1	0.20	-	24,24,24,24	0
58	MG	BA	3172	1/1	0.26	-	100,100,100,100	1
58	MG	DA	3126	1/1	0.12	-	1,1,1,1	0
58	MG	CA	1731	1/1	0.46	-	54,54,54,54	0
58	MG	BA	3041	1/1	0.07	-	46,46,46,46	1
58	MG	DA	3320	1/1	0.53	-	75,75,75,75	0
58	MG	DA	3034	1/1	0.39	-	33,33,33,33	0
58	MG	BA	3341	1/1	0.18	-	4,4,4,4	1
58	MG	BA	3309	1/1	0.36	-	47,47,47,47	0
58	MG	BA	3114	1/1	0.20	-	1,1,1,1	0
58	MG	DA	3021	1/1	0.17	-	2,2,2,2	1
58	MG	DA	3325	1/1	0.20	-	72,72,72,72	0
58	MG	DA	3230	1/1	0.10	-	35,35,35,35	0
58	MG	BA	3129	1/1	0.41	-	8,8,8,8	1
58	MG	BB	208	1/1	0.26	-	38,38,38,38	1

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	DA	3338	1/1	0.28	-	16,16,16,16	1
58	MG	BA	3078	1/1	0.19	-	1,1,1,1	0
58	MG	BA	3369	1/1	0.11	-	50,50,50,50	0
58	MG	DA	3052	1/1	0.13	-	1,1,1,1	0
58	MG	AA	1697	1/1	0.19	-	17,17,17,17	1
58	MG	B2	602	1/1	0.20	-	1,1,1,1	1
58	MG	CA	1711	1/1	0.23	-	37,37,37,37	1
58	MG	DA	3417	1/1	0.08	-	71,71,71,71	0
58	MG	AA	1799	1/1	0.52	-	58,58,58,58	1
58	MG	CA	1775	1/1	0.46	-	1,1,1,1	1
58	MG	AA	1674	1/1	0.14	-	30,30,30,30	1
58	MG	CA	1685	1/1	0.09	-	25,25,25,25	1
58	MG	CA	1752	1/1	0.27	-	85,85,85,85	0
58	MG	DA	3012	1/1	0.34	-	1,1,1,1	0
58	MG	AW	119	1/1	1.18	-	71,71,71,71	1
58	MG	CA	1734	1/1	0.47	-	46,46,46,46	1
58	MG	DB	219	1/1	0.90	-	56,56,56,56	1
58	MG	CA	1686	1/1	0.49	-	49,49,49,49	0
58	MG	DA	3414	1/1	0.19	-	16,16,16,16	0
58	MG	AA	1689	1/1	0.21	-	6,6,6,6	0
58	MG	DA	3149	1/1	0.57	-	27,27,27,27	0
58	MG	BA	3251	1/1	0.61	-	64,64,64,64	0
58	MG	CA	1619	1/1	0.07	-	3,3,3,3	0
58	MG	BA	3372	1/1	0.33	-	20,20,20,20	1
58	MG	DA	3067	1/1	0.24	-	1,1,1,1	0
58	MG	DA	3275	1/1	0.89	-	2,2,2,2	1
58	MG	AA	1604	1/1	0.10	-	3,3,3,3	0
58	MG	BA	3374	1/1	1.74	-	28,28,28,28	1
58	MG	DA	3409	1/1	1.34	-	83,83,83,83	1
58	MG	BA	3368	1/1	0.40	-	1,1,1,1	1
58	MG	DA	3360	1/1	0.11	-	5,5,5,5	0
58	MG	CA	1796	1/1	0.21	-	95,95,95,95	1
58	MG	BA	3394	1/1	0.29	-	7,7,7,7	1
58	MG	BA	3388	1/1	0.30	-	4,4,4,4	1
58	MG	DA	3170	1/1	0.26	-	26,26,26,26	1
58	MG	AA	1735	1/1	0.17	-	15,15,15,15	0
58	MG	BA	3336	1/1	0.17	-	8,8,8,8	1
58	MG	DB	217	1/1	0.06	-	53,53,53,53	1
58	MG	BA	3303	1/1	0.78	-	8,8,8,8	1
58	MG	CA	1622	1/1	0.12	-	39,39,39,39	0
58	MG	CA	1674	1/1	0.21	-	44,44,44,44	1
58	MG	DA	3282	1/1	0.47	-	1,1,1,1	1

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	DA	3332	1/1	0.32	-	41,41,41,41	1
58	MG	AA	1675	1/1	0.32	-	41,41,41,41	1
58	MG	BA	3417	1/1	0.58	-	17,17,17,17	1
58	MG	DA	3116	1/1	0.33	-	1,1,1,1	1
58	MG	DA	3142	1/1	0.21	-	21,21,21,21	0
58	MG	DA	3015	1/1	0.08	-	1,1,1,1	1
58	MG	BA	3356	1/1	0.27	-	3,3,3,3	1
58	MG	AA	1696	1/1	0.66	-	45,45,45,45	1
58	MG	DB	218	1/1	0.29	-	30,30,30,30	1
58	MG	BA	3273	1/1	0.11	-	57,57,57,57	1
58	MG	DA	3220	1/1	0.38	-	86,86,86,86	0
58	MG	AA	1690	1/1	0.14	-	40,40,40,40	0
58	MG	BA	3082	1/1	0.14	-	1,1,1,1	1
58	MG	BA	3342	1/1	0.18	-	26,26,26,26	1
58	MG	BA	3366	1/1	0.44	-	38,38,38,38	1
58	MG	BA	3219	1/1	0.51	-	1,1,1,1	1
58	MG	BA	3285	1/1	0.40	-	40,40,40,40	0
58	MG	DA	3293	1/1	0.30	-	1,1,1,1	1
58	MG	DF	303	1/1	0.56	-	4,4,4,4	1
58	MG	DA	3397	1/1	0.29	-	1,1,1,1	0
58	MG	AA	1730	1/1	0.20	-	1,1,1,1	1
58	MG	DA	3318	1/1	0.59	-	7,7,7,7	1
58	MG	DA	3035	1/1	0.09	-	48,48,48,48	0
58	MG	CA	1618	1/1	0.09	-	22,22,22,22	1
58	MG	BA	3365	1/1	0.30	-	36,36,36,36	0
58	MG	DA	3333	1/1	0.07	-	15,15,15,15	0
58	MG	AA	1673	1/1	0.27	-	12,12,12,12	1
58	MG	BP	203	1/1	0.42	-	1,1,1,1	1
59	ZN	CN	102	1/1	0.18	-	114,114,114,114	0
58	MG	BG	201	1/1	0.07	-	17,17,17,17	0
58	MG	BB	220	1/1	0.61	-	71,71,71,71	1
58	MG	AA	1774	1/1	0.24	-	23,23,23,23	0
58	MG	AA	1614	1/1	0.52	-	11,11,11,11	0
58	MG	DA	3408	1/1	0.26	-	1,1,1,1	0
58	MG	BA	3239	1/1	0.27	-	14,14,14,14	1
58	MG	BA	3193	1/1	0.15	-	1,1,1,1	0
58	MG	DA	3287	1/1	0.07	-	28,28,28,28	0
58	MG	BA	3271	1/1	0.18	-	9,9,9,9	0
58	MG	BA	3068	1/1	0.17	-	1,1,1,1	0
58	MG	BA	3131	1/1	0.10	-	1,1,1,1	0
58	MG	DA	3055	1/1	0.07	-	1,1,1,1	0
58	MG	BX	102	1/1	0.13	-	1,1,1,1	1

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	AA	1623	1/1	0.25	-	16,16,16,16	0
58	MG	DA	3177	1/1	0.33	-	22,22,22,22	0
58	MG	BA	3088	1/1	0.22	-	1,1,1,1	1
58	MG	AA	1659	1/1	0.48	-	27,27,27,27	0
58	MG	DA	3213	1/1	0.12	-	24,24,24,24	0
58	MG	AA	1605	1/1	0.36	-	3,3,3,3	0
58	MG	DA	3250	1/1	0.13	-	1,1,1,1	0
58	MG	CA	1709	1/1	0.15	-	46,46,46,46	0
58	MG	DA	3044	1/1	0.17	-	60,60,60,60	0
58	MG	DA	3166	1/1	0.43	-	43,43,43,43	0
58	MG	BA	3312	1/1	0.19	-	1,1,1,1	0
58	MG	BA	3161	1/1	0.13	-	7,7,7,7	1
58	MG	CA	1725	1/1	0.67	-	43,43,43,43	1
58	MG	CA	1722	1/1	0.07	-	1,1,1,1	1
58	MG	CA	1742	1/1	0.72	-	1,1,1,1	1
58	MG	DA	3229	1/1	0.19	-	1,1,1,1	0
58	MG	CA	1788	1/1	0.31	-	1,1,1,1	1
58	MG	BA	3264	1/1	1.22	-	66,66,66,66	0
58	MG	DA	3236	1/1	0.53	-	14,14,14,14	0
58	MG	CA	1704	1/1	0.69	-	62,62,62,62	0
58	MG	AA	1743	1/1	1.12	-	74,74,74,74	1
58	MG	DA	3347	1/1	0.40	-	35,35,35,35	1
58	MG	CA	1702	1/1	0.44	-	47,47,47,47	0
58	MG	CA	1639	1/1	0.52	-	34,34,34,34	0
58	MG	DA	3056	1/1	0.20	-	11,11,11,11	0
58	MG	BA	3297	1/1	0.20	-	12,12,12,12	0
58	MG	AA	1693	1/1	0.13	-	80,80,80,80	0
58	MG	DA	3050	1/1	0.40	-	136,136,136,136	1
58	MG	DA	3386	1/1	0.15	-	19,19,19,19	0
58	MG	DD	301	1/1	0.09	-	1,1,1,1	0
58	MG	DA	3307	1/1	0.51	-	43,43,43,43	0
58	MG	DA	3019	1/1	0.06	-	23,23,23,23	0
58	MG	BA	3281	1/1	1.12	-	43,43,43,43	1
58	MG	CA	1634	1/1	0.48	-	25,25,25,25	0
58	MG	CA	1751	1/1	0.21	-	10,10,10,10	0
58	MG	DA	3434	1/1	0.29	-	98,98,98,98	0
58	MG	CA	1753	1/1	0.24	-	7,7,7,7	1
58	MG	AA	1749	1/1	0.53	-	1,1,1,1	1
58	MG	AA	1717	1/1	0.10	-	12,12,12,12	1
58	MG	BA	3294	1/1	0.27	-	55,55,55,55	0
58	MG	AA	1719	1/1	0.29	-	1,1,1,1	1
58	MG	CA	1671	1/1	0.39	-	21,21,21,21	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	DA	3301	1/1	1.62	-	55,55,55,55	1
58	MG	BA	3024	1/1	0.34	-	44,44,44,44	1
58	MG	BA	3274	1/1	0.30	-	55,55,55,55	0
58	MG	DA	3102	1/1	0.20	-	3,3,3,3	0
58	MG	B2	601	1/1	0.58	-	22,22,22,22	0
58	MG	BA	3243	1/1	0.15	-	1,1,1,1	0
58	MG	DA	3190	1/1	0.42	-	32,32,32,32	0
58	MG	BA	3227	1/1	1.26	-	71,71,71,71	1
58	MG	AA	1695	1/1	0.47	-	42,42,42,42	0
58	MG	BA	3105	1/1	0.14	-	1,1,1,1	0
58	MG	AA	1606	1/1	0.14	-	1,1,1,1	0
58	MG	CA	1772	1/1	0.14	-	60,60,60,60	0
58	MG	AA	1722	1/1	0.11	-	37,37,37,37	0
58	MG	AX	104	1/1	0.15	-	55,55,55,55	1
58	MG	BA	3400	1/1	0.24	-	1,1,1,1	0
58	MG	BA	3419	1/1	0.10	-	57,57,57,57	1
58	MG	BA	3181	1/1	0.35	-	17,17,17,17	0
58	MG	CA	1630	1/1	0.25	-	40,40,40,40	0
58	MG	AA	1677	1/1	0.12	-	42,42,42,42	0
58	MG	BA	3157	1/1	0.19	-	28,28,28,28	0
58	MG	DA	3403	1/1	0.57	-	47,47,47,47	1
58	MG	AA	1795	1/1	0.18	-	1,1,1,1	0
58	MG	BA	3398	1/1	0.08	-	11,11,11,11	0
58	MG	CA	1729	1/1	0.33	-	63,63,63,63	0
58	MG	BA	3133	1/1	0.26	-	1,1,1,1	0
58	MG	DB	216	1/1	0.36	-	54,54,54,54	0
58	MG	DE	301	1/1	0.18	-	1,1,1,1	1
58	MG	BA	3121	1/1	0.38	-	30,30,30,30	0
58	MG	BA	3442	1/1	0.30	-	33,33,33,33	0
58	MG	AA	1626	1/1	0.08	-	1,1,1,1	0
58	MG	CA	1761	1/1	0.20	-	1,1,1,1	1
58	MG	AA	1791	1/1	0.32	-	35,35,35,35	1
58	MG	BA	3098	1/1	0.12	-	1,1,1,1	0
58	MG	BA	3385	1/1	0.18	-	7,7,7,7	0
58	MG	DA	3373	1/1	0.24	-	74,74,74,74	0
58	MG	CA	1682	1/1	0.15	-	9,9,9,9	0
58	MG	CA	1673	1/1	0.14	-	57,57,57,57	0
58	MG	DA	3094	1/1	0.52	-	1,1,1,1	1
58	MG	AA	1706	1/1	0.47	-	58,58,58,58	1
58	MG	BA	3031	1/1	0.33	-	1,1,1,1	0
58	MG	DD	303	1/1	0.22	-	1,1,1,1	0
58	MG	BA	3170	1/1	0.07	-	1,1,1,1	1

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	BA	3184	1/1	0.17	-	44,44,44,44	0
58	MG	BA	3037	1/1	0.25	-	27,27,27,27	0
58	MG	AA	1727	1/1	0.19	-	63,63,63,63	0
58	MG	BA	3284	1/1	0.30	-	12,12,12,12	1
58	MG	AA	1624	1/1	0.11	-	9,9,9,9	0
58	MG	BA	3179	1/1	0.14	-	30,30,30,30	0
58	MG	DA	3254	1/1	0.23	-	109,109,109,109	1
58	MG	DA	3151	1/1	0.16	-	1,1,1,1	1
58	MG	BA	3228	1/1	0.28	-	50,50,50,50	0
58	MG	CA	1624	1/1	0.68	-	40,40,40,40	0
58	MG	BA	3159	1/1	0.37	-	1,1,1,1	0
58	MG	DA	3201	1/1	0.20	-	15,15,15,15	0
58	MG	AA	1663	1/1	0.57	-	36,36,36,36	0
58	MG	CA	1805	1/1	0.28	-	1,1,1,1	0
58	MG	DA	3036	1/1	0.49	-	13,13,13,13	1
58	MG	BA	3004	1/1	0.18	-	31,31,31,31	1
58	MG	DA	3413	1/1	0.12	-	10,10,10,10	1
58	MG	D1	102	1/1	0.26	-	51,51,51,51	0
58	MG	CW	119	1/1	1.53	-	57,57,57,57	1
58	MG	D5	101	1/1	0.11	-	20,20,20,20	0
58	MG	AA	1685	1/1	0.16	-	12,12,12,12	0
58	MG	DA	3280	1/1	0.14	-	24,24,24,24	1
58	MG	AA	1699	1/1	0.06	-	1,1,1,1	1
58	MG	AA	1746	1/1	0.30	-	29,29,29,29	0
58	MG	DA	3199	1/1	0.12	-	5,5,5,5	0
58	MG	DA	3003	1/1	0.08	-	1,1,1,1	1
58	MG	AA	1657	1/1	0.10	-	8,8,8,8	1
58	MG	DA	3209	1/1	0.21	-	1,1,1,1	1
58	MG	DF	302	1/1	0.29	-	15,15,15,15	0
58	MG	BA	3252	1/1	0.33	-	23,23,23,23	0
58	MG	CW	123	1/1	0.20	-	1,1,1,1	1
58	MG	AL	202	1/1	0.20	-	1,1,1,1	0
58	MG	BA	3093	1/1	0.15	-	1,1,1,1	0
58	MG	BA	3167	1/1	0.17	-	50,50,50,50	0
58	MG	AA	1705	1/1	0.25	-	38,38,38,38	0
58	MG	DB	203	1/1	0.34	-	60,60,60,60	0
58	MG	DG	201	1/1	0.10	-	38,38,38,38	0
58	MG	BA	3229	1/1	0.20	-	39,39,39,39	0
58	MG	BA	3141	1/1	0.24	-	6,6,6,6	1
58	MG	DA	3145	1/1	0.33	-	56,56,56,56	1
58	MG	CA	1615	1/1	0.33	-	42,42,42,42	0
58	MG	BA	3029	1/1	0.70	-	1,1,1,1	1

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	BA	3269	1/1	0.21	-	22,22,22,22	0
58	MG	AW	110	1/1	0.40	-	30,30,30,30	1
58	MG	AA	1748	1/1	0.18	-	73,73,73,73	0
58	MG	CA	1662	1/1	0.41	-	1,1,1,1	0
58	MG	CW	104	1/1	0.18	-	35,35,35,35	1
58	MG	BB	209	1/1	0.38	-	108,108,108,108	0
58	MG	DA	3233	1/1	0.23	-	1,1,1,1	1
58	MG	CA	1747	1/1	0.60	-	19,19,19,19	1
58	MG	DA	3065	1/1	0.20	-	1,1,1,1	1
58	MG	DA	3306	1/1	0.11	-	1,1,1,1	0
58	MG	CA	1696	1/1	0.83	-	52,52,52,52	0
58	MG	DA	3111	1/1	0.40	-	4,4,4,4	0
58	MG	BA	3152	1/1	0.30	-	62,62,62,62	0
58	MG	DA	3197	1/1	0.27	-	3,3,3,3	0
58	MG	AA	1776	1/1	0.17	-	33,33,33,33	1
58	MG	AA	1698	1/1	0.14	-	1,1,1,1	0
58	MG	BA	3238	1/1	0.54	-	38,38,38,38	1
58	MG	DA	3357	1/1	0.07	-	52,52,52,52	0
58	MG	AA	1631	1/1	0.16	-	1,1,1,1	1
58	MG	CA	1707	1/1	0.42	-	32,32,32,32	0
59	ZN	AN	101	1/1	0.28	-	143,143,143,143	0
58	MG	BA	3054	1/1	0.10	-	20,20,20,20	0
58	MG	DA	3279	1/1	0.33	-	75,75,75,75	0
58	MG	CA	1780	1/1	0.60	-	31,31,31,31	1
58	MG	DA	3400	1/1	0.69	-	61,61,61,61	1
58	MG	DA	3016	1/1	0.15	-	57,57,57,57	0
58	MG	BA	3421	1/1	0.77	-	39,39,39,39	1
58	MG	DA	3204	1/1	0.18	-	51,51,51,51	1
58	MG	DA	3355	1/1	0.17	-	42,42,42,42	1
58	MG	DA	3006	1/1	0.48	-	93,93,93,93	0
58	MG	BA	3429	1/1	0.16	-	32,32,32,32	0
58	MG	CX	104	1/1	0.21	-	39,39,39,39	0
58	MG	CW	122	1/1	0.28	-	70,70,70,70	0
58	MG	DA	3326	1/1	1.10	-	96,96,96,96	1
58	MG	DA	3008	1/1	0.32	-	1,1,1,1	0
58	MG	CA	1759	1/1	2.86	-	108,108,108,108	1
58	MG	CA	1762	1/1	0.22	-	7,7,7,7	1
58	MG	CA	1602	1/1	0.52	-	72,72,72,72	0
58	MG	DA	3100	1/1	0.17	-	63,63,63,63	1
58	MG	DA	3189	1/1	0.21	-	59,59,59,59	0
58	MG	CA	1778	1/1	0.39	-	1,1,1,1	1
58	MG	DA	3075	1/1	0.20	-	1,1,1,1	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	CA	1621	1/1	0.23	-	31,31,31,31	0
58	MG	BA	3045	1/1	0.30	-	1,1,1,1	1
58	MG	BA	3169	1/1	0.23	-	33,33,33,33	0
58	MG	BA	3324	1/1	0.35	-	56,56,56,56	0
58	MG	BA	3065	1/1	0.14	-	7,7,7,7	0
58	MG	AA	1728	1/1	0.16	-	34,34,34,34	0
58	MG	DA	3331	1/1	0.28	-	79,79,79,79	1
58	MG	DA	3316	1/1	0.38	-	14,14,14,14	1
58	MG	AW	112	1/1	0.24	-	64,64,64,64	1
58	MG	DA	3060	1/1	0.16	-	1,1,1,1	0
58	MG	DA	3031	1/1	0.27	-	2,2,2,2	0
58	MG	AA	1648	1/1	0.24	-	3,3,3,3	1
58	MG	CA	1755	1/1	0.21	-	1,1,1,1	0
58	MG	DA	3162	1/1	0.15	-	2,2,2,2	1
58	MG	AL	201	1/1	0.40	-	1,1,1,1	1
58	MG	CW	108	1/1	0.65	-	28,28,28,28	1
58	MG	CA	1610	1/1	0.17	-	15,15,15,15	1
58	MG	BA	3077	1/1	0.14	-	1,1,1,1	0
58	MG	CA	1603	1/1	0.15	-	77,77,77,77	0
58	MG	DA	3014	1/1	0.27	-	14,14,14,14	0
58	MG	AA	1708	1/1	0.20	-	37,37,37,37	0
58	MG	DA	3069	1/1	0.28	-	21,21,21,21	0
58	MG	D1	104	1/1	0.59	-	74,74,74,74	1
58	MG	AA	1780	1/1	0.61	-	95,95,95,95	1
58	MG	DB	213	1/1	0.13	-	28,28,28,28	1
58	MG	AA	1709	1/1	0.14	-	3,3,3,3	0
58	MG	BA	3015	1/1	0.18	-	6,6,6,6	0
58	MG	AA	1640	1/1	0.21	-	18,18,18,18	0
58	MG	BA	3386	1/1	0.15	-	13,13,13,13	0
58	MG	DA	3013	1/1	0.46	-	7,7,7,7	1
58	MG	CA	1635	1/1	0.08	-	6,6,6,6	0
58	MG	DA	3427	1/1	0.29	-	1,1,1,1	0
58	MG	CA	1773	1/1	0.29	-	9,9,9,9	0
58	MG	DA	3258	1/1	0.53	-	23,23,23,23	1
58	MG	DA	3368	1/1	0.38	-	78,78,78,78	0
58	MG	DA	3248	1/1	0.32	-	5,5,5,5	1
58	MG	CA	1637	1/1	0.15	-	47,47,47,47	0
58	MG	DA	3215	1/1	0.43	-	17,17,17,17	1
58	MG	BA	3154	1/1	0.22	-	56,56,56,56	0
58	MG	BA	3293	1/1	0.08	-	19,19,19,19	0
58	MG	DA	3043	1/1	0.20	-	6,6,6,6	0
58	MG	AA	1611	1/1	0.13	-	24,24,24,24	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	BA	3127	1/1	0.39	-	3,3,3,3	1
58	MG	CA	1763	1/1	0.70	-	15,15,15,15	0
58	MG	AA	1676	1/1	0.29	-	32,32,32,32	0
58	MG	AA	1734	1/1	0.82	-	36,36,36,36	0
58	MG	AA	1766	1/1	0.14	-	1,1,1,1	1
58	MG	DA	3353	1/1	0.24	-	107,107,107,107	1
58	MG	AA	1616	1/1	0.12	-	24,24,24,24	1
58	MG	DA	3247	1/1	0.32	-	13,13,13,13	0
58	MG	BA	3209	1/1	0.08	-	18,18,18,18	0
58	MG	AA	1632	1/1	0.17	-	4,4,4,4	0
58	MG	DA	3380	1/1	0.11	-	16,16,16,16	1
58	MG	BA	3334	1/1	0.40	-	51,51,51,51	1
58	MG	CA	1724	1/1	0.26	-	51,51,51,51	0
58	MG	CA	1626	1/1	0.07	-	23,23,23,23	0
58	MG	CA	1758	1/1	0.42	-	21,21,21,21	1
58	MG	BA	3074	1/1	0.10	-	1,1,1,1	1
58	MG	AW	117	1/1	0.34	-	19,19,19,19	1
58	MG	DA	3440	1/1	0.30	-	80,80,80,80	0
58	MG	CA	1666	1/1	0.23	-	1,1,1,1	0
58	MG	AA	1680	1/1	0.54	-	53,53,53,53	0
58	MG	DA	3330	1/1	0.36	-	73,73,73,73	0
58	MG	DA	3011	1/1	0.07	-	42,42,42,42	0
58	MG	DU	203	1/1	0.58	-	49,49,49,49	1
58	MG	DA	3134	1/1	0.28	-	8,8,8,8	0
58	MG	AA	1638	1/1	0.42	-	39,39,39,39	0
58	MG	DP	203	1/1	0.22	-	1,1,1,1	1
58	MG	CX	103	1/1	0.24	-	45,45,45,45	1
58	MG	AA	1655	1/1	0.41	-	31,31,31,31	0
58	MG	CW	114	1/1	0.15	-	4,4,4,4	1
58	MG	DA	3259	1/1	0.10	-	22,22,22,22	0
58	MG	DA	3024	1/1	0.39	-	32,32,32,32	0
58	MG	CA	1679	1/1	0.24	-	22,22,22,22	0
58	MG	AA	1602	1/1	0.16	-	64,64,64,64	0
58	MG	BA	3382	1/1	0.06	-	38,38,38,38	0
58	MG	AA	1800	1/1	0.24	-	38,38,38,38	0
58	MG	DA	3264	1/1	0.26	-	25,25,25,25	0
58	MG	DA	3187	1/1	0.78	-	83,83,83,83	1
58	MG	CA	1802	1/1	1.10	-	39,39,39,39	0
58	MG	BA	3265	1/1	0.15	-	37,37,37,37	0
58	MG	BA	3361	1/1	0.22	-	1,1,1,1	1
58	MG	DA	3302	1/1	0.23	-	80,80,80,80	1
58	MG	CA	1710	1/1	0.14	-	16,16,16,16	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	BA	3160	1/1	0.30	-	6,6,6,6	0
58	MG	CA	1764	1/1	0.07	-	49,49,49,49	0
58	MG	BA	3253	1/1	0.37	-	56,56,56,56	1
58	MG	DB	208	1/1	0.14	-	53,53,53,53	1
58	MG	BB	214	1/1	0.21	-	34,34,34,34	0
58	MG	DA	3311	1/1	0.20	-	11,11,11,11	1
58	MG	AA	1777	1/1	0.10	-	6,6,6,6	0
58	MG	DA	3144	1/1	0.20	-	1,1,1,1	0
58	MG	BA	3240	1/1	0.09	-	8,8,8,8	0
58	MG	AA	1770	1/1	0.28	-	16,16,16,16	1
58	MG	CA	1777	1/1	0.14	-	47,47,47,47	0
58	MG	AA	1737	1/1	0.23	-	30,30,30,30	1
58	MG	CW	112	1/1	0.40	-	24,24,24,24	1
58	MG	AA	1745	1/1	0.32	-	79,79,79,79	0
58	MG	DA	3278	1/1	0.41	-	36,36,36,36	1
58	MG	CA	1706	1/1	0.72	-	47,47,47,47	1
58	MG	DA	3263	1/1	0.16	-	16,16,16,16	0
58	MG	AA	1652	1/1	0.32	-	11,11,11,11	0
58	MG	BA	3215	1/1	0.82	-	38,38,38,38	1
58	MG	BA	3117	1/1	0.15	-	8,8,8,8	0
58	MG	DA	3071	1/1	0.39	-	1,1,1,1	0
58	MG	DA	3095	1/1	0.03	-	1,1,1,1	0
58	MG	AW	107	1/1	1.07	-	57,57,57,57	0
58	MG	AA	1691	1/1	0.39	-	69,69,69,69	0
58	MG	DA	3040	1/1	0.11	-	1,1,1,1	0
58	MG	AA	1790	1/1	0.28	-	35,35,35,35	0
58	MG	AV	102	1/1	0.36	-	73,73,73,73	0
58	MG	CA	1721	1/1	0.32	-	17,17,17,17	1
58	MG	BA	3016	1/1	0.12	-	31,31,31,31	1
58	MG	CA	1784	1/1	0.18	-	1,1,1,1	1
58	MG	DA	3341	1/1	0.36	-	20,20,20,20	0
58	MG	BA	3125	1/1	0.45	-	1,1,1,1	0
58	MG	DA	3041	1/1	0.12	-	24,24,24,24	0
58	MG	DA	3366	1/1	0.28	-	46,46,46,46	1
58	MG	CA	1694	1/1	0.13	-	59,59,59,59	0
58	MG	DA	3350	1/1	0.29	-	73,73,73,73	1
58	MG	DS	201	1/1	0.18	-	1,1,1,1	1
58	MG	BA	3204	1/1	0.33	-	38,38,38,38	0
58	MG	DA	3310	1/1	0.80	-	7,7,7,7	1
58	MG	DA	3217	1/1	0.24	-	31,31,31,31	0
58	MG	AA	1702	1/1	0.35	-	57,57,57,57	0
58	MG	BA	3047	1/1	0.27	-	1,1,1,1	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	BA	3360	1/1	0.18	-	10,10,10,10	0
58	MG	BA	3163	1/1	0.15	-	33,33,33,33	0
58	MG	DA	3334	1/1	0.11	-	30,30,30,30	0
58	MG	DA	3240	1/1	0.18	-	72,72,72,72	0
58	MG	DA	3383	1/1	0.13	-	42,42,42,42	1
58	MG	DA	3195	1/1	0.13	-	15,15,15,15	0
58	MG	BA	3162	1/1	0.18	-	54,54,54,54	1
58	MG	BA	3277	1/1	0.20	-	28,28,28,28	1
58	MG	DA	3313	1/1	0.22	-	5,5,5,5	0
58	MG	BA	3298	1/1	0.10	-	1,1,1,1	1
58	MG	BA	3036	1/1	0.40	-	18,18,18,18	0
58	MG	BA	3146	1/1	0.13	-	1,1,1,1	0
58	MG	AA	1753	1/1	0.46	-	48,48,48,48	0
58	MG	BA	3103	1/1	0.91	-	33,33,33,33	1
58	MG	DA	3303	1/1	0.43	-	4,4,4,4	0
58	MG	DA	3106	1/1	0.27	-	1,1,1,1	0
58	MG	CA	1749	1/1	0.13	-	49,49,49,49	1
58	MG	DA	3277	1/1	0.20	-	22,22,22,22	0
58	MG	DA	3393	1/1	0.12	-	1,1,1,1	1
58	MG	DA	3234	1/1	0.11	-	88,88,88,88	1
58	MG	AA	1682	1/1	0.64	-	46,46,46,46	0
58	MG	DN	201	1/1	0.25	-	21,21,21,21	1
58	MG	BA	3222	1/1	0.14	-	1,1,1,1	0
58	MG	AA	1720	1/1	0.34	-	91,91,91,91	0
58	MG	BA	3017	1/1	0.12	-	3,3,3,3	1
58	MG	CA	1680	1/1	0.18	-	75,75,75,75	1
58	MG	BB	219	1/1	0.62	-	73,73,73,73	1
58	MG	CA	1672	1/1	0.37	-	44,44,44,44	0
58	MG	BA	3011	1/1	0.58	-	15,15,15,15	0
58	MG	BA	3080	1/1	0.19	-	26,26,26,26	0
58	MG	BA	3357	1/1	0.11	-	105,105,105,105	1
58	MG	DA	3291	1/1	0.13	-	1,1,1,1	1
58	MG	BA	3055	1/1	0.15	-	1,1,1,1	0
58	MG	AA	1739	1/1	0.50	-	44,44,44,44	0
58	MG	CA	1785	1/1	0.56	-	112,112,112,112	0
58	MG	BA	3039	1/1	0.08	-	1,1,1,1	0
58	MG	BA	3040	1/1	0.14	-	16,16,16,16	0
58	MG	DA	3390	1/1	0.19	-	34,34,34,34	0
58	MG	BA	3233	1/1	0.24	-	1,1,1,1	0
58	MG	DA	3090	1/1	0.49	-	97,97,97,97	0
58	MG	AV	104	1/1	0.06	-	58,58,58,58	1
58	MG	AA	1662	1/1	0.08	-	41,41,41,41	1

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
58	MG	BB	207	1/1	0.06	-	11,11,11,11	0
58	MG	CA	1766	1/1	0.43	-	1,1,1,1	0
58	MG	CA	1787	1/1	0.47	-	11,11,11,11	0
58	MG	BA	3192	1/1	0.27	-	15,15,15,15	0
58	MG	BA	3412	1/1	0.49	-	34,34,34,34	1
58	MG	BA	3375	1/1	0.09	-	62,62,62,62	0
58	MG	DA	3382	1/1	0.48	-	71,71,71,71	0
58	MG	BA	3085	1/1	0.16	-	1,1,1,1	0
58	MG	BA	3441	1/1	0.76	-	6,6,6,6	1
58	MG	DA	3246	1/1	0.29	-	57,57,57,57	0
58	MG	DP	202	1/1	0.29	-	1,1,1,1	1
58	MG	DA	3309	1/1	0.23	-	44,44,44,44	0
58	MG	CA	1648	1/1	0.51	-	14,14,14,14	1
58	MG	BA	3139	1/1	0.25	-	8,8,8,8	1
58	MG	BA	3288	1/1	0.18	-	44,44,44,44	1
58	MG	DA	3092	1/1	0.46	-	1,1,1,1	0
58	MG	CA	1695	1/1	0.31	-	1,1,1,1	1

6.5 Other polymers ⓘ

There are no such residues in this entry.