



Full wwPDB X-ray Structure Validation Report ⓘ

Jun 16, 2014 – 08:33 PM BST

PDB ID : 4V5F
Title : The structure of the ribosome with elongation factor G trapped in the post-translocational state
Authors : Gao, Y.-G.; Selmer, M.; Dunham, C.M.; Weixlbaumer, A.; Kelley, A.C.; Ramakrishnan, V.
Deposited on : 2009-09-01
Resolution : 3.60 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>

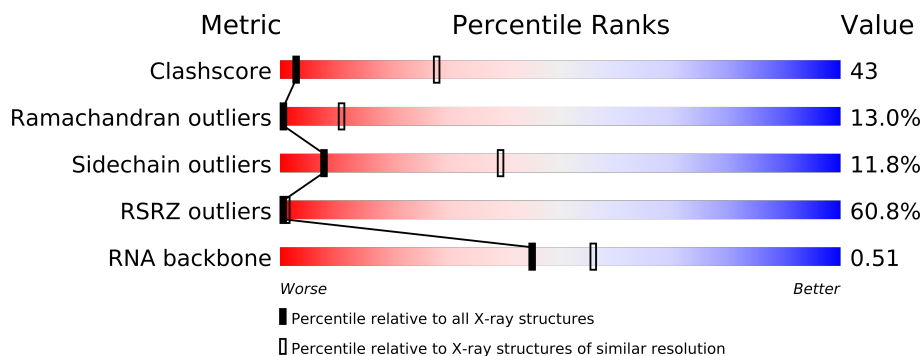
The following versions of software and data (see [references](#)) were used in the production of this report:

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 3.60 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))
Clashscore	79885	1155 (3.80-3.40)
Ramachandran outliers	78287	1109 (3.80-3.40)
Sidechain outliers	78261	1108 (3.80-3.40)
RSRZ outliers	66119	1000 (3.84-3.36)
RNA backbone	1838	1012 (4.40-2.76)

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	
7	AG	156	
7	CG	156	

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Mol	Chain	Length	Quality of chain
8	AH	138	
8	CH	138	
9	AI	128	
9	CI	128	
10	AJ	105	
10	CJ	105	
11	AK	129	
11	CK	129	
12	AL	132	
12	CL	132	
13	AM	126	
13	CM	126	
14	AN	61	
14	CN	61	
15	AO	89	
15	CO	89	
16	AP	88	
16	CP	88	
17	AQ	105	
17	CQ	105	
18	AR	88	
18	CR	88	
19	AS	93	
19	CS	93	
20	AT	106	
20	CT	106	
21	AU	27	
21	CU	27	
22	AV	77	
22	AW	77	
22	CV	77	
22	CW	77	
23	AX	25	
23	CX	25	
24	AY	691	
24	CY	691	
25	B0	85	
25	D0	85	
26	B1	98	
26	D1	98	
27	B2	72	
27	D2	72	

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Mol	Chain	Length	Quality of chain
28	B3	60	
28	D3	60	
29	B4	71	
29	D4	71	
30	B5	60	
30	D5	60	
31	B6	54	
31	D6	54	
32	B7	49	
32	D7	49	
33	B8	65	
33	D8	65	
34	B9	37	
34	D9	37	
35	BA	2915	
35	DA	2915	
36	BB	122	
36	DB	122	
37	BC	229	
37	DC	229	
38	BD	276	
38	DD	276	
39	BE	206	
39	DE	206	
40	BF	210	
40	DF	210	
41	BG	182	
41	DG	182	
42	BH	180	
42	DH	180	
43	BJ	173	
43	DJ	173	
44	BK	147	
44	DK	147	
45	BL	125	
45	BM	125	
45	Bl	125	
45	Bm	125	
45	DL	125	
45	DM	125	
45	DI	125	
45	Dm	125	

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Mol	Chain	Length	Quality of chain
46	BN	140	
46	DN	140	
47	BO	122	
47	DO	122	
48	BP	150	
48	DP	150	
49	BQ	141	
49	DQ	141	
50	BR	118	
50	DR	118	
51	BS	112	
51	DS	112	
52	BT	146	
52	DT	146	
53	BU	118	
53	DU	118	
54	BV	101	
54	DV	101	
55	BW	113	
55	DW	113	
56	BX	96	
56	DX	96	
57	BY	110	
57	DY	110	
58	BZ	206	
58	DZ	206	

2 Entry composition

There are 62 unique types of molecules in this entry. The entry contains 311552 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
			1010	639	197	174			
9	CI	127	Total	C	N	O	0	0	0
			1010	639	197	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 TYPE Z.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- Molecule 22 is a RNA chain called E-SITE TRNA FMET OR P-SITE TRNA FMET (UN-MODIFIED BASES EXCEPT FOR THYMINE 54).

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

- Molecule 23 is a RNA chain called MRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	AX	11	Total	C	N	O	P	0	0	0
			230	105	41	74	10			
23	CX	11	Total	C	N	O	P	0	0	0
			230	105	41	74	10			

- Molecule 24 is a protein called ELONGATION FACTOR G.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	AY	667	Total	C	N	O	S	0	0	1
			5215	3316	893	988	18			
24	CY	667	Total	C	N	O	S	0	0	1
			5215	3316	893	988	18			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	B0	84	Total	C	N	O	S	0	0	0
			662	410	140	111	1			
25	D0	84	Total	C	N	O	S	0	0	0
			662	410	140	111	1			

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	B4	58	Total	C	N	O	S	0	0	1
			451	285	78	83	5			
29	D4	58	Total	C	N	O	S	0	0	1
			451	285	78	83	5			

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

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

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

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

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	D6	50	Total	C	N	O	S	0	0	0
			433	270	88	71	4			

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	B9	37	Total	C	N	O	S	0	0	0
			307	188	68	47	4			
34	D9	37	Total	C	N	O	S	0	0	0
			307	188	68	47	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	BA	2901	Total	C	N	O	P	0	0	0
			62474	27806	11681	20087	2900			
35	DA	2901	Total	C	N	O	P	0	0	0
			62474	27806	11681	20087	2900			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	BB	119	Total	C	N	O	P	0	0	0
			2551	1136	471	826	118			
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	228	Total	C	N	O	S	0	0	0
			1742	1101	319	319	3			
37	DC	228	Total	C	N	O	S	0	0	0
			1742	1101	319	319	3			

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	BE	205	Total	C	N	O	S	0	0	1
			1564	988	300	270	6			
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	167	Total	C	N	O	S	0	0	1
			1269	803	238	227	1			
42	DH	167	Total	C	N	O	S	0	0	1
			1269	803	238	227	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	BJ	170	Total	C	N	O	S	0	0	0
			851	510	170	171				
43	DJ	170	Total	C	N	O	S	0	0	0
			851	510	170	171				

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	BK	140	Total	C	N	O	S	0	0	1
			1026	653	182	186	5			
44	DK	140	Total	C	N	O	S	0	0	1
			1026	653	182	186	5			

- Molecule 45 is a protein called 50S RIBOSOMAL PROTEIN L12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	BL	102	Total	C	N	O	S	0	0	1
			506	303	102	101				
45	BM	31	Total	C	N	O	S	0	0	1
			151	90	31	30				
45	Bl	31	Total	C	N	O	S	0	0	1
			151	90	31	30				
45	Bm	30	Total	C	N	O	S	0	0	1
			146	87	30	29				
45	DL	102	Total	C	N	O	S	0	0	1
			506	303	102	101				
45	DM	31	Total	C	N	O	S	0	0	1
			151	90	31	30				
45	Dl	31	Total	C	N	O	S	0	0	1
			151	90	31	30				
45	Dm	30	Total	C	N	O	S	0	0	1
			146	87	30	29				

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
57	BY	107	Total	C	N	O	S	0	0	1
			811	520	155	131	5			
57	DY	107	Total	C	N	O	S	0	0	1
			811	520	155	131	5			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
58	BZ	185	Total	C	N	O	S	0	0	1
			1468	936	262	268	2			
58	DZ	185	Total	C	N	O	S	0	0	1
			1468	936	262	268	2			

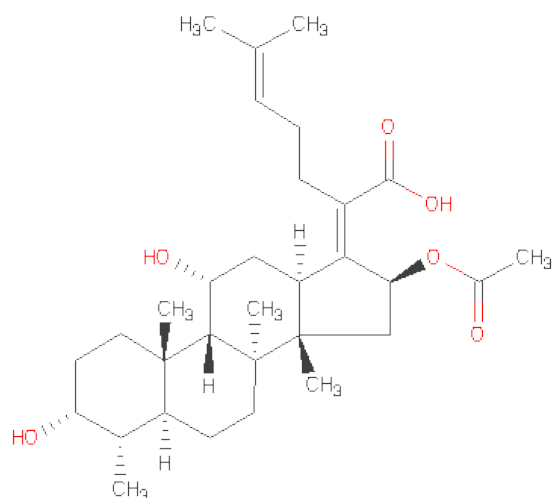
- Molecule 59 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
59	B4	1	Total	Zn	0	0
			1	1		
59	CN	1	Total	Zn	0	0
			1	1		
59	AN	1	Total	Zn	0	0
			1	1		
59	B9	1	Total	Zn	0	0
			1	1		
59	D9	1	Total	Zn	0	0
			1	1		
59	D4	1	Total	Zn	0	0
			1	1		
59	CD	1	Total	Zn	0	0
			1	1		
59	AD	1	Total	Zn	0	0
			1	1		

- Molecule 60 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

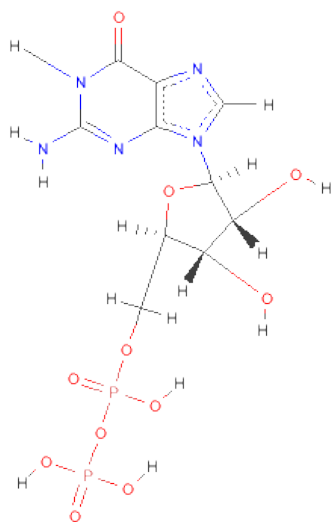
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	AY	1	Total	Mg	0	0
			1	1		
60	CY	1	Total	Mg	0	0
			1	1		

- Molecule 61 is FUSIDIC ACID (three-letter code: FUA) (formula: $C_{31}H_{48}O_6$).



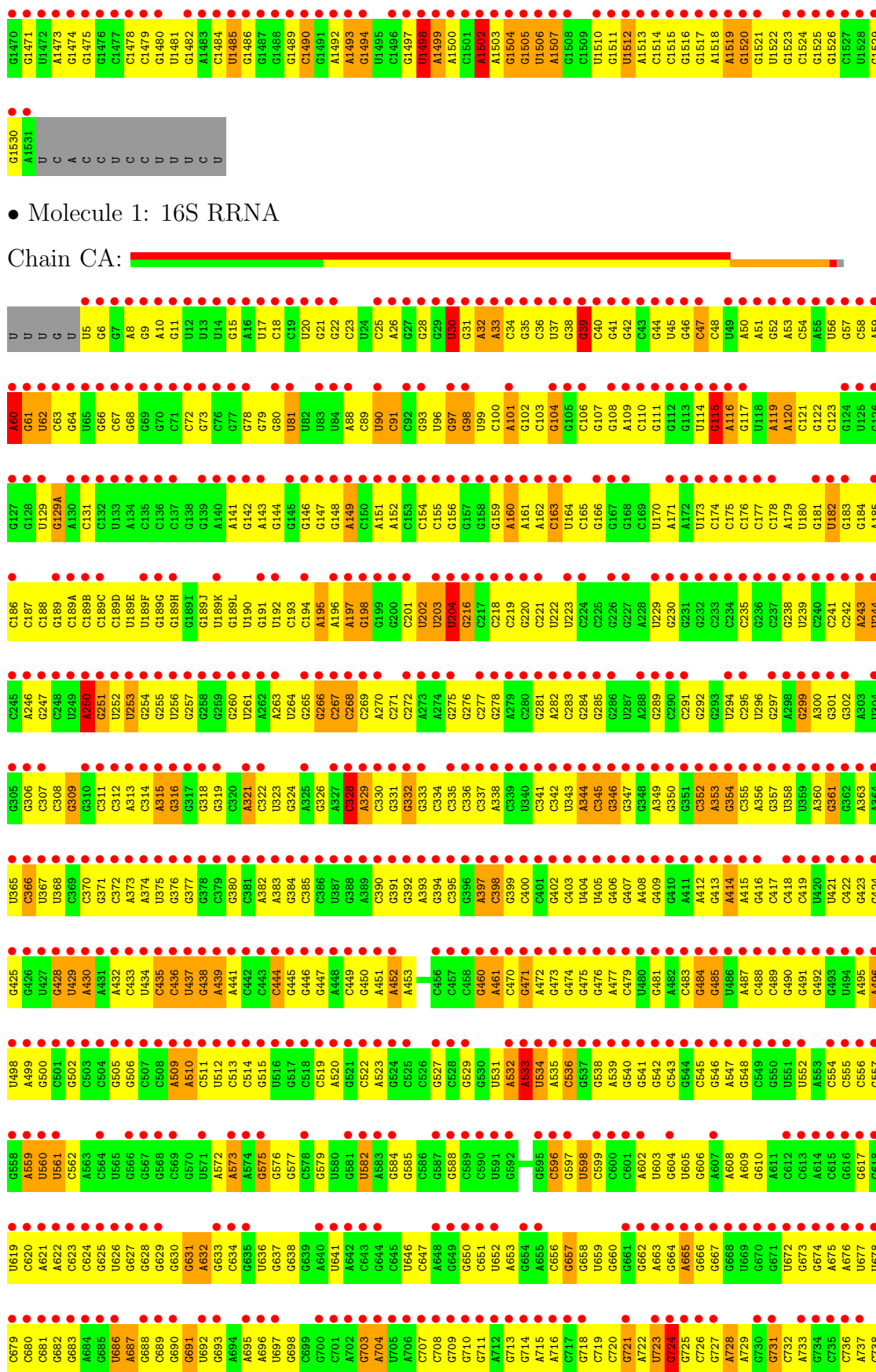
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
61	AY	1	Total	C	O	0	0
			37	31	6		
61	CY	1	Total	C	O	0	0
			37	31	6		

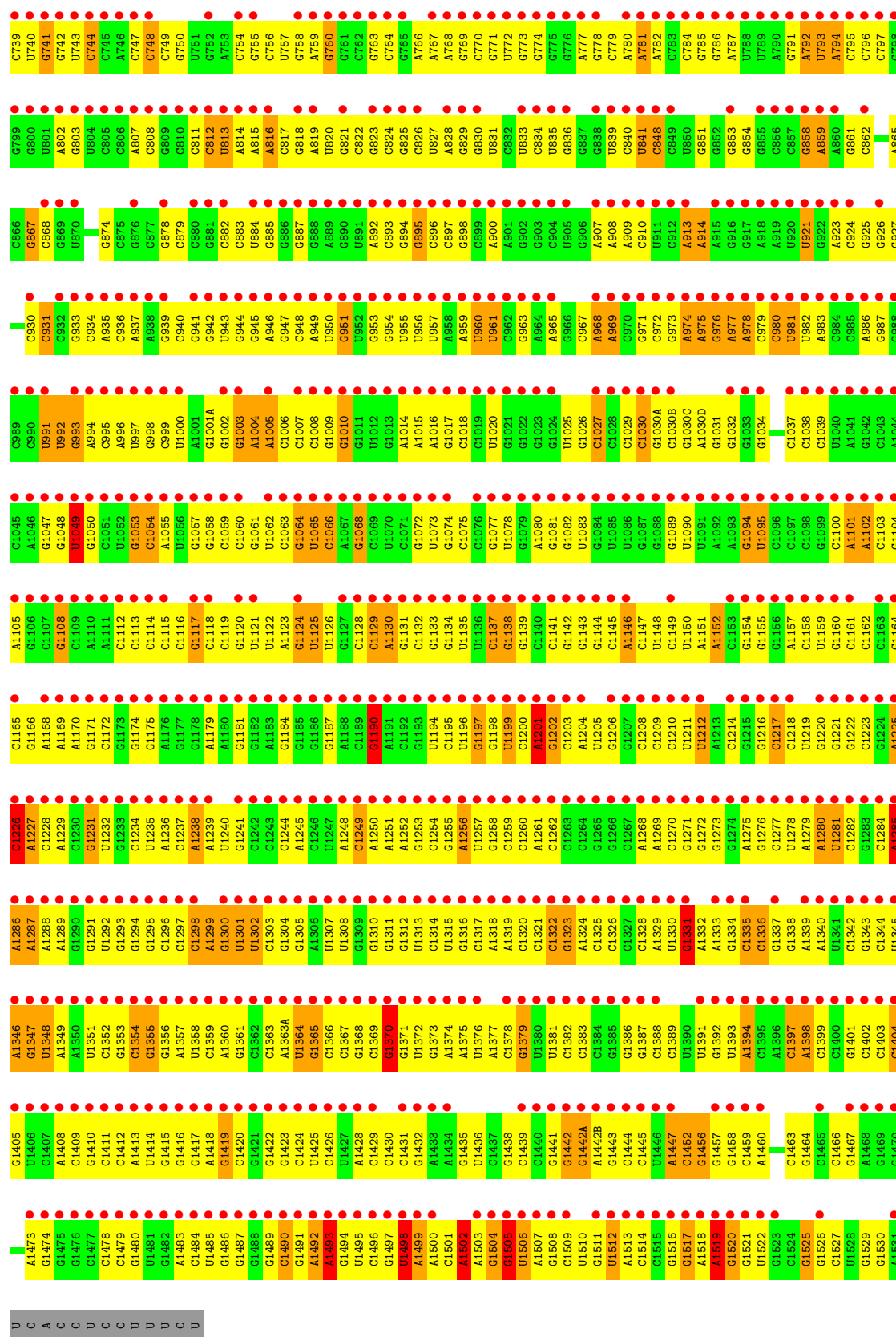
- Molecule 62 is GUANOSINE-5'-DIPHOSPHATE (three-letter code: GDP) (formula: $C_{10}H_{15}N_5O_{11}P_2$).

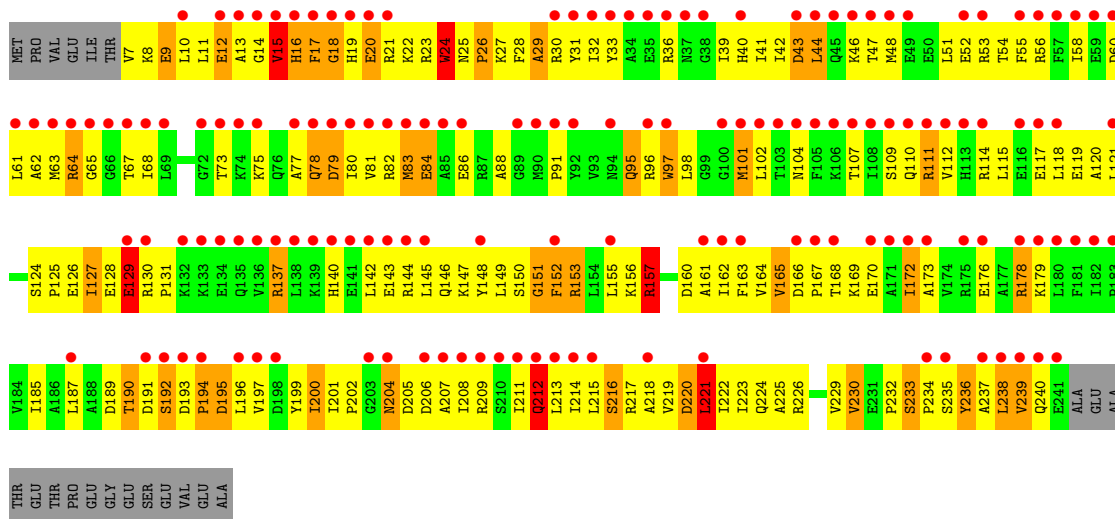


Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
62	AY	1	Total	C	N	O	P	0	0
			28	10	5	11	2		
62	CY	1	Total	C	N	O	P	0	0
			28	10	5	11	2		

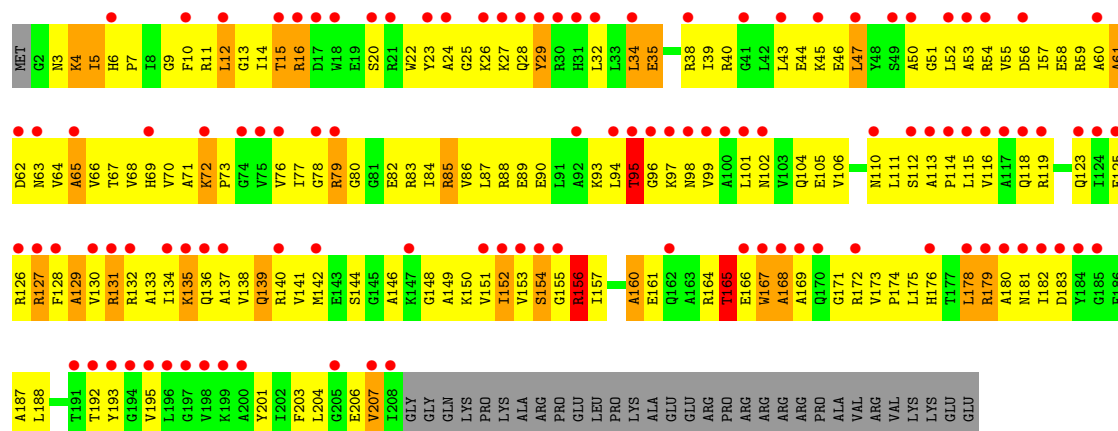
G1405	A1346	C1223	C1162	A1102	G1042	A886	G926	A864	G798	C738	U678	C818
U1406	G1347	G1224	C1163	C1103	C1043	G887	G927	A865	G799	C739	C679	U619
C1407	A1288	A1225	G1164	G1104	C1044	G988	G928	C866	G800	U740	C680	C620
A1408	A1349	C1226	G1165	A1105	C1045	C989	G929	C867	U801	G741	C681	A621
C1409	A1350	C1227	G1166	G1106	C1046	C990	C930	C868	A802	G742	G682	A622
G1410	U1351	A1228	A1168	G1108	G1047	U991	C931	C869	G803	U743	C683	C623
C1411	C1352	C1229	A1169	C1109	U1048	U992	C932	U870	U804	C744	C624	C624
C1412	G1353	G1230	A1170	A1110	G1050	G993	G933	U871	C805	C745	G685	G625
A1413	C1354	G1231	G1171	C1111	C1051	A994	C934	A872	C906	U746	U686	U626
G1414	G1355	U1232	C1172	G1112	U1052	A995	A935	A873	A807	C747	G627	G627
G1415	C1356	G1233	G1173	C1113	G1053	A996	C936	C874	C908	C748	G688	G628
G1416	A1357	C1234	G1174	G1114	G1054	U997	A937	C875	G809	C749	C689	G629
G1417	C1358	U1235	G1175	C1115	A1055	G998	A938	C876	C810	G750	G690	G630
A1418	G1359	A1236	A1176	C1116	U1056	C999	G939	C877	C811	U751	G691	G631
G1419	A1360	C1237	G1177	G1117	C1057	U1000	C940	C878	C812	G752	U692	A632
C1420	G1361	A1238	G1178	C1118	A1058	A1001	G941	C879	G813	G753	G693	G633
G1421	C1362	C1239	A1179	G1119	G1059	G1001A	G942	C880	A814	C754	A694	C634
G1422	C1363	U1240	A1180	C1119	C1060	U1002	U943	C881	A815	G755	A695	G635
A1423	A1363A	G1241	G1181	G1120	C1061	G1003	G944	C882	A816	C756	A696	U636
C1424	U1364	G1242	G1182	U1121	G1062	A1004	G945	C883	C817	U757	U697	G637
G1425	G1365	C1243	A1183	U1122	U1063	A1005	A946	U884	G818	G758	G698	G638
C1426	C1366	A1244	G1184	A1123	C1063	C1006	G947	C885	A819	A759	C699	G639
G1427	C1367	C1245	G1185	G1124	G1064	C1007	C948	C886	U820	G760	G700	A640
A1428	G1368	U1246	G1186	U1125	U1065	C1008	A949	C887	G821	G761	C701	U641
C1429	C1369	U1247	G1187	U1126	C1066	G1009	U950	C888	C822	C762	A702	A642
C1430	G1370	A1248	A1188	G1127	A1067	G1010	C951	A889	G823	G763	G703	C643
C1431	U1371	C1249	A1189	C1128	G1068	U1011	U952	C890	C824	C764	A704	G644
G1432	C1372	A1250	G1190	C1129	C1069	U1012	G953	U891	G825	G765	U705	C645
A1433	G1373	C1251	A1191	G1130	U1070	G1013	U954	A892	C826	A766	A706	U646
A1434	C1374	A1252	C1192	G1131	C1071	A1014	U955	C893	U827	C767	C707	C647
G1435	A1375	G1253	G1193	C1132	G1072	A1015	U956	C894	A828	G768	C708	G648
U1436	C1376	C1254	U1194	G1133	U1073	A1016	U957	C895	G829	G769	G709	G649
C1437	A1377	G1255	C1195	G1134	G1074	G1017	A958	C896	C830	C770	G710	G650
G1438	C1378	A1256	U1196	U1135	C1075	C1018	U959	C897	U831	G771	G711	C651
C1439	G1379	U1257	G1197	U1136	C1076	C1019	U960	C898	U833	U772	A712	U652
G1440	U1380	C1321	U1198	C1137	G1077	U1020	U961	C899	U834	G773	G713	A653
A1441	C1381	G1258	U1199	G1138	U1078	G1021	C962	A900	C834	G774	G714	G654
G1442	C1382	C1259	C1200	G1139	G1079	U1024	G963	A901	U835	G775	A715	A655
A1442A	C1383	A1261	A1201	C1140	A1080	U1025	A964	G902	G836	G776	A716	C656
G1443	G1384	G1262	G1202	C1141	G1081	U1026	A965	G903	G837	A777	C717	G657
C1444	G1385	C1327	C1203	G1142	G1082	C1026	G966	C904	U838	G778	G718	G658
G1445	G1386	G1267	A1204	G1143	U1083	C1027	C967	U905	U839	C779	C719	U659
U1446	C1387	A1268	U1205	G1144	G1084	C1028	A968	G906	C912	A780	G720	G660
C1447	C1388	U1269	G1206	C1145	U1085	C1029	A969	A907	U841	C721	G721	G661
A1447	U1389	A1270	G1207	A1146	U1086	C1030	C970	A908	C848	A782	A722	G662
C1452	G1390	G1271	C1208	C1147	G1087	G1030A	G971	A909	C949	G783	U723	A663
G1456	U1391	C1272	C1209	U1148	G1088	C1030B	C972	C910	U850	C784	G724	G664
A1457	C1392	G1273	C1210	G1149	G1089	A1030C	G973	U911	G851	G785	G725	A665
G1458	U1393	C1274	U1211	U1150	U1090	A1030D	A974	C912	G852	G786	C726	G666
C1459	A1394	A1275	U1212	A1151	U1091	G1031	A975	A913	G853	A787	G727	G667
A1460	C1395	G1276	A1213	A1152	A1092	G1032	C976	A914	G854	U788	A728	G668
G1461	C1396	C1277	C1214	G1153	U1093	G1033	A977	A915	G855	U789	A729	U669
C1462	C1397	U1278	G1215	G1154	G1094	C1034	A978	C916	C856	A790	G730	G670
G1463	A1398	A1279	G1216	G1155	U1095	A1035	C979	G917	G857	G785	G731	G671
A1464	C1399	C1280	C1217	G1156	C1096	G1036	C980	U921	G858	A792	C732	U672
C1465	G1400	U1281	C1218	A1157	C1097	G1037	U981	U921	G859	G793	A733	G673
G1466	G1401	C1342	U1219	C1158	C1098	C1038	U982	G922	A860	A794	G734	G674
C1467	C1402	G1283	G1220	U1159	G1099	C1039	A983	A923	C861	C795	G735	A675
A1468	C1403	A1285	G1221	U1160	C1100	U1040	C984	C924	C862	C796	C736	A676
G1469	C1404		G1222	C1161	A1101	A1041	C985	G925	U863	C797	A737	U677





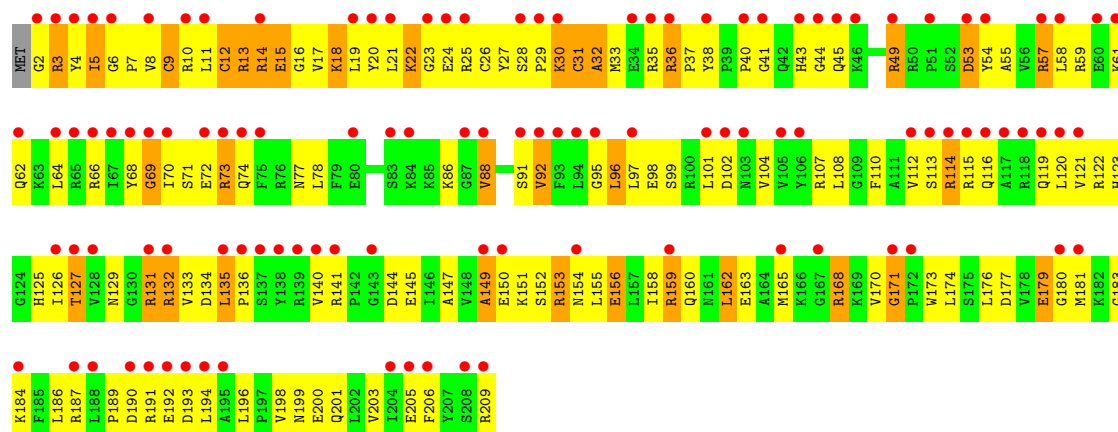


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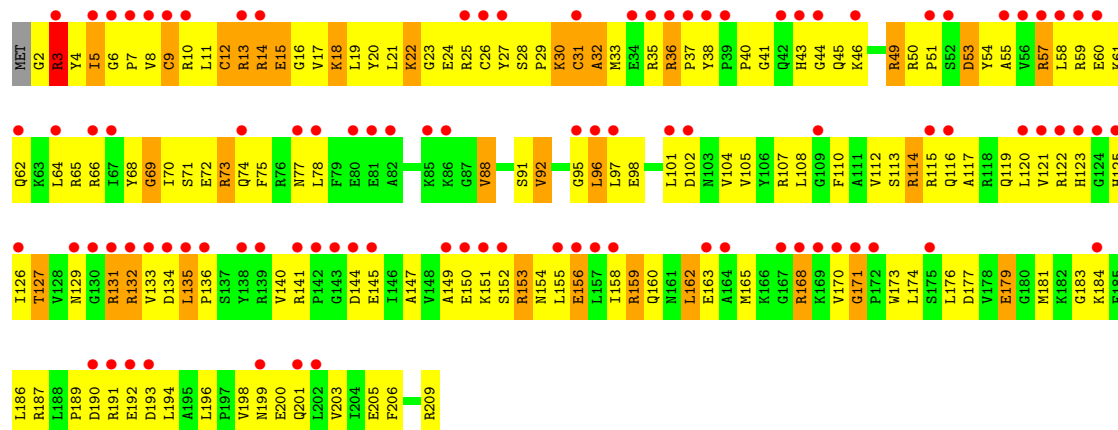
• Molecule 4: 30S RIBOSOMAL PROTEIN S4

Chain AD: 



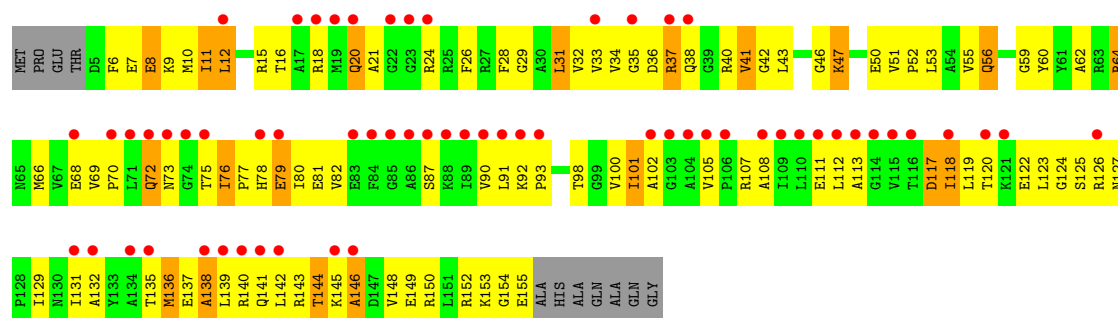
- Molecule 4: 30S RIBOSOMAL PROTEIN S4

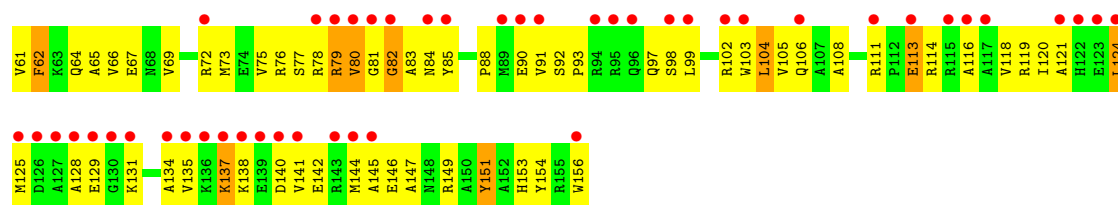
Chain CD:



- Molecule 5: 30S RIBOSOMAL PROTEIN S5

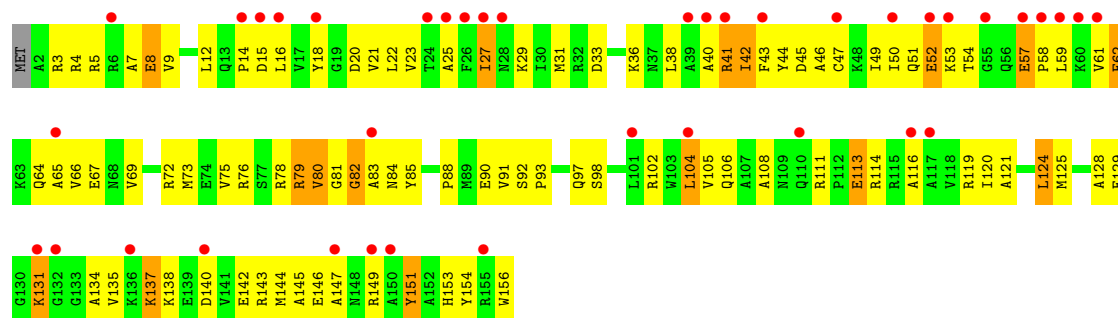
Chain AE:





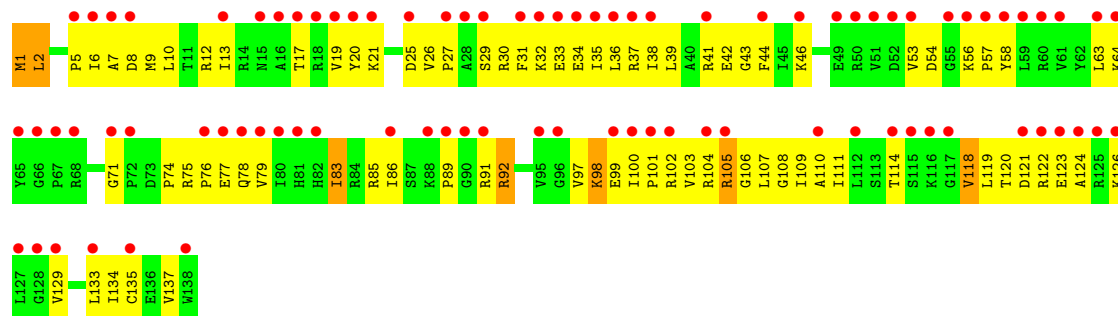
• Molecule 7: 30S RIBOSOMAL PROTEIN S7

Chain CG:



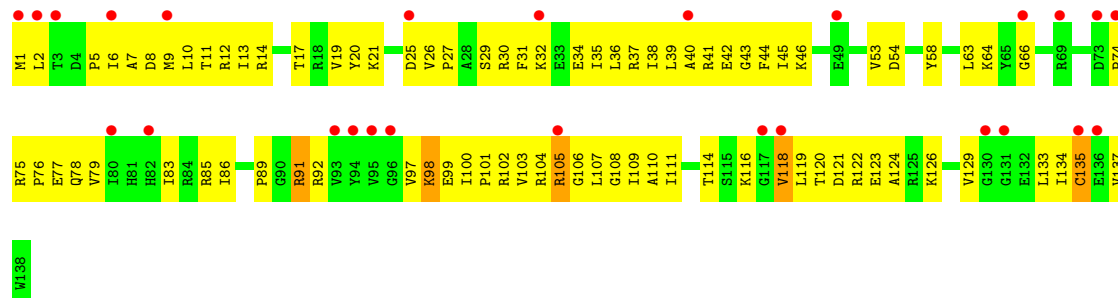
• Molecule 8: 30S RIBOSOMAL PROTEIN S8

Chain AH:



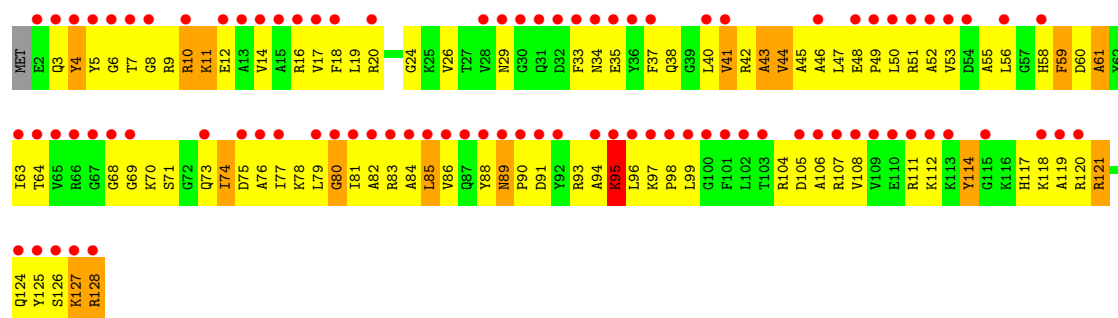
• Molecule 8: 30S RIBOSOMAL PROTEIN S8

Chain CH:



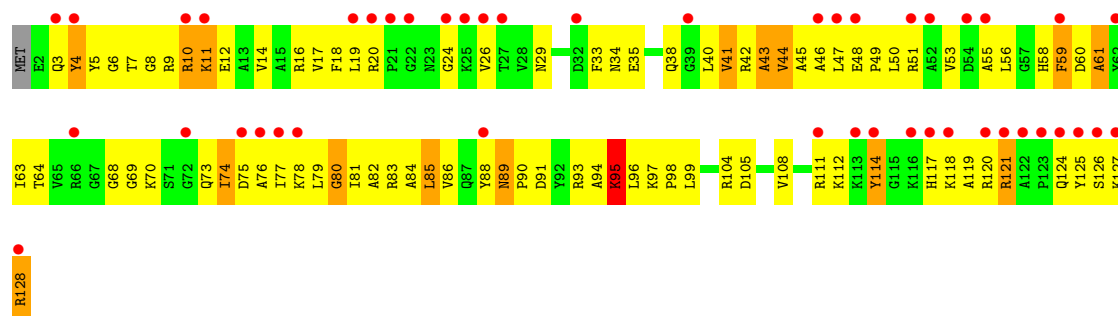
• Molecule 9: 30S RIBOSOMAL PROTEIN S9

Chain AI:



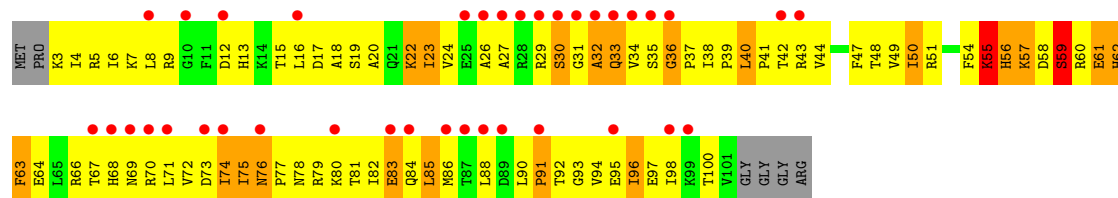
• Molecule 9: 30S RIBOSOMAL PROTEIN S9

Chain CI:



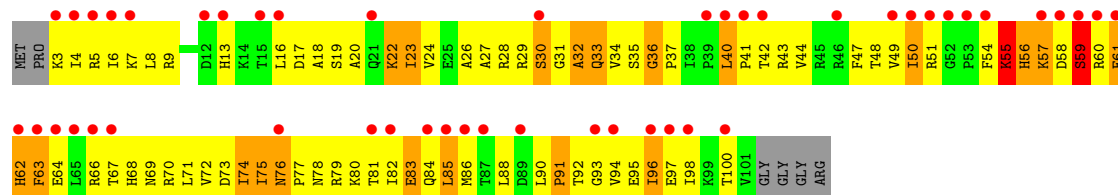
• Molecule 10: 30S RIBOSOMAL PROTEIN S10

Chain AJ:



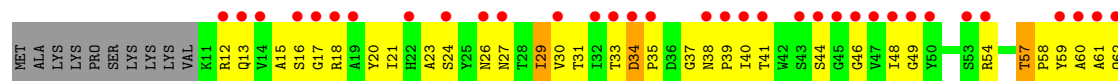
• Molecule 10: 30S RIBOSOMAL PROTEIN S10

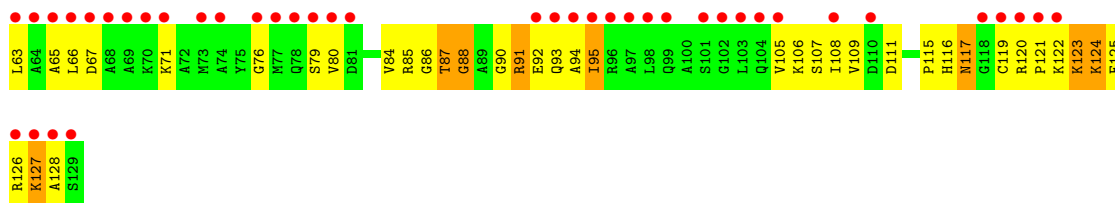
Chain CJ:



• Molecule 11: 30S RIBOSOMAL PROTEIN S11

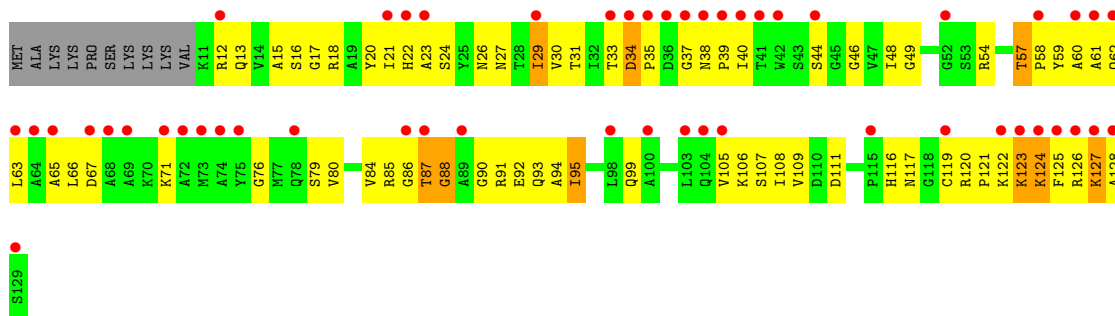
Chain AK:





• Molecule 11: 30S RIBOSOMAL PROTEIN S11

Chain CK:



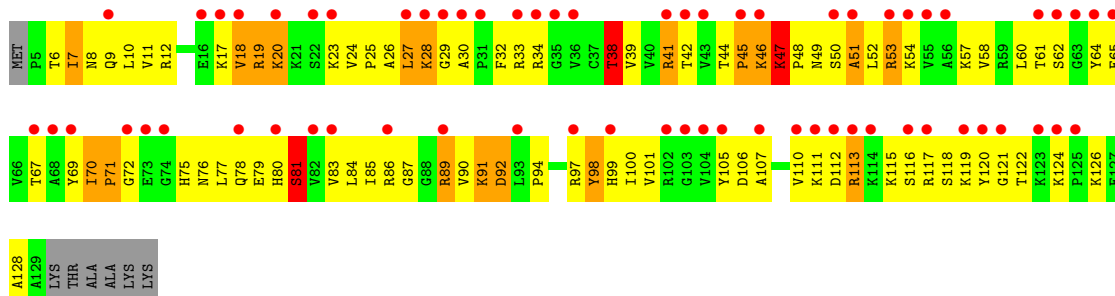
• Molecule 12: 30S RIBOSOMAL PROTEIN S12

Chain AL:



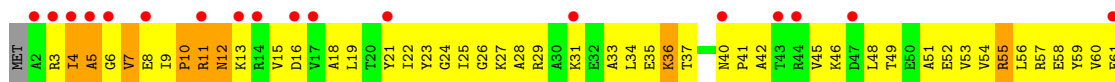
• Molecule 12: 30S RIBOSOMAL PROTEIN S12

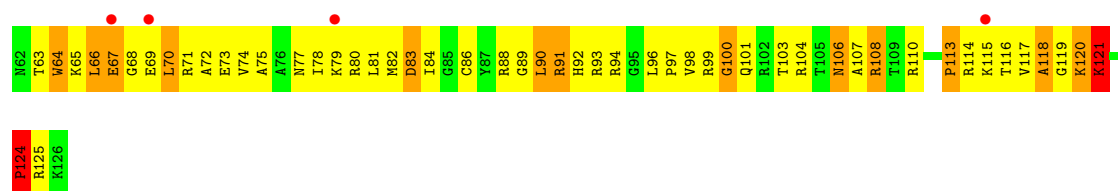
Chain CL:



• Molecule 13: 30S RIBOSOMAL PROTEIN S13

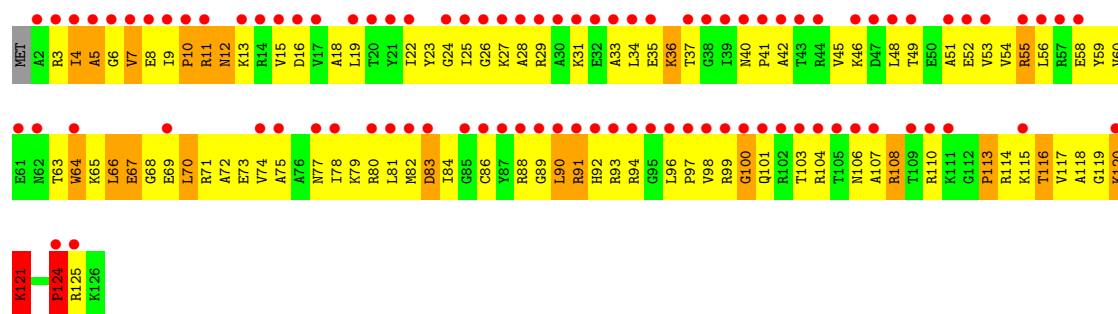
Chain AM:





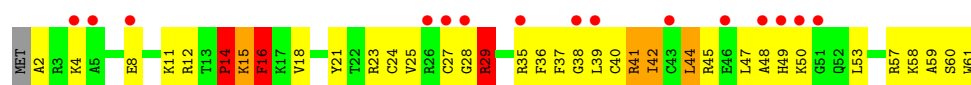
• Molecule 13: 30S RIBOSOMAL PROTEIN S13

Chain CM:



• Molecule 14: 30S RIBOSOMAL PROTEIN S14 TYPE Z

Chain AN:



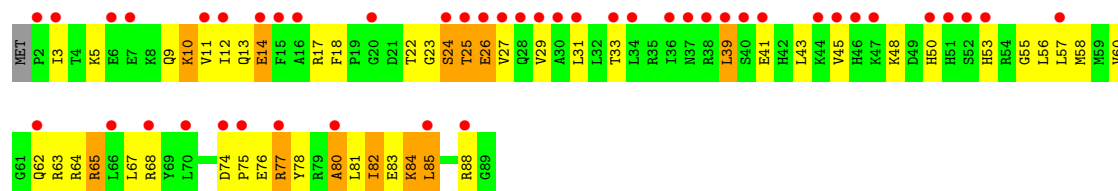
• Molecule 14: 30S RIBOSOMAL PROTEIN S14 TYPE Z

Chain CN:



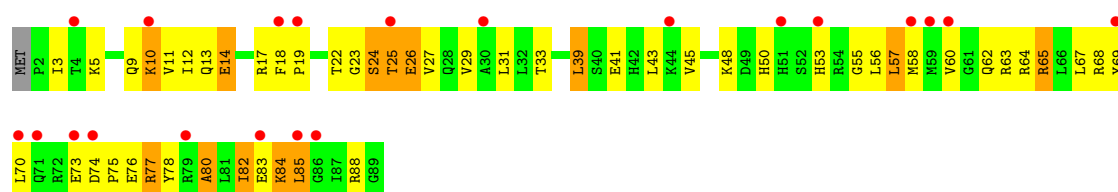
• Molecule 15: 30S RIBOSOMAL PROTEIN S15

Chain AO:



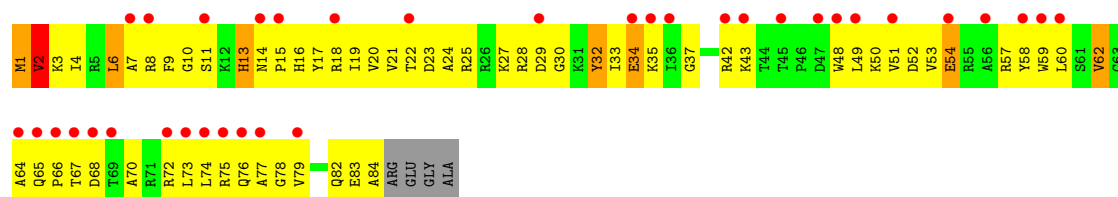
• Molecule 15: 30S RIBOSOMAL PROTEIN S15

Chain CO:



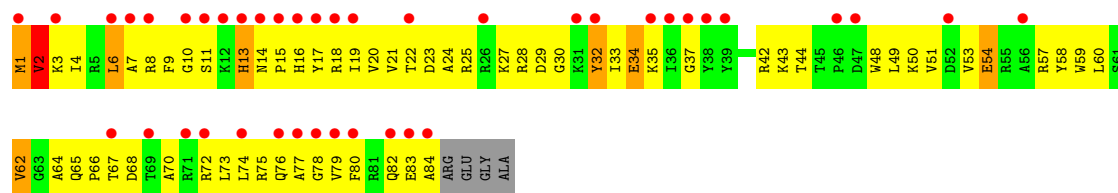
- Molecule 16: 30S RIBOSOMAL PROTEIN S16

Chain AP:



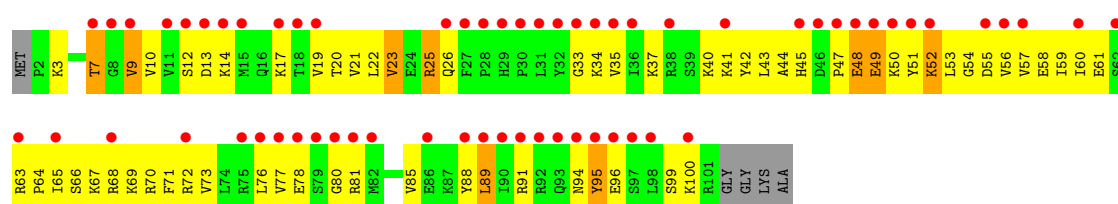
- Molecule 16: 30S RIBOSOMAL PROTEIN S16

Chain CP:



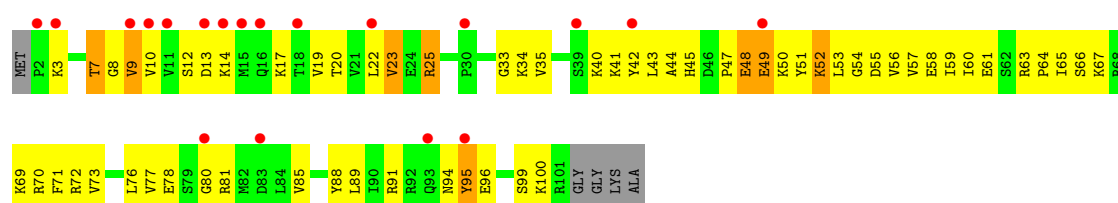
- Molecule 17: 30S RIBOSOMAL PROTEIN S17

Chain AQ:



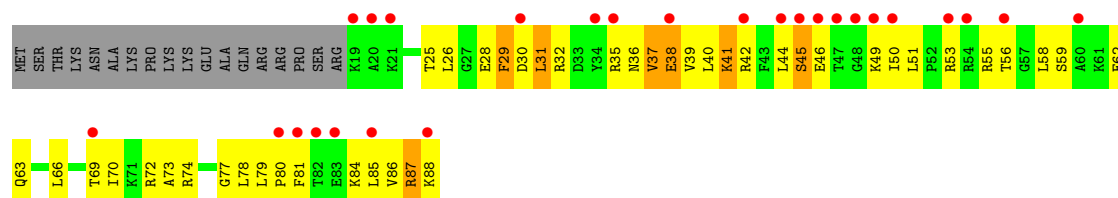
- Molecule 17: 30S RIBOSOMAL PROTEIN S17

Chain CQ:



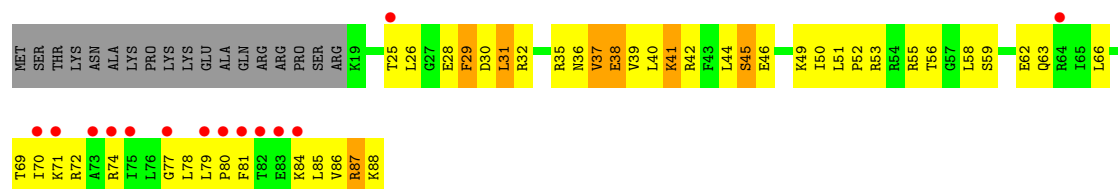
- Molecule 18: 30S RIBOSOMAL PROTEIN S18

Chain AR:



- Molecule 18: 30S RIBOSOMAL PROTEIN S18

Chain CR:



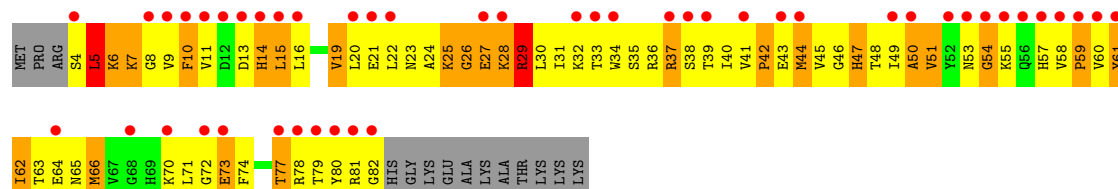
- Molecule 19: 30S RIBOSOMAL PROTEIN S19

Chain AS:



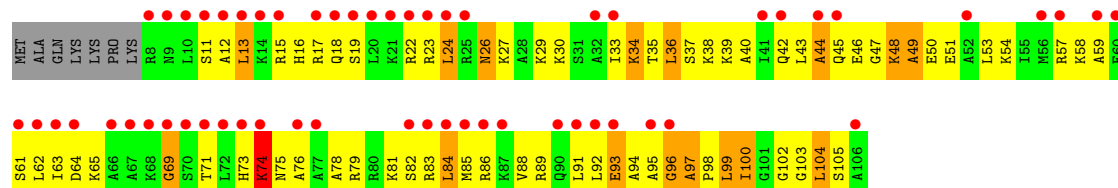
- Molecule 19: 30S RIBOSOMAL PROTEIN S19

Chain CS:



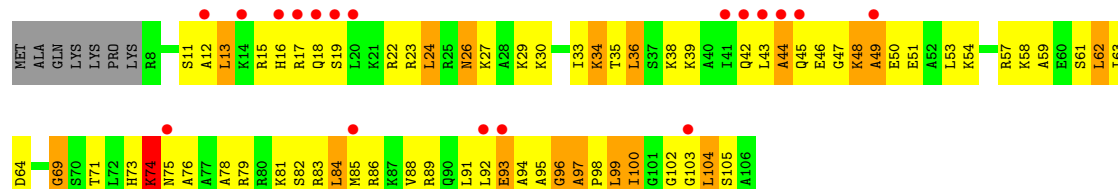
- Molecule 20: 30S RIBOSOMAL PROTEIN S20

Chain AT:



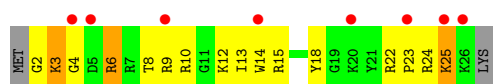
- Molecule 20: 30S RIBOSOMAL PROTEIN S20

Chain CT:



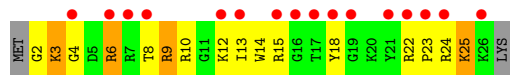
- Molecule 21: 30S RIBOSOMAL PROTEIN THX

Chain AU:



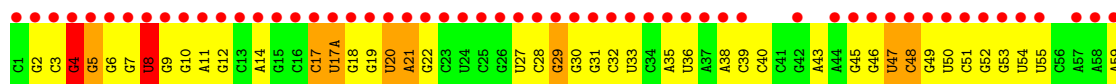
- Molecule 21: 30S RIBOSOMAL PROTEIN THX

Chain CU:



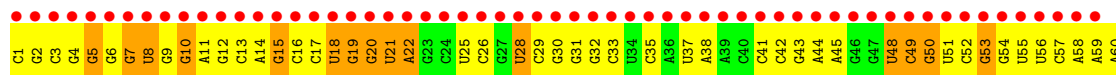
- Molecule 22: E-SITE TRNA FMET OR P-SITE TRNA FMET (UNMODIFIED BASES EXCEPT FOR THYMINE 54)

Chain AV:



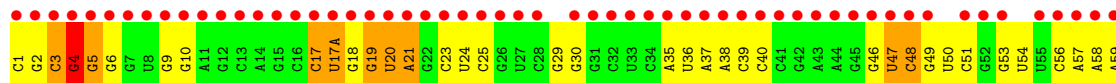
- Molecule 22: E-SITE TRNA FMET OR P-SITE TRNA FMET (UNMODIFIED BASES EXCEPT FOR THYMINE 54)

Chain AW:



- Molecule 22: E-SITE TRNA FMET OR P-SITE TRNA FMET (UNMODIFIED BASES EXCEPT FOR THYMINE 54)

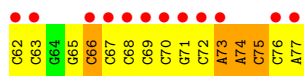
Chain CV:



- Molecule 22: E-SITE TRNA FMET OR P-SITE TRNA FMET (UNMODIFIED BASES EXCEPT FOR THYMINE 54)

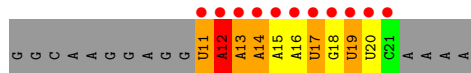
Chain CW:





- Molecule 23: mRNA

Chain AX:



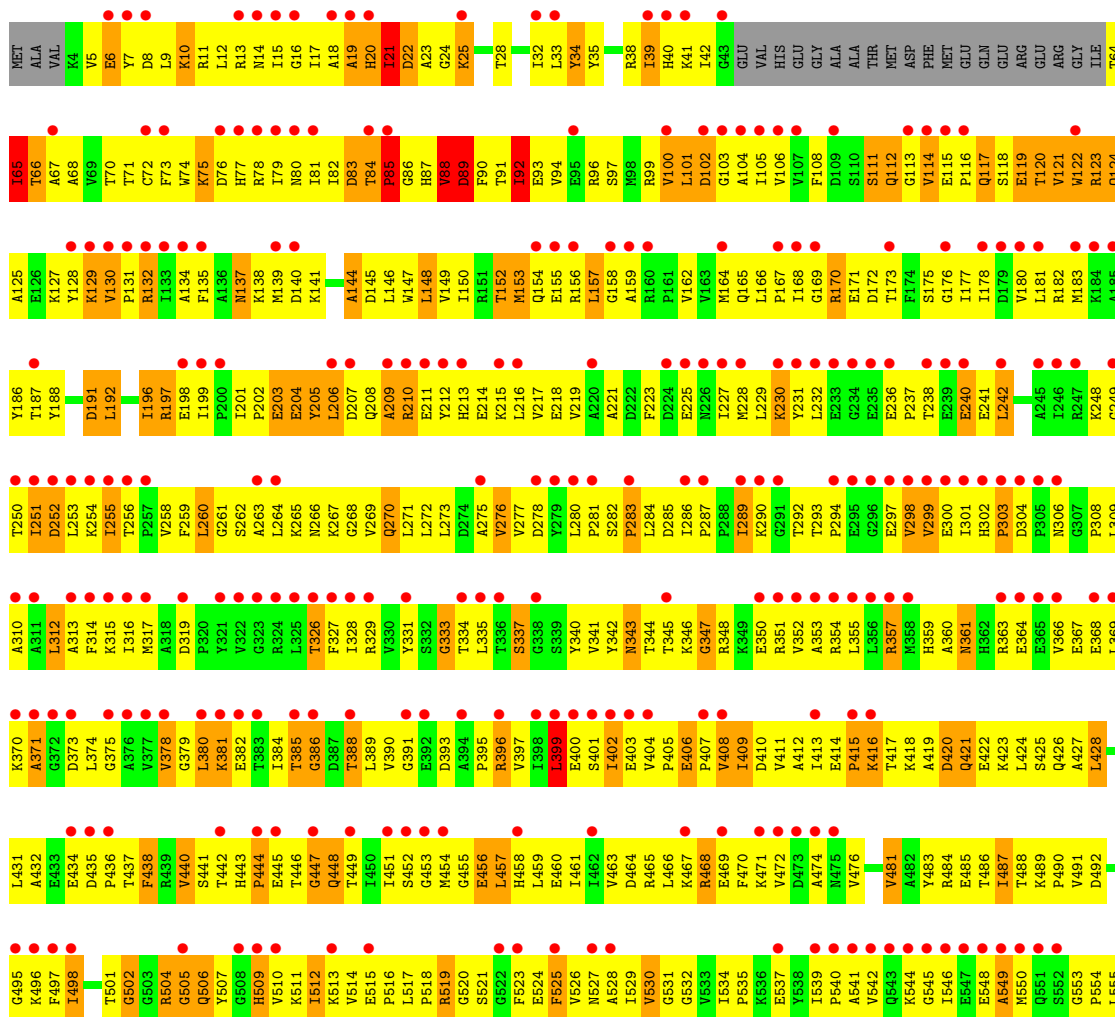
- Molecule 23: mRNA

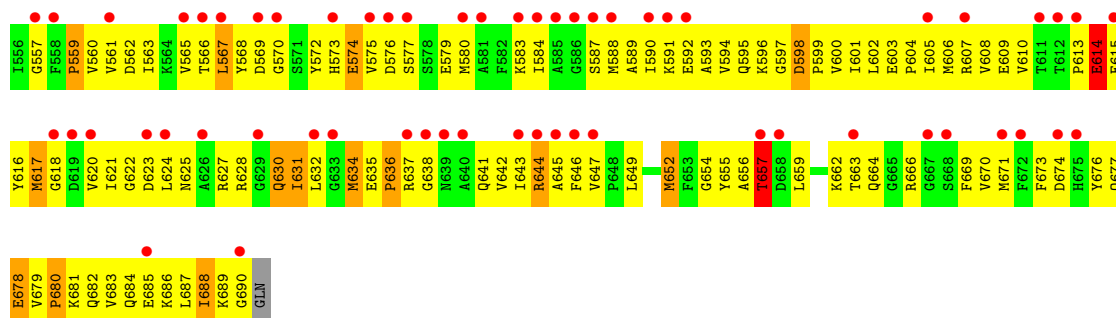
Chain CX:



• Molecule 24: ELONGATION FACTOR G

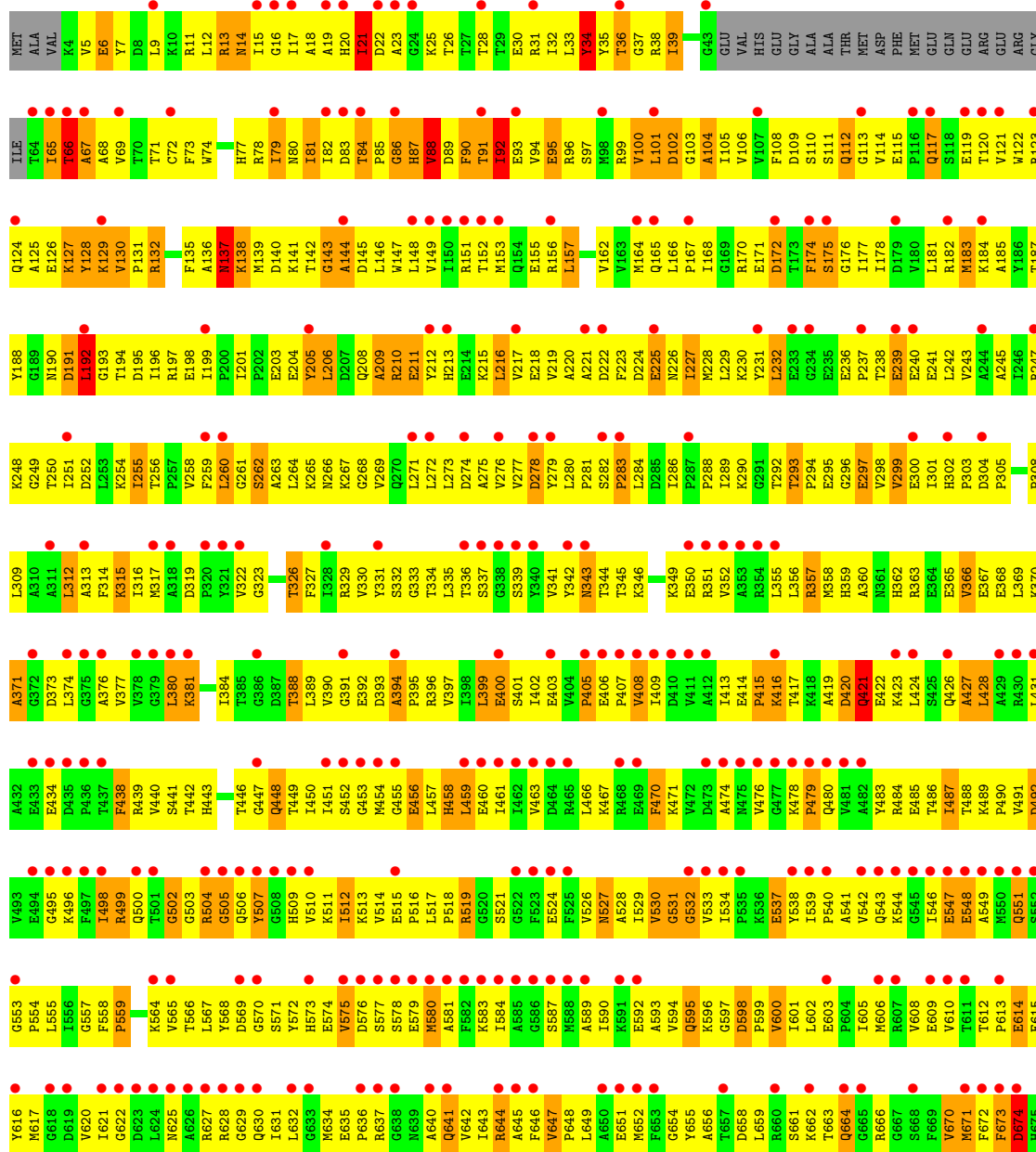
Chain AY:

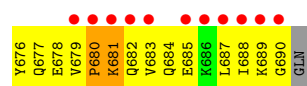




● Molecule 24: ELONGATION FACTOR G

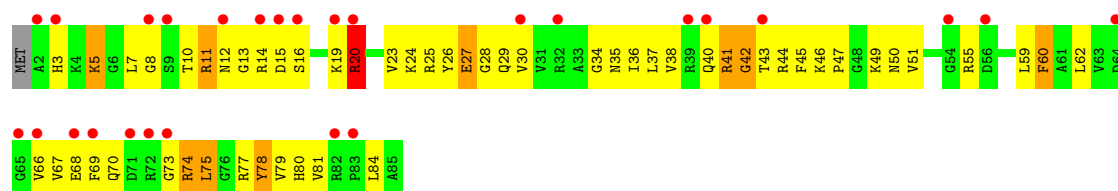
Chain CY:





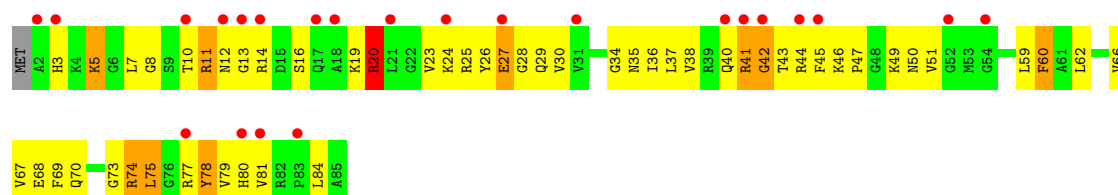
• Molecule 25: 50S RIBOSOMAL PROTEIN L27

Chain B0:



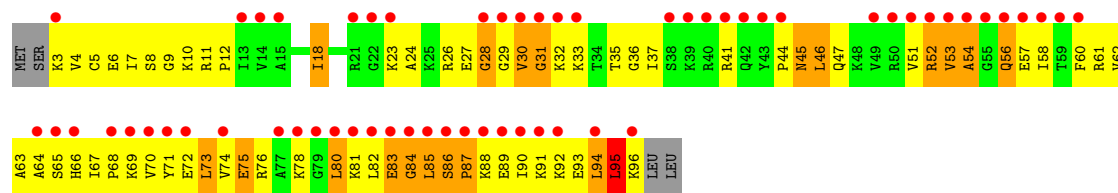
• Molecule 25: 50S RIBOSOMAL PROTEIN L27

Chain D0:



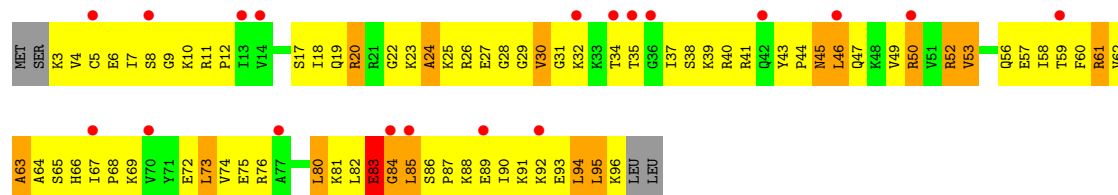
• Molecule 26: 50S RIBOSOMAL PROTEIN L28

Chain B1:



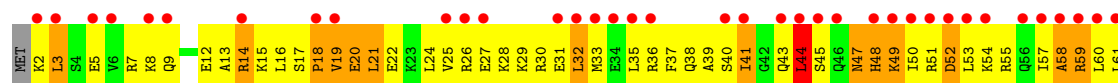
• Molecule 26: 50S RIBOSOMAL PROTEIN L28

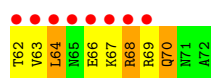
Chain D1:



• Molecule 27: 50S RIBOSOMAL PROTEIN L29

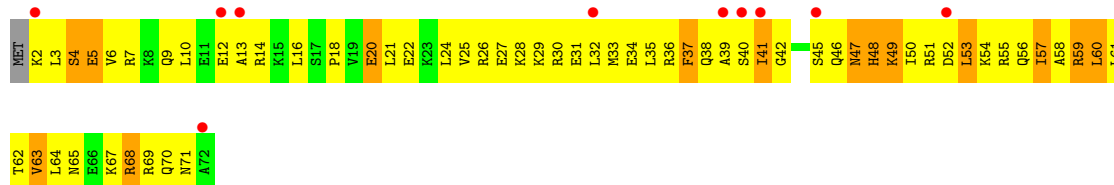
Chain B2:





• Molecule 27: 50S RIBOSOMAL PROTEIN L29

Chain D2:



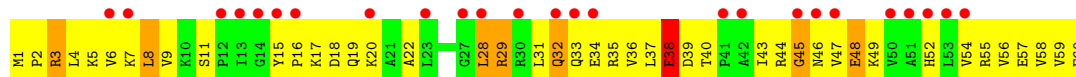
• Molecule 28: 50S RIBOSOMAL PROTEIN L30

Chain B3:



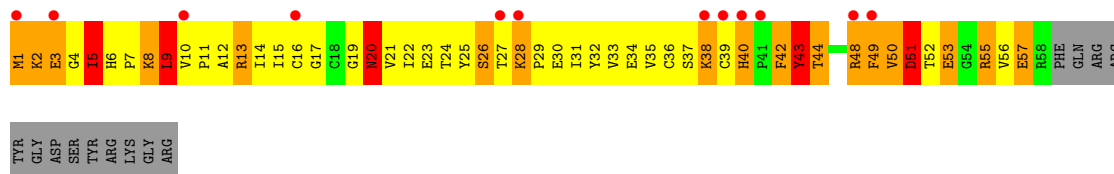
• Molecule 28: 50S RIBOSOMAL PROTEIN L30

Chain D3:



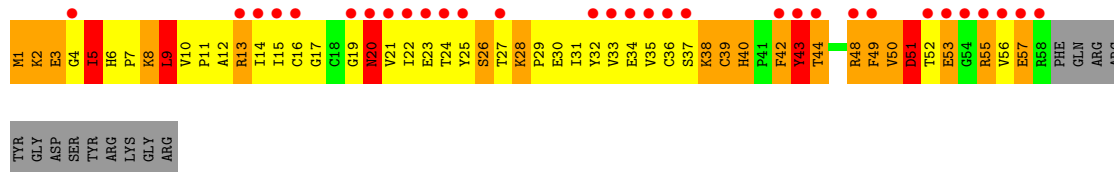
• Molecule 29: 50S RIBOSOMAL PROTEIN L31

Chain B4:



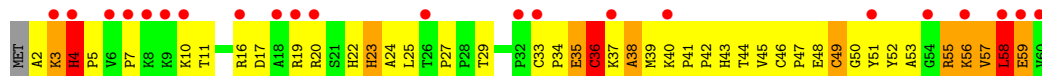
• Molecule 29: 50S RIBOSOMAL PROTEIN L31

Chain D4:



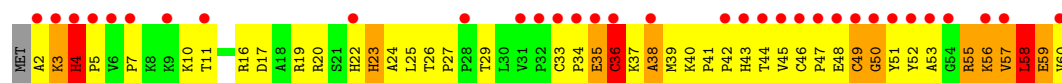
• Molecule 30: 50S RIBOSOMAL PROTEIN L32

Chain B5:



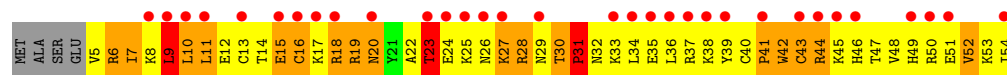
- Molecule 30: 50S RIBOSOMAL PROTEIN L32

Chain D5:



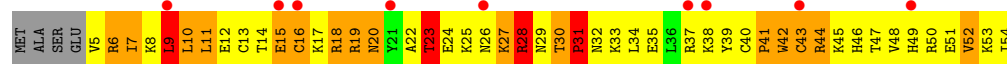
- Molecule 31: 50S RIBOSOMAL PROTEIN L33

Chain B6:



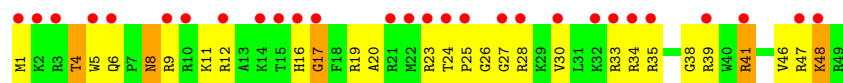
- Molecule 31: 50S RIBOSOMAL PROTEIN L33

Chain D6:



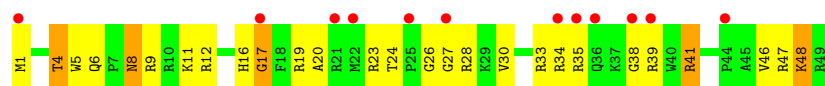
- Molecule 32: 50S RIBOSOMAL PROTEIN L34

Chain B7:



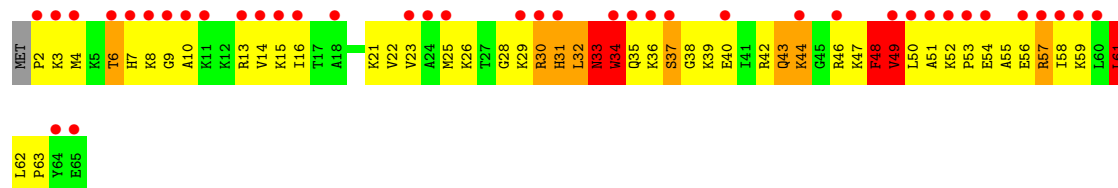
- Molecule 32: 50S RIBOSOMAL PROTEIN L34

Chain D7:



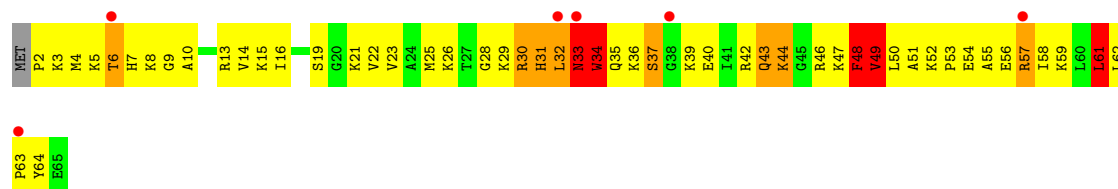
- Molecule 33: 50S RIBOSOMAL PROTEIN L35

Chain B8:

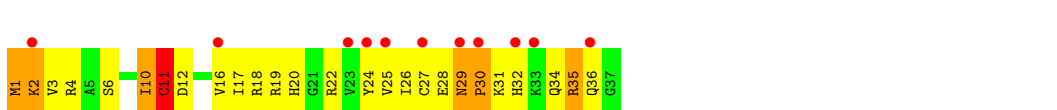


- Molecule 33: 50S RIBOSOMAL PROTEIN L35

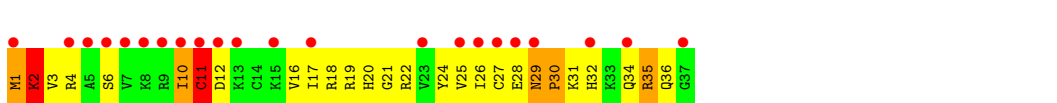
Chain D8:



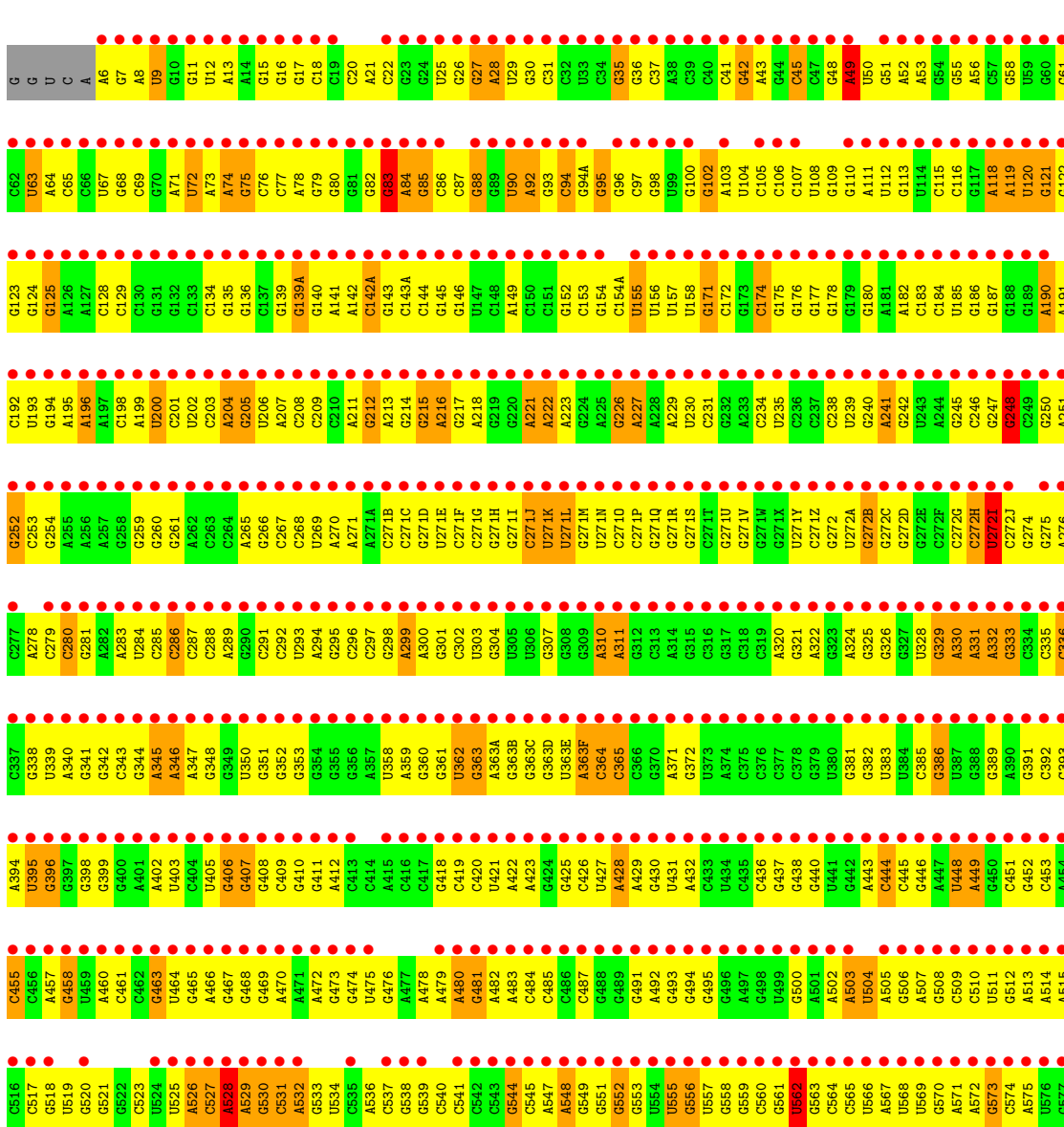
Chain B9:



Chain D9:



Chain BA:



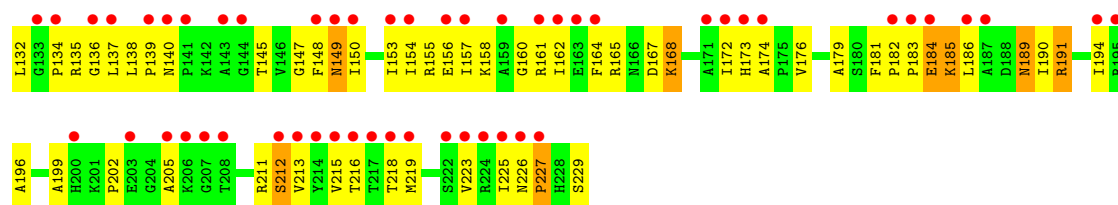
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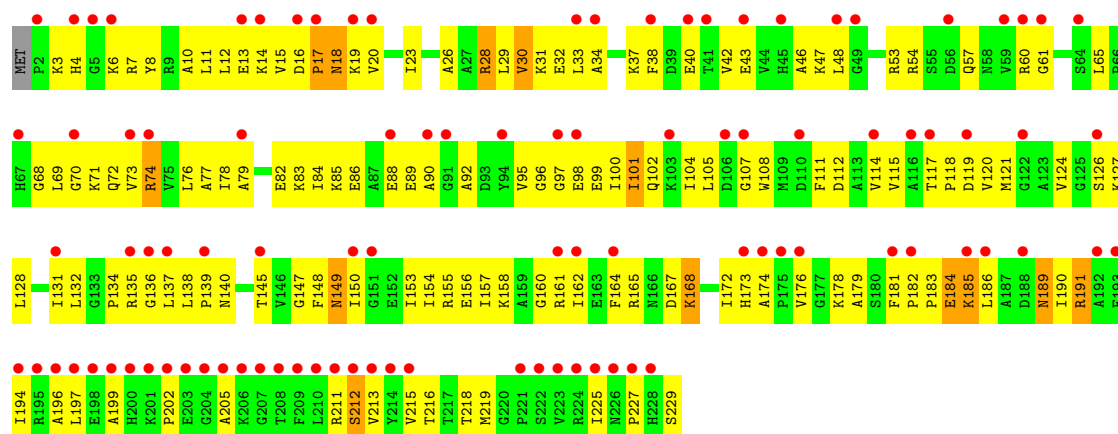
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G1826	U1766	G1688	U1629	A1567	A1508	G1447	G1388	G1326	G1266	G1206	A1142A	U1082	G1022
G1827	C1767	A1689	G1630	G1568	C1509	G1448	G1389	C1327	U1267	G1207	A1143	U1083	U1023
G1828	U1768	A1690	G1631	A1569	A1509A	A1449	U1390	G1328	A1268	G1209	G1144	A1084	G1024
A1829	G1769	C1891	A1631A	A1570	A1509B	G1450	U1391	U1329	A1269	A1210	C1145	A1085	G1025
C1830	G1770	U1692	A1632	A1571	G1510	C1450A	A1392	C1330	C1270	U1211	C1146	A1086	U1026
G1831	C1771	U1693	G1633	A1572	C1511	C1451	A1393	A1331	G1271	U1212	C1147	G1087	A1027
C1832	G1772	C1694	A1634	G1573	U1512	A1452	U1394	G1332	A1272	A1213	G1148	A1088	A1028
G1833	A1773	G1695	G1635	C1574	C1513	U1453	A1395	C1333	A1273	G1214	U1090	G1089	A1029
A1834	C1774	G1696	C1636	C1575	U1514	G1455	U1396	G1334	A1274	G1215	C1150	G1091	G1030
G1835	U1775	G1697	A1637	U1576	C1515	G1456	U1397	U1335	A1275	C1216	G1151	G1092	C1031
C1836	G1776	C1698	C1638	C1577	G1516	A1457	C1398	A1336	A1276	C1217	C1152	C1092	A1032
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G1839	U1779	A1701	A1641	A1580	G1519	A1460	G1401	G1339	G1279	A1220	A1155	A1095	U1035
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U1841	G1781	G1703	G1643	C1582	U1523	C1462	G1403	U1341	G1281	C1221A	G1157	U1097	G1037
G1842	C1782	G1704	C1644	A1583	G1524	C1463	C1404	A1342	U1282	C1222	C1158	A1098	C1038
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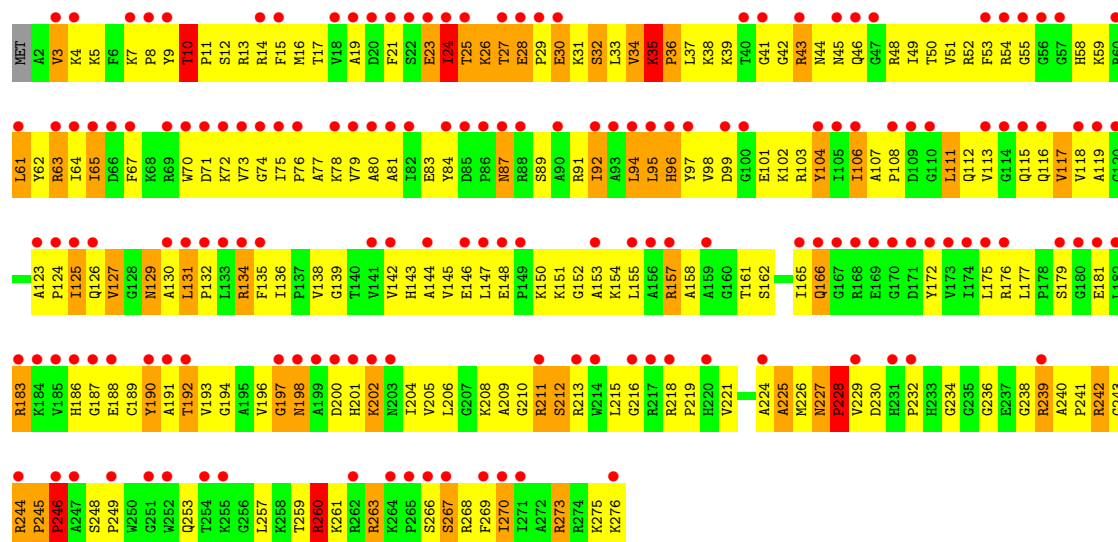
• Molecule 37: 50S RIBOSOMAL PROTEIN L1

Chain DC:



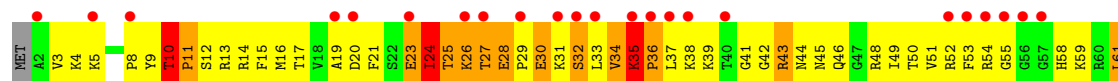
• Molecule 38: 50S RIBOSOMAL PROTEIN L2

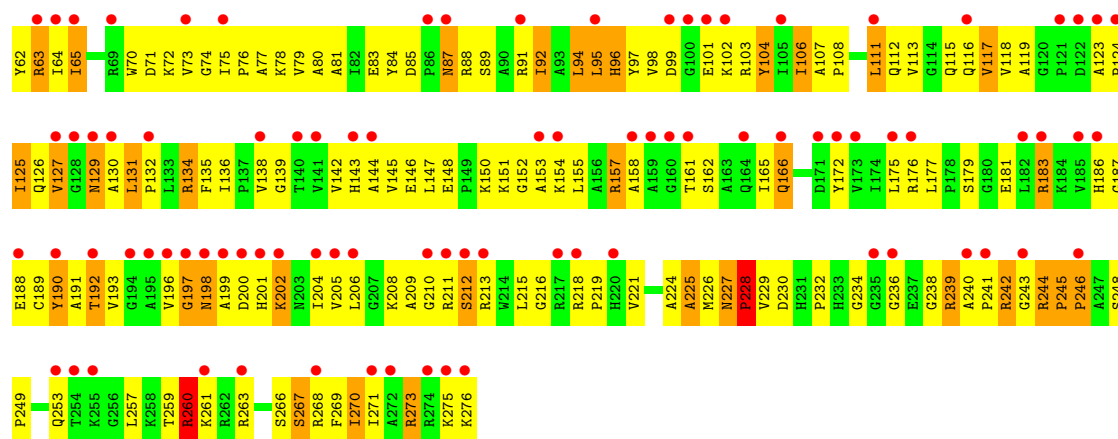
Chain BD:



• Molecule 38: 50S RIBOSOMAL PROTEIN L2

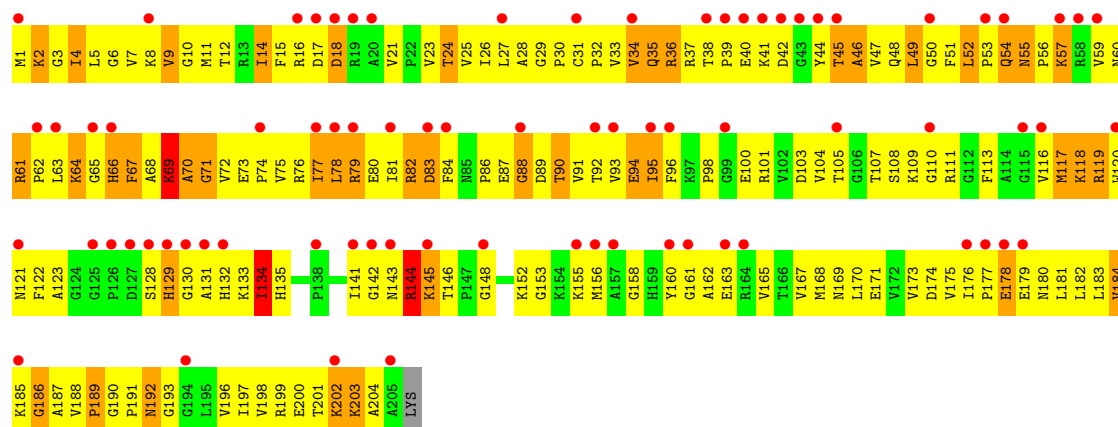
Chain DD:





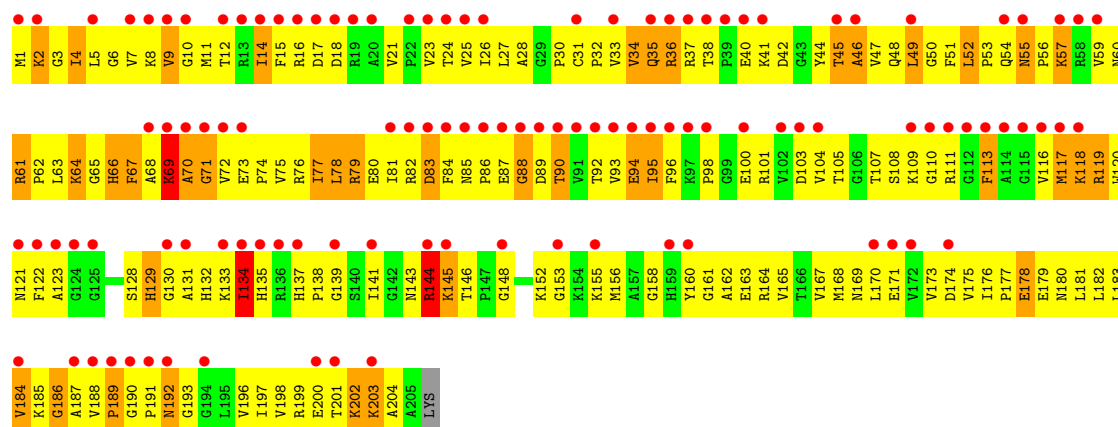
• Molecule 39: 50S RIBOSOMAL PROTEIN L3

Chain BE:



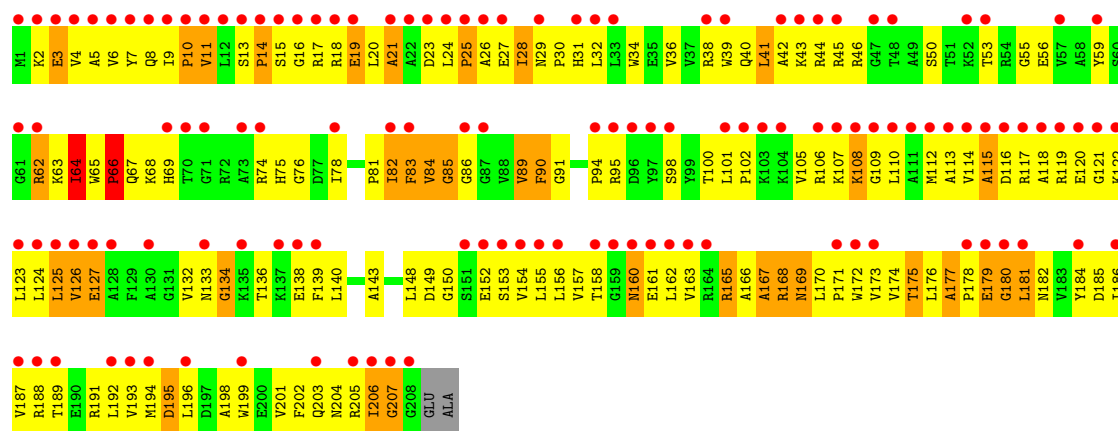
• Molecule 39: 50S RIBOSOMAL PROTEIN L3

Chain DE:



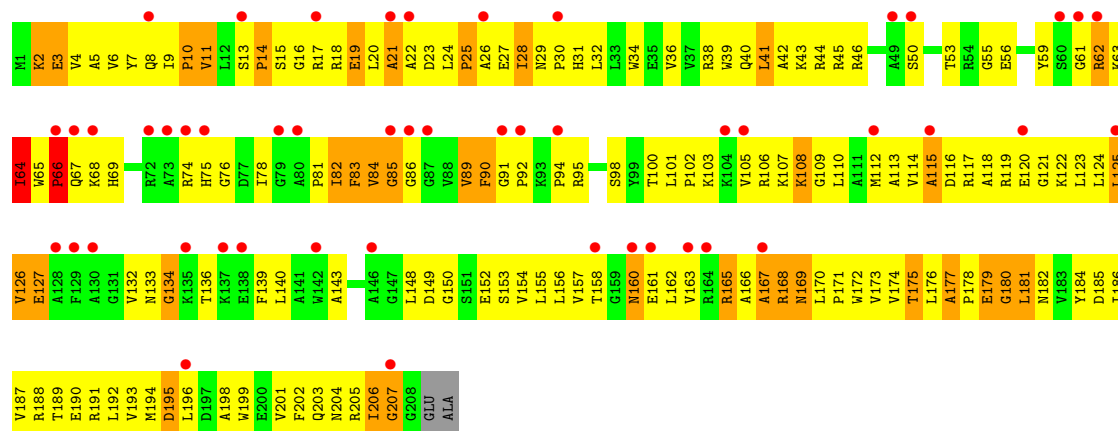
• Molecule 40: 50S RIBOSOMAL PROTEIN L4

Chain BF:



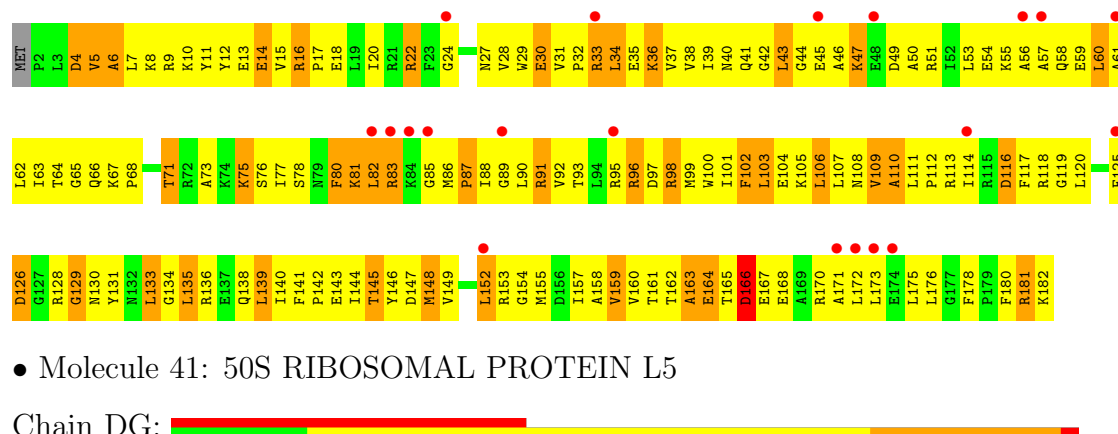
• Molecule 40: 50S RIBOSOMAL PROTEIN L4

Chain DF:



• Molecule 41: 50S RIBOSOMAL PROTEIN L5

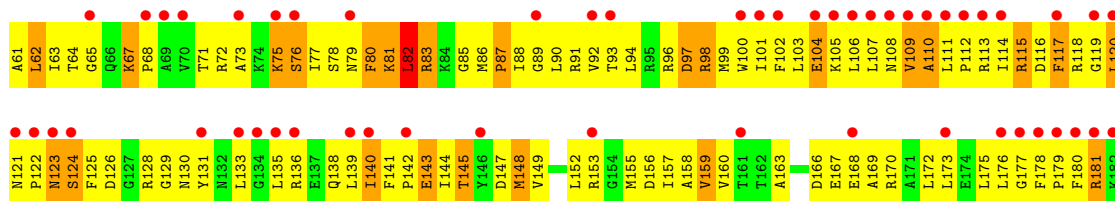
Chain BG:



• Molecule 41: 50S RIBOSOMAL PROTEIN L5

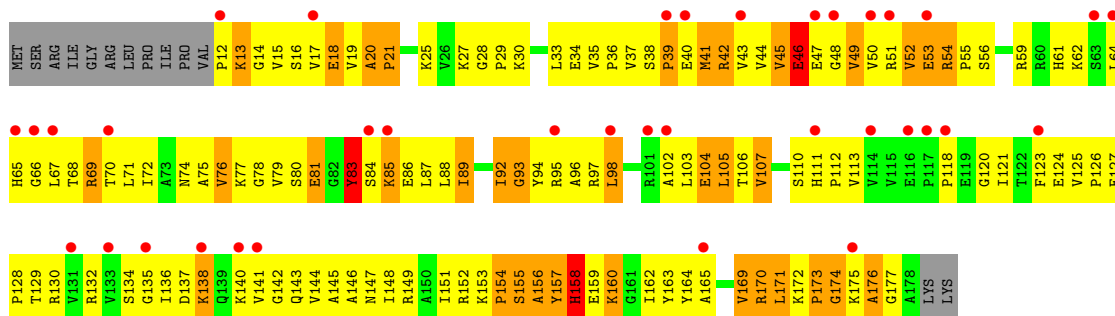
Chain DG:





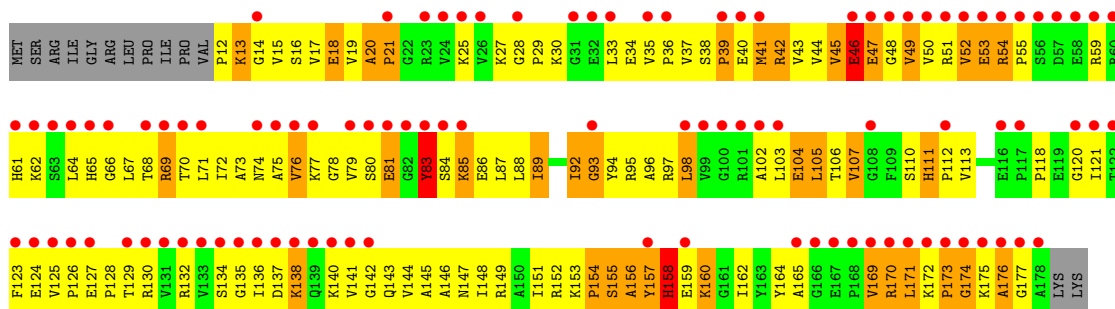
• Molecule 42: 50S RIBOSOMAL PROTEIN L6

Chain BH:



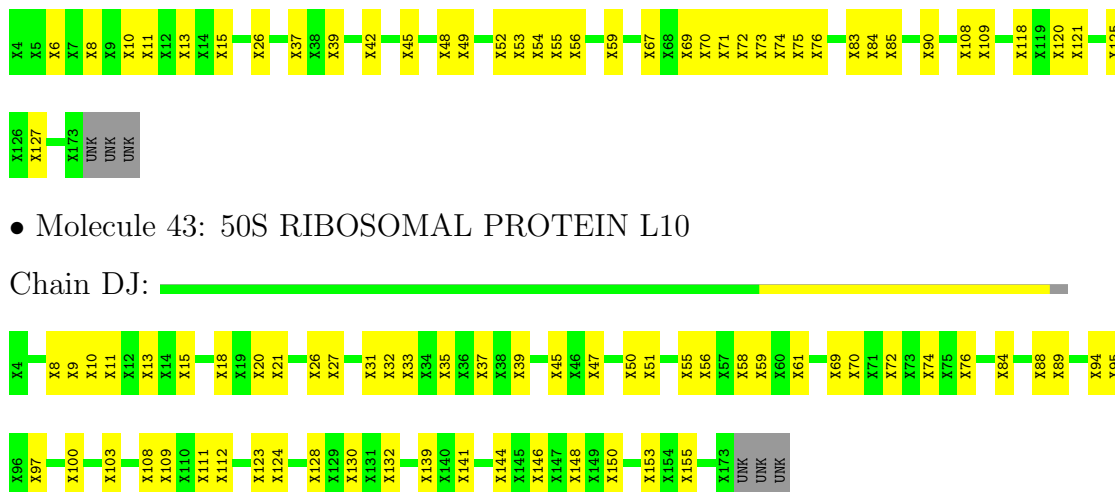
• Molecule 42: 50S RIBOSOMAL PROTEIN L6

Chain DH:



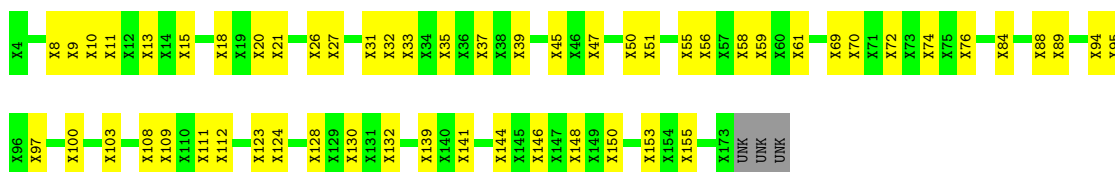
• Molecule 43: 50S RIBOSOMAL PROTEIN L10

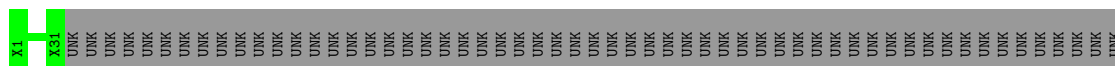
Chain BJ:



• Molecule 43: 50S RIBOSOMAL PROTEIN L10

Chain DJ:

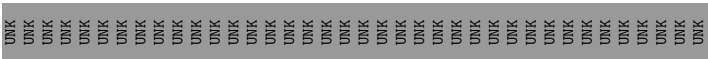






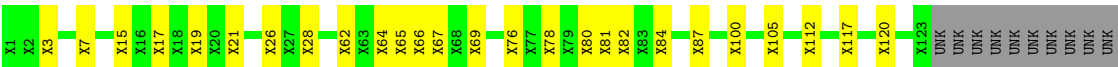
• Molecule 45: 50S RIBOSOMAL PROTEIN L12

Chain Bm:



• Molecule 45: 50S RIBOSOMAL PROTEIN L12

Chain DL:



• Molecule 45: 50S RIBOSOMAL PROTEIN L12

Chain DM:



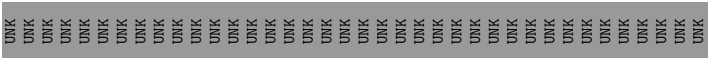
• Molecule 45: 50S RIBOSOMAL PROTEIN L12

Chain Dl:



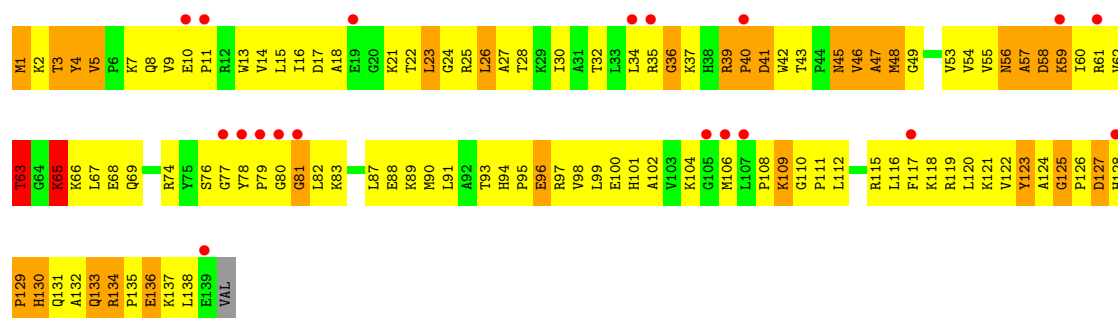
• Molecule 45: 50S RIBOSOMAL PROTEIN L12

Chain Dm:



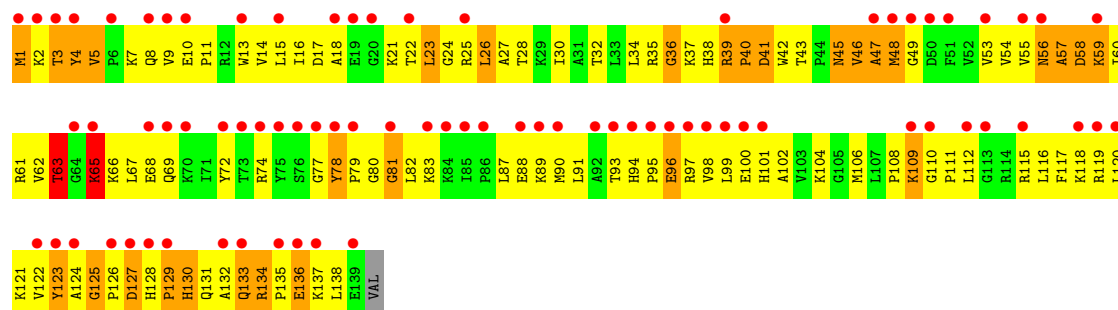
• Molecule 46: 50S RIBOSOMAL PROTEIN L13

Chain BN:



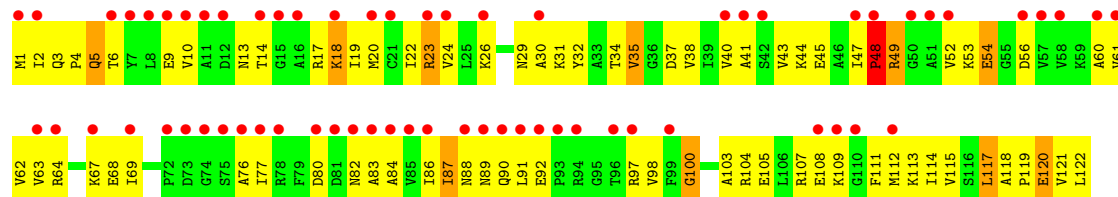
• Molecule 46: 50S RIBOSOMAL PROTEIN L13

Chain DN:



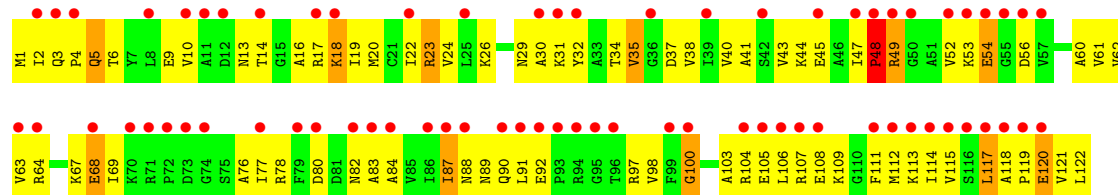
• Molecule 47: 50S RIBOSOMAL PROTEIN L14

Chain BO:



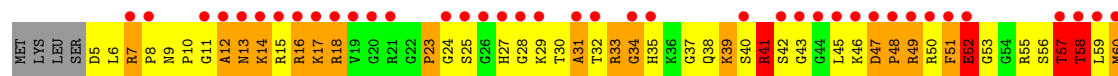
• Molecule 47: 50S RIBOSOMAL PROTEIN L14

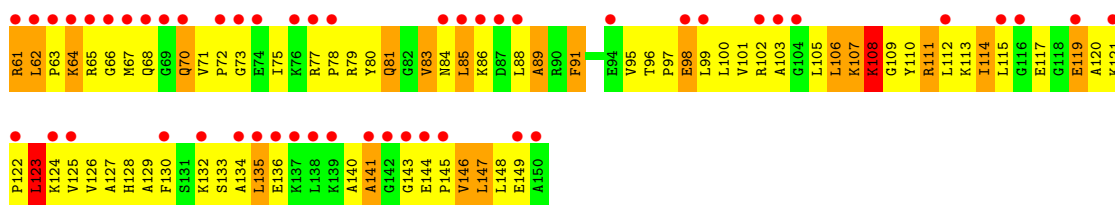
Chain DO:



• Molecule 48: 50S RIBOSOMAL PROTEIN L15

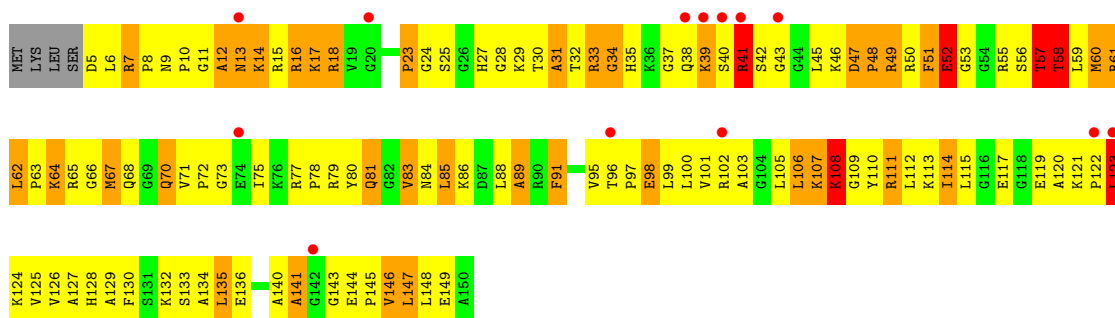
Chain BP:





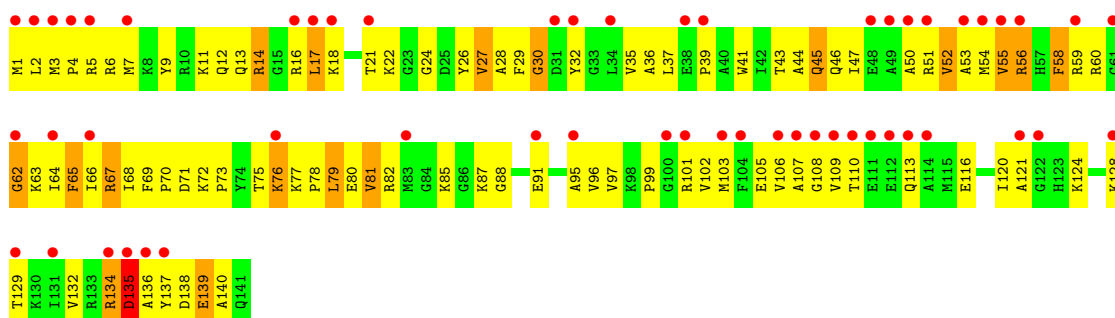
• Molecule 48: 50S RIBOSOMAL PROTEIN L15

Chain DP:



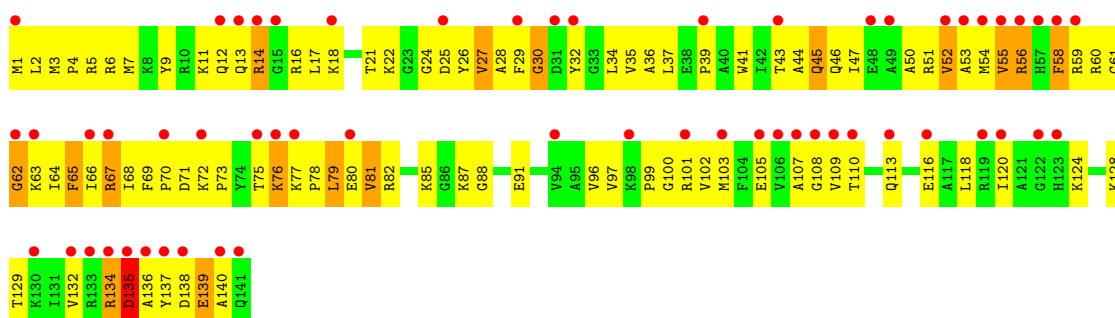
• Molecule 49: 50S RIBOSOMAL PROTEIN L16

Chain BQ:



• Molecule 49: 50S RIBOSOMAL PROTEIN L16

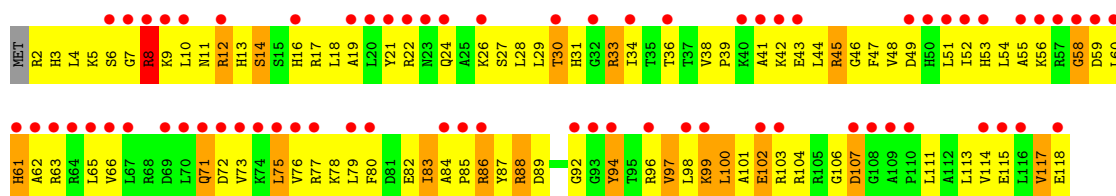
Chain DQ:



• Molecule 50: 50S RIBOSOMAL PROTEIN L17

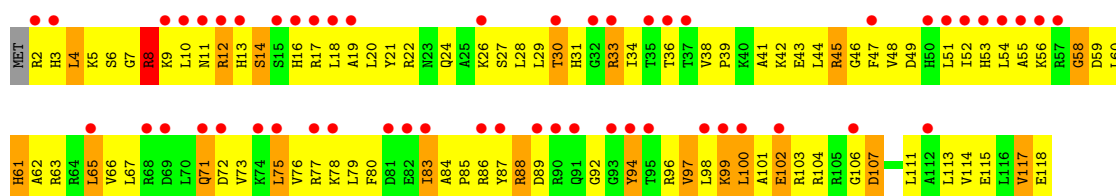
Chain BR:





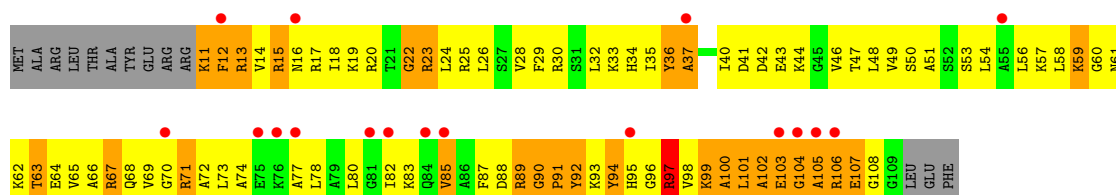
• Molecule 50: 50S RIBOSOMAL PROTEIN L17

Chain DR:



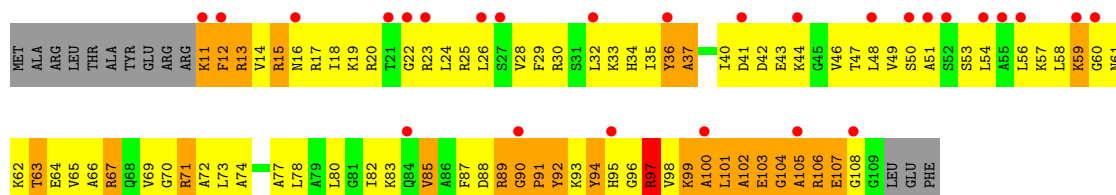
• Molecule 51: 50S RIBOSOMAL PROTEIN L18

Chain BS:



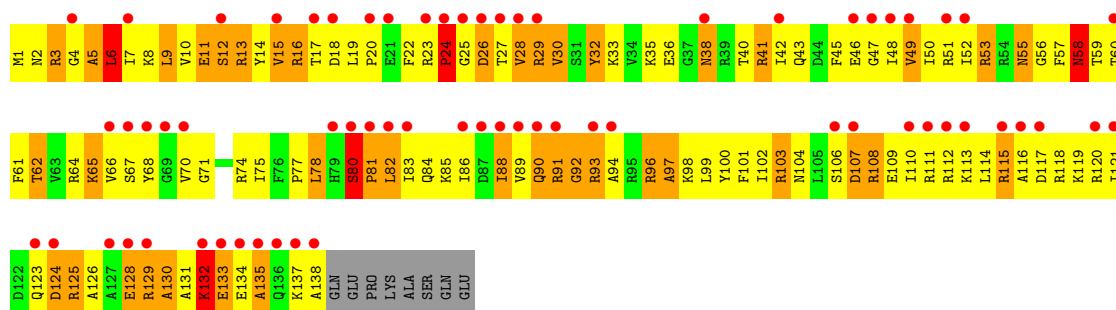
• Molecule 51: 50S RIBOSOMAL PROTEIN L18

Chain DS:

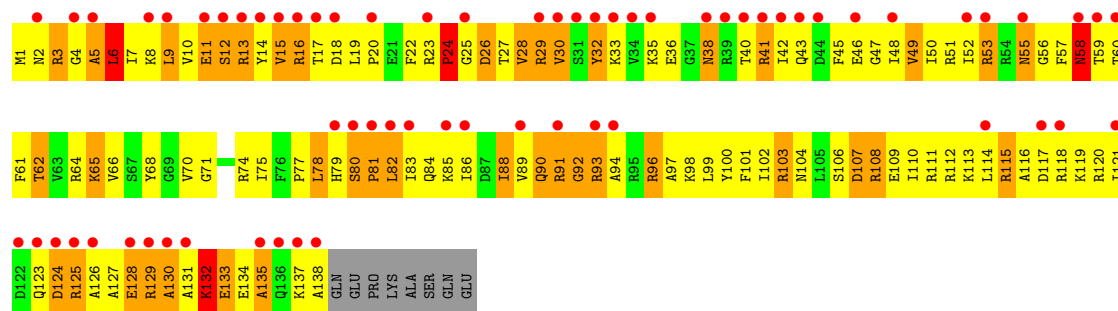


• Molecule 52: 50S RIBOSOMAL PROTEIN L19

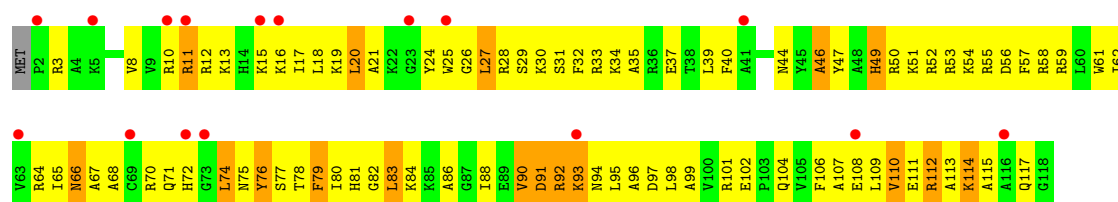
Chain BT:



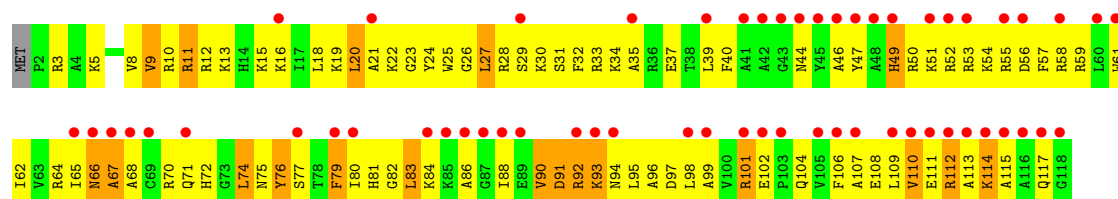
• Molecule 52: 50S RIBOSOMAL PROTEIN L19

Chain DT: 

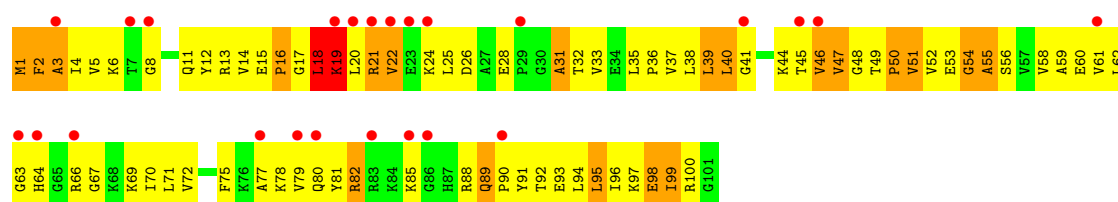
- Molecule 53: 50S RIBOSOMAL PROTEIN L20

Chain BU: 

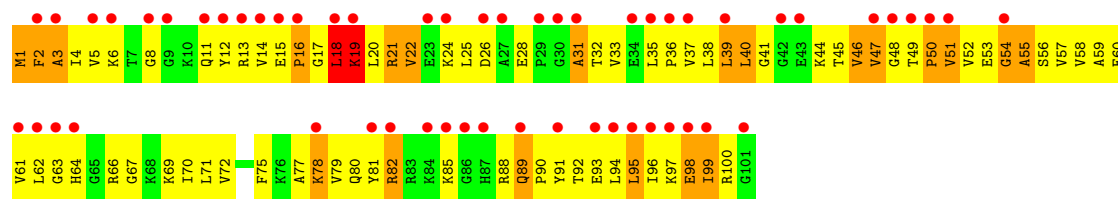
- Molecule 53: 50S RIBOSOMAL PROTEIN L20

Chain DU: 

- Molecule 54: 50S RIBOSOMAL PROTEIN L21

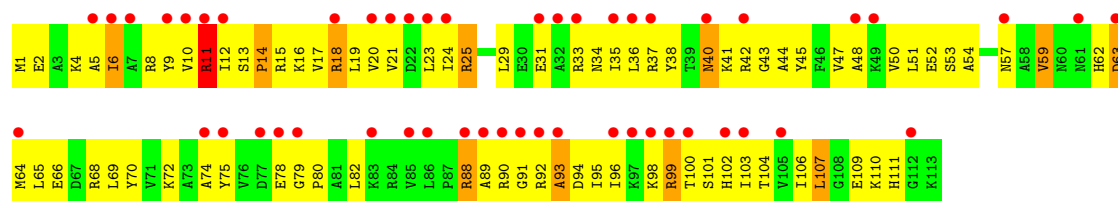
Chain BV: 

- Molecule 54: 50S RIBOSOMAL PROTEIN L21

Chain DV: 

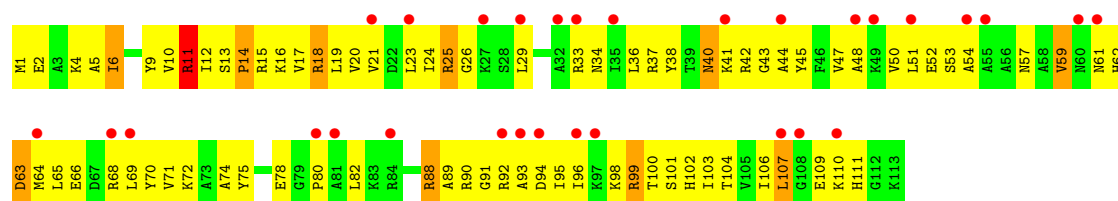
- Molecule 55: 50S RIBOSOMAL PROTEIN L22

Chain BW: 



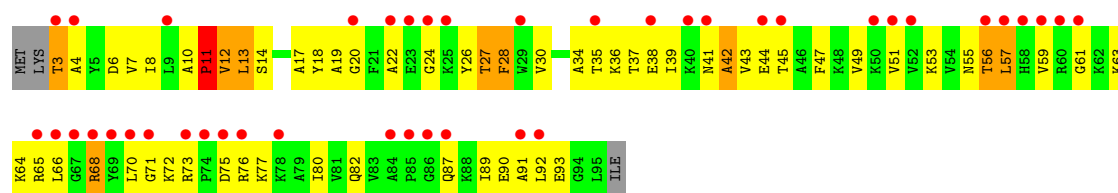
- Molecule 55: 50S RIBOSOMAL PROTEIN L22

Chain DW: 



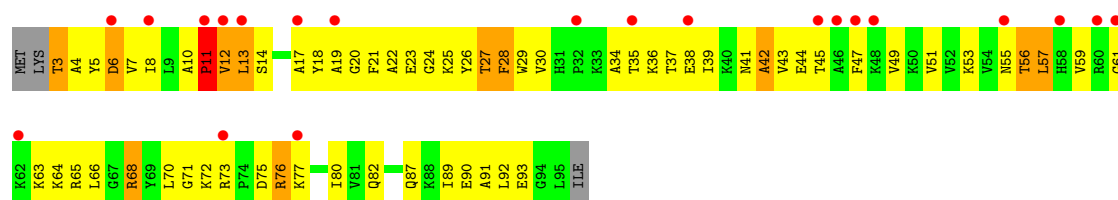
- Molecule 56: 50S RIBOSOMAL PROTEIN L23

Chain BX: 



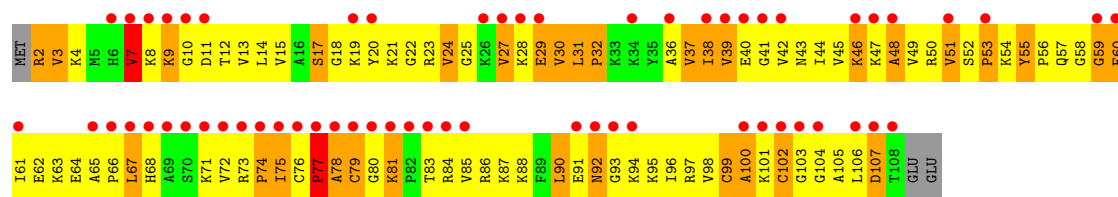
- Molecule 56: 50S RIBOSOMAL PROTEIN L23

Chain DX: 



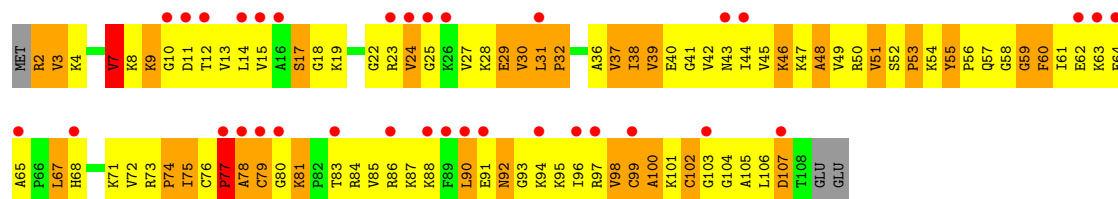
- Molecule 57: 50S RIBOSOMAL PROTEIN L24

Chain BY: 



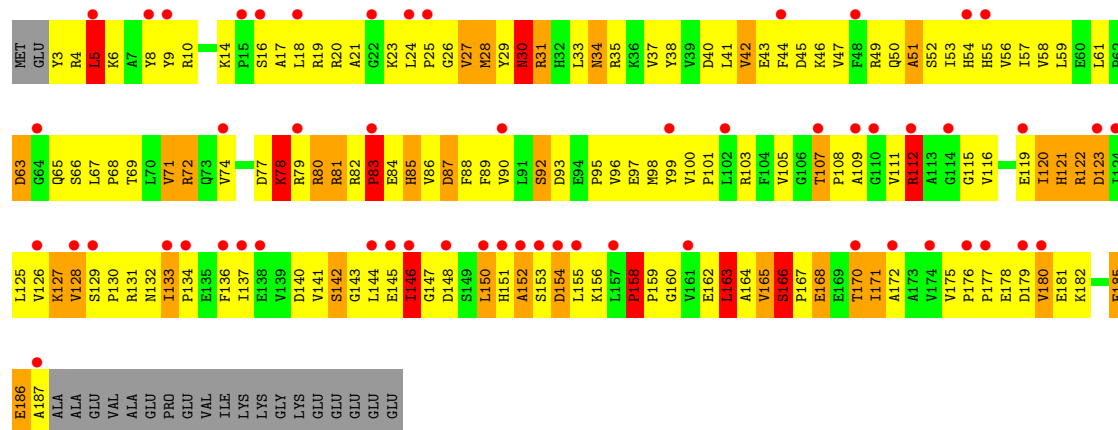
- Molecule 57: 50S RIBOSOMAL PROTEIN L24

Chain DY:



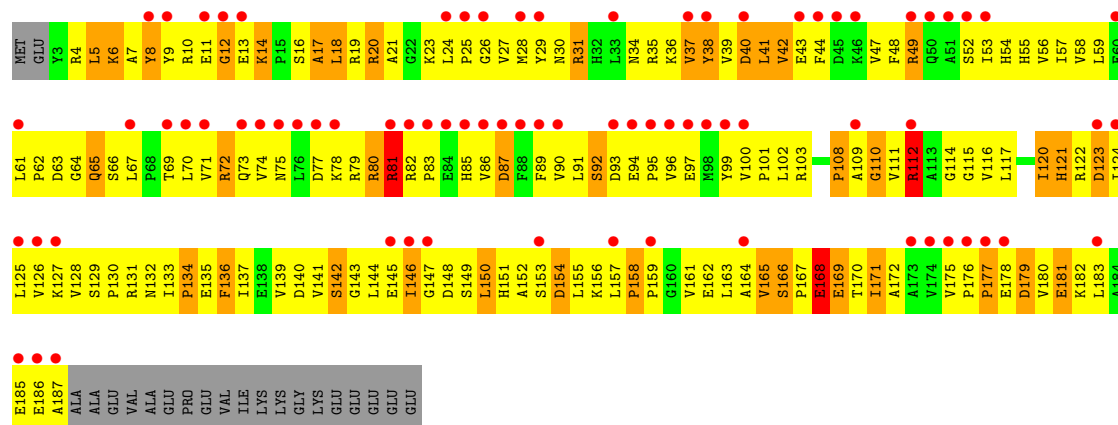
- Molecule 58: 50S RIBOSOMAL PROTEIN L25

Chain BZ: 



- Molecule 58: 50S RIBOSOMAL PROTEIN L25

Chain DZ: 



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	291.84Å 270.36Å 402.36Å 90.00° 91.73° 90.00°	Depositor
Resolution (Å)	50.00 – 3.60 50.25 – 3.47	Depositor EDS
% Data completeness (in resolution range)	96.0 (50.00-3.60) 85.4 (50.25-3.47)	Depositor EDS
R_{merge}	0.37	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.60 (at 3.48Å)	Xtriage
Refinement program	CNS 1.2	Depositor
R, R_{free}	0.227 , 0.260 (Not available) , (Not available)	Depositor DCC
R_{free} test set	NotAvailable	DCC
Wilson B-factor (Å ²)	102.7	Xtriage
Anisotropy	0.087	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 375.4	EDS
Estimated twinning fraction	0.098 for h,-k,-l	Xtriage
L-test for twinning	$\langle L \rangle = 0.37$, $\langle L^2 \rangle = 0.19$	Xtriage
Outliers	0 of 714740 reflections	Xtriage
F_o, F_c correlation	0.51	EDS
Total number of atoms	311552	wwPDB-VP
Average B, all atoms (Å ²)	86.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 14.91% 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: GDP, 5MU, ZN, MG, FUA

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	0.61	1/36190 (0.0%)	0.76	26/56486 (0.0%)
1	CA	0.60	2/36190 (0.0%)	0.76	20/56486 (0.0%)
2	AB	0.46	0/1936	0.70	0/2611
2	CB	0.44	0/1936	0.70	0/2611
3	AC	0.52	0/1637	0.69	0/2207
3	CC	0.46	0/1637	0.69	0/2207
4	AD	0.42	0/1733	0.66	0/2318
4	CD	0.41	0/1733	0.66	0/2318
5	AE	0.59	0/1163	0.72	0/1566
5	CE	0.55	0/1163	0.71	0/1566
6	AF	0.44	0/856	0.67	0/1154
6	CF	0.40	0/856	0.66	0/1154
7	AG	0.45	0/1276	0.65	0/1709
7	CG	0.45	0/1276	0.65	0/1709
8	AH	0.51	0/1136	0.74	0/1527
8	CH	0.46	0/1136	0.74	0/1527
9	AI	0.44	0/1027	0.68	0/1373
9	CI	0.41	0/1027	0.67	0/1373
10	AJ	0.47	0/808	0.72	0/1087
10	CJ	0.42	0/808	0.71	0/1087
11	AK	0.50	0/900	0.70	0/1213
11	CK	0.47	0/900	0.70	0/1213
12	AL	0.52	0/987	0.75	0/1322
12	CL	0.48	0/987	0.74	0/1322
13	AM	0.41	0/999	0.69	0/1338
13	CM	0.39	0/999	0.69	0/1338
14	AN	0.49	0/501	0.69	0/664
14	CN	0.47	0/501	0.69	0/664
15	AO	0.45	0/745	0.67	0/992
15	CO	0.43	0/745	0.66	0/992
16	AP	0.45	0/717	0.68	0/965
16	CP	0.43	0/717	0.68	0/965

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	AQ	0.51	0/837	0.69	0/1119
17	CQ	0.49	0/837	0.69	0/1119
18	AR	0.47	0/579	0.72	0/768
18	CR	0.45	0/579	0.73	0/768
19	AS	0.46	0/643	0.68	1/867 (0.1%)
19	CS	0.44	0/643	0.67	1/867 (0.1%)
20	AT	0.40	0/765	0.66	0/1007
20	CT	0.39	0/765	0.66	0/1007
21	AU	0.52	0/213	0.65	0/279
21	CU	0.50	0/213	0.65	0/279
22	AV	0.57	0/1810	0.73	0/2821
22	AW	0.41	0/1810	0.72	0/2821
22	CV	0.54	0/1810	0.70	0/2821
22	CW	0.38	0/1810	0.69	0/2821
23	AX	0.82	0/257	0.86	0/398
23	CX	0.79	0/257	0.84	1/398 (0.3%)
24	AY	0.40	0/5313	0.69	0/7195
24	CY	0.42	0/5313	0.69	1/7195 (0.0%)
25	B0	0.43	0/671	0.66	0/892
25	D0	0.42	0/671	0.67	0/892
26	B1	0.48	0/739	0.78	0/983
26	D1	0.45	0/739	0.69	0/983
27	B2	0.36	0/600	0.66	0/793
27	D2	0.37	0/600	0.62	0/793
28	B3	0.43	0/473	0.63	0/636
28	D3	0.43	0/473	0.64	0/636
29	B4	0.68	0/461	0.92	2/623 (0.3%)
29	D4	0.74	0/461	0.93	2/623 (0.3%)
30	B5	0.43	0/473	0.75	0/639
30	D5	0.44	0/473	0.74	0/639
31	B6	0.64	0/440	0.96	1/586 (0.2%)
31	D6	0.64	0/440	0.96	1/586 (0.2%)
32	B7	0.45	0/427	0.71	0/563
32	D7	0.45	0/427	0.71	0/563
33	B8	0.54	0/516	0.83	0/681
33	D8	0.54	0/516	0.83	0/681
34	B9	0.47	0/310	0.69	0/407
34	D9	0.46	0/310	0.70	0/407
35	BA	0.56	3/69972 (0.0%)	0.75	35/109237 (0.0%)
35	DA	0.55	4/69972 (0.0%)	0.75	36/109237 (0.0%)
36	BB	0.44	0/2853	0.72	1/4451 (0.0%)
36	DB	0.44	0/2853	0.72	0/4451
37	BC	0.35	0/1774	0.61	0/2391

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
37	DC	0.34	0/1774	0.61	0/2391
38	BD	0.54	0/2195	0.83	0/2955
38	DD	0.53	0/2195	0.82	0/2955
39	BE	0.48	0/1597	0.74	0/2155
39	DE	0.46	0/1597	0.74	0/2155
40	BF	0.39	0/1659	0.66	0/2246
40	DF	0.38	0/1659	0.66	0/2246
41	BG	0.42	0/1498	0.78	1/2013 (0.0%)
41	DG	0.43	0/1498	0.74	0/2013
42	BH	0.36	0/1293	0.71	0/1746
42	DH	0.35	0/1293	0.69	0/1746
44	BK	0.35	0/1045	0.60	0/1418
44	DK	0.36	0/1045	0.60	0/1418
46	BN	0.40	0/1132	0.73	1/1527 (0.1%)
46	DN	0.39	0/1132	0.73	1/1527 (0.1%)
47	BO	0.49	0/943	0.72	0/1269
47	DO	0.47	0/943	0.72	0/1269
48	BP	0.44	0/1131	0.93	4/1504 (0.3%)
48	DP	0.44	0/1131	0.91	4/1504 (0.3%)
49	BQ	0.49	0/1143	0.69	0/1527
49	DQ	0.48	0/1143	0.70	0/1527
50	BR	0.39	0/974	0.68	0/1302
50	DR	0.38	0/974	0.68	1/1302 (0.1%)
51	BS	0.41	0/779	0.69	0/1038
51	DS	0.40	0/779	0.70	0/1038
52	BT	0.47	0/1156	0.79	2/1544 (0.1%)
52	DT	0.49	0/1156	0.79	1/1544 (0.1%)
53	BU	0.43	0/975	0.68	0/1297
53	DU	0.44	0/975	0.69	0/1297
54	BV	0.39	0/790	0.70	0/1057
54	DV	0.39	0/790	0.70	0/1057
55	BW	0.37	0/907	0.65	0/1216
55	DW	0.39	0/907	0.65	0/1216
56	BX	0.42	0/740	0.66	0/995
56	DX	0.42	0/740	0.66	0/995
57	BY	0.41	0/824	0.67	0/1100
57	DY	0.42	0/824	0.68	0/1100
58	BZ	0.48	0/1500	0.74	0/2037
58	DZ	0.46	0/1500	0.73	0/2037
All	All	0.53	10/333656 (0.0%)	0.74	143/497270 (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	48
1	CA	0	43
22	AV	0	3
22	CV	0	1
23	AX	0	2
23	CX	0	1
35	BA	2	69
35	DA	2	58
36	BB	0	1
36	DB	0	1
37	BC	0	1
37	DC	0	1
44	BK	0	1
44	DK	0	1
46	DN	0	1
All	All	4	232

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BA	2506	U	N1-C2	7.05	1.44	1.38
35	DA	2506	U	N1-C2	6.48	1.44	1.38
35	BA	272(I)	U	C1'-N1	5.69	1.57	1.48
1	AA	1417	G	C6-O6	5.55	1.29	1.24
35	DA	272(I)	U	C1'-N1	5.49	1.56	1.48
35	DA	1786	A	C5-C6	-5.20	1.36	1.41
35	DA	1671	U	N3-C4	5.12	1.43	1.38
1	CA	1108	G	C5-C6	5.04	1.47	1.42
1	CA	299	G	C6-O6	5.03	1.28	1.24
35	BA	1828	G	P-OP2	5.02	1.57	1.49

All (143) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BA	1992	G	C2'-C3'-O3'	10.77	133.19	109.50
35	DA	1992	G	C2'-C3'-O3'	10.61	132.85	109.50
1	CA	575	G	C2'-C3'-O3'	9.68	130.80	109.50
1	AA	575	G	C2'-C3'-O3'	9.65	130.72	109.50
35	BA	945	A	N9-C1'-C2'	9.34	126.14	114.00
35	DA	945	A	N9-C1'-C2'	9.33	126.13	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	DA	1799	G	C2'-C3'-O3'	9.18	129.70	109.50
35	BA	1799	G	C2'-C3'-O3'	9.10	129.52	109.50
1	CA	1498	U	C2'-C3'-O3'	9.09	129.49	109.50
1	AA	1498	U	C2'-C3'-O3'	8.88	129.05	109.50
1	AA	115	G	C2'-C3'-O3'	8.46	128.11	109.50
35	DA	1379	A	N9-C1'-C2'	8.43	124.96	114.00
1	CA	115	G	C2'-C3'-O3'	8.27	127.69	109.50
35	BA	1379	A	N9-C1'-C2'	8.20	124.66	114.00
35	DA	1786	A	N9-C1'-C2'	7.82	124.16	114.00
35	BA	1786	A	N9-C1'-C2'	7.61	123.89	114.00
1	AA	1502	A	N9-C1'-C2'	7.58	123.85	114.00
35	DA	2799	C	C2'-C3'-O3'	7.49	125.97	109.50
35	BA	2799	C	C2'-C3'-O3'	7.44	125.87	109.50
36	BB	103	G	C5'-C4'-C3'	-7.43	104.11	116.00
35	BA	1156	A	N9-C1'-C2'	7.15	123.29	114.00
35	DA	1156	A	N9-C1'-C2'	7.11	123.25	114.00
1	CA	60	A	C2'-C3'-O3'	7.11	125.14	109.50
48	BP	53	GLY	N-CA-C	-7.06	95.45	113.10
1	AA	60	A	C2'-C3'-O3'	7.04	124.99	109.50
48	DP	53	GLY	N-CA-C	-6.98	95.64	113.10
1	CA	921	U	C5'-C4'-C3'	-6.96	104.86	116.00
1	AA	921	U	C5'-C4'-C3'	-6.76	105.18	116.00
48	DP	52	GLU	N-CA-C	6.76	129.25	111.00
48	BP	52	GLU	N-CA-C	6.72	129.15	111.00
35	DA	1654	A	C5'-C4'-C3'	6.65	126.64	116.00
35	BA	788	A	N9-C1'-C2'	6.55	122.51	114.00
35	BA	1396	U	N1-C1'-C2'	6.51	122.46	114.00
35	BA	1654	A	C5'-C4'-C3'	6.48	126.37	116.00
1	AA	1285	A	C2'-C3'-O3'	6.45	124.02	113.70
1	CA	1505	G	O5'-P-OP1	-6.43	99.91	105.70
35	DA	1020	A	N9-C1'-C2'	6.43	122.36	114.00
1	CA	792	A	C5'-C4'-C3'	-6.36	105.83	116.00
35	DA	1396	U	N1-C1'-C2'	6.35	122.25	114.00
1	AA	1457	G	N9-C1'-C2'	-6.33	105.03	112.00
19	AS	5	LEU	CA-CB-CG	6.33	129.85	115.30
1	AA	792	A	C5'-C4'-C3'	-6.31	105.90	116.00
35	BA	1236	G	N9-C1'-C2'	6.30	122.20	114.00
31	D6	23	THR	N-CA-C	6.29	127.98	111.00
1	AA	328	C	C2'-C3'-O3'	6.28	123.75	113.70
35	BA	49	A	C2'-C3'-O3'	6.28	123.75	113.70
1	CA	533	A	C2'-C3'-O3'	6.27	123.73	113.70
29	B4	43	TYR	N-CA-C	6.26	127.92	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	B6	23	THR	N-CA-C	6.24	127.86	111.00
29	D4	43	TYR	N-CA-C	6.23	127.82	111.00
1	AA	1190	G	N9-C1'-C2'	6.21	122.07	114.00
1	AA	1201	A	C2'-C3'-O3'	6.20	123.62	113.70
35	BA	1020	A	N9-C1'-C2'	6.17	122.03	114.00
35	DA	788	A	N9-C1'-C2'	6.15	122.00	114.00
35	BA	2732	G	N9-C1'-C2'	6.14	121.99	114.00
35	DA	945	A	O4'-C1'-N9	6.06	113.05	108.20
35	DA	1236	G	N9-C1'-C2'	6.06	121.87	114.00
48	DP	58	THR	N-CA-C	-6.03	94.73	111.00
1	CA	428	G	C2'-C3'-O3'	6.02	123.33	113.70
1	CA	1502	A	N9-C1'-C2'	6.02	121.82	114.00
35	BA	945	A	O4'-C1'-N9	6.00	113.00	108.20
35	BA	2225	A	C2'-C3'-O3'	6.00	123.29	113.70
1	CA	1190	G	N9-C1'-C2'	5.99	121.78	114.00
35	DA	1819	A	N9-C1'-C2'	5.99	121.79	114.00
1	AA	533	A	C2'-C3'-O3'	5.95	123.22	113.70
35	DA	49	A	C2'-C3'-O3'	5.95	123.22	113.70
1	CA	1493	A	C2'-C3'-O3'	5.95	123.22	113.70
1	CA	204	U	O4'-C1'-N1	5.94	112.95	108.20
35	BA	1493	C	N1-C1'-C2'	5.93	121.71	114.00
1	AA	1109	C	OP2-P-O3'	5.93	118.24	105.20
48	BP	58	THR	N-CA-C	-5.93	95.00	111.00
1	CA	328	C	C2'-C3'-O3'	5.92	123.18	113.70
1	AA	428	G	C2'-C3'-O3'	5.85	123.05	113.70
19	CS	5	LEU	CA-CB-CG	5.84	128.74	115.30
1	AA	1398	A	C5'-C4'-C3'	-5.84	106.66	116.00
35	BA	1819	A	N9-C1'-C2'	5.84	121.59	114.00
35	DA	2732	G	N9-C1'-C2'	5.81	121.56	114.00
35	DA	1493	C	N1-C1'-C2'	5.78	121.51	114.00
35	BA	2172	U	C2'-C3'-O3'	5.75	122.91	113.70
1	CA	1285	A	C2'-C3'-O3'	5.75	122.90	113.70
1	AA	204	U	O4'-C1'-N1	5.72	112.78	108.20
35	BA	1252	G	N9-C1'-C2'	5.71	121.42	114.00
35	DA	2225	A	C2'-C3'-O3'	5.71	122.83	113.70
35	BA	2835	A	N9-C1'-C2'	5.70	121.41	114.00
1	AA	30	U	N1-C1'-C2'	5.70	121.41	114.00
35	BA	1838	C	C2'-C3'-O3'	5.69	122.81	113.70
1	CA	1201	A	C2'-C3'-O3'	5.68	122.79	113.70
35	BA	2345	G	C1'-O4'-C4'	-5.64	105.39	109.90
35	BA	2026	C	C5'-C4'-C3'	-5.62	107.02	116.00
35	BA	479	A	N9-C1'-C2'	5.59	121.27	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	DA	1237	A	N9-C1'-C2'	5.58	121.25	114.00
35	DA	2481	G	N9-C1'-C2'	5.56	121.23	114.00
35	BA	2481	G	N9-C1'-C2'	5.54	121.21	114.00
35	BA	675	A	N9-C1'-C2'	5.54	121.20	114.00
35	BA	1237	A	N9-C1'-C2'	5.54	121.19	114.00
35	DA	2172	U	C2'-C3'-O3'	5.52	122.53	113.70
1	CA	366	C	C2'-C3'-O3'	5.48	122.47	113.70
35	DA	1252	G	N9-C1'-C2'	5.46	121.10	114.00
35	DA	479	A	N9-C1'-C2'	5.44	121.07	114.00
35	DA	906	G	C5'-C4'-C3'	-5.43	107.31	116.00
35	DA	2779	U	O4'-C1'-N1	5.42	112.53	108.20
1	AA	366	C	C2'-C3'-O3'	5.41	122.35	113.70
35	DA	1838	C	C2'-C3'-O3'	5.40	122.34	113.70
35	DA	1904	G	C5'-C4'-C3'	-5.40	107.36	116.00
35	BA	1959	G	C5'-C4'-C3'	-5.37	107.41	116.00
35	BA	1948	G	C5'-C4'-O4'	-5.36	102.66	109.10
35	DA	748	G	N9-C1'-C2'	5.36	120.97	114.00
23	CX	11	U	N1-C1'-C2'	5.32	120.92	114.00
35	DA	2835	A	N9-C1'-C2'	5.31	120.90	114.00
35	BA	1818	U	C5'-C4'-C3'	-5.27	107.56	116.00
1	CA	30	U	N1-C1'-C2'	5.26	120.84	114.00
35	DA	2026	C	C5'-C4'-C3'	-5.25	107.60	116.00
1	AA	481	G	C5'-C4'-C3'	-5.23	107.63	116.00
35	DA	675	A	N9-C1'-C2'	5.22	120.79	114.00
46	BN	3	THR	N-CA-C	-5.22	96.92	111.00
52	BT	29	ARG	N-CA-C	5.22	125.08	111.00
29	D4	53	GLU	N-CA-C	5.21	125.06	111.00
35	DA	2345	G	C1'-O4'-C4'	-5.18	105.75	109.90
35	BA	2126	A	N9-C1'-C2'	5.18	120.73	114.00
24	CY	34	TYR	N-CA-C	-5.18	97.02	111.00
1	AA	812	C	OP2-P-O3'	5.17	116.59	105.20
1	AA	1049	U	N1-C1'-C2'	5.15	120.70	114.00
35	BA	2779	U	O4'-C1'-N1	5.15	112.32	108.20
1	AA	1065	U	N1-C1'-C2'	5.15	120.69	114.00
35	DA	2035	G	N9-C1'-C2'	5.15	120.69	114.00
46	DN	3	THR	N-CA-C	-5.15	97.10	111.00
1	CA	1049	U	N1-C1'-C2'	5.14	120.68	114.00
52	DT	29	ARG	N-CA-C	5.13	124.86	111.00
48	DP	41	ARG	N-CA-C	-5.12	97.17	111.00
35	BA	1459	G	N9-C1'-C2'	5.10	120.63	114.00
41	BG	139	LEU	CA-CB-CG	5.09	127.01	115.30
1	AA	1498	U	OP2-P-O3'	5.09	116.39	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
29	B4	53	GLU	N-CA-C	5.07	124.70	111.00
35	DA	1948	G	C5'-C4'-O4'	-5.06	103.03	109.10
48	BP	41	ARG	N-CA-C	-5.05	97.36	111.00
35	DA	1654	A	N9-C1'-C2'	-5.03	106.47	112.00
1	AA	754	C	N1-C1'-C2'	5.03	120.53	114.00
1	AA	1456	G	N9-C1'-C2'	5.03	120.53	114.00
1	CA	754	C	N1-C1'-C2'	5.02	120.53	114.00
50	DR	4	LEU	CA-CB-CG	5.02	126.85	115.30
35	DA	1351	C	C5'-C4'-C3'	-5.01	107.98	116.00
52	BT	80	SER	N-CA-C	5.01	124.53	111.00
35	BA	848	G	C5'-C4'-C3'	-5.00	107.99	116.00

All (4) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
35	BA	1799	G	C3'
35	BA	1992	G	C3'
35	DA	1799	G	C3'
35	DA	1992	G	C3'

All (232) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AA	1053	G	Sidechain
1	AA	1055	A	Sidechain
1	AA	1077	G	Sidechain
1	AA	108	G	Sidechain
1	AA	1109	C	Sidechain
1	AA	112	G	Sidechain
1	AA	1184	G	Sidechain
1	AA	1190	G	Sidechain
1	AA	1219	U	Sidechain
1	AA	1226	C	Sidechain
1	AA	1331	G	Sidechain
1	AA	1355	G	Sidechain
1	AA	1370	G	Sidechain
1	AA	1391	U	Sidechain
1	AA	1401	G	Sidechain
1	AA	1402	C	Sidechain
1	AA	1403	C	Sidechain
1	AA	1414	U	Sidechain
1	AA	1485	U	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1498	U	Sidechain
1	AA	1502	A	Sidechain
1	AA	1512	U	Sidechain
1	AA	1519	A	Sidechain
1	AA	30	U	Sidechain
1	AA	309	G	Sidechain
1	AA	361	G	Sidechain
1	AA	387	U	Sidechain
1	AA	39	G	Sidechain
1	AA	436	C	Sidechain
1	AA	5	U	Sidechain
1	AA	573	A	Sidechain
1	AA	582	U	Sidechain
1	AA	598	U	Sidechain
1	AA	672	U	Sidechain
1	AA	691	G	Sidechain
1	AA	724	G	Sidechain
1	AA	741	G	Sidechain
1	AA	748	C	Sidechain
1	AA	760	G	Sidechain
1	AA	781	A	Sidechain
1	AA	835	U	Sidechain
1	AA	887	G	Sidechain
1	AA	898	G	Sidechain
1	AA	963	G	Sidechain
1	AA	969	A	Sidechain
1	AA	971	G	Sidechain
1	AA	981	U	Sidechain
1	AA	991	U	Sidechain
22	AV	29	G	Sidechain
22	AV	4	G	Sidechain
22	AV	8	U	Sidechain
23	AX	12	A	Sidechain
23	AX	17	U	Sidechain
35	BA	1142(A)	A	Sidechain
35	BA	1156	A	Sidechain
35	BA	1215	G	Sidechain
35	BA	1236	G	Sidechain
35	BA	1238	G	Sidechain
35	BA	1253	A	Sidechain
35	BA	1302	A	Sidechain
35	BA	1379	A	Sidechain

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Mol	Chain	Res	Type	Group
35	BA	1496	A	Sidechain
35	BA	1614	A	Sidechain
35	BA	1623	G	Sidechain
35	BA	1633	G	Sidechain
35	BA	1645	G	Sidechain
35	BA	1772	G	Sidechain
35	BA	1776	G	Sidechain
35	BA	1781	C	Sidechain
35	BA	1822	G	Sidechain
35	BA	1827	C	Sidechain
35	BA	1919	A	Sidechain
35	BA	1920	C	Sidechain
35	BA	1926	U	Sidechain
35	BA	1929	G	Sidechain
35	BA	1952	A	Sidechain
35	BA	1992	G	Sidechain
35	BA	200	U	Sidechain
35	BA	2009	G	Sidechain
35	BA	2010	G	Sidechain
35	BA	2031	A	Sidechain
35	BA	2051	A	Sidechain
35	BA	2052	G	Sidechain
35	BA	2053	G	Sidechain
35	BA	2059	A	Sidechain
35	BA	2079	U	Sidechain
35	BA	2126	A	Sidechain
35	BA	2250	G	Sidechain
35	BA	2266	A	Sidechain
35	BA	2296	U	Sidechain
35	BA	2340	G	Sidechain
35	BA	2344	U	Sidechain
35	BA	2401	U	Sidechain
35	BA	2464	C	Sidechain
35	BA	248	G	Sidechain
35	BA	2481	G	Sidechain
35	BA	2494	G	Sidechain
35	BA	2504	U	Sidechain
35	BA	2506	U	Sidechain
35	BA	2508	G	Sidechain
35	BA	2518	A	Sidechain
35	BA	2564	A	Sidechain
35	BA	2569	G	Sidechain

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Mol	Chain	Res	Type	Group
35	BA	2609	U	Sidechain
35	BA	2659	G	Sidechain
35	BA	2685	G	Sidechain
35	BA	2826	A	Sidechain
35	BA	2835	A	Sidechain
35	BA	395	U	Sidechain
35	BA	463	G	Sidechain
35	BA	528	A	Sidechain
35	BA	562	U	Sidechain
35	BA	686	G	Sidechain
35	BA	688	U	Sidechain
35	BA	742	G	Sidechain
35	BA	788	A	Sidechain
35	BA	83	G	Sidechain
35	BA	845	G	Sidechain
35	BA	895	U	Sidechain
35	BA	913	U	Sidechain
35	BA	945	A	Sidechain
35	BA	958	U	Sidechain
36	BB	21	G	Sidechain
37	BC	28	ARG	Sidechain
44	BK	6	ALA	Peptide
1	CA	1053	G	Sidechain
1	CA	1077	G	Sidechain
1	CA	1190	G	Sidechain
1	CA	1226	C	Sidechain
1	CA	1231	G	Sidechain
1	CA	1331	G	Sidechain
1	CA	1355	G	Sidechain
1	CA	1370	G	Sidechain
1	CA	1502	A	Sidechain
1	CA	1505	G	Sidechain
1	CA	1512	U	Sidechain
1	CA	1519	A	Sidechain
1	CA	1525	G	Sidechain
1	CA	1527	C	Sidechain
1	CA	204	U	Sidechain
1	CA	223	U	Sidechain
1	CA	250	A	Sidechain
1	CA	253	U	Sidechain
1	CA	30	U	Sidechain
1	CA	309	G	Sidechain

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Mol	Chain	Res	Type	Group
1	CA	361	G	Sidechain
1	CA	39	G	Sidechain
1	CA	436	C	Sidechain
1	CA	5	U	Sidechain
1	CA	548	G	Sidechain
1	CA	573	A	Sidechain
1	CA	582	U	Sidechain
1	CA	598	U	Sidechain
1	CA	641	U	Sidechain
1	CA	657	G	Sidechain
1	CA	672	U	Sidechain
1	CA	691	G	Sidechain
1	CA	724	G	Sidechain
1	CA	727	G	Sidechain
1	CA	741	G	Sidechain
1	CA	760	G	Sidechain
1	CA	781	A	Sidechain
1	CA	835	U	Sidechain
1	CA	887	G	Sidechain
1	CA	898	G	Sidechain
1	CA	931	C	Sidechain
1	CA	971	G	Sidechain
1	CA	991	U	Sidechain
22	CV	4	G	Sidechain
23	CX	11	U	Sidechain
35	DA	1156	A	Sidechain
35	DA	1236	G	Sidechain
35	DA	1238	G	Sidechain
35	DA	1302	A	Sidechain
35	DA	1379	A	Sidechain
35	DA	1614	A	Sidechain
35	DA	1623	G	Sidechain
35	DA	1645	G	Sidechain
35	DA	1772	G	Sidechain
35	DA	1776	G	Sidechain
35	DA	1781	C	Sidechain
35	DA	1822	G	Sidechain
35	DA	1907	G	Sidechain
35	DA	1919	A	Sidechain
35	DA	1920	C	Sidechain
35	DA	1926	U	Sidechain
35	DA	1952	A	Sidechain

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Mol	Chain	Res	Type	Group
35	DA	1992	G	Sidechain
35	DA	2009	G	Sidechain
35	DA	2010	G	Sidechain
35	DA	2031	A	Sidechain
35	DA	2051	A	Sidechain
35	DA	2052	G	Sidechain
35	DA	2053	G	Sidechain
35	DA	2059	A	Sidechain
35	DA	2061	G	Sidechain
35	DA	2079	U	Sidechain
35	DA	2126	A	Sidechain
35	DA	2250	G	Sidechain
35	DA	2266	A	Sidechain
35	DA	2340	G	Sidechain
35	DA	2344	U	Sidechain
35	DA	2401	U	Sidechain
35	DA	2464	C	Sidechain
35	DA	248	G	Sidechain
35	DA	2481	G	Sidechain
35	DA	2494	G	Sidechain
35	DA	2506	U	Sidechain
35	DA	2508	G	Sidechain
35	DA	2518	A	Sidechain
35	DA	2659	G	Sidechain
35	DA	2685	G	Sidechain
35	DA	2732	G	Sidechain
35	DA	2835	A	Sidechain
35	DA	395	U	Sidechain
35	DA	463	G	Sidechain
35	DA	528	A	Sidechain
35	DA	686	G	Sidechain
35	DA	688	U	Sidechain
35	DA	690	G	Sidechain
35	DA	742	G	Sidechain
35	DA	788	A	Sidechain
35	DA	83	G	Sidechain
35	DA	845	G	Sidechain
35	DA	895	U	Sidechain
35	DA	913	U	Sidechain
35	DA	945	A	Sidechain
35	DA	958	U	Sidechain
36	DB	21	G	Sidechain

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Mol	Chain	Res	Type	Group
37	DC	28	ARG	Sidechain
44	DK	5	VAL	Peptide
46	DN	72	TYR	Sidechain

5.2 Close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AA	32329	0	16318	1237	0
1	CA	32329	0	16318	1268	0
2	AB	1901	0	1951	243	0
2	CB	1901	0	1951	241	2
3	AC	1613	0	1677	211	0
3	CC	1613	0	1677	216	0
4	AD	1703	0	1763	187	0
4	CD	1703	0	1763	191	0
5	AE	1147	0	1207	128	0
5	CE	1147	0	1207	134	0
6	AF	843	0	857	77	0
6	CF	843	0	857	79	0
7	AG	1257	0	1296	100	0
7	CG	1257	0	1296	95	0
8	AH	1116	0	1177	86	0
8	CH	1116	0	1177	88	0
9	AI	1010	0	1035	135	0
9	CI	1010	0	1035	132	0
10	AJ	795	0	840	180	0
10	CJ	795	0	840	176	0
11	AK	885	0	904	77	0
11	CK	885	0	904	75	0
12	AL	971	0	1057	131	0
12	CL	971	0	1057	129	0
13	AM	988	0	1059	146	0
13	CM	988	0	1059	144	0
14	AN	492	0	530	68	0
14	CN	492	0	530	65	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
15	AO	734	0	771	66	0
15	CO	734	0	771	62	0
16	AP	701	0	720	78	0
16	CP	701	0	720	78	0
17	AQ	824	0	891	60	0
17	CQ	824	0	891	57	0
18	AR	574	0	644	71	0
18	CR	574	0	644	72	0
19	AS	630	0	652	119	0
19	CS	630	0	652	122	0
20	AT	763	0	861	96	0
20	CT	763	0	861	93	0
21	AU	209	0	221	19	0
21	CU	209	0	221	21	0
22	AV	1640	0	836	72	0
22	AW	1640	0	836	83	0
22	CV	1640	0	836	49	0
22	CW	1640	0	836	71	0
23	AX	230	0	119	26	0
23	CX	230	0	119	21	0
24	AY	5215	0	5287	798	0
24	CY	5215	0	5287	767	0
25	B0	662	0	688	86	0
25	D0	662	0	688	87	0
26	B1	732	0	808	131	0
26	D1	732	0	808	126	0
27	B2	598	0	653	106	0
27	D2	598	0	653	108	0
28	B3	468	0	523	60	0
28	D3	468	0	523	55	0
29	B4	451	0	448	99	0
29	D4	451	0	449	100	0
30	B5	459	0	480	108	0
30	D5	459	0	480	110	0
31	B6	433	0	461	176	0
31	D6	433	0	461	177	0
32	B7	419	0	467	38	0
32	D7	419	0	467	40	0
33	B8	508	0	576	107	0
33	D8	508	0	576	108	0
34	B9	307	0	335	39	0
34	D9	307	0	335	39	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
35	BA	62474	0	31497	2706	0
35	DA	62474	0	31497	2749	0
36	BB	2551	0	1295	127	0
36	DB	2551	0	1295	135	0
37	BC	1742	0	1798	169	0
37	DC	1742	0	1798	168	2
38	BD	2145	0	2234	302	0
38	DD	2145	0	2234	306	0
39	BE	1564	0	1629	280	0
39	DE	1564	0	1629	282	0
40	BF	1624	0	1677	261	0
40	DF	1624	0	1677	269	0
41	BG	1474	0	1534	288	0
41	DG	1474	0	1534	272	0
42	BH	1269	0	1337	231	0
42	DH	1269	0	1337	216	0
43	BJ	851	0	191	28	0
43	DJ	851	0	195	44	0
44	BK	1026	0	1066	151	0
44	DK	1026	0	1066	146	0
45	BL	506	0	111	14	0
45	BM	151	0	33	4	0
45	Bl	151	0	32	0	0
45	Bm	146	0	32	0	0
45	DL	506	0	115	17	0
45	DM	151	0	32	1	0
45	Dl	151	0	32	0	0
45	Dm	146	0	31	0	0
46	BN	1105	0	1180	196	0
46	DN	1105	0	1180	196	0
47	BO	933	0	996	106	0
47	DO	933	0	996	106	0
48	BP	1114	0	1187	303	0
48	DP	1114	0	1187	304	0
49	BQ	1122	0	1179	148	0
49	DQ	1122	0	1179	150	0
50	BR	960	0	1021	163	0
50	DR	960	0	1021	160	0
51	BS	771	0	832	173	0
51	DS	771	0	832	161	0
52	BT	1142	0	1202	248	0
52	DT	1142	0	1202	244	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
53	BU	958	0	1015	171	0
53	DU	958	0	1015	174	0
54	BV	779	0	852	140	0
54	DV	779	0	852	145	0
55	BW	896	0	953	97	0
55	DW	896	0	953	91	0
56	BX	726	0	778	78	0
56	DX	726	0	778	85	0
57	BY	811	0	901	171	0
57	DY	811	0	901	174	0
58	BZ	1468	0	1492	238	0
58	DZ	1468	0	1492	275	0
59	AD	1	0	0	0	0
59	AN	1	0	0	1	0
59	B4	1	0	0	0	0
59	B9	1	0	0	0	0
59	CD	1	0	0	0	0
59	CN	1	0	0	0	0
59	D4	1	0	0	0	0
59	D9	1	0	0	0	0
60	AY	1	0	0	0	0
60	CY	1	0	0	0	0
61	AY	37	0	47	13	0
61	CY	37	0	47	22	0
62	AY	28	0	12	8	0
62	CY	28	0	12	8	0
All	All	311552	0	214129	22501	2

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 43.

All (22501) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:DH:157:TYR:CE1	42:DH:171:LEU:HD22	1.61	1.35
42:BH:157:TYR:CE1	42:BH:171:LEU:HD22	1.62	1.32
42:DH:157:TYR:HE1	42:DH:171:LEU:CD2	1.50	1.24
42:BH:157:TYR:HE1	42:BH:171:LEU:CD2	1.50	1.24
40:DF:3:GLU:HA	40:DF:24:LEU:HG	1.24	1.20
42:BH:98:LEU:HB2	42:BH:125:VAL:HG21	1.23	1.19
24:AY:662:LYS:NZ	42:BH:175:LYS:HE3	1.58	1.19
41:BG:68:PRO:HA	41:BG:92:VAL:HG12	1.25	1.19
10:AJ:6:ILE:HD11	10:AJ:72:VAL:HB	1.23	1.19

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BE:131:ALA:HB3	39:BE:134:ILE:HD11	1.24	1.18
35:DA:2012:G:H4'	55:DW:96:ILE:HD11	1.25	1.17
37:BC:118:PRO:HA	37:BC:121:MET:CG	1.73	1.17
56:BX:12:VAL:HB	56:BX:17:ALA:HB1	1.20	1.17
42:DH:98:LEU:HB2	42:DH:125:VAL:HG21	1.21	1.16
35:BA:2473:U:H3'	35:BA:2474:C:H5''	1.22	1.16
1:CA:509:A:H5'	1:CA:510:A:OP2	1.45	1.16
1:CA:979:C:H3'	1:CA:980:C:H5''	1.18	1.15
35:BA:1378:A:O2'	35:BA:1379:A:H5''	1.45	1.15
1:CA:1489:G:H2'	1:CA:1490:C:H5''	1.26	1.15
24:CY:670:VAL:HG23	24:CY:671:MET:H	1.07	1.15
1:AA:509:A:H5'	1:AA:510:A:OP2	1.43	1.15
35:DA:1043:C:H2'	35:DA:1044:G:H5''	1.27	1.14
61:CY:702:FUA:H5	61:CY:702:FUA:H202	1.29	1.14
35:BA:2012:G:H4'	55:BW:96:ILE:HD11	1.24	1.14
37:BC:118:PRO:HA	37:BC:121:MET:HG2	1.29	1.14
23:AX:13:A:H3'	23:AX:14:A:H5''	1.30	1.14
35:DA:2645:G:H3'	35:DA:2646:C:H5'	1.30	1.13
35:BA:612:C:H2'	35:BA:613:G:H5''	1.22	1.13
39:DE:131:ALA:HB3	39:DE:134:ILE:HD11	1.23	1.12
56:BX:12:VAL:HG23	56:BX:13:LEU:H	1.01	1.12
10:CJ:6:ILE:HD11	10:CJ:72:VAL:HB	1.23	1.12
35:DA:2473:U:H3'	35:DA:2474:C:H5''	1.21	1.12
41:BG:112:PRO:O	41:BG:113:ARG:HA	1.49	1.12
22:AV:17:C:H5''	22:AV:17(A):U:H6	1.08	1.12
24:AY:85:PRO:HA	24:AY:94:VAL:HG22	1.29	1.12
9:CI:4:TYR:HB2	9:CI:19:LEU:HB2	1.29	1.12
35:BA:903:C:H2'	35:BA:904:C:H5''	1.29	1.12
23:CX:13:A:H3'	23:CX:14:A:C5'	1.80	1.12
35:DA:903:C:H2'	35:DA:904:C:H5''	1.30	1.12
40:BF:3:GLU:HA	40:BF:24:LEU:HG	1.26	1.12
35:BA:2645:G:H3'	35:BA:2646:C:H5'	1.31	1.12
35:DA:996:A:H4'	53:DU:92:ARG:HE	1.02	1.11
35:DA:1378:A:O2'	35:DA:1379:A:H5''	1.48	1.11
35:DA:211:A:H2'	35:DA:212:G:H5''	1.32	1.11
24:AY:281:PRO:HB2	24:AY:286:ILE:HD11	1.33	1.11
40:BF:53:THR:HG22	40:BF:56:GLU:HG3	1.27	1.11
1:CA:656:C:H4'	15:CO:62:GLN:HE22	1.14	1.11
16:AP:20:VAL:HG21	16:AP:32:TYR:HB2	1.33	1.11
50:BR:99:LYS:HD3	50:BR:99:LYS:H	1.10	1.11
41:BG:77:ILE:HG22	41:BG:80:PHE:H	0.96	1.10
35:DA:2476:A:H2'	35:DA:2477:C:H5''	1.34	1.10

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:AW:14:A:H2'	22:AW:15:G:H5''	1.32	1.10
35:BA:996:A:H4'	53:BU:92:ARG:HE	1.03	1.10
46:BN:9:VAL:HG11	46:BN:39:ARG:HH22	1.09	1.10
35:DA:612:C:H2'	35:DA:613:G:H5''	1.21	1.10
9:AI:4:TYR:HB2	9:AI:19:LEU:HB2	1.30	1.09
35:BA:1747(A):G:H2'	35:BA:1748:G:H5''	1.29	1.09
38:DD:263:ARG:HB2	38:DD:263:ARG:HH11	0.96	1.09
40:DF:53:THR:HG22	40:DF:56:GLU:HG3	1.30	1.09
35:BA:1043:C:H2'	35:BA:1044:G:H5''	1.27	1.09
1:CA:793:U:H3'	1:CA:794:A:H5''	1.35	1.09
61:AY:702:FUA:H202	61:AY:702:FUA:H5	1.29	1.09
35:BA:2476:A:H2'	35:BA:2477:C:H5''	1.33	1.09
35:DA:1747(A):G:H2'	35:DA:1748:G:H5''	1.32	1.09
42:DH:157:TYR:CE1	42:DH:171:LEU:CD2	2.30	1.09
35:BA:2133:G:H2'	35:BA:2157:G:H22	1.18	1.09
35:DA:925:C:H2'	35:DA:926:A:H5''	1.34	1.09
38:DD:35:LYS:HZ3	38:DD:36:PRO:HD3	1.14	1.09
40:DF:53:THR:HG23	40:DF:55:GLY:H	1.14	1.08
1:AA:979:C:H3'	1:AA:980:C:H5''	1.18	1.08
35:BA:1845:G:H2'	35:BA:1846:G:H5''	1.33	1.08
56:DX:12:VAL:HG23	56:DX:13:LEU:H	1.00	1.08
24:AY:490:PRO:HG3	24:AY:516:PRO:HD2	1.35	1.08
35:DA:2133:G:H2'	35:DA:2157:G:H22	1.18	1.08
25:D0:11:ARG:HB2	25:D0:11:ARG:HH11	1.16	1.08
31:B6:5:VAL:HG23	35:BA:2283:C:H5'	1.33	1.08
40:BF:154:VAL:HG22	40:BF:191:ARG:HB3	1.33	1.08
46:DN:9:VAL:HG11	46:DN:39:ARG:HH22	1.10	1.08
22:AV:17:C:H5''	22:AV:17(A):U:C6	1.89	1.08
40:BF:53:THR:HG23	40:BF:55:GLY:H	1.14	1.08
58:DZ:69:THR:HG22	58:DZ:90:VAL:HA	1.28	1.08
1:CA:1318:A:H1'	19:CS:37:ARG:HH21	1.15	1.08
41:BG:63:ILE:HA	41:BG:143:GLU:HG3	1.36	1.07
40:DF:167:ALA:HB1	40:DF:173:VAL:HG11	1.36	1.07
38:BD:263:ARG:HB2	38:BD:263:ARG:HH11	0.93	1.07
10:AJ:75:ILE:HG13	10:AJ:76:ASN:H	1.19	1.07
24:AY:157:LEU:H	24:AY:157:LEU:HD23	1.12	1.07
50:DR:99:LYS:HD3	50:DR:99:LYS:H	1.10	1.07
38:BD:35:LYS:HZ3	38:BD:36:PRO:HD3	1.17	1.07
16:CP:20:VAL:HG21	16:CP:32:TYR:HB2	1.32	1.07
19:AS:50:ALA:HB1	19:AS:57:HIS:HB3	1.34	1.07
58:DZ:10:ARG:HD2	58:DZ:36:LYS:HE2	1.35	1.07
1:AA:656:C:H4'	15:AO:62:GLN:HE22	1.18	1.07

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
56:DX:12:VAL:HB	56:DX:17:ALA:HB1	1.17	1.07
35:BA:272(I):U:O4	35:BA:363(A):A:N1	1.87	1.07
38:BD:263:ARG:NH1	38:BD:263:ARG:HB2	1.68	1.06
1:AA:1003:G:H2'	1:AA:1004:A:H4'	1.37	1.06
35:BA:925:C:H2'	35:BA:926:A:H5''	1.35	1.06
2:CB:185:ILE:HG22	2:CB:199:TYR:HB2	1.31	1.06
35:BA:965:C:H5'	35:BA:2273:A:H1'	1.38	1.06
42:DH:12:PRO:HD3	42:DH:49:VAL:HG12	1.37	1.06
35:DA:272(I):U:O4	35:DA:363(A):A:N1	1.86	1.06
10:AJ:48:THR:HA	10:AJ:62:HIS:HB3	1.35	1.06
58:BZ:69:THR:HG22	58:BZ:90:VAL:HA	1.36	1.06
56:BX:11:PRO:HA	56:BX:28:PHE:HB3	1.36	1.06
57:DY:76:CYS:SG	57:DY:77:PRO:HD2	1.95	1.06
51:DS:13:ARG:HG3	51:DS:14:VAL:H	1.16	1.06
35:DA:1845:G:H2'	35:DA:1846:G:H5''	1.36	1.06
38:DD:263:ARG:HB2	38:DD:263:ARG:NH1	1.70	1.05
48:BP:55:ARG:HG2	48:BP:56:SER:H	1.17	1.05
2:AB:185:ILE:HG22	2:AB:199:TYR:HB2	1.31	1.05
57:BY:28:LYS:HB3	57:BY:37:VAL:HB	1.31	1.05
35:BA:1503:U:H2'	35:BA:1504:C:H6	1.15	1.05
40:DF:40:GLN:HE22	40:DF:182:ASN:HB2	1.20	1.05
51:BS:13:ARG:HG3	51:BS:14:VAL:H	1.17	1.05
57:DY:28:LYS:HB3	57:DY:37:VAL:HB	1.34	1.05
42:BH:12:PRO:HD3	42:BH:49:VAL:HG12	1.37	1.05
24:CY:409:ILE:HG22	24:CY:459:LEU:HD21	1.37	1.05
35:BA:1747(A):G:C2'	35:BA:1748:G:H5''	1.85	1.05
27:B2:69:ARG:HH22	35:BA:111:A:H4'	1.20	1.05
31:D6:5:VAL:HG23	35:DA:2283:C:H5'	1.35	1.05
5:CE:87:SER:HB3	5:CE:131:ILE:HD13	1.38	1.05
42:BH:157:TYR:CE1	42:BH:171:LEU:CD2	2.30	1.05
57:DY:7:VAL:HB	57:DY:8:LYS:HD2	1.37	1.05
56:DX:11:PRO:HA	56:DX:28:PHE:HB3	1.39	1.05
40:DF:154:VAL:HG22	40:DF:191:ARG:HB3	1.35	1.05
13:CM:27:LYS:HE2	13:CM:31:LYS:HE3	1.38	1.05
1:AA:793:U:H3'	1:AA:794:A:H5''	1.36	1.05
41:DG:46:ALA:HB2	41:DG:88:ILE:HB	1.36	1.05
41:DG:62:LEU:HD12	41:DG:62:LEU:H	1.22	1.05
35:BA:211:A:H2'	35:BA:212:G:H5''	1.33	1.05
10:CJ:75:ILE:HG13	10:CJ:76:ASN:H	1.17	1.05
58:BZ:151:HIS:HA	58:BZ:171:ILE:HG23	1.36	1.05
35:DA:1899:G:N2	35:DA:1902:C:H41	1.54	1.04
10:CJ:48:THR:HA	10:CJ:62:HIS:HB3	1.32	1.04

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:BD:71:ASP:HB2	38:BD:103:ARG:HH22	1.20	1.04
24:CY:92:ILE:HG23	24:CY:93:GLU:H	1.22	1.04
35:DA:1747(A):G:C2'	35:DA:1748:G:H5''	1.87	1.04
57:BY:7:VAL:HB	57:BY:8:LYS:HD2	1.35	1.04
48:DP:55:ARG:HG2	48:DP:56:SER:H	1.22	1.04
3:AC:70:VAL:HG12	3:AC:72:LYS:H	1.20	1.04
35:DA:965:C:H5'	35:DA:2273:A:H1'	1.40	1.04
10:AJ:34:VAL:HG22	10:AJ:74:ILE:HG22	1.39	1.04
1:AA:1238:A:H5'	1:AA:1336:C:H41	1.19	1.04
38:DD:65:ILE:HG22	38:DD:104:TYR:HB3	1.40	1.04
52:BT:65:LYS:HE3	52:BT:66:VAL:H	1.21	1.04
52:BT:115:ARG:HB3	52:BT:115:ARG:HH11	1.23	1.04
23:CX:13:A:C3'	23:CX:14:A:H5''	1.87	1.03
57:DY:76:CYS:HB3	57:DY:96:ILE:HD11	1.40	1.03
22:AV:21:A:H61	22:AV:46:G:H2'	1.20	1.03
19:CS:50:ALA:HB1	19:CS:57:HIS:HB3	1.34	1.03
40:BF:167:ALA:HB1	40:BF:173:VAL:HG11	1.37	1.03
1:AA:1318:A:H1'	19:AS:37:ARG:HH21	1.18	1.03
24:AY:662:LYS:HZ1	42:BH:175:LYS:HE3	1.07	1.03
38:BD:65:ILE:HG22	38:BD:104:TYR:HB3	1.39	1.03
35:DA:2579:C:H4'	39:DE:134:ILE:HG12	1.40	1.03
10:CJ:34:VAL:HG22	10:CJ:74:ILE:HG22	1.40	1.03
41:BG:77:ILE:HG22	41:BG:80:PHE:N	1.73	1.03
35:BA:1899:G:N2	35:BA:1902:C:H41	1.55	1.03
25:B0:11:ARG:HB2	25:B0:11:ARG:HH11	1.18	1.03
44:BK:115:LEU:HD22	44:BK:126:MET:HE2	1.41	1.03
13:AM:27:LYS:HE2	13:AM:31:LYS:HE3	1.40	1.03
3:AC:16:ARG:HH11	3:AC:16:ARG:HB2	1.23	1.03
30:D5:44:THR:HG21	50:DR:101:ALA:HB2	1.41	1.03
1:CA:1003:G:H2'	1:CA:1004:A:H4'	1.37	1.03
5:AE:101:ILE:HD11	5:AE:119:LEU:HA	1.40	1.03
35:DA:1452:A:H3'	35:DA:1453:U:H5''	1.36	1.03
3:CC:70:VAL:HG12	3:CC:72:LYS:H	1.17	1.03
38:DD:71:ASP:HB2	38:DD:103:ARG:HH22	1.17	1.03
30:B5:2:ALA:HA	35:BA:2015:A:H1'	1.39	1.03
35:DA:1503:U:H2'	35:DA:1504:C:H6	1.14	1.02
26:D1:44:PRO:HG2	26:D1:46:LEU:HD21	1.41	1.02
24:CY:17:ILE:O	24:CY:85:PRO:HG2	1.60	1.02
24:AY:423:LYS:HB3	24:AY:472:VAL:HG22	1.41	1.02
40:DF:192:LEU:HD21	40:DF:194:MET:HG3	1.41	1.02
41:DG:38:VAL:HG23	41:DG:158:ALA:HB3	1.38	1.02
57:BY:76:CYS:SG	57:BY:77:PRO:HD2	1.98	1.02

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:BK:19:PRO:HB3	44:BK:34:ILE:HD12	1.40	1.02
52:DT:115:ARG:HH11	52:DT:115:ARG:HB3	1.24	1.02
44:DK:19:PRO:HB3	44:DK:34:ILE:HD12	1.41	1.02
30:D5:2:ALA:HA	35:DA:2015:A:H1'	1.39	1.02
24:CY:136:ALA:HB3	24:CY:260:LEU:HB3	1.37	1.02
37:DC:128:LEU:HD21	37:DC:132:LEU:HD11	1.41	1.02
57:BY:76:CYS:HB3	57:BY:96:ILE:HD11	1.43	1.01
1:CA:1238:A:H5'	1:CA:1336:C:H41	1.22	1.01
12:AL:18:VAL:HG23	12:AL:19:ARG:H	1.24	1.01
48:BP:41:ARG:HA	48:BP:41:ARG:HH21	1.25	1.01
30:B5:44:THR:HG21	50:BR:101:ALA:HB2	1.42	1.01
47:DO:111:PHE:HB3	47:DO:114:ILE:HD13	1.42	1.01
58:BZ:28:MET:HB3	58:BZ:88:PHE:HB2	1.42	1.01
24:CY:84:THR:H	24:CY:85:PRO:HD3	1.25	1.01
48:DP:41:ARG:HH21	48:DP:41:ARG:HA	1.25	1.01
40:DF:8:GLN:HB3	40:DF:126:VAL:HA	1.42	1.01
22:CV:47:U:H3'	22:CV:48:C:H5'	1.38	1.01
52:DT:28:VAL:HG21	52:DT:46:GLU:HG3	1.39	1.01
13:CM:124:PRO:HG2	24:CY:574:GLU:H	1.25	1.01
41:BG:133:LEU:HD11	41:BG:157:ILE:HD12	1.42	1.01
1:AA:979:C:C3'	1:AA:980:C:H5''	1.90	1.00
24:CY:33:LEU:HD23	24:CY:360:ALA:HB2	1.40	1.00
35:BA:2287:A:H62	35:BA:2344:U:H3	1.01	1.00
48:DP:16:ARG:HD3	48:DP:18:ARG:H	1.26	1.00
35:DA:2287:A:H62	35:DA:2344:U:H3	1.01	1.00
44:BK:4:VAL:HG12	44:BK:5:VAL:H	1.26	1.00
3:CC:58:GLU:H	3:CC:65:ALA:HB3	1.26	1.00
35:DA:154(A):C:H5''	35:DA:155:U:H5''	1.44	1.00
35:BA:1452:A:H3'	35:BA:1453:U:H5''	1.38	1.00
5:CE:101:ILE:HD11	5:CE:119:LEU:HA	1.43	1.00
1:AA:1128:C:H2'	1:AA:1129:C:H5''	1.42	1.00
2:AB:168:THR:HG23	2:AB:192:SER:HB3	1.38	1.00
1:CA:1057:G:H5''	3:CC:154:SER:HB2	1.42	1.00
44:DK:115:LEU:HD22	44:DK:126:MET:HE2	1.40	1.00
1:CA:1489:G:C2'	1:CA:1490:C:H5''	1.91	1.00
41:DG:68:PRO:HA	41:DG:92:VAL:CG1	1.92	1.00
24:AY:546:ILE:HG23	24:AY:590:ILE:HG13	1.40	1.00
2:CB:168:THR:HG23	2:CB:192:SER:HB3	1.40	1.00
35:DA:1301:A:O2'	35:DA:1302:A:H2'	1.62	1.00
35:BA:142:A:H1'	35:BA:1408:C:H1'	1.44	0.99
1:CA:979:C:C3'	1:CA:980:C:H5''	1.92	0.99
24:CY:153:MET:HA	24:CY:157:LEU:HD21	1.43	0.99

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:D0:27:GLU:CD	25:D0:27:GLU:H	1.64	0.99
40:BF:40:GLN:HE22	40:BF:182:ASN:HB2	1.19	0.99
38:BD:35:LYS:HD2	38:BD:36:PRO:N	1.77	0.99
52:DT:65:LYS:HE3	52:DT:66:VAL:H	1.24	0.99
31:B6:48:VAL:HG23	31:B6:49:HIS:H	1.27	0.99
52:BT:38:ASN:C	52:BT:38:ASN:HD22	1.65	0.99
35:BA:2523:G:H2'	35:BA:2524:G:H5''	1.44	0.99
54:BV:15:GLU:HB3	54:BV:16:PRO:HD2	1.42	0.99
46:DN:54:VAL:HB	46:DN:122:VAL:HG22	1.43	0.99
25:B0:27:GLU:H	25:B0:27:GLU:CD	1.64	0.99
40:DF:110:LEU:HD12	40:DF:206:ILE:HD11	1.43	0.99
5:AE:80:ILE:HG22	8:AH:104:ARG:NH2	1.78	0.99
58:DZ:115:GLY:H	58:DZ:177:PRO:HG3	1.25	0.99
35:DA:2286:A:H4'	35:DA:2287:A:H5'	1.45	0.99
52:DT:38:ASN:C	52:DT:38:ASN:HD22	1.65	0.99
18:AR:37:VAL:HG23	18:AR:38:GLU:H	1.27	0.99
5:AE:87:SER:HB3	5:AE:131:ILE:HD13	1.41	0.99
35:BA:2579:C:H4'	39:BE:134:ILE:HG12	1.44	0.99
40:BF:8:GLN:HB3	40:BF:126:VAL:HA	1.41	0.99
23:AX:13:A:C3'	23:AX:14:A:H5''	1.92	0.99
38:DD:44:ASN:HB3	38:DD:49:ILE:HA	1.44	0.99
35:BA:1452:A:H3'	35:BA:1453:U:C5'	1.92	0.98
35:BA:272(G):C:H2'	35:BA:272(H):C:H5''	1.44	0.98
24:CY:546:ILE:HG23	24:CY:590:ILE:HG13	1.39	0.98
35:DA:1452:A:H3'	35:DA:1453:U:C5'	1.92	0.98
48:BP:16:ARG:HD3	48:BP:18:ARG:H	1.28	0.98
1:CA:1321:C:H3'	1:CA:1322:C:H5''	1.45	0.98
58:DZ:179:ASP:HB3	58:DZ:182:LYS:HE2	1.45	0.98
12:AL:83:VAL:HG11	12:AL:100:ILE:HD13	1.44	0.98
12:CL:18:VAL:HG23	12:CL:19:ARG:H	1.26	0.98
1:CA:975:A:H4'	1:CA:976:G:H5''	1.45	0.98
35:DA:272(J):C:H3'	35:DA:274:G:H5''	1.44	0.98
38:BD:44:ASN:HB3	38:BD:49:ILE:HA	1.43	0.98
27:B2:3:LEU:HD22	27:B2:7:ARG:HH12	1.28	0.98
41:BG:59:GLU:HA	41:BG:62:LEU:HD13	1.43	0.98
35:DA:272(G):C:H2'	35:DA:272(H):C:H5''	1.43	0.98
40:BF:110:LEU:HD12	40:BF:206:ILE:HD11	1.46	0.98
52:BT:28:VAL:HG21	52:BT:46:GLU:HG3	1.43	0.98
24:AY:35:TYR:OH	24:AY:266:ASN:HB3	1.64	0.98
24:CY:84:THR:HA	61:CY:702:FUA:H322	1.46	0.98
38:DD:34:VAL:HG23	38:DD:35:LYS:H	1.28	0.98
38:BD:32:SER:O	38:BD:36:PRO:HG3	1.64	0.98

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:211:A:C2'	35:DA:212:G:H5''	1.93	0.97
58:BZ:166:SER:HB2	58:BZ:167:PRO:C	1.83	0.97
26:D1:76:ARG:HH22	26:D1:95:LEU:HD13	1.26	0.97
1:AA:975:A:H4'	1:AA:976:G:H5''	1.45	0.97
35:BA:1301:A:O2'	35:BA:1302:A:H2'	1.63	0.97
28:B3:31:LEU:HD13	28:B3:32:GLN:HG2	1.44	0.97
53:BU:20:LEU:H	53:BU:20:LEU:HD22	1.29	0.97
39:DE:38:THR:HG22	39:DE:40:GLU:H	1.25	0.97
35:DA:612:C:C2'	35:DA:613:G:H5''	1.94	0.97
35:BA:2262:U:H2'	35:BA:2263:C:H5'	1.46	0.97
44:DK:93:ARG:HB2	58:DZ:112:ARG:HE	1.25	0.97
47:BO:111:PHE:HB3	47:BO:114:ILE:HD13	1.46	0.97
35:DA:1803:A:O3'	38:DD:259:THR:HG21	1.64	0.97
24:AY:276:VAL:HA	24:AY:280:LEU:HD23	1.44	0.97
33:B8:33:ASN:H	33:B8:33:ASN:ND2	1.61	0.97
31:D6:48:VAL:HG23	31:D6:49:HIS:H	1.30	0.97
24:AY:428:LEU:HD13	24:AY:440:VAL:HG11	1.42	0.97
46:BN:48:MET:H	46:BN:48:MET:HE2	1.25	0.97
35:BA:154(A):C:H5''	35:BA:155:U:H5''	1.45	0.97
28:D3:31:LEU:HD13	28:D3:32:GLN:HG2	1.44	0.97
35:BA:2286:A:H4'	35:BA:2287:A:H5'	1.44	0.97
22:CW:21:U:O2'	35:DA:2112:G:H1'	1.64	0.97
35:BA:211:A:C2'	35:BA:212:G:H5''	1.94	0.97
35:BA:1814:G:H3'	35:BA:1815:A:H5''	1.46	0.97
3:AC:58:GLU:H	3:AC:65:ALA:HB3	1.28	0.97
24:AY:427:ALA:HB1	24:AY:466:LEU:HD11	1.44	0.97
22:AV:46:G:H4'	22:AV:47:U:H5	1.25	0.97
28:D3:17:LYS:HG2	35:DA:969:U:OP1	1.65	0.97
18:CR:37:VAL:HG23	18:CR:38:GLU:H	1.25	0.97
3:AC:52:LEU:HD23	3:AC:52:LEU:H	1.30	0.97
24:AY:84:THR:H	24:AY:85:PRO:HD2	1.27	0.96
35:DA:2523:G:H2'	35:DA:2524:G:H5''	1.44	0.96
39:DE:117:MET:HA	39:DE:122:PHE:H	1.30	0.96
3:CC:16:ARG:HB2	3:CC:16:ARG:HH11	1.26	0.96
27:D2:16:LEU:HB3	27:D2:20:GLU:HG2	1.45	0.96
1:CA:686:U:HO2'	1:CA:687:A:H8	0.97	0.96
1:CA:1128:C:H2'	1:CA:1129:C:H5''	1.43	0.96
51:DS:15:ARG:HB3	51:DS:18:ILE:HD11	1.47	0.96
24:AY:409:ILE:HD11	24:AY:654:GLY:HA2	1.44	0.96
1:AA:129(A):G:O2'	1:AA:189(F):U:H2'	1.66	0.96
47:DO:17:ARG:HE	47:DO:47:ILE:HD11	1.30	0.96
35:DA:27:G:H22	35:DA:512:G:H2'	1.29	0.96

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:DD:32:SER:O	38:DD:36:PRO:HG3	1.66	0.96
5:CE:50:GLU:HG3	5:CE:52:PRO:HD2	1.46	0.96
39:BE:38:THR:HG22	39:BE:40:GLU:H	1.25	0.96
25:B0:7:LEU:HD12	49:BQ:85:LYS:HE2	1.47	0.96
1:AA:1057:G:H5''	3:AC:154:SER:HB2	1.44	0.96
44:DK:99:ILE:HG23	44:DK:103:GLN:HB2	1.47	0.96
40:DF:3:GLU:CA	40:DF:24:LEU:HG	1.95	0.96
24:AY:453:GLY:HA3	24:AY:459:LEU:HD11	1.46	0.96
35:BA:27:G:H22	35:BA:512:G:H2'	1.30	0.96
35:DA:240:G:H3'	35:DA:241:A:H5''	1.45	0.96
51:DS:28:VAL:HG12	51:DS:29:PHE:H	1.31	0.96
35:BA:612:C:C2'	35:BA:613:G:H5''	1.95	0.96
38:DD:35:LYS:HD2	38:DD:36:PRO:N	1.81	0.96
4:CD:129:ASN:HD21	4:CD:145:GLU:H	1.13	0.96
35:BA:272(J):C:H3'	35:BA:274:G:H5''	1.45	0.95
35:DA:2584:U:H2'	35:DA:2585:U:H5'	1.48	0.95
48:DP:30:THR:HG22	48:DP:31:ALA:H	1.30	0.95
28:B3:16:PRO:HB2	28:B3:18:ASP:OD1	1.65	0.95
22:CV:17:C:H5''	22:CV:17(A):U:H6	1.30	0.95
1:AA:1321:C:H3'	1:AA:1322:C:H5''	1.45	0.95
2:CB:118:LEU:HB3	2:CB:142:LEU:HD12	1.47	0.95
48:DP:59:LEU:HA	48:DP:61:ARG:NE	1.81	0.95
48:BP:38:GLN:HG3	48:BP:39:LYS:H	1.31	0.95
38:BD:34:VAL:HG23	38:BD:35:LYS:H	1.30	0.95
41:BG:135:LEU:HD11	41:BG:155:MET:HG2	1.46	0.95
33:D8:61:LEU:HD12	33:D8:62:LEU:H	1.31	0.95
35:DA:142:A:H1'	35:DA:1408:C:H1'	1.45	0.95
46:BN:46:VAL:HG13	46:BN:47:ALA:H	1.30	0.95
1:CA:1452:C:H1'	1:CA:1456:G:N2	1.81	0.95
26:B1:86:SER:HB3	26:B1:89:GLU:HB2	1.46	0.95
26:B1:81:LYS:HE2	35:BA:271(H):G:H4'	1.48	0.95
26:D1:46:LEU:HD22	26:D1:46:LEU:H	1.30	0.95
48:BP:59:LEU:HA	48:BP:61:ARG:NE	1.80	0.95
46:DN:48:MET:H	46:DN:48:MET:HE2	1.27	0.95
35:BA:1884:A:H2'	35:BA:1885:A:H5''	1.48	0.95
35:DA:1884:A:H2'	35:DA:1885:A:H5''	1.47	0.95
46:BN:54:VAL:HB	46:BN:122:VAL:HG22	1.46	0.95
24:CY:388:THR:HG21	24:CY:399:LEU:HD13	1.49	0.95
35:DA:2310:A:O2'	35:DA:2311:A:H5'	1.67	0.95
35:BA:2584:U:H2'	35:BA:2585:U:H5'	1.47	0.95
48:BP:30:THR:HG22	48:BP:31:ALA:H	1.30	0.95
48:DP:38:GLN:HG3	48:DP:39:LYS:H	1.27	0.95

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:D2:69:ARG:HH22	35:DA:111:A:H5''	1.32	0.95
1:AA:1489:G:H2'	1:AA:1490:C:H5''	1.47	0.95
28:D3:16:PRO:HB2	28:D3:18:ASP:OD1	1.67	0.95
35:DA:2572:A:H5'	35:DA:2574:G:H4'	1.49	0.95
1:AA:80:G:H3'	1:AA:81:U:H5'	1.48	0.95
40:BF:84:VAL:HG12	40:BF:85:GLY:N	1.82	0.95
48:DP:85:LEU:HD12	48:DP:120:ALA:HB2	1.49	0.95
1:AA:1502:A:H2	1:AA:1505:G:H1	0.98	0.95
40:BF:192:LEU:HD21	40:BF:194:MET:HG3	1.44	0.94
40:BF:34:TRP:HB2	48:BP:10:PRO:HB2	1.46	0.94
38:DD:35:LYS:HG2	38:DD:63:ARG:HA	1.49	0.94
53:DU:20:LEU:H	53:DU:20:LEU:HD22	1.31	0.94
50:BR:99:LYS:HD3	50:BR:99:LYS:N	1.83	0.94
50:DR:99:LYS:HD3	50:DR:99:LYS:N	1.82	0.94
51:BS:34:HIS:HB3	51:BS:53:SER:HB3	1.49	0.94
35:BA:1803:A:O3'	38:BD:259:THR:HG21	1.67	0.94
6:AF:37:VAL:HG12	6:AF:38:GLU:H	1.32	0.94
35:DA:813:U:H2'	35:DA:814:C:C6	2.02	0.94
35:BA:1503:U:H2'	35:BA:1504:C:C6	2.02	0.94
33:D8:33:ASN:H	33:D8:33:ASN:HD22	0.97	0.94
44:DK:106:GLU:HA	44:DK:109:LYS:HD3	1.50	0.94
6:CF:37:VAL:HG12	6:CF:38:GLU:H	1.29	0.94
33:B8:61:LEU:HD12	33:B8:62:LEU:H	1.32	0.94
54:DV:15:GLU:HB3	54:DV:16:PRO:HD2	1.45	0.94
35:DA:2133:G:H2'	35:DA:2157:G:N2	1.83	0.94
1:AA:1128:C:C2'	1:AA:1129:C:H5''	1.98	0.94
39:BE:116:VAL:O	39:BE:117:MET:HB3	1.63	0.94
11:AK:54:ARG:O	11:AK:57:THR:HG22	1.68	0.94
1:CA:129(A):G:O2'	1:CA:189(F):U:H2'	1.67	0.94
35:BA:1038:C:H3'	35:BA:1039:G:H5''	1.50	0.94
35:BA:240:G:H3'	35:BA:241:A:H5''	1.49	0.94
35:DA:1038:C:H3'	35:DA:1039:G:H5''	1.49	0.94
35:DA:1503:U:H2'	35:DA:1504:C:C6	2.01	0.94
48:BP:85:LEU:HD12	48:BP:120:ALA:HB2	1.48	0.94
36:BB:7:G:H2'	36:BB:8:U:H5''	1.49	0.94
48:DP:7:ARG:HB3	48:DP:8:PRO:HD3	1.50	0.94
56:DX:12:VAL:HG23	56:DX:13:LEU:N	1.81	0.94
39:DE:116:VAL:O	39:DE:117:MET:HB3	1.67	0.94
2:CB:44:LEU:H	2:CB:44:LEU:HD12	1.31	0.94
20:AT:13:LEU:HD12	20:AT:13:LEU:H	1.33	0.94
35:BA:2310:A:O2'	35:BA:2311:A:H5'	1.68	0.94
26:B1:46:LEU:HB3	26:B1:63:ALA:HA	1.46	0.94

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
58:DZ:7:ALA:HB3	58:DZ:61:LEU:HD23	1.50	0.93
51:BS:28:VAL:HG12	51:BS:29:PHE:H	1.31	0.93
35:DA:1814:G:H3'	35:DA:1815:A:H5''	1.48	0.93
30:D5:56:LYS:HG3	30:D5:57:VAL:H	1.33	0.93
1:AA:686:U:HO2'	1:AA:687:A:H8	0.98	0.93
44:BK:6:ALA:HB3	44:BK:59:ILE:HG22	1.47	0.93
17:AQ:69:LYS:O	17:AQ:70:ARG:HD2	1.68	0.93
1:CA:1128:C:C2'	1:CA:1129:C:H5''	1.98	0.93
58:DZ:29:TYR:HB3	58:DZ:34:ASN:HB2	1.50	0.93
41:DG:60:LEU:HA	41:DG:63:ILE:HD11	1.50	0.93
52:DT:28:VAL:HG22	52:DT:46:GLU:HA	1.48	0.93
46:DN:46:VAL:HG13	46:DN:47:ALA:H	1.31	0.93
35:DA:871:U:OP1	49:DQ:5:ARG:HG3	1.69	0.93
26:D1:23:LYS:HE2	26:D1:28:GLY:HA3	1.49	0.93
44:BK:99:ILE:HG23	44:BK:103:GLN:HB2	1.48	0.93
38:BD:35:LYS:HG2	38:BD:63:ARG:HA	1.49	0.93
51:BS:15:ARG:HB3	51:BS:18:ILE:HD11	1.50	0.93
3:CC:52:LEU:HD23	3:CC:52:LEU:H	1.34	0.93
56:DX:35:THR:HG22	56:DX:37:THR:H	1.33	0.93
35:DA:2756:U:H4'	35:DA:2757:A:OP1	1.68	0.93
3:AC:20:SER:HB3	3:AC:40:ARG:HH22	1.33	0.93
40:BF:3:GLU:CA	40:BF:24:LEU:HG	1.96	0.93
35:BA:2133:G:H2'	35:BA:2157:G:N2	1.82	0.93
46:BN:45:ASN:HD22	46:BN:45:ASN:H	1.12	0.93
41:DG:133:LEU:HD12	41:DG:157:ILE:HB	1.49	0.93
2:AB:118:LEU:HB3	2:AB:142:LEU:HD12	1.49	0.93
35:BA:2811:G:OP1	39:BE:60:ASN:HB2	1.69	0.93
48:BP:55:ARG:HG2	48:BP:56:SER:N	1.79	0.93
3:CC:70:VAL:HG12	3:CC:71:ALA:H	1.33	0.93
35:DA:2811:G:OP1	39:DE:60:ASN:HB2	1.68	0.93
12:CL:83:VAL:HG11	12:CL:100:ILE:HD13	1.47	0.93
35:DA:1899:G:H22	35:DA:1902:C:N4	1.66	0.93
13:CM:49:THR:HG22	13:CM:51:ALA:H	1.34	0.93
57:DY:8:LYS:HB2	57:DY:28:LYS:NZ	1.83	0.93
38:BD:263:ARG:CB	38:BD:263:ARG:HH11	1.80	0.93
57:BY:8:LYS:HB2	57:BY:28:LYS:NZ	1.84	0.93
41:DG:63:ILE:HA	41:DG:143:GLU:HG3	1.51	0.93
44:BK:106:GLU:HA	44:BK:109:LYS:HD3	1.49	0.93
3:CC:79:ARG:HB2	3:CC:79:ARG:HH11	1.32	0.93
33:D8:56:GLU:HA	33:D8:59:LYS:NZ	1.83	0.93
24:CY:157:LEU:HD23	24:CY:157:LEU:H	1.32	0.93
35:BA:2756:U:H4'	35:BA:2757:A:OP1	1.66	0.93

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
19:AS:42:PRO:HB3	29:B4:50:VAL:HG21	1.51	0.93
52:BT:28:VAL:HG22	52:BT:46:GLU:HA	1.50	0.93
39:BE:111:ARG:HA	50:BR:2:ARG:HB3	1.50	0.93
28:B3:17:LYS:HG2	35:BA:969:U:OP1	1.68	0.93
40:DF:34:TRP:HB2	48:DP:10:PRO:HB2	1.49	0.92
35:DA:1845:G:C2'	35:DA:1846:G:H5''	1.99	0.92
38:DD:70:TRP:CH2	38:DD:150:LYS:HA	2.04	0.92
40:DF:84:VAL:HG12	40:DF:85:GLY:N	1.82	0.92
35:BA:2245:U:H5'	35:BA:2246:G:H5'	1.51	0.92
35:DA:1494:A:O2'	35:DA:1495:A:H5''	1.67	0.92
48:BP:7:ARG:HB3	48:BP:8:PRO:HD3	1.50	0.92
35:BA:1899:G:H22	35:BA:1902:C:N4	1.67	0.92
4:CD:129:ASN:ND2	4:CD:145:GLU:H	1.66	0.92
48:BP:146:VAL:HG22	48:BP:147:LEU:H	1.33	0.92
56:BX:12:VAL:HG23	56:BX:13:LEU:N	1.81	0.92
24:CY:632:LEU:HG	24:CY:645:ALA:HA	1.51	0.92
35:BA:2572:A:H5'	35:BA:2574:G:H4'	1.47	0.92
18:AR:29:PHE:HD2	18:AR:29:PHE:H	1.18	0.92
28:D3:8:LEU:HD22	28:D3:31:LEU:HD23	1.50	0.92
48:DP:126:VAL:HA	48:DP:145:PRO:HB2	1.52	0.92
48:DP:146:VAL:HG22	48:DP:147:LEU:H	1.31	0.92
35:DA:358:U:H2'	35:DA:359:A:H8	1.35	0.92
35:BA:903:C:C2'	35:BA:904:C:H5''	1.99	0.92
39:DE:107:THR:O	39:DE:190:GLY:HA2	1.67	0.92
35:DA:2591:C:H2'	35:DA:2592:G:C8	2.05	0.92
11:AK:111:ASP:HA	18:AR:84:LYS:HD2	1.50	0.92
1:AA:1054:C:O2'	1:AA:1055:A:H5''	1.70	0.92
1:CA:973:G:H1'	10:CJ:55:LYS:NZ	1.83	0.92
56:BX:12:VAL:CG2	56:BX:13:LEU:H	1.83	0.92
3:AC:70:VAL:HG12	3:AC:71:ALA:H	1.31	0.92
35:BA:2591:C:H2'	35:BA:2592:G:C8	2.05	0.92
24:AY:415:PRO:HA	24:AY:474:ALA:HB2	1.50	0.92
35:BA:1845:G:C2'	35:BA:1846:G:H5''	1.99	0.92
52:BT:27:THR:O	52:BT:28:VAL:HG23	1.68	0.92
39:DE:47:VAL:HG12	39:DE:48:GLN:H	1.32	0.92
13:AM:49:THR:HG22	13:AM:51:ALA:H	1.33	0.92
25:D0:7:LEU:HD12	49:DQ:85:LYS:HE2	1.47	0.92
35:DA:1348:G:H2'	35:DA:1349:A:H5''	1.52	0.92
35:BA:1494:A:O2'	35:BA:1495:A:H5''	1.69	0.92
35:DA:903:C:C2'	35:DA:904:C:H5''	1.99	0.92
58:DZ:151:HIS:HA	58:DZ:171:ILE:HG23	1.49	0.92
26:D1:76:ARG:HH12	26:D1:95:LEU:HD22	1.33	0.92

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BE:117:MET:HA	39:BE:122:PHE:H	1.35	0.92
35:DA:2262:U:H2'	35:DA:2263:C:H5'	1.49	0.92
39:BE:47:VAL:HG12	39:BE:48:GLN:H	1.33	0.92
35:BA:1142(A):A:C2'	35:BA:1143:A:H5''	1.99	0.92
39:BE:33:VAL:HG12	39:BE:90:THR:H	1.35	0.92
47:BO:17:ARG:HE	47:BO:47:ILE:HD11	1.30	0.92
3:AC:79:ARG:HB2	3:AC:79:ARG:HH11	1.32	0.92
1:AA:1452:C:H1'	1:AA:1456:G:N2	1.84	0.91
11:CK:54:ARG:O	11:CK:57:THR:HG22	1.68	0.91
1:CA:1054:C:O2'	1:CA:1055:A:H5''	1.69	0.91
41:DG:121:ASN:HB3	41:DG:124:SER:HB2	1.52	0.91
2:AB:165:VAL:HG23	2:AB:166:ASP:H	1.33	0.91
35:BA:1043:C:C2'	35:BA:1044:G:H5''	1.99	0.91
33:B8:33:ASN:H	33:B8:33:ASN:HD22	0.99	0.91
33:B8:56:GLU:HA	33:B8:59:LYS:NZ	1.83	0.91
26:B1:80:LEU:HD23	26:B1:81:LYS:H	1.35	0.91
2:CB:204:ASN:ND2	2:CB:206:ASP:H	1.67	0.91
35:BA:2296:U:H4'	35:BA:2297:C:OP1	1.70	0.91
35:DA:1203:G:H4'	48:DP:7:ARG:HD2	1.49	0.91
54:DV:51:VAL:HG12	54:DV:52:VAL:H	1.34	0.91
24:AY:9:LEU:HD21	24:AY:284:LEU:HB2	1.49	0.91
54:BV:51:VAL:HG12	54:BV:52:VAL:H	1.34	0.91
36:DB:7:G:H2'	36:DB:8:U:H5''	1.52	0.91
51:DS:24:LEU:HB3	51:DS:85:VAL:HG12	1.52	0.91
35:DA:2138:C:H2'	35:DA:2139:C:H6	1.33	0.91
38:BD:70:TRP:CH2	38:BD:150:LYS:HA	2.05	0.91
35:BA:2712:U:O2'	35:BA:2712(A):A:H8	1.53	0.91
1:CA:80:G:H3'	1:CA:81:U:H5'	1.48	0.91
31:D6:8:LYS:HE3	31:D6:25:LYS:HD3	1.50	0.91
35:BA:1020:A:N1	35:BA:1141:U:H2'	1.86	0.91
26:B1:76:ARG:HH12	26:B1:95:LEU:HD22	1.33	0.91
52:DT:23:ARG:HG2	52:DT:120:ARG:HH12	1.33	0.91
24:AY:513:LYS:HB2	24:AY:566:THR:HB	1.52	0.91
24:AY:238:THR:HG22	24:AY:241:GLU:HG2	1.50	0.91
53:DU:90:VAL:HG21	54:DV:47:VAL:HG21	1.50	0.91
44:DK:77:LEU:HD12	44:DK:107:ILE:HG23	1.52	0.91
10:AJ:55:LYS:H	10:AJ:55:LYS:CE	1.83	0.91
42:BH:157:TYR:HE1	42:BH:171:LEU:HD21	1.34	0.91
56:DX:12:VAL:CG2	56:DX:13:LEU:H	1.82	0.91
1:CA:1356:G:H2'	1:CA:1357:A:C8	2.06	0.91
35:DA:2296:U:H4'	35:DA:2297:C:OP1	1.68	0.91
35:BA:2138:C:H2'	35:BA:2139:C:H6	1.33	0.91

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
56:BX:35:THR:HG22	56:BX:37:THR:H	1.36	0.91
35:DA:1142(A):A:C2'	35:DA:1143:A:H5''	2.00	0.91
46:BN:133:GLN:HG2	46:BN:135:PRO:HD3	1.52	0.91
1:AA:483:C:H3'	1:AA:484:G:H5''	1.52	0.91
35:DA:2110:G:O2'	35:DA:2120:G:H5'	1.71	0.91
1:CA:1251:A:H2'	1:CA:1252:A:C8	2.05	0.91
52:DT:23:ARG:O	52:DT:25:GLY:N	2.04	0.91
41:DG:34:LEU:HD22	41:DG:99:MET:HE3	1.52	0.91
42:DH:157:TYR:HE1	42:DH:171:LEU:HD21	1.35	0.91
38:DD:263:ARG:CB	38:DD:263:ARG:HH11	1.82	0.91
44:BK:77:LEU:HD12	44:BK:107:ILE:HG23	1.53	0.91
31:B6:8:LYS:HE3	31:B6:25:LYS:HD3	1.51	0.91
35:DA:1452:A:C3'	35:DA:1453:U:H5''	2.01	0.91
24:CY:181:LEU:HD21	24:CY:243:VAL:HG22	1.51	0.91
52:DT:27:THR:O	52:DT:28:VAL:HG23	1.71	0.91
58:DZ:20:ARG:HH11	58:DZ:20:ARG:HB2	1.33	0.91
30:B5:56:LYS:HG3	30:B5:57:VAL:H	1.33	0.91
39:BE:107:THR:O	39:BE:190:GLY:HA2	1.71	0.91
35:DA:1846:G:H8	35:DA:1846:G:H5'	1.33	0.90
1:AA:973:G:H1'	10:AJ:55:LYS:NZ	1.85	0.90
52:BT:23:ARG:HG2	52:BT:120:ARG:HH12	1.34	0.90
35:BA:871:U:OP1	49:BQ:5:ARG:HG3	1.70	0.90
27:B2:41:ILE:HD11	27:B2:44:LEU:HD12	1.54	0.90
56:BX:24:GLY:O	56:BX:82:GLN:HA	1.72	0.90
40:DF:170:LEU:HB2	40:DF:173:VAL:HB	1.52	0.90
48:DP:39:LYS:HE2	48:DP:40:SER:H	1.37	0.90
26:B1:86:SER:O	26:B1:90:ILE:HG12	1.71	0.90
35:DA:2712:U:O2'	35:DA:2712(A):A:H8	1.54	0.90
58:DZ:151:HIS:HB3	58:DZ:170:THR:HA	1.54	0.90
30:B5:4:HIS:HB3	30:B5:5:PRO:HD3	1.50	0.90
37:DC:128:LEU:HD21	37:DC:132:LEU:CD1	2.00	0.90
1:CA:939:G:H5''	7:CG:102:ARG:NH2	1.86	0.90
35:BA:1846:G:H5'	35:BA:1846:G:H8	1.34	0.90
48:BP:126:VAL:HA	48:BP:145:PRO:HB2	1.52	0.90
19:AS:41:VAL:HG21	19:AS:44:MET:HB2	1.53	0.90
53:BU:90:VAL:HG21	54:BV:47:VAL:HG21	1.49	0.90
46:DN:133:GLN:HG2	46:DN:135:PRO:HD3	1.52	0.90
1:AA:1502:A:H2	1:AA:1505:G:N1	1.70	0.90
51:DS:34:HIS:HB3	51:DS:53:SER:HB3	1.51	0.90
35:DA:2189:U:H2'	35:DA:2190:G:H5''	1.54	0.90
50:DR:100:LEU:HD22	50:DR:100:LEU:H	1.37	0.90
1:CA:979:C:H3'	1:CA:980:C:C5'	2.01	0.90

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
26:B1:45:ASN:HB2	35:BA:2230:G:H1'	1.54	0.90
35:DA:1020:A:N1	35:DA:1141:U:H2'	1.86	0.90
35:BA:654(M):C:HO2'	35:BA:654(N):G:H8	0.94	0.90
20:CT:23:ARG:O	20:CT:27:LYS:HB2	1.72	0.90
50:DR:45:ARG:HG3	50:DR:46:GLY:H	1.35	0.90
3:AC:90:GLU:O	3:AC:93:LYS:HB3	1.72	0.90
35:DA:1070:A:H5'	35:DA:1072:C:OP2	1.71	0.90
35:DA:996:A:H4'	53:DU:92:ARG:NE	1.87	0.90
1:AA:979:C:H3'	1:AA:980:C:C5'	2.00	0.90
50:BR:38:VAL:HB	50:BR:39:PRO:HD3	1.53	0.90
35:DA:1043:C:C2'	35:DA:1044:G:H5''	2.00	0.90
24:AY:113:GLY:C	24:AY:115:GLU:H	1.75	0.90
35:BA:2523:G:C2'	35:BA:2524:G:H5''	2.02	0.90
54:DV:18:LEU:HD22	54:DV:19:LYS:H	1.35	0.90
44:BK:7:VAL:HG13	44:BK:7:VAL:O	1.72	0.90
35:BA:1203:G:H4'	48:BP:7:ARG:HD2	1.51	0.90
1:AA:720:C:H3'	1:AA:721:G:H5''	1.51	0.90
10:AJ:50:ILE:H	10:AJ:50:ILE:HD13	1.34	0.90
35:DA:2723:C:H5''	50:DR:2:ARG:HH11	1.36	0.90
35:BA:614(A):U:H4'	35:BA:614(B):G:H5''	1.54	0.90
24:CY:670:VAL:HG23	24:CY:671:MET:N	1.82	0.89
35:DA:1899:G:N2	35:DA:1902:C:N4	2.18	0.89
39:DE:38:THR:HB	39:DE:41:LYS:HG2	1.54	0.89
22:CW:51:U:H3	22:CW:65:G:H1	1.16	0.89
35:BA:2444:G:OP2	40:BF:68:LYS:HE2	1.72	0.89
11:CK:111:ASP:HA	18:CR:84:LYS:HD2	1.50	0.89
52:BT:125:ARG:HH11	52:BT:125:ARG:HA	1.34	0.89
24:AY:84:THR:H	24:AY:85:PRO:CD	1.84	0.89
35:BA:1899:G:N2	35:BA:1902:C:N4	2.19	0.89
1:CA:720:C:H3'	1:CA:721:G:H5''	1.55	0.89
54:DV:28:GLU:HB2	54:DV:31:ALA:HB2	1.53	0.89
37:BC:118:PRO:HA	37:BC:121:MET:HG3	1.50	0.89
3:CC:90:GLU:O	3:CC:93:LYS:HB3	1.72	0.89
35:DA:2308:G:N7	35:DA:2310:A:H5'	1.87	0.89
35:BA:358:U:H2'	35:BA:359:A:H8	1.36	0.89
38:BD:183:ARG:HG2	38:BD:183:ARG:HH11	1.37	0.89
20:AT:23:ARG:O	20:AT:27:LYS:HB2	1.70	0.89
20:CT:13:LEU:H	20:CT:13:LEU:HD12	1.36	0.89
18:CR:29:PHE:H	18:CR:29:PHE:HD2	1.18	0.89
33:D8:33:ASN:H	33:D8:33:ASN:ND2	1.60	0.89
35:BA:813:U:H2'	35:BA:814:C:C6	2.07	0.89
39:DE:111:ARG:HA	50:DR:2:ARG:HB3	1.52	0.89

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:192:C:H2'	35:BA:193:U:H5'	1.55	0.89
35:BA:1348:G:H2'	35:BA:1349:A:H5''	1.52	0.89
54:BV:28:GLU:HB2	54:BV:31:ALA:HB2	1.54	0.89
13:AM:96:LEU:HB3	13:AM:97:PRO:HD2	1.52	0.89
4:AD:129:ASN:ND2	4:AD:145:GLU:H	1.70	0.89
55:DW:5:ALA:HB2	55:DW:54:ALA:HB2	1.54	0.89
54:BV:18:LEU:HD22	54:BV:19:LYS:H	1.38	0.89
3:AC:50:ALA:HB1	3:AC:70:VAL:HG11	1.54	0.89
35:BA:2308:G:N7	35:BA:2310:A:H5'	1.88	0.89
2:AB:204:ASN:ND2	2:AB:206:ASP:H	1.71	0.89
37:BC:118:PRO:CA	37:BC:121:MET:HG2	2.03	0.89
3:AC:16:ARG:NH1	3:AC:16:ARG:HB2	1.87	0.89
24:AY:355:LEU:HD12	24:AY:369:LEU:HD13	1.52	0.89
5:AE:50:GLU:HG3	5:AE:52:PRO:HD2	1.52	0.89
52:DT:125:ARG:HA	52:DT:125:ARG:HH11	1.37	0.89
1:AA:1356:G:H2'	1:AA:1357:A:C8	2.08	0.89
41:DG:138:GLN:OE1	41:DG:153:ARG:HG2	1.72	0.89
22:AV:20:U:H3'	22:AV:21:A:H5'	1.55	0.89
28:B3:8:LEU:HD22	28:B3:31:LEU:HD23	1.53	0.89
35:DA:2523:G:C2'	35:DA:2524:G:H5''	2.03	0.89
2:CB:223:ILE:HG12	2:CB:226:ARG:NH2	1.88	0.89
27:D2:4:SER:HA	27:D2:7:ARG:HH12	1.35	0.89
35:DA:1876:A:H2'	35:DA:1877:A:H8	1.36	0.89
35:BA:2110:G:O2'	35:BA:2120:G:H5'	1.71	0.89
52:BT:85:LYS:NZ	52:BT:85:LYS:HB3	1.87	0.89
35:BA:1876:A:H2'	35:BA:1877:A:H8	1.36	0.89
40:BF:170:LEU:HB2	40:BF:173:VAL:HB	1.53	0.88
24:CY:201:ILE:H	24:CY:201:ILE:HD12	1.37	0.88
49:DQ:56:ARG:HH21	58:DZ:180:VAL:HG21	1.37	0.88
10:CJ:55:LYS:CE	10:CJ:55:LYS:H	1.85	0.88
54:DV:62:LEU:HD21	54:DV:95:LEU:HB2	1.55	0.88
10:CJ:50:ILE:HD13	10:CJ:50:ILE:H	1.34	0.88
2:AB:223:ILE:HG12	2:AB:226:ARG:NH2	1.88	0.88
50:BR:45:ARG:HG3	50:BR:46:GLY:H	1.36	0.88
42:BH:157:TYR:CD1	42:BH:171:LEU:HD22	2.08	0.88
51:BS:24:LEU:HB3	51:BS:85:VAL:HG12	1.52	0.88
4:AD:129:ASN:HD21	4:AD:145:GLU:H	1.16	0.88
35:BA:2189:U:H2'	35:BA:2190:G:H5''	1.55	0.88
47:BO:69:ILE:HD13	47:BO:77:ILE:HG23	1.52	0.88
5:CE:9:LYS:HB2	5:CE:112:LEU:HD11	1.55	0.88
58:BZ:23:LYS:HD3	58:BZ:38:TYR:HE1	1.36	0.88
46:DN:45:ASN:HD22	46:DN:45:ASN:H	1.15	0.88

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2317:C:H2'	35:BA:2318:G:H5'	1.54	0.88
2:AB:42:ILE:HD11	2:AB:202:PRO:HB2	1.54	0.88
35:BA:2796:U:H3'	35:BA:2799:C:H5'	1.55	0.88
22:CV:49:G:H1	22:CV:65:C:H42	1.18	0.88
42:DH:157:TYR:CD1	42:DH:171:LEU:HD22	2.07	0.88
23:CX:13:A:H3'	23:CX:14:A:H5''	0.92	0.88
33:B8:13:ARG:NH1	48:BP:59:LEU:HG	1.89	0.88
39:DE:33:VAL:HG12	39:DE:90:THR:H	1.34	0.88
35:BA:1658:C:H2'	35:BA:1659:U:C6	2.08	0.88
35:BA:1658:C:H2'	35:BA:1659:U:H6	1.37	0.88
19:CS:41:VAL:HG21	19:CS:44:MET:HB2	1.55	0.88
22:CV:39:C:H2'	22:CV:40:C:H6	1.39	0.88
1:AA:939:G:H5''	7:AG:102:ARG:NH2	1.88	0.88
56:DX:24:GLY:O	56:DX:82:GLN:HA	1.72	0.88
33:D8:50:LEU:HD12	33:D8:51:ALA:H	1.39	0.88
2:CB:165:VAL:HG23	2:CB:166:ASP:H	1.37	0.88
1:AA:80:G:H3'	1:AA:81:U:C5'	2.03	0.88
48:BP:85:LEU:HD23	48:BP:85:LEU:H	1.38	0.88
35:BA:2723:C:H5''	50:BR:2:ARG:HH11	1.37	0.88
2:AB:44:LEU:HD12	2:AB:44:LEU:H	1.36	0.88
35:BA:1947:C:C2'	35:BA:1948:G:H5''	2.04	0.88
13:AM:69:GLU:HG2	29:B4:43:TYR:OH	1.74	0.88
35:DA:2245:U:H5'	35:DA:2246:G:H5'	1.53	0.88
31:B6:10:LEU:CD2	31:B6:10:LEU:H	1.86	0.88
22:AW:31:G:H2'	22:AW:32:G:H8	1.36	0.88
1:CA:1323:G:H2'	1:CA:1324:A:C8	2.09	0.88
35:DA:2645:G:H3'	35:DA:2646:C:C5'	2.03	0.88
27:B2:3:LEU:HD22	27:B2:7:ARG:NH1	1.88	0.88
58:DZ:156:LYS:O	58:DZ:158:PRO:HD3	1.73	0.88
41:BG:97:ASP:H	41:BG:100:TRP:HD1	1.16	0.88
24:AY:170:ARG:O	24:AY:171:GLU:HG2	1.74	0.88
35:BA:996:A:H4'	53:BU:92:ARG:NE	1.87	0.88
41:DG:55:LYS:HD3	41:DG:56:ALA:N	1.88	0.88
27:D2:25:VAL:HG22	27:D2:60:LEU:HD13	1.55	0.88
30:B5:34:PRO:O	30:B5:35:GLU:HB2	1.74	0.88
35:BA:1070:A:H5'	35:BA:1072:C:OP2	1.73	0.88
35:DA:2761:G:H2'	35:DA:2762:G:H5''	1.53	0.88
54:BV:62:LEU:HD21	54:BV:95:LEU:HB2	1.54	0.88
13:CM:97:PRO:HA	13:CM:110:ARG:HD3	1.56	0.88
24:AY:662:LYS:NZ	42:BH:175:LYS:CE	2.36	0.88
1:CA:1221:G:H4'	19:CS:77:THR:HG21	1.56	0.88
35:BA:2761:G:H2'	35:BA:2762:G:H5''	1.54	0.88

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:CB:172:ILE:H	2:CB:172:ILE:HD12	1.38	0.88
40:BF:181:LEU:HB3	40:BF:205:ARG:NH1	1.89	0.88
39:BE:38:THR:HB	39:BE:41:LYS:HG2	1.56	0.88
35:BA:2742:C:O2'	35:BA:2743:C:H5'	1.73	0.88
20:AT:45:GLN:HB2	20:AT:91:LEU:HD13	1.56	0.88
24:AY:488:THR:O	24:AY:516:PRO:HG3	1.74	0.87
35:DA:1782:C:H1'	35:DA:2609:U:H5'	1.57	0.87
35:DA:2807:G:H3'	35:DA:2808:U:H5''	1.57	0.87
12:CL:79:GLU:HB2	24:CY:442:THR:HG21	1.55	0.87
36:DB:91:C:OP1	49:DQ:16:ARG:HG3	1.74	0.87
2:CB:42:ILE:HD11	2:CB:202:PRO:HB2	1.56	0.87
1:AA:1364:U:O2	1:AA:1364:U:H2'	1.72	0.87
33:B8:52:LYS:N	33:B8:53:PRO:HD2	1.89	0.87
48:BP:39:LYS:HE2	48:BP:40:SER:H	1.40	0.87
50:BR:84:ALA:HB3	50:BR:85:PRO:HD3	1.57	0.87
24:AY:409:ILE:CD1	24:AY:654:GLY:HA2	2.04	0.87
35:DA:2103:C:H2'	35:DA:2104:G:H5''	1.56	0.87
17:CQ:59:ILE:HG23	17:CQ:71:PHE:HB3	1.57	0.87
57:DY:79:CYS:SG	57:DY:80:GLY:N	2.48	0.87
7:AG:151:TYR:OH	11:AK:54:ARG:HD3	1.74	0.87
35:DA:2317:C:C2'	35:DA:2318:G:H5'	2.03	0.87
30:B5:55:ARG:O	30:B5:56:LYS:HB2	1.73	0.87
2:AB:223:ILE:HG12	2:AB:226:ARG:CZ	2.05	0.87
13:CM:96:LEU:HB3	13:CM:97:PRO:HD2	1.55	0.87
57:DY:10:GLY:HA2	57:DY:27:VAL:HG13	1.55	0.87
35:DA:545:C:H2'	35:DA:547:A:H5''	1.56	0.87
35:BA:2645:G:H3'	35:BA:2646:C:C5'	2.03	0.87
5:CE:80:ILE:HG22	8:CH:104:ARG:NH2	1.89	0.87
52:DT:85:LYS:NZ	52:DT:85:LYS:HB3	1.89	0.87
35:DA:925:C:C2'	35:DA:926:A:H5''	2.05	0.87
35:DA:1876:A:H2'	35:DA:1877:A:C8	2.10	0.87
35:BA:1876:A:H2'	35:BA:1877:A:C8	2.10	0.87
41:BG:76:SER:CB	41:BG:83:ARG:HB3	2.04	0.87
57:BY:10:GLY:HA2	57:BY:27:VAL:HG13	1.56	0.87
35:BA:2103:C:H2'	35:BA:2104:G:H5''	1.56	0.87
35:BA:195:A:OP1	48:BP:46:LYS:HE2	1.73	0.87
58:DZ:18:LEU:HD12	58:DZ:18:LEU:H	1.39	0.87
17:AQ:59:ILE:HG23	17:AQ:71:PHE:HB3	1.56	0.87
48:DP:55:ARG:HG2	48:DP:56:SER:N	1.83	0.87
41:DG:51:ARG:HE	41:DG:51:ARG:HA	1.38	0.87
50:DR:84:ALA:HB3	50:DR:85:PRO:HD3	1.57	0.87
35:BA:1452:A:C3'	35:BA:1453:U:H5''	2.03	0.87

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
17:AQ:3:LYS:HB3	17:AQ:61:GLU:HB3	1.55	0.87
38:DD:158:ALA:HB3	38:DD:161:THR:HG21	1.56	0.87
33:B8:56:GLU:HA	33:B8:59:LYS:HZ1	1.38	0.87
33:D8:52:LYS:N	33:D8:53:PRO:HD2	1.90	0.87
17:AQ:52:LYS:HD2	17:AQ:52:LYS:H	1.40	0.87
3:CC:20:SER:HB3	3:CC:40:ARG:HH22	1.37	0.87
11:AK:124:LYS:HD2	11:AK:125:PHE:HE1	1.39	0.87
31:D6:28:ARG:NH1	31:D6:28:ARG:HB3	1.90	0.87
3:CC:50:ALA:HB1	3:CC:70:VAL:HG11	1.54	0.87
30:B5:2:ALA:CA	35:BA:2015:A:H1'	2.05	0.87
52:BT:23:ARG:O	52:BT:25:GLY:N	2.08	0.87
35:DA:2175:C:H4'	37:DC:219:MET:O	1.75	0.87
17:CQ:69:LYS:O	17:CQ:70:ARG:HD2	1.74	0.87
35:BA:545:C:H2'	35:BA:547:A:H5''	1.55	0.87
6:AF:67:MET:HB2	6:AF:68:PRO:HD2	1.57	0.87
24:CY:605:ILE:HD11	24:CY:677:GLN:HG2	1.57	0.86
1:CA:656:C:H4'	15:CO:62:GLN:NE2	1.88	0.86
24:CY:272:LEU:O	24:CY:276:VAL:HG23	1.75	0.86
44:BK:30:HIS:HA	44:BK:59:ILE:HD12	1.56	0.86
1:AA:1251:A:H2'	1:AA:1252:A:C8	2.09	0.86
1:AA:1323:G:H2'	1:AA:1324:A:C8	2.11	0.86
25:D0:60:PHE:CE2	35:DA:2365:G:H4'	2.09	0.86
11:CK:124:LYS:HD2	11:CK:125:PHE:HE1	1.38	0.86
35:DA:2425:A:H5'	35:DA:2427:C:O4'	1.75	0.86
10:AJ:37:PRO:HA	10:AJ:72:VAL:HG22	1.56	0.86
24:AY:468:ARG:HB3	24:AY:468:ARG:HH11	1.39	0.86
1:CA:80:G:H3'	1:CA:81:U:C5'	2.04	0.86
20:CT:45:GLN:HB2	20:CT:91:LEU:HD13	1.55	0.86
1:CA:1502:A:H2	1:CA:1505:G:H1	1.23	0.86
6:AF:43:LEU:H	6:AF:43:LEU:HD12	1.40	0.86
48:DP:85:LEU:HD23	48:DP:85:LEU:H	1.39	0.86
35:BA:1658:C:OP1	39:BE:132:HIS:ND1	2.08	0.86
35:DA:614(A):U:H4'	35:DA:614(B):G:H5''	1.56	0.86
6:CF:67:MET:HB2	6:CF:68:PRO:HD2	1.58	0.86
25:B0:60:PHE:CE2	35:BA:2365:G:H4'	2.10	0.86
33:D8:13:ARG:NH1	48:DP:59:LEU:HG	1.90	0.86
3:CC:70:VAL:HG12	3:CC:71:ALA:N	1.90	0.86
28:D3:17:LYS:NZ	28:D3:20:LYS:HE3	1.91	0.86
49:BQ:45:GLN:H	49:BQ:45:GLN:NE2	1.74	0.86
35:BA:108:U:H2'	35:BA:109:G:C8	2.10	0.86
1:CA:483:C:H3'	1:CA:484:G:H5''	1.55	0.86
3:CC:16:ARG:NH1	3:CC:16:ARG:HB2	1.91	0.86

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AC:20:SER:HB3	3:AC:40:ARG:NH2	1.91	0.86
1:AA:973:G:O4'	10:AJ:55:LYS:HG3	1.75	0.86
49:BQ:59:ARG:HA	58:BZ:180:VAL:HG23	1.58	0.86
50:DR:38:VAL:HB	50:DR:39:PRO:HD3	1.56	0.86
35:DA:1285:G:H2'	35:DA:1286:A:H5'	1.57	0.86
35:BA:2562:U:H1'	47:BO:23:ARG:HH11	1.39	0.86
35:BA:1223:G:H3'	35:BA:1224:C:H5''	1.58	0.86
1:AA:656:C:H4'	15:AO:62:GLN:NE2	1.89	0.86
35:BA:1899:G:H22	35:BA:1902:C:H41	1.21	0.86
48:DP:40:SER:O	48:DP:41:ARG:HD2	1.76	0.86
12:AL:41:ARG:HH11	12:AL:41:ARG:HB3	1.41	0.86
37:DC:77:ALA:HB3	37:DC:95:VAL:HA	1.57	0.86
5:AE:9:LYS:HB2	5:AE:112:LEU:HD11	1.57	0.86
35:DA:192:C:H2'	35:DA:193:U:H5'	1.57	0.86
40:DF:24:LEU:HB3	40:DF:25:PRO:HD2	1.56	0.86
10:CJ:6:ILE:HD11	10:CJ:72:VAL:CB	2.04	0.86
35:DA:2562:U:H1'	47:DO:23:ARG:HH11	1.41	0.86
5:CE:102:ALA:HB2	5:CE:120:THR:OG1	1.76	0.86
17:CQ:52:LYS:H	17:CQ:52:LYS:HD2	1.40	0.86
18:CR:56:THR:HB	18:CR:58:LEU:HD13	1.57	0.86
39:BE:24:THR:HG22	39:BE:186:GLY:HA2	1.58	0.86
36:DB:65:C:N4	36:DB:109:C:H2'	1.91	0.86
35:DA:27:G:N2	35:DA:512:G:H2'	1.90	0.86
57:DY:44:ILE:HG22	57:DY:45:VAL:H	1.41	0.86
52:BT:13:ARG:CZ	52:BT:13:ARG:HA	2.06	0.86
39:DE:176:ILE:HG22	39:DE:178:GLU:HB3	1.55	0.86
1:AA:697:U:H2'	1:AA:698:G:H5'	1.57	0.86
1:CA:697:U:H2'	1:CA:698:G:H5'	1.58	0.86
35:DA:940:G:H5'	35:DA:941:A:OP2	1.75	0.86
39:DE:60:ASN:OD1	39:DE:62:PRO:HD2	1.76	0.86
35:BA:2317:C:C2'	35:BA:2318:G:H5'	2.05	0.86
2:CB:223:ILE:HG12	2:CB:226:ARG:CZ	2.05	0.86
57:DY:10:GLY:CA	57:DY:27:VAL:HG13	2.05	0.86
35:BA:2876:G:H4'	52:BT:3:ARG:HE	1.41	0.86
17:CQ:3:LYS:HB3	17:CQ:61:GLU:HB3	1.56	0.86
35:BA:203:C:H3'	35:BA:204:A:H5''	1.58	0.86
41:DG:77:ILE:HG21	41:DG:80:PHE:HB2	1.56	0.86
35:DA:2796:U:H3'	35:DA:2799:C:H5'	1.55	0.86
40:DF:53:THR:HG23	40:DF:55:GLY:N	1.91	0.86
35:DA:1818:U:H5''	38:DD:157:ARG:HB2	1.57	0.86
15:AO:78:TYR:O	15:AO:82:ILE:HG22	1.76	0.86
35:DA:978:G:H1	35:DA:985:C:H42	1.23	0.86

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1285:G:H2'	35:BA:1286:A:H5'	1.58	0.86
55:BW:5:ALA:HB2	55:BW:54:ALA:HB2	1.57	0.86
38:BD:35:LYS:HZ3	38:BD:36:PRO:CD	1.89	0.85
40:DF:181:LEU:HB3	40:DF:205:ARG:NH1	1.91	0.85
30:D5:2:ALA:CA	35:DA:2015:A:H1'	2.04	0.85
35:BA:27:G:N2	35:BA:512:G:H2'	1.90	0.85
57:BY:10:GLY:CA	57:BY:27:VAL:HG13	2.06	0.85
42:BH:17:VAL:HG11	42:BH:50:VAL:HG21	1.56	0.85
2:CB:29:ALA:O	2:CB:32:ILE:HG22	1.76	0.85
12:CL:41:ARG:HH11	12:CL:41:ARG:HB3	1.38	0.85
36:DB:103:G:H21	58:DZ:73:GLN:HE22	1.23	0.85
42:BH:169:VAL:HG22	42:BH:170:ARG:H	1.40	0.85
24:CY:519:ARG:NH1	24:CY:678:GLU:H	1.74	0.85
35:DA:1658:C:H2'	35:DA:1659:U:C6	2.12	0.85
41:DG:112:PRO:O	41:DG:113:ARG:HA	1.76	0.85
52:BT:46:GLU:O	52:BT:65:LYS:HD2	1.75	0.85
52:DT:29:ARG:CB	52:DT:85:LYS:HA	2.05	0.85
49:BQ:56:ARG:HH21	58:BZ:180:VAL:HG21	1.40	0.85
26:B1:41:ARG:NH2	35:BA:1365:A:H5'	1.91	0.85
1:CA:579:G:H5'	1:CA:728:A:H1'	1.57	0.85
35:DA:2742:C:O2'	35:DA:2743:C:H5'	1.76	0.85
42:DH:17:VAL:HG11	42:DH:50:VAL:HG21	1.57	0.85
1:AA:1004:A:H61	1:AA:1034:G:H2'	1.40	0.85
30:D5:4:HIS:HB3	30:D5:5:PRO:HD3	1.56	0.85
27:D2:69:ARG:HG3	27:D2:70:GLN:N	1.91	0.85
49:DQ:45:GLN:NE2	49:DQ:45:GLN:H	1.73	0.85
37:BC:77:ALA:HB3	37:BC:95:VAL:HA	1.58	0.85
40:BF:24:LEU:HB3	40:BF:25:PRO:HD2	1.57	0.85
1:CA:1004:A:H61	1:CA:1034:G:H2'	1.40	0.85
26:B1:45:ASN:HD21	26:B1:47:GLN:HE21	1.24	0.85
30:D5:55:ARG:O	30:D5:56:LYS:HB2	1.74	0.85
40:DF:84:VAL:HG12	40:DF:85:GLY:H	1.39	0.85
10:AJ:55:LYS:H	10:AJ:55:LYS:HE2	1.41	0.85
2:AB:22:LYS:HE2	2:AB:22:LYS:HA	1.57	0.85
33:B8:50:LEU:HD12	33:B8:51:ALA:H	1.38	0.85
57:DY:94:LYS:C	57:DY:102:CYS:HB2	1.97	0.85
42:BH:12:PRO:HB2	42:BH:15:VAL:HG11	1.57	0.85
39:BE:60:ASN:OD1	39:BE:62:PRO:HD2	1.74	0.85
35:DA:1826:G:H4'	38:DD:242:ARG:HH21	1.40	0.85
42:DH:169:VAL:HG22	42:DH:170:ARG:H	1.39	0.85
4:CD:30:LYS:C	4:CD:32:ALA:H	1.80	0.85
35:BA:1747(A):G:H2'	35:BA:1748:G:C5'	2.07	0.85

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:DT:46:GLU:O	52:DT:65:LYS:HD2	1.76	0.85
29:D4:14:ILE:O	29:D4:21:VAL:HG13	1.77	0.85
58:DZ:130:PRO:HA	58:DZ:133:ILE:HD11	1.58	0.85
8:CH:83:ILE:HD12	8:CH:137:VAL:HG22	1.58	0.85
1:CA:148:G:H2'	1:CA:149:A:H8	1.41	0.85
40:BF:53:THR:HG23	40:BF:55:GLY:N	1.90	0.85
35:DA:272(H):C:H6	35:DA:272(H):C:H5'	1.41	0.85
1:CA:1057:G:H5''	3:CC:154:SER:CB	2.06	0.85
35:DA:2524:G:H8	35:DA:2524:G:H5'	1.41	0.85
46:DN:91:LEU:HD23	46:DN:98:VAL:HG21	1.57	0.85
44:DK:30:HIS:HA	44:DK:59:ILE:HD12	1.56	0.85
50:BR:100:LEU:HD22	50:BR:100:LEU:H	1.39	0.85
35:DA:2876:G:H4'	52:DT:3:ARG:HE	1.41	0.85
10:AJ:75:ILE:HG13	10:AJ:76:ASN:N	1.92	0.85
58:DZ:48:PHE:CE1	58:DZ:52:SER:HA	2.12	0.85
42:DH:12:PRO:HB2	42:DH:15:VAL:HG11	1.56	0.85
50:BR:73:VAL:O	50:BR:76:VAL:HG12	1.77	0.85
35:BA:1818:U:H5''	38:BD:157:ARG:HB2	1.58	0.85
35:BA:1782:C:H1'	35:BA:2609:U:H5'	1.56	0.85
35:DA:2317:C:H2'	35:DA:2318:G:H5'	1.55	0.85
5:CE:64:ARG:HH11	5:CE:64:ARG:HG3	1.42	0.85
41:DG:35:GLU:HB3	41:DG:160:VAL:HG12	1.59	0.85
26:D1:73:LEU:HD21	26:D1:94:LEU:HB3	1.57	0.85
50:DR:117:VAL:O	50:DR:118:GLU:HB2	1.77	0.85
24:AY:416:LYS:CD	24:AY:417:THR:H	1.89	0.85
24:AY:517:LEU:HD23	24:AY:521:SER:HB3	1.57	0.85
31:B6:28:ARG:NH1	31:B6:28:ARG:HB3	1.91	0.85
35:BA:940:G:H5'	35:BA:941:A:OP2	1.76	0.85
51:BS:106:ARG:HB3	51:BS:106:ARG:HH11	1.42	0.85
52:BT:29:ARG:CB	52:BT:85:LYS:HA	2.06	0.85
2:CB:22:LYS:HE2	2:CB:22:LYS:HA	1.59	0.85
36:BB:3:C:H42	36:BB:118:G:H1	1.25	0.85
35:DA:1779:U:H5	35:DA:1784:A:N7	1.74	0.85
42:BH:30:LYS:HD2	42:BH:81:GLU:HG2	1.59	0.85
29:B4:10:VAL:HG23	29:B4:11:PRO:HD2	1.58	0.85
41:BG:97:ASP:HB2	41:BG:98:ARG:HH12	1.42	0.85
51:DS:106:ARG:HB3	51:DS:106:ARG:HH11	1.41	0.85
13:AM:97:PRO:HA	13:AM:110:ARG:HD3	1.56	0.85
58:DZ:137:ILE:HG21	58:DZ:155:LEU:HD12	1.57	0.85
24:CY:489:LYS:HG2	24:CY:598:ASP:HB2	1.58	0.85
2:AB:172:ILE:HD12	2:AB:172:ILE:H	1.40	0.85
1:CA:1495:U:H2'	1:CA:1496:C:H6	1.42	0.85

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2502:G:H5''	35:DA:2503:A:H5'	1.59	0.85
52:DT:53:ARG:HB3	52:DT:53:ARG:NH1	1.92	0.85
10:CJ:75:ILE:HG13	10:CJ:76:ASN:N	1.89	0.84
35:BA:1826:G:H4'	38:BD:242:ARG:HH21	1.42	0.84
24:CY:148:LEU:HA	24:CY:151:ARG:HD2	1.57	0.84
35:DA:1609:A:H5'	35:DA:1610:A:OP2	1.75	0.84
1:AA:579:G:H5'	1:AA:728:A:H1'	1.58	0.84
35:DA:2444:G:OP2	40:DF:68:LYS:HE2	1.76	0.84
43:DJ:26:UNK:HA	43:DJ:84:UNK:HA	1.60	0.84
9:AI:95:LYS:HZ3	9:AI:96:LEU:HD12	1.41	0.84
36:DB:3:C:H42	36:DB:118:G:H1	1.25	0.84
35:DA:1678:G:N2	35:DA:1989:G:H22	1.74	0.84
35:DA:1242:A:H5'	35:DA:1243:G:OP2	1.77	0.84
35:BA:2645:G:H4'	35:BA:2732:G:O2'	1.77	0.84
41:DG:87:PRO:O	41:DG:88:ILE:HD12	1.77	0.84
35:BA:2807:G:H3'	35:BA:2808:U:H5''	1.57	0.84
35:BA:107:C:H2'	35:BA:108:U:H6	1.41	0.84
52:DT:132:LYS:H	52:DT:132:LYS:HD3	1.42	0.84
38:DD:183:ARG:HG2	38:DD:183:ARG:HH11	1.41	0.84
35:BA:2502:G:H5''	35:BA:2503:A:H5'	1.59	0.84
52:BT:53:ARG:NH1	52:BT:53:ARG:HB3	1.91	0.84
36:BB:87:G:H2'	36:BB:88:C:H3'	1.58	0.84
25:D0:40:GLN:NE2	25:D0:43:THR:HA	1.92	0.84
35:DA:1658:C:OP1	39:DE:132:HIS:ND1	2.09	0.84
35:BA:2394:C:OP1	48:BP:63:PRO:HD2	1.77	0.84
51:BS:101:LEU:O	51:BS:101:LEU:HD12	1.77	0.84
1:CA:973:G:O4'	10:CJ:55:LYS:HG3	1.77	0.84
36:DB:87:G:H2'	36:DB:88:C:H3'	1.59	0.84
25:B0:50:ASN:HA	25:B0:62:LEU:HD12	1.59	0.84
9:CI:88:TYR:O	9:CI:89:ASN:HB2	1.77	0.84
35:BA:1242:A:H5'	35:BA:1243:G:OP2	1.76	0.84
35:BA:666:G:H4'	48:BP:49:ARG:NH2	1.92	0.84
35:BA:925:C:C2'	35:BA:926:A:H5''	2.06	0.84
24:CY:201:ILE:HG21	24:CY:206:LEU:HA	1.60	0.84
38:DD:131:LEU:N	38:DD:131:LEU:HD12	1.93	0.84
42:BH:118:PRO:HG2	42:BH:121:ILE:HD12	1.60	0.84
35:BA:970:C:H2'	35:BA:971:C:H6	1.42	0.84
52:DT:13:ARG:CZ	52:DT:13:ARG:HA	2.07	0.84
24:CY:170:ARG:HD2	24:CY:170:ARG:H	1.41	0.84
38:BD:95:LEU:HD12	38:BD:103:ARG:O	1.78	0.84
13:CM:68:GLY:H	13:CM:71:ARG:HB3	1.41	0.84
50:DR:10:LEU:HB3	50:DR:17:ARG:HD3	1.58	0.84

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:299:G:H2'	1:CA:300:A:C8	2.12	0.84
3:CC:83:ARG:O	3:CC:86:VAL:HG22	1.78	0.84
48:BP:27:HIS:HD2	48:BP:28:GLY:N	1.74	0.84
46:BN:91:LEU:HD23	46:BN:98:VAL:HG21	1.59	0.84
35:DA:108:U:H2'	35:DA:109:G:C8	2.12	0.84
35:BA:2175:C:H4'	37:BC:219:MET:O	1.76	0.84
24:AY:555:LEU:HD21	24:AY:599:PRO:HG3	1.60	0.84
24:CY:17:ILE:H	24:CY:17:ILE:HD12	1.41	0.84
58:DZ:10:ARG:HH21	58:DZ:26:GLY:H	1.22	0.84
9:CI:114:TYR:HE1	10:CJ:60:ARG:H	1.22	0.84
35:DA:978:G:H1	35:DA:985:C:N4	1.76	0.84
46:DN:62:VAL:HG22	46:DN:66:LYS:HG3	1.59	0.84
4:AD:49:ARG:HE	4:AD:49:ARG:HA	1.43	0.84
41:DG:145:THR:HG23	41:DG:148:MET:HB2	1.59	0.84
41:DG:145:THR:CG2	41:DG:148:MET:HB2	2.08	0.84
58:BZ:115:GLY:H	58:BZ:177:PRO:HG3	1.43	0.84
24:CY:670:VAL:CG2	24:CY:671:MET:H	1.89	0.84
57:BY:94:LYS:C	57:BY:102:CYS:HB2	1.98	0.84
31:D6:10:LEU:H	31:D6:10:LEU:CD2	1.90	0.84
35:BA:1947:C:H2'	35:BA:1948:G:H5''	1.58	0.84
22:CW:74:A:H2'	22:CW:75:C:H5''	1.59	0.84
18:AR:56:THR:HB	18:AR:58:LEU:HD13	1.59	0.84
38:BD:158:ALA:HB3	38:BD:161:THR:HG21	1.59	0.84
13:AM:68:GLY:H	13:AM:71:ARG:HB3	1.42	0.84
15:CO:78:TYR:O	15:CO:82:ILE:HG22	1.78	0.84
39:BE:176:ILE:HG22	39:BE:178:GLU:HB3	1.57	0.84
52:BT:108:ARG:HG3	52:BT:109:GLU:N	1.93	0.84
1:AA:148:G:H2'	1:AA:149:A:H8	1.42	0.84
35:DA:666:G:H4'	48:DP:49:ARG:NH2	1.93	0.84
24:CY:13:ARG:HB3	24:CY:79:ILE:HG23	1.59	0.84
44:DK:77:LEU:HD23	44:DK:77:LEU:H	1.43	0.84
39:BE:24:THR:HG23	39:BE:184:VAL:HG23	1.58	0.84
38:DD:145:VAL:HG22	38:DD:191:ALA:HB1	1.59	0.84
35:BA:2425:A:H5'	35:BA:2427:C:O4'	1.78	0.84
1:AA:1057:G:H5''	3:AC:154:SER:CB	2.08	0.84
35:DA:2438:U:O3'	35:DA:2439:A:H4'	1.78	0.84
35:DA:107:C:H2'	35:DA:108:U:H6	1.41	0.84
42:DH:118:PRO:HG2	42:DH:121:ILE:HD12	1.60	0.84
4:CD:194:LEU:HB3	4:CD:196:LEU:HD13	1.57	0.84
35:BA:978:G:H1	35:BA:985:C:N4	1.75	0.84
50:DR:99:LYS:H	50:DR:99:LYS:CD	1.87	0.83
10:CJ:55:LYS:H	10:CJ:55:LYS:HE2	1.42	0.83

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:329:ARG:HD3	24:AY:374:LEU:HD11	1.59	0.83
1:CA:814:A:H2'	1:CA:816:A:H5'	1.60	0.83
58:DZ:81:ARG:NH1	58:DZ:81:ARG:HB3	1.91	0.83
36:BB:65:C:N4	36:BB:109:C:H2'	1.91	0.83
41:DG:68:PRO:HA	41:DG:92:VAL:HG13	1.57	0.83
35:DA:1142(A):A:H4'	46:DN:25:ARG:HH22	1.42	0.83
25:D0:47:PRO:HG3	25:D0:59:LEU:HD21	1.58	0.83
35:DA:6:A:O2'	46:DN:130:HIS:HB2	1.77	0.83
28:D3:29:ARG:HH11	28:D3:29:ARG:HB2	1.43	0.83
46:BN:9:VAL:HG11	46:BN:39:ARG:NH2	1.92	0.83
24:AY:15:ILE:HD11	24:AY:81:ILE:HG12	1.61	0.83
41:DG:76:SER:HB2	41:DG:83:ARG:HB3	1.58	0.83
41:DG:86:MET:N	41:DG:87:PRO:HD3	1.94	0.83
40:DF:7:TYR:HD2	40:DF:16:GLY:HA3	1.43	0.83
10:CJ:7:LYS:HB2	10:CJ:97:GLU:HB2	1.60	0.83
42:BH:16:SER:HB2	42:BH:27:LYS:HB2	1.60	0.83
6:CF:43:LEU:H	6:CF:43:LEU:HD12	1.42	0.83
52:DT:108:ARG:HG3	52:DT:109:GLU:N	1.92	0.83
1:CA:980:C:H5	1:CA:981:U:C2	1.95	0.83
38:DD:35:LYS:HZ3	38:DD:36:PRO:CD	1.92	0.83
31:B6:51:GLU:O	31:B6:52:VAL:HB	1.77	0.83
58:DZ:10:ARG:HH21	58:DZ:26:GLY:N	1.74	0.83
35:BA:272(H):C:H5'	35:BA:272(H):C:H6	1.41	0.83
31:D6:51:GLU:O	31:D6:52:VAL:HB	1.78	0.83
3:AC:70:VAL:HG12	3:AC:71:ALA:N	1.90	0.83
24:CY:230:LYS:HZ1	24:CY:237:PRO:HA	1.43	0.83
35:DA:2287:A:N6	35:DA:2344:U:H3	1.75	0.83
1:AA:1456:G:H2'	1:AA:1457:G:H5'	1.60	0.83
11:AK:124:LYS:HD2	11:AK:125:PHE:CE1	2.14	0.83
47:DO:24:VAL:HG21	47:DO:30:ALA:HB3	1.61	0.83
42:DH:16:SER:HB2	42:DH:27:LYS:HB2	1.59	0.83
13:CM:69:GLU:HG2	29:D4:43:TYR:OH	1.78	0.83
24:CY:526:VAL:HB	24:CY:566:THR:HA	1.60	0.83
1:CA:1438:G:H2'	1:CA:1439:C:C6	2.14	0.83
25:D0:14:ARG:NH1	25:D0:14:ARG:HB2	1.93	0.83
1:AA:368:U:P	24:AY:351:ARG:HH11	2.01	0.83
47:BO:43:VAL:HG23	47:BO:56:ASP:O	1.77	0.83
41:BG:111:LEU:HB2	41:BG:112:PRO:HD3	1.60	0.83
41:BG:64:THR:HG23	41:BG:66:GLN:H	1.44	0.83
61:CY:702:FUA:H122	61:CY:702:FUA:H231	1.59	0.83
46:DN:9:VAL:HG11	46:DN:39:ARG:NH2	1.92	0.83
16:AP:20:VAL:HG21	16:AP:32:TYR:CB	2.08	0.83

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2287:A:N6	35:BA:2344:U:H3	1.74	0.83
1:AA:975:A:H5'	1:AA:975:A:H8	1.44	0.83
35:BA:2438:U:O3'	35:BA:2439:A:H4'	1.76	0.83
57:BY:44:ILE:HG22	57:BY:45:VAL:H	1.43	0.83
4:AD:194:LEU:HB3	4:AD:196:LEU:HD13	1.59	0.83
47:DO:69:ILE:HD13	47:DO:77:ILE:HG23	1.59	0.83
4:AD:30:LYS:C	4:AD:32:ALA:H	1.79	0.83
35:DA:1485:G:H1'	35:DA:1505:C:H42	1.44	0.83
31:B6:48:VAL:HG23	31:B6:49:HIS:N	1.93	0.83
26:D1:76:ARG:NH1	26:D1:95:LEU:HD22	1.94	0.83
47:BO:114:ILE:HD12	47:BO:114:ILE:H	1.43	0.83
40:BF:84:VAL:HG12	40:BF:85:GLY:H	1.41	0.83
10:CJ:49:VAL:HG23	14:CN:41:ARG:HB2	1.60	0.83
30:D5:34:PRO:O	30:D5:35:GLU:HB2	1.76	0.83
35:DA:1223:G:H3'	35:DA:1224:C:H5''	1.57	0.83
57:BY:46:LYS:H	57:BY:62:GLU:HB2	1.43	0.83
49:DQ:30:GLY:HA2	49:DQ:107:ALA:HB2	1.60	0.83
35:DA:195:A:OP1	48:DP:46:LYS:HE2	1.78	0.83
35:BA:1678:G:N2	35:BA:1989:G:H22	1.77	0.83
35:DA:218:A:C2	35:DA:235:U:H4'	2.13	0.83
23:AX:13:A:H3'	23:AX:14:A:C5'	2.08	0.83
1:AA:980:C:H5	1:AA:981:U:C2	1.96	0.83
1:CA:1318:A:H1'	19:CS:37:ARG:NH2	1.93	0.83
48:DP:57:THR:OG1	48:DP:59:LEU:HB3	1.78	0.83
35:BA:806:C:OP2	48:BP:39:LYS:HD3	1.78	0.83
35:DA:1059:G:H2'	35:DA:1060:U:C5	2.14	0.83
22:CW:7:G:H3'	22:CW:8:U:H5'	1.59	0.83
27:D2:32:LEU:HA	27:D2:53:LEU:HD13	1.61	0.83
35:BA:9:U:H5	35:BA:2629:A:H62	1.27	0.83
29:B4:14:ILE:O	29:B4:21:VAL:HG13	1.77	0.83
24:CY:21:ILE:HG21	24:CY:88:VAL:HG13	1.61	0.83
40:BF:40:GLN:NE2	40:BF:182:ASN:HB2	1.93	0.83
35:DA:2314:C:O2'	35:DA:2315:G:H5'	1.78	0.83
1:AA:1221:G:H4'	19:AS:77:THR:HG21	1.59	0.83
48:DP:23:PRO:HB2	48:DP:33:ARG:HG3	1.60	0.83
48:DP:125:VAL:O	48:DP:145:PRO:HD2	1.77	0.83
30:D5:55:ARG:HD3	30:D5:55:ARG:C	1.98	0.83
1:AA:1284:C:H3'	1:AA:1285:A:H5''	1.61	0.83
53:BU:31:SER:HB3	53:BU:34:LYS:HB2	1.61	0.83
35:BA:1609:A:H5'	35:BA:1610:A:OP2	1.79	0.83
10:AJ:6:ILE:HD11	10:AJ:72:VAL:CB	2.05	0.83
35:DA:1747(A):G:H2'	35:DA:1748:G:C5'	2.09	0.83

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:965:C:C5'	35:BA:2273:A:H1'	2.09	0.83
1:AA:243:A:H4'	1:AA:244:U:O5'	1.79	0.83
38:BD:131:LEU:N	38:BD:131:LEU:HD12	1.94	0.83
50:BR:117:VAL:O	50:BR:118:GLU:HB2	1.79	0.83
54:DV:21:ARG:HB3	54:DV:91:TYR:CD1	2.14	0.83
12:CL:90:VAL:O	12:CL:92:ASP:N	2.12	0.83
52:BT:132:LYS:HD3	52:BT:132:LYS:H	1.41	0.83
24:CY:131:PRO:HG2	24:CY:281:PRO:HG3	1.60	0.83
39:DE:24:THR:HG23	39:DE:184:VAL:HG23	1.61	0.83
16:CP:20:VAL:HG21	16:CP:32:TYR:CB	2.08	0.82
40:DF:40:GLN:NE2	40:DF:182:ASN:HB2	1.93	0.82
51:DS:101:LEU:O	51:DS:101:LEU:HD12	1.77	0.82
40:DF:113:ALA:HB1	40:DF:186:ILE:HG21	1.61	0.82
10:CJ:37:PRO:HA	10:CJ:72:VAL:HG22	1.59	0.82
1:CA:1236:A:H2'	1:CA:1237:C:C6	2.14	0.82
24:CY:546:ILE:HD13	24:CY:565:VAL:HG11	1.60	0.82
40:DF:64:ILE:HG22	40:DF:76:GLY:O	1.79	0.82
13:CM:15:VAL:HG12	13:CM:45:VAL:HG22	1.58	0.82
35:BA:218:A:C2	35:BA:235:U:H4'	2.13	0.82
24:CY:413:ILE:HG22	24:CY:449:THR:O	1.79	0.82
35:DA:2645:G:H4'	35:DA:2732:G:O2'	1.78	0.82
31:B6:54:ILE:O	31:B6:54:ILE:HD12	1.79	0.82
1:CA:1219:U:H2'	1:CA:1220:G:H8	1.43	0.82
35:DA:2394:C:OP1	48:DP:63:PRO:HD2	1.79	0.82
52:BT:65:LYS:HE3	52:BT:66:VAL:N	1.95	0.82
2:AB:126:GLU:HA	2:AB:129:GLU:OE1	1.78	0.82
35:DA:2138:C:H2'	35:DA:2139:C:C6	2.13	0.82
11:CK:124:LYS:HD2	11:CK:125:PHE:CE1	2.13	0.82
35:DA:1314:C:H6	35:DA:1314:C:H5'	1.44	0.82
58:BZ:79:ARG:O	58:BZ:80:ARG:HB2	1.77	0.82
24:AY:149:VAL:O	24:AY:152:THR:HG22	1.79	0.82
35:DA:1947:C:C2'	35:DA:1948:G:H5''	2.08	0.82
35:DA:1658:C:H2'	35:DA:1659:U:H6	1.43	0.82
58:BZ:151:HIS:HB3	58:BZ:170:THR:HA	1.59	0.82
5:AE:101:ILE:H	5:AE:101:ILE:HD13	1.45	0.82
35:BA:2787:C:H1'	39:BE:61:ARG:HG3	1.61	0.82
10:AJ:49:VAL:HG23	14:AN:41:ARG:HB2	1.61	0.82
49:BQ:30:GLY:HA2	49:BQ:107:ALA:HB2	1.61	0.82
54:BV:21:ARG:HB3	54:BV:91:TYR:CD1	2.14	0.82
47:BO:104:ARG:HE	52:BT:33:LYS:HE3	1.44	0.82
38:DD:91:ARG:HG2	38:DD:91:ARG:HH11	1.44	0.82
13:AM:124:PRO:HG2	24:AY:574:GLU:H	1.44	0.82

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:BP:40:SER:O	48:BP:41:ARG:HD2	1.77	0.82
40:BF:7:TYR:HD2	40:BF:16:GLY:HA3	1.43	0.82
38:BD:44:ASN:CB	38:BD:49:ILE:HA	2.09	0.82
48:DP:27:HIS:HD2	48:DP:28:GLY:N	1.76	0.82
39:BE:111:ARG:HG3	50:BR:2:ARG:HG2	1.62	0.82
52:BT:23:ARG:HG2	52:BT:120:ARG:NH1	1.95	0.82
35:BA:978:G:H1	35:BA:985:C:H42	1.24	0.82
35:DA:598:G:H5'	48:DP:15:ARG:HB2	1.58	0.82
55:DW:29:LEU:HD11	55:DW:51:LEU:HD11	1.61	0.82
1:AA:1510:U:H2'	1:AA:1511:G:C8	2.14	0.82
44:DK:59:ILE:HG12	44:DK:60:TYR:N	1.95	0.82
1:CA:1284:C:H3'	1:CA:1285:A:H5''	1.61	0.82
25:B0:47:PRO:HG3	25:B0:59:LEU:HD21	1.59	0.82
22:CW:11:A:H2'	22:CW:12:G:H8	1.43	0.82
1:CA:1342:C:H4'	9:CI:125:TYR:HB3	1.60	0.82
56:BX:12:VAL:HG12	56:BX:27:THR:O	1.79	0.82
35:DA:1884:A:C2'	35:DA:1885:A:H5''	2.10	0.82
28:B3:17:LYS:NZ	28:B3:20:LYS:HE3	1.94	0.82
57:DY:46:LYS:H	57:DY:62:GLU:HB2	1.43	0.82
39:DE:24:THR:HG22	39:DE:186:GLY:HA2	1.61	0.82
35:BA:621:A:H2'	35:BA:622:G:H5'	1.62	0.82
44:BK:93:ARG:HB2	58:BZ:112:ARG:HE	1.43	0.82
1:CA:1277:C:H2'	1:CA:1278:U:H5'	1.60	0.82
40:BF:155:LEU:HA	40:BF:174:VAL:HB	1.62	0.82
10:CJ:6:ILE:HG22	10:CJ:98:ILE:HD12	1.62	0.82
54:BV:38:LEU:O	54:BV:39:LEU:HD13	1.80	0.82
35:BA:1884:A:C2'	35:BA:1885:A:H5''	2.09	0.82
35:BA:2584:U:C2'	35:BA:2585:U:H5'	2.09	0.82
1:AA:1489:G:C2'	1:AA:1490:C:H5''	2.09	0.82
52:DT:23:ARG:HG2	52:DT:120:ARG:NH1	1.95	0.82
35:BA:2138:C:H2'	35:BA:2139:C:C6	2.13	0.82
2:AB:29:ALA:O	2:AB:32:ILE:HG22	1.78	0.82
2:CB:12:GLU:O	2:CB:14:GLY:N	2.12	0.82
35:BA:2314:C:O2'	35:BA:2315:G:H5'	1.79	0.82
35:BA:2473:U:H3'	35:BA:2474:C:C5'	2.08	0.82
25:D0:11:ARG:HB2	25:D0:11:ARG:NH1	1.95	0.82
58:DZ:111:VAL:O	58:DZ:112:ARG:HB2	1.78	0.82
35:DA:2439:A:O2'	35:DA:2587:A:H5''	1.80	0.82
48:BP:125:VAL:O	48:BP:145:PRO:HD2	1.78	0.82
35:BA:1142(A):A:H4'	46:BN:25:ARG:HH22	1.45	0.82
3:AC:83:ARG:O	3:AC:86:VAL:HG22	1.80	0.82
52:BT:32:TYR:CD2	52:BT:32:TYR:N	2.48	0.82

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:BG:171:ALA:O	41:BG:175:LEU:HG	1.80	0.82
50:BR:10:LEU:HB3	50:BR:17:ARG:HD3	1.59	0.82
10:AJ:6:ILE:O	10:AJ:6:ILE:HD12	1.78	0.82
57:BY:79:CYS:SG	57:BY:80:GLY:N	2.50	0.82
35:BA:1485:G:H1'	35:BA:1505:C:H42	1.45	0.82
35:DA:806:C:OP2	48:DP:39:LYS:HD3	1.79	0.82
31:B6:14:THR:O	31:B6:49:HIS:HA	1.79	0.82
35:BA:2524:G:H8	35:BA:2524:G:H5'	1.43	0.82
39:BE:36:ARG:HG2	39:BE:36:ARG:HH11	1.42	0.82
1:CA:1053:G:N7	1:CA:1200:C:H5"	1.95	0.82
24:AY:555:LEU:HD21	24:AY:599:PRO:CG	2.10	0.82
42:DH:30:LYS:HD2	42:DH:81:GLU:HG2	1.62	0.82
40:BF:64:ILE:HG22	40:BF:76:GLY:O	1.80	0.82
31:B6:28:ARG:HB3	31:B6:28:ARG:HH11	1.44	0.81
51:DS:13:ARG:HG3	51:DS:14:VAL:N	1.95	0.81
35:BA:2585:U:O2'	35:BA:2586:C:H5'	1.80	0.81
3:CC:20:SER:HB3	3:CC:40:ARG:NH2	1.95	0.81
52:DT:55:ASN:N	52:DT:59:THR:HG22	1.95	0.81
53:BU:34:LYS:HA	53:BU:34:LYS:HE2	1.60	0.81
25:B0:14:ARG:NH1	25:B0:14:ARG:HB2	1.95	0.81
23:AX:19:U:H5'	24:AY:504:ARG:HB3	1.59	0.81
38:BD:24:ILE:HD13	38:BD:25:THR:H	1.45	0.81
13:AM:15:VAL:HG12	13:AM:45:VAL:HG22	1.62	0.81
35:DA:288:C:H2'	35:DA:289:A:H8	1.44	0.81
24:CY:92:ILE:HG23	24:CY:93:GLU:N	1.94	0.81
52:DT:28:VAL:CG2	52:DT:46:GLU:HG3	2.10	0.81
1:CA:1014:A:H4'	19:CS:14:HIS:CE1	2.15	0.81
12:AL:41:ARG:HG2	12:AL:42:THR:H	1.44	0.81
1:CA:1364:U:O2	1:CA:1364:U:H2'	1.80	0.81
5:AE:64:ARG:HG3	5:AE:64:ARG:HH11	1.45	0.81
12:AL:90:VAL:O	12:AL:92:ASP:N	2.13	0.81
38:BD:27:THR:CG2	38:BD:83:GLU:HG2	2.10	0.81
11:CK:33:THR:HG22	11:CK:39:PRO:HA	1.62	0.81
53:DU:31:SER:HB3	53:DU:34:LYS:HB2	1.61	0.81
1:CA:1490:C:H5'	1:CA:1490:C:H6	1.46	0.81
35:DA:833:U:H5"	48:DP:48:PRO:HB3	1.61	0.81
27:D2:38:GLN:O	27:D2:41:ILE:HG12	1.79	0.81
52:BT:65:LYS:HA	52:BT:65:LYS:NZ	1.96	0.81
41:DG:38:VAL:HG13	41:DG:93:THR:HG23	1.62	0.81
31:B6:19:ARG:HG2	35:BA:2400:G:O5'	1.80	0.81
31:D6:14:THR:O	31:D6:49:HIS:HA	1.79	0.81
26:D1:26:ARG:HG3	26:D1:27:GLU:HG3	1.62	0.81

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:DE:36:ARG:HG2	39:DE:36:ARG:HH11	1.43	0.81
30:B5:55:ARG:C	30:B5:55:ARG:HD3	1.99	0.81
52:BT:89:VAL:CG1	52:BT:91:ARG:HG3	2.10	0.81
27:D2:2:LYS:HB2	35:DA:97:C:H5'	1.62	0.81
9:AI:95:LYS:NZ	9:AI:96:LEU:HD12	1.95	0.81
36:BB:91:C:OP1	49:BQ:16:ARG:HG3	1.80	0.81
24:CY:491:VAL:HG12	24:CY:492:ASP:N	1.96	0.81
38:DD:27:THR:CG2	38:DD:83:GLU:HG2	2.09	0.81
1:AA:1026:G:H2'	1:AA:1027:C:H5'	1.62	0.81
25:B0:40:GLN:NE2	25:B0:43:THR:HA	1.95	0.81
25:D0:50:ASN:HA	25:D0:62:LEU:HD12	1.60	0.81
1:AA:1277:C:H2'	1:AA:1278:U:H5'	1.60	0.81
8:AH:83:ILE:HD12	8:AH:137:VAL:HG22	1.62	0.81
3:CC:175:LEU:HD21	3:CC:201:TYR:HE2	1.45	0.81
47:BO:24:VAL:HG21	47:BO:30:ALA:HB3	1.61	0.81
2:AB:12:GLU:O	2:AB:14:GLY:N	2.13	0.81
41:BG:45:GLU:O	41:BG:51:ARG:HD3	1.80	0.81
35:DA:2473:U:H3'	35:DA:2474:C:C5'	2.08	0.81
24:AY:21:ILE:H	24:AY:21:ILE:HD13	1.43	0.81
35:BA:833:U:H5'	48:BP:48:PRO:HB3	1.61	0.81
33:D8:33:ASN:N	33:D8:33:ASN:HD22	1.77	0.81
37:DC:111:PHE:HE1	37:DC:137:LEU:HD13	1.46	0.81
18:AR:37:VAL:HG23	18:AR:38:GLU:N	1.96	0.81
36:DB:7:G:H5'	51:DS:29:PHE:CE1	2.15	0.81
35:BA:6:A:O2'	46:BN:130:HIS:HB2	1.79	0.81
35:DA:2787:C:H1'	39:DE:61:ARG:HG3	1.61	0.81
10:CJ:9:ARG:HG2	10:CJ:69:ASN:OD1	1.77	0.81
47:DO:43:VAL:HG23	47:DO:56:ASP:O	1.79	0.81
10:AJ:6:ILE:HG22	10:AJ:98:ILE:HD12	1.59	0.81
31:D6:48:VAL:HG23	31:D6:49:HIS:N	1.96	0.81
1:CA:975:A:H5'	1:CA:975:A:H8	1.44	0.81
35:DA:2585:U:O2'	35:DA:2586:C:H5'	1.80	0.81
26:B1:56:GLN:HA	26:B1:56:GLN:HE21	1.46	0.81
52:DT:89:VAL:CG1	52:DT:91:ARG:HG3	2.10	0.81
46:BN:62:VAL:HG22	46:BN:66:LYS:HG3	1.62	0.81
53:DU:34:LYS:HA	53:DU:34:LYS:HE2	1.61	0.81
8:AH:89:PRO:HA	8:AH:92:ARG:NH1	1.96	0.81
24:CY:578:SER:HB3	24:CY:581:ALA:HB2	1.62	0.81
40:DF:155:LEU:HA	40:DF:174:VAL:HB	1.61	0.81
48:DP:6:LEU:HB3	48:DP:9:ASN:ND2	1.95	0.81
47:DO:114:ILE:HD12	47:DO:114:ILE:H	1.45	0.81
58:DZ:145:GLU:O	58:DZ:147:GLY:N	2.12	0.81

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2126:A:H4'	35:BA:2127:G:O5'	1.80	0.81
35:BA:1779:U:H5	35:BA:1784:A:N7	1.76	0.81
1:CA:1129:C:O2'	1:CA:1130:A:C8	2.33	0.81
31:D6:28:ARG:HB3	31:D6:28:ARG:HH11	1.42	0.81
31:D6:54:ILE:O	31:D6:54:ILE:HD12	1.81	0.81
41:BG:172:LEU:HD23	41:BG:176:LEU:HD11	1.63	0.81
35:DA:2761:G:C2'	35:DA:2762:G:H5''	2.10	0.81
29:D4:53:GLU:HB3	29:D4:55:ARG:NE	1.96	0.81
38:BD:91:ARG:HH11	38:BD:91:ARG:HG2	1.44	0.81
27:B2:2:LYS:HD2	27:B2:5:GLU:OE1	1.81	0.81
35:DA:2778:A:H5'	35:DA:2779:U:OP1	1.81	0.81
35:BA:1314:C:H5'	35:BA:1314:C:H6	1.44	0.81
42:DH:98:LEU:HB2	42:DH:125:VAL:CG2	2.06	0.81
30:B5:41:PRO:HG2	30:B5:44:THR:OG1	1.81	0.81
2:AB:31:TYR:HE1	2:AB:200:ILE:HD12	1.46	0.81
9:AI:79:LEU:HD13	9:AI:83:ARG:HB2	1.63	0.81
35:DA:2389:G:H5''	35:DA:2390:U:H5'	1.62	0.81
3:AC:6:HIS:ND1	14:AN:49:HIS:HB3	1.96	0.81
50:DR:4:LEU:O	50:DR:4:LEU:HD13	1.81	0.81
26:D1:45:ASN:HD21	35:DA:2090:G:H21	1.29	0.81
42:BH:171:LEU:HD23	42:BH:172:LYS:O	1.79	0.81
54:BV:40:LEU:HA	54:BV:45:THR:HB	1.63	0.81
38:DD:35:LYS:HG3	38:DD:63:ARG:HG3	1.63	0.81
52:DT:65:LYS:HA	52:DT:65:LYS:NZ	1.95	0.81
18:CR:37:VAL:HG23	18:CR:38:GLU:N	1.96	0.81
3:CC:152:ILE:HG22	3:CC:167:TRP:HA	1.62	0.81
35:BA:598:G:H5'	48:BP:15:ARG:HB2	1.60	0.81
9:CI:95:LYS:HZ3	9:CI:96:LEU:HD12	1.45	0.81
30:D5:40:LYS:NZ	30:D5:46:CYS:H	1.78	0.81
46:BN:129:PRO:O	46:BN:130:HIS:HB3	1.80	0.81
51:DS:65:VAL:O	51:DS:69:VAL:HG12	1.79	0.81
35:BA:1541:G:H1'	35:BA:1542:A:C4	2.16	0.81
42:DH:19:VAL:HG12	42:DH:20:ALA:H	1.46	0.81
24:CY:5:VAL:HG13	24:CY:6:GLU:H	1.46	0.81
24:CY:548:GLU:OE1	24:CY:583:LYS:HE2	1.80	0.81
5:AE:102:ALA:HB2	5:AE:120:THR:OG1	1.81	0.81
24:CY:92:ILE:CG1	24:CY:405:PRO:HG2	2.11	0.80
1:AA:1318:A:H1'	19:AS:37:ARG:NH2	1.95	0.80
25:B0:11:ARG:HB2	25:B0:11:ARG:NH1	1.96	0.80
35:BA:1059:G:H2'	35:BA:1060:U:C5	2.16	0.80
51:BS:89:ARG:HG3	51:BS:92:TYR:CA	2.11	0.80
44:BK:93:ARG:CB	58:BZ:112:ARG:HE	1.94	0.80

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2804:C:H2'	35:DA:2805:G:C8	2.16	0.80
35:DA:1541:G:H1'	35:DA:1542:A:C4	2.17	0.80
4:CD:49:ARG:HE	4:CD:49:ARG:HA	1.44	0.80
35:DA:9:U:H5	35:DA:2629:A:H62	1.27	0.80
53:BU:44:ASN:HD21	54:BV:75:PHE:HB3	1.47	0.80
24:AY:21:ILE:HG13	35:BA:2661:G:H5''	1.61	0.80
51:BS:13:ARG:CG	51:BS:14:VAL:H	1.94	0.80
41:BG:172:LEU:O	41:BG:176:LEU:HG	1.82	0.80
2:CB:121:LEU:HD22	2:CB:126:GLU:HB2	1.63	0.80
52:DT:29:ARG:HB3	52:DT:85:LYS:HA	1.62	0.80
25:B0:43:THR:H	35:BA:2331:G:H4'	1.45	0.80
1:AA:299:G:H2'	1:AA:300:A:C8	2.16	0.80
50:BR:4:LEU:O	50:BR:4:LEU:HD13	1.81	0.80
24:AY:662:LYS:NZ	42:BH:175:LYS:HG3	1.96	0.80
48:BP:57:THR:OG1	48:BP:59:LEU:HB3	1.81	0.80
5:CE:101:ILE:H	5:CE:101:ILE:HD13	1.46	0.80
1:AA:1053:G:N7	1:AA:1200:C:H5''	1.95	0.80
42:BH:83:TYR:HB3	42:BH:134:SER:HA	1.61	0.80
35:BA:979:G:H3'	35:BA:980:A:C5'	2.11	0.80
9:CI:79:LEU:HD13	9:CI:83:ARG:HB2	1.63	0.80
48:BP:23:PRO:HB2	48:BP:33:ARG:HG3	1.61	0.80
35:DA:965:C:C5'	35:DA:2273:A:H1'	2.11	0.80
50:DR:73:VAL:O	50:DR:76:VAL:HG12	1.80	0.80
51:DS:89:ARG:HG3	51:DS:92:TYR:CA	2.10	0.80
1:AA:148:G:H2'	1:AA:149:A:C8	2.17	0.80
24:CY:530:VAL:HG22	24:CY:531:GLY:H	1.45	0.80
35:DA:970:C:H2'	35:DA:971:C:H6	1.45	0.80
1:AA:1342:C:H4'	9:AI:125:TYR:HB3	1.63	0.80
41:DG:5:VAL:HB	41:DG:8:LYS:HB2	1.64	0.80
35:DA:2483:C:H3'	35:DA:2484:G:H5''	1.64	0.80
7:AG:45:ASP:O	7:AG:49:ILE:HG12	1.80	0.80
1:AA:438:G:H4'	1:AA:439:A:OP1	1.79	0.80
1:AA:625:G:H2'	1:AA:626:U:H6	1.47	0.80
24:AY:662:LYS:HZ2	42:BH:175:LYS:CD	1.94	0.80
41:BG:61:ALA:HA	41:BG:64:THR:HG22	1.64	0.80
41:DG:46:ALA:HB2	41:DG:88:ILE:CB	2.12	0.80
35:DA:1142(A):A:H2'	35:DA:1143:A:H5''	1.62	0.80
39:DE:111:ARG:HG3	50:DR:2:ARG:HG2	1.64	0.80
35:DA:203:C:H3'	35:DA:204:A:H5''	1.62	0.80
1:CA:1495:U:H2'	1:CA:1496:C:C6	2.16	0.80
52:DT:53:ARG:HH11	52:DT:53:ARG:HB3	1.47	0.80
35:BA:1539:G:C2	35:BA:1540:U:H1'	2.16	0.80

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:B4:53:GLU:HB3	29:B4:55:ARG:HE	1.47	0.80
24:CY:228:MET:O	24:CY:232:LEU:HD22	1.82	0.80
38:DD:147:LEU:HD13	38:DD:155:LEU:HD11	1.63	0.80
8:CH:89:PRO:HA	8:CH:92:ARG:NH1	1.97	0.80
44:BK:59:ILE:HG12	44:BK:60:TYR:N	1.95	0.80
35:DA:1539:G:C2	35:DA:1540:U:H1'	2.17	0.80
1:CA:438:G:H4'	1:CA:439:A:OP1	1.80	0.80
32:D7:41:ARG:HH22	35:DA:460:A:P	2.04	0.80
32:D7:19:ARG:HD3	35:DA:125:G:H5'	1.63	0.80
29:D4:10:VAL:HG23	29:D4:11:PRO:HD2	1.61	0.80
30:B5:40:LYS:NZ	30:B5:46:CYS:H	1.79	0.80
5:CE:82:VAL:HG21	5:CE:138:ALA:HA	1.63	0.80
38:DD:44:ASN:CB	38:DD:49:ILE:HA	2.11	0.80
24:AY:513:LYS:CB	24:AY:566:THR:HB	2.11	0.80
1:CA:1363(A):A:H4'	1:CA:1364:U:H5''	1.64	0.80
12:AL:6:THR:HG23	12:AL:9:GLN:HE21	1.46	0.80
40:DF:160:ASN:OD1	40:DF:163:VAL:HG23	1.81	0.80
35:BA:2463:C:O2'	35:BA:2464:C:H5'	1.82	0.80
54:DV:38:LEU:O	54:DV:39:LEU:HD13	1.80	0.80
41:BG:135:LEU:HD11	41:BG:155:MET:CG	2.11	0.80
9:AI:114:TYR:HE1	10:AJ:60:ARG:H	1.24	0.80
52:BT:29:ARG:HB3	52:BT:85:LYS:HA	1.63	0.80
35:BA:2761:G:C2'	35:BA:2762:G:H5''	2.11	0.80
1:AA:662:G:H2'	1:AA:663:A:C8	2.17	0.80
49:DQ:6:ARG:O	49:DQ:7:MET:HG3	1.81	0.80
35:BA:226:G:H4'	35:BA:227:A:OP1	1.82	0.80
58:BZ:42:VAL:HG13	58:BZ:43:GLU:H	1.45	0.80
24:CY:193:GLY:HA3	24:CY:266:ASN:HB3	1.62	0.80
40:BF:28:ILE:HD13	40:BF:28:ILE:H	1.47	0.80
38:BD:35:LYS:HG3	38:BD:63:ARG:HG3	1.64	0.80
5:AE:82:VAL:HG21	5:AE:138:ALA:HA	1.64	0.80
27:D2:12:GLU:O	27:D2:16:LEU:HG	1.82	0.80
27:D2:24:LEU:HD22	27:D2:60:LEU:HD11	1.63	0.80
44:BK:77:LEU:H	44:BK:77:LEU:HD23	1.45	0.80
35:DA:2189:U:C2'	35:DA:2190:G:H5''	2.12	0.80
58:BZ:86:VAL:HG12	58:BZ:87:ASP:H	1.46	0.80
12:AL:25:PRO:C	12:AL:27:LEU:H	1.84	0.80
38:DD:24:ILE:HD13	38:DD:25:THR:H	1.46	0.80
40:BF:160:ASN:OD1	40:BF:163:VAL:HG23	1.82	0.80
35:BA:2518:A:H5''	35:BA:2519:U:OP2	1.81	0.80
1:CA:1026:G:H2'	1:CA:1027:C:H5'	1.62	0.80
28:B3:29:ARG:HB2	28:B3:29:ARG:HH11	1.44	0.80

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:573:HIS:HD2	24:AY:576:ASP:H	1.28	0.80
1:CA:1489:G:H2'	1:CA:1490:C:C5'	2.11	0.80
48:BP:6:LEU:HB3	48:BP:9:ASN:ND2	1.96	0.80
53:DU:88:ILE:HG22	54:DV:47:VAL:O	1.82	0.80
9:AI:88:TYR:O	9:AI:89:ASN:HB2	1.81	0.80
1:AA:1219:U:H2'	1:AA:1220:G:H8	1.47	0.80
31:B6:37:ARG:NH1	35:BA:2286:A:N7	2.29	0.80
51:BS:65:VAL:O	51:BS:69:VAL:HG12	1.81	0.80
2:CB:126:GLU:HA	2:CB:129:GLU:OE1	1.80	0.80
22:CW:6:G:H2'	22:CW:7:G:O4'	1.82	0.80
42:DH:83:TYR:HB3	42:DH:134:SER:HA	1.62	0.80
35:DA:1947:C:H2'	35:DA:1948:G:H5''	1.62	0.80
47:DO:104:ARG:HE	52:DT:33:LYS:HE3	1.47	0.80
1:AA:1497:G:O2'	1:AA:1498:U:H5'	1.81	0.80
58:DZ:53:ILE:HG22	58:DZ:71:VAL:HB	1.64	0.80
24:AY:227:ILE:HG23	24:AY:237:PRO:HG2	1.63	0.79
35:DA:212:G:H5'	35:DA:212:G:H8	1.45	0.79
35:BA:212:G:H8	35:BA:212:G:H5'	1.46	0.79
50:DR:63:ARG:HH22	50:DR:77:ARG:HG2	1.47	0.79
2:CB:97:TRP:HZ2	2:CB:102:LEU:HD13	1.45	0.79
2:CB:204:ASN:HD22	2:CB:205:ASP:N	1.80	0.79
1:CA:1442:G:C6	1:CA:1442(B):A:H2	2.00	0.79
35:DA:107:C:H2'	35:DA:108:U:C6	2.17	0.79
55:DW:59:VAL:HG12	55:DW:59:VAL:O	1.83	0.79
37:DC:31:LYS:HE3	37:DC:179:ALA:O	1.82	0.79
1:AA:1435:G:H2'	1:AA:1436:U:C6	2.18	0.79
53:DU:44:ASN:HD21	54:DV:75:PHE:HB3	1.47	0.79
35:DA:861:A:H2'	35:DA:862:G:O4'	1.82	0.79
56:DX:53:LYS:HD2	56:DX:55:ASN:HD21	1.48	0.79
2:AB:97:TRP:HZ2	2:AB:102:LEU:HD13	1.46	0.79
35:DA:979:G:H3'	35:DA:980:A:C5'	2.10	0.79
44:DK:4:VAL:HG12	44:DK:5:VAL:H	1.45	0.79
42:DH:85:LYS:NZ	42:DH:87:LEU:HG	1.96	0.79
38:BD:83:GLU:HB2	38:BD:92:ILE:HD11	1.64	0.79
4:CD:96:LEU:H	4:CD:96:LEU:HD22	1.47	0.79
51:BS:49:VAL:HG12	51:BS:50:SER:H	1.46	0.79
58:DZ:108:PRO:HA	58:DZ:142:SER:HA	1.64	0.79
42:BH:98:LEU:HB2	42:BH:125:VAL:CG2	2.08	0.79
1:AA:1129:C:O2'	1:AA:1130:A:C8	2.34	0.79
48:BP:102:ARG:HB3	48:BP:102:ARG:NH2	1.98	0.79
58:DZ:163:LEU:HD23	58:DZ:163:LEU:H	1.47	0.79
1:CA:148:G:H2'	1:CA:149:A:C8	2.16	0.79

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:DK:59:ILE:HG12	44:DK:60:TYR:H	1.47	0.79
25:D0:43:THR:H	35:DA:2331:G:H4'	1.45	0.79
1:CA:243:A:H4'	1:CA:244:U:O5'	1.80	0.79
48:BP:77:ARG:HB2	48:BP:78:PRO:HD2	1.64	0.79
3:CC:150:LYS:HB2	3:CC:169:ALA:CB	2.12	0.79
35:BA:2068:U:N3	35:BA:2430:A:H2	1.80	0.79
41:BG:91:ARG:HD2	41:BG:92:VAL:N	1.96	0.79
33:B8:48:PHE:O	33:B8:49:VAL:HG13	1.82	0.79
58:DZ:145:GLU:C	58:DZ:147:GLY:H	1.86	0.79
48:DP:30:THR:HG22	48:DP:31:ALA:N	1.98	0.79
35:BA:1142(A):A:H2'	35:BA:1143:A:H5''	1.62	0.79
52:BT:53:ARG:HH11	52:BT:53:ARG:HB3	1.46	0.79
46:DN:129:PRO:O	46:DN:130:HIS:HB3	1.79	0.79
35:DA:1541:G:H4'	35:DA:1542:A:O5'	1.83	0.79
52:DT:80:SER:HB3	52:DT:81:PRO:HD3	1.64	0.79
35:BA:2804:C:H2'	35:BA:2805:G:C8	2.17	0.79
5:CE:81:GLU:HG2	5:CE:90:VAL:HG22	1.65	0.79
34:D9:32:HIS:O	34:D9:34:GLN:HG3	1.82	0.79
42:BH:19:VAL:HG12	42:BH:20:ALA:H	1.46	0.79
41:BG:16:ARG:HE	41:BG:31:VAL:HG11	1.48	0.79
24:AY:122:TRP:CE3	24:AY:132:ARG:HD2	2.18	0.79
53:BU:53:ARG:HA	53:BU:56:ASP:OD2	1.83	0.79
57:BY:7:VAL:HB	57:BY:8:LYS:CD	2.11	0.79
31:D6:43:CYS:HB2	31:D6:44:ARG:HH21	1.48	0.79
48:DP:115:LEU:HA	48:DP:134:ALA:HB3	1.63	0.79
49:BQ:54:MET:HG2	49:BQ:64:ILE:HD13	1.64	0.79
42:BH:41:MET:CG	42:BH:43:VAL:HG13	2.11	0.79
42:BH:85:LYS:NZ	42:BH:87:LEU:HG	1.97	0.79
42:DH:41:MET:CG	42:DH:43:VAL:HG13	2.13	0.79
1:CA:662:G:H2'	1:CA:663:A:C8	2.18	0.79
24:AY:466:LEU:HA	24:AY:470:PHE:CD2	2.18	0.79
35:DA:272(G):C:C2'	35:DA:272(H):C:H5''	2.12	0.79
35:DA:1494:A:C2'	35:DA:1495:A:H5''	2.12	0.79
12:CL:41:ARG:HG2	12:CL:42:THR:H	1.48	0.79
52:BT:80:SER:HB3	52:BT:81:PRO:HD3	1.62	0.79
35:BA:2389:G:H5''	35:BA:2390:U:H5'	1.65	0.79
35:DA:621:A:H2'	35:DA:622:G:H5'	1.63	0.79
12:CL:25:PRO:C	12:CL:27:LEU:H	1.86	0.79
35:BA:861:A:H2'	35:BA:862:G:O4'	1.82	0.79
48:BP:30:THR:HG22	48:BP:31:ALA:N	1.97	0.79
35:DA:299:A:H5'	35:DA:300:A:OP2	1.82	0.79
31:B6:43:CYS:HB2	31:B6:44:ARG:HH21	1.48	0.79

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:CC:34:LEU:HD22	3:CC:38:ARG:HD2	1.65	0.79
35:DA:2584:U:C2'	35:DA:2585:U:H5'	2.11	0.79
33:B8:62:LEU:HD13	35:BA:242:G:H5''	1.63	0.79
44:BK:59:ILE:HG12	44:BK:60:TYR:H	1.48	0.79
13:AM:68:GLY:N	13:AM:71:ARG:HB3	1.97	0.79
1:AA:182:U:H5'	1:AA:183:G:OP2	1.83	0.79
32:B7:41:ARG:HH22	35:BA:460:A:P	2.05	0.79
35:BA:288:C:H2'	35:BA:289:A:H8	1.45	0.79
3:CC:6:HIS:ND1	14:CN:49:HIS:HB3	1.98	0.79
56:DX:53:LYS:HD2	56:DX:55:ASN:ND2	1.97	0.79
51:BS:13:ARG:HG3	51:BS:14:VAL:N	1.97	0.79
27:D2:69:ARG:HG3	27:D2:70:GLN:H	1.48	0.79
44:BK:81:ALA:HB1	44:BK:99:ILE:HD11	1.63	0.79
1:CA:328:C:H2'	1:CA:328:C:O2	1.83	0.79
24:CY:491:VAL:HG12	24:CY:492:ASP:H	1.46	0.79
53:DU:110:VAL:HG12	53:DU:114:LYS:HD3	1.63	0.79
39:BE:1:MET:HB3	39:BE:200:GLU:OE1	1.83	0.79
40:BF:113:ALA:HB1	40:BF:186:ILE:HG21	1.65	0.79
35:BA:533:G:H5''	53:BU:24:TYR:CD2	2.17	0.79
44:DK:81:ALA:HB1	44:DK:99:ILE:HD11	1.63	0.79
33:D8:62:LEU:HD13	35:DA:242:G:H5''	1.63	0.79
46:DN:57:ALA:H	46:DN:124:ALA:HA	1.46	0.79
35:BA:2189:U:C2'	35:BA:2190:G:H5''	2.12	0.79
35:BA:107:C:H2'	35:BA:108:U:C6	2.18	0.79
13:CM:68:GLY:N	13:CM:71:ARG:HB3	1.97	0.79
1:AA:625:G:H2'	1:AA:626:U:C6	2.18	0.79
24:AY:505:GLY:HA3	24:AY:576:ASP:CG	2.03	0.79
7:CG:4:ARG:HB3	7:CG:5:ARG:HH11	1.47	0.79
1:CA:1490:C:C6	1:CA:1490:C:H5'	2.18	0.79
35:BA:1845:G:H2'	35:BA:1846:G:C5'	2.12	0.79
58:DZ:7:ALA:O	58:DZ:62:PRO:HD3	1.82	0.79
10:CJ:32:ALA:HB2	10:CJ:76:ASN:HD22	1.47	0.79
35:BA:1259:G:O2'	35:BA:1260:G:H5'	1.83	0.79
52:DT:118:ARG:HA	52:DT:121:ILE:HB	1.65	0.79
41:DG:34:LEU:H	41:DG:34:LEU:HD12	1.48	0.79
1:AA:814:A:H2'	1:AA:816:A:H5'	1.63	0.79
24:AY:91:THR:O	24:AY:93:GLU:N	2.16	0.79
1:CA:182:U:H5'	1:CA:183:G:OP2	1.83	0.79
24:AY:196:ILE:O	24:AY:197:ARG:HB2	1.83	0.79
35:DA:2476:A:C2'	35:DA:2477:C:H5''	2.13	0.78
24:AY:427:ALA:HB1	24:AY:466:LEU:CD1	2.12	0.78
56:DX:12:VAL:HB	56:DX:17:ALA:CB	2.09	0.78

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2439:A:O2'	35:BA:2587:A:H5''	1.83	0.78
44:BK:100:THR:HA	44:BK:139:VAL:HB	1.65	0.78
14:AN:41:ARG:HG2	14:AN:41:ARG:HH11	1.47	0.78
35:BA:1375:C:H2'	35:BA:1376:C:H6	1.48	0.78
24:CY:65:ILE:O	24:CY:65:ILE:HG12	1.82	0.78
48:DP:77:ARG:HB2	48:DP:78:PRO:HD2	1.63	0.78
35:DA:2122:U:H2'	35:DA:2123:G:C8	2.18	0.78
35:DA:2076:U:H5'	35:DA:2238:G:H22	1.48	0.78
56:BX:53:LYS:HD2	56:BX:55:ASN:HD21	1.47	0.78
24:AY:157:LEU:N	24:AY:157:LEU:HD23	1.97	0.78
35:BA:299:A:H5'	35:BA:300:A:OP2	1.82	0.78
49:DQ:54:MET:HG2	49:DQ:64:ILE:HD13	1.65	0.78
26:B1:5:CYS:SG	26:B1:62:VAL:HA	2.22	0.78
36:BB:87:G:C3'	36:BB:88:C:H5''	2.13	0.78
10:AJ:7:LYS:HB2	10:AJ:97:GLU:HB2	1.63	0.78
35:DA:2514:U:H2'	35:DA:2515:C:H6	1.49	0.78
10:AJ:4:ILE:HD13	10:AJ:74:ILE:HG13	1.66	0.78
35:BA:904:C:H5'	35:BA:904:C:H6	1.47	0.78
33:B8:33:ASN:N	33:B8:33:ASN:HD22	1.79	0.78
38:DD:95:LEU:HD12	38:DD:103:ARG:O	1.83	0.78
50:DR:2:ARG:HD2	50:DR:5:LYS:HE2	1.65	0.78
22:CW:7:G:H5''	22:CW:50:G:OP2	1.84	0.78
1:AA:797:C:OP1	11:AK:124:LYS:HE3	1.83	0.78
42:DH:83:TYR:HB3	42:DH:135:GLY:H	1.49	0.78
15:AO:80:ALA:HB1	15:AO:84:LYS:HE2	1.66	0.78
13:AM:66:LEU:HD12	13:AM:66:LEU:N	1.97	0.78
27:B2:69:ARG:HH22	35:BA:111:A:C4'	1.96	0.78
31:D6:19:ARG:HG2	35:DA:2400:G:O5'	1.81	0.78
35:BA:142:A:H8	35:BA:1595:G:H21	1.31	0.78
36:DB:103:G:H21	58:DZ:73:GLN:NE2	1.81	0.78
42:DH:85:LYS:HE3	42:DH:145:ALA:HB1	1.66	0.78
58:BZ:77:ASP:O	58:BZ:79:ARG:N	2.15	0.78
24:CY:191:ASP:HB3	24:CY:265:LYS:HD2	1.65	0.78
7:CG:45:ASP:O	7:CG:49:ILE:HG12	1.84	0.78
37:BC:111:PHE:HE1	37:BC:137:LEU:HD13	1.48	0.78
11:AK:33:THR:HG22	11:AK:39:PRO:HA	1.64	0.78
41:BG:87:PRO:O	41:BG:88:ILE:HD12	1.83	0.78
33:D8:48:PHE:O	33:D8:49:VAL:HG13	1.83	0.78
24:CY:9:LEU:HD23	24:CY:9:LEU:O	1.82	0.78
9:AI:26:VAL:HG22	9:AI:61:ALA:HB3	1.64	0.78
2:AB:121:LEU:HD22	2:AB:126:GLU:HB2	1.65	0.78
29:D4:56:VAL:HG12	29:D4:56:VAL:O	1.82	0.78

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:AI:95:LYS:HD3	9:AI:96:LEU:N	1.98	0.78
38:DD:83:GLU:HB2	38:DD:92:ILE:HD11	1.65	0.78
12:AL:27:LEU:O	12:AL:29:GLY:N	2.15	0.78
35:BA:1434:A:H61	35:BA:1558:A:N6	1.81	0.78
24:AY:662:LYS:HZ3	42:BH:175:LYS:HG3	1.47	0.78
1:AA:509:A:C5'	1:AA:510:A:OP2	2.30	0.78
54:DV:46:VAL:HG22	54:DV:47:VAL:H	1.49	0.78
53:BU:91:ASP:OD1	53:BU:96:ALA:HB2	1.84	0.78
35:BA:2476:A:C2'	35:BA:2477:C:H5"	2.13	0.78
26:D1:24:ALA:HB2	26:D1:32:LYS:HE3	1.66	0.78
50:BR:2:ARG:HD2	50:BR:5:LYS:HE2	1.66	0.78
28:B3:17:LYS:HZ3	28:B3:20:LYS:HE3	1.48	0.78
39:DE:50:GLY:HA2	39:DE:78:LEU:HB3	1.66	0.78
35:DA:1538:G:H2'	35:DA:1539:G:C8	2.18	0.78
29:B4:53:GLU:HB3	29:B4:55:ARG:NE	1.98	0.78
23:AX:15:A:H5'	23:AX:16:A:OP1	1.83	0.78
3:AC:152:ILE:HG22	3:AC:167:TRP:HA	1.65	0.78
38:DD:144:ALA:HB3	38:DD:192:THR:HG23	1.66	0.78
56:BX:53:LYS:HD2	56:BX:55:ASN:ND2	1.98	0.78
4:AD:13:ARG:O	4:AD:15:GLU:N	2.17	0.78
10:CJ:6:ILE:HD12	10:CJ:6:ILE:O	1.82	0.78
35:DA:1845:G:H2'	35:DA:1846:G:C5'	2.14	0.78
31:D6:37:ARG:NH1	35:DA:2286:A:N7	2.32	0.78
41:DG:76:SER:CB	41:DG:83:ARG:HB3	2.13	0.78
1:CA:1438:G:H2'	1:CA:1439:C:H6	1.46	0.78
35:DA:1007:C:H4'	46:DN:108:PRO:HD3	1.66	0.78
50:DR:21:TYR:HB3	50:DR:47:PHE:CD2	2.19	0.78
36:DB:66:A:H61	36:DB:108:U:H2'	1.47	0.78
30:D5:27:PRO:HG3	55:DW:23:LEU:HD11	1.66	0.78
40:BF:157:VAL:CG2	40:BF:194:MET:HG2	2.13	0.78
1:AA:1037:C:H2'	1:AA:1038:C:C2	2.19	0.78
54:DV:18:LEU:HD22	54:DV:19:LYS:N	1.97	0.78
10:CJ:49:VAL:O	10:CJ:60:ARG:HB3	1.83	0.78
35:BA:545:C:C2'	35:BA:547:A:H5"	2.14	0.78
52:BT:55:ASN:N	52:BT:59:THR:HG22	1.98	0.78
42:DH:149:ARG:HD3	42:DH:164:TYR:CE1	2.19	0.78
8:AH:10:LEU:HD22	8:AH:83:ILE:HD11	1.65	0.78
39:DE:1:MET:HB3	39:DE:200:GLU:OE1	1.84	0.78
24:AY:201:ILE:H	24:AY:201:ILE:HD12	1.49	0.78
24:AY:380:LEU:C	24:AY:381:LYS:HD2	2.04	0.78
1:AA:1238:A:H5'	1:AA:1336:C:N4	1.97	0.78
30:D5:44:THR:HG22	30:D5:45:VAL:H	1.49	0.78

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:DP:91:PHE:HD1	48:DP:91:PHE:H	1.30	0.78
48:BP:91:PHE:H	48:BP:91:PHE:HD1	1.28	0.78
52:BT:13:ARG:HA	52:BT:13:ARG:NH1	1.99	0.78
29:D4:53:GLU:HB3	29:D4:55:ARG:HE	1.46	0.78
35:DA:1434:A:H61	35:DA:1558:A:N6	1.81	0.78
1:CA:1369:C:H2'	1:CA:1370:G:C8	2.18	0.78
35:DA:1188:U:O2'	35:DA:1189:A:H5'	1.83	0.78
4:AD:96:LEU:H	4:AD:96:LEU:HD22	1.48	0.78
35:DA:2518:A:H5''	35:DA:2519:U:OP2	1.84	0.78
42:BH:13:LYS:HA	42:BH:13:LYS:HE2	1.66	0.78
24:CY:230:LYS:NZ	24:CY:237:PRO:HA	1.98	0.78
48:BP:115:LEU:HA	48:BP:134:ALA:HB3	1.64	0.78
35:BA:1188:U:O2'	35:BA:1189:A:H5'	1.84	0.78
20:CT:57:ARG:NH1	20:CT:102:GLY:HA2	1.99	0.78
35:DA:1115:G:H2'	35:DA:1116:C:C6	2.19	0.78
42:DH:175:LYS:O	42:DH:176:ALA:CB	2.32	0.77
42:BH:170:ARG:O	42:BH:171:LEU:HB3	1.84	0.77
24:CY:84:THR:H	24:CY:85:PRO:CD	1.97	0.77
10:CJ:4:ILE:HD13	10:CJ:74:ILE:HG13	1.65	0.77
9:CI:26:VAL:HG22	9:CI:61:ALA:HB3	1.65	0.77
40:BF:3:GLU:HA	40:BF:24:LEU:CG	2.13	0.77
53:BU:47:TYR:HA	53:BU:50:ARG:NH2	1.99	0.77
35:DA:83:G:HO2'	35:DA:84:A:H8	1.31	0.77
3:AC:70:VAL:O	3:AC:106:VAL:HG23	1.83	0.77
1:CA:1037:C:H2'	1:CA:1038:C:C2	2.18	0.77
24:CY:238:THR:HG23	24:CY:241:GLU:H	1.48	0.77
27:D2:69:ARG:HH22	35:DA:111:A:C5'	1.97	0.77
3:AC:46:GLU:O	3:AC:47:LEU:HB2	1.83	0.77
1:AA:1225:A:N3	1:AA:1225:A:H2'	1.99	0.77
36:DB:87:G:C3'	36:DB:88:C:H5''	2.14	0.77
35:BA:1538:G:H2'	35:BA:1539:G:C8	2.18	0.77
35:DA:2657:A:H2'	35:DA:2658:C:H5'	1.65	0.77
35:DA:1578:U:H2'	35:DA:1579:A:H5''	1.66	0.77
10:AJ:40:LEU:N	10:AJ:40:LEU:HD23	1.99	0.77
1:CA:447:G:H2'	1:CA:485:G:N2	1.99	0.77
35:BA:556:G:H2'	35:BA:557:U:C6	2.19	0.77
20:AT:57:ARG:NH1	20:AT:102:GLY:HA2	1.99	0.77
35:BA:2514:U:H2'	35:BA:2515:C:H6	1.48	0.77
22:CV:21:A:H61	22:CV:46:G:H2'	1.47	0.77
7:AG:4:ARG:HB3	7:AG:5:ARG:HH11	1.47	0.77
55:BW:59:VAL:HG12	55:BW:59:VAL:O	1.82	0.77
35:DA:2577:A:H5'	35:DA:2578:G:H5'	1.65	0.77

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1243:G:H1'	48:BP:8:PRO:HB3	1.65	0.77
35:BA:2262:U:H2'	35:BA:2263:C:C5'	2.15	0.77
11:AK:111:ASP:OD2	18:AR:84:LYS:HE2	1.83	0.77
10:AJ:9:ARG:HG2	10:AJ:69:ASN:OD1	1.84	0.77
35:BA:2020:A:C2'	35:BA:2021:C:H5''	2.14	0.77
35:DA:2463:C:O2'	35:DA:2464:C:H5'	1.84	0.77
36:BB:66:A:H61	36:BB:108:U:H2'	1.48	0.77
4:AD:114:ARG:HG3	4:AD:114:ARG:HH11	1.48	0.77
1:CA:1270:C:H2'	1:CA:1271:G:C8	2.19	0.77
22:AV:46:G:H4'	22:AV:47:U:C5	2.15	0.77
3:CC:70:VAL:O	3:CC:106:VAL:HG23	1.84	0.77
58:BZ:4:ARG:HH12	58:BZ:66:SER:HB2	1.50	0.77
44:DK:93:ARG:CB	58:DZ:112:ARG:HE	1.97	0.77
26:B1:76:ARG:NH1	26:B1:95:LEU:HD22	1.99	0.77
1:AA:328:C:O2	1:AA:328:C:H2'	1.84	0.77
9:CI:95:LYS:NZ	9:CI:96:LEU:HD12	1.99	0.77
35:DA:533:G:H5''	53:DU:24:TYR:CD2	2.19	0.77
30:D5:58:LEU:O	30:D5:58:LEU:HD22	1.85	0.77
35:BA:395:U:H2'	35:BA:396:G:C8	2.19	0.77
9:CI:104:ARG:O	9:CI:104:ARG:HG2	1.82	0.77
35:DA:2126:A:H4'	35:DA:2127:G:O5'	1.82	0.77
10:AJ:32:ALA:HB2	10:AJ:76:ASN:HD22	1.49	0.77
4:CD:13:ARG:O	4:CD:15:GLU:N	2.17	0.77
53:DU:47:TYR:HA	53:DU:50:ARG:NH2	1.99	0.77
53:BU:88:ILE:HG22	54:BV:47:VAL:O	1.84	0.77
56:DX:27:THR:HB	56:DX:80:ILE:HG22	1.66	0.77
35:DA:82:G:H5''	35:DA:296:C:H5'	1.65	0.77
35:BA:272(G):C:C2'	35:BA:272(H):C:H5''	2.14	0.77
35:DA:154(A):C:C5'	35:DA:155:U:H5''	2.13	0.77
48:DP:102:ARG:HB3	48:DP:102:ARG:NH2	1.99	0.77
54:BV:18:LEU:HD22	54:BV:19:LYS:N	1.99	0.77
10:CJ:96:ILE:H	10:CJ:96:ILE:HD13	1.48	0.77
40:DF:20:LEU:HD22	40:DF:23:ASP:OD2	1.83	0.77
13:AM:99:ARG:O	13:AM:101:GLN:HG3	1.84	0.77
22:CW:31:G:H2'	22:CW:32:G:H8	1.50	0.77
56:DX:12:VAL:HG12	56:DX:27:THR:O	1.83	0.77
35:DA:2334:G:H5'	51:DS:13:ARG:HD3	1.67	0.77
22:AV:46:G:O3'	22:AV:47:U:H6	1.68	0.77
58:BZ:59:LEU:O	58:BZ:66:SER:HA	1.84	0.77
42:DH:66:GLY:HA2	42:DH:69:ARG:HB3	1.66	0.77
35:BA:871:U:H4'	49:BQ:69:PHE:CE2	2.20	0.77
35:DA:1223:G:H3'	35:DA:1224:C:C5'	2.14	0.77

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:D2:47:ASN:HB2	35:DA:95:G:H1'	1.65	0.77
3:AC:150:LYS:HB2	3:AC:169:ALA:CB	2.14	0.77
53:BU:110:VAL:HG12	53:BU:114:LYS:HD3	1.67	0.77
4:CD:152:SER:O	4:CD:155:LEU:HG	1.85	0.77
35:DA:364:C:H2'	35:DA:365:C:H5''	1.66	0.77
51:DS:49:VAL:HG12	51:DS:50:SER:H	1.49	0.77
4:CD:114:ARG:HG3	4:CD:114:ARG:HH11	1.48	0.77
12:CL:20:LYS:H	12:CL:20:LYS:HD3	1.49	0.77
29:B4:56:VAL:O	29:B4:56:VAL:HG12	1.83	0.77
35:DA:1243:G:H1'	48:DP:8:PRO:HB3	1.64	0.77
53:DU:53:ARG:HA	53:DU:56:ASP:OD2	1.84	0.77
24:CY:174:PHE:CZ	24:CY:261:GLY:HA2	2.20	0.77
44:DK:100:THR:HA	44:DK:139:VAL:HB	1.66	0.77
7:CG:151:TYR:OH	11:CK:54:ARG:HD3	1.85	0.77
41:DG:121:ASN:CB	41:DG:124:SER:HB2	2.14	0.77
35:BA:1348:G:C2'	35:BA:1349:A:H5''	2.14	0.77
24:CY:128:TYR:O	24:CY:129:LYS:HB2	1.83	0.77
35:DA:1434:A:H61	35:DA:1558:A:H62	1.31	0.77
54:DV:58:VAL:O	54:DV:97:LYS:HB2	1.84	0.77
35:BA:1578:U:H2'	35:BA:1579:A:H5''	1.65	0.77
12:CL:6:THR:HG23	12:CL:9:GLN:HE21	1.49	0.77
24:AY:169:GLY:HA3	24:AY:173:THR:O	1.85	0.77
42:BH:171:LEU:HD23	42:BH:171:LEU:C	2.04	0.77
35:DA:904:C:H5'	35:DA:904:C:H6	1.47	0.77
57:DY:7:VAL:HB	57:DY:8:LYS:CD	2.13	0.77
22:CV:17:C:H5''	22:CV:17(A):U:C6	2.17	0.77
35:DA:1946:U:H2'	35:DA:1947:C:C6	2.19	0.77
35:BA:2657:A:H2'	35:BA:2658:C:H5'	1.66	0.77
38:BD:145:VAL:HG22	38:BD:191:ALA:HB1	1.64	0.77
1:AA:559:A:H4'	1:AA:560:U:H5'	1.66	0.77
58:DZ:37:VAL:O	58:DZ:38:TYR:HB3	1.85	0.77
35:BA:2778:A:H5'	35:BA:2779:U:OP1	1.84	0.77
46:BN:35:ARG:O	46:BN:37:LYS:N	2.17	0.77
24:AY:199:ILE:HD12	24:AY:199:ILE:O	1.85	0.77
29:B4:13:ARG:HB3	29:B4:13:ARG:HH11	1.48	0.77
1:CA:1411:C:H2'	1:CA:1412:C:H6	1.50	0.77
1:CA:1238:A:H5'	1:CA:1336:C:N4	1.99	0.77
35:BA:1494:A:C2'	35:BA:1495:A:H5''	2.13	0.77
2:CB:31:TYR:HE1	2:CB:200:ILE:HD12	1.49	0.77
46:BN:96:GLU:N	46:BN:96:GLU:OE2	2.18	0.77
35:BA:533:G:H5''	53:BU:24:TYR:CE2	2.20	0.77
37:BC:90:ALA:HA	37:BC:155:ARG:NH1	2.00	0.77

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1053:C:C3'	35:DA:1054:A:H5''	2.15	0.77
1:CA:1444:C:H2'	1:CA:1445:C:C6	2.19	0.77
36:BB:112:U:H2'	36:BB:113:G:H8	1.49	0.77
42:BH:153:LYS:HG3	42:BH:154:PRO:HD2	1.67	0.77
40:DF:3:GLU:HA	40:DF:24:LEU:CG	2.12	0.77
24:AY:180:VAL:HG23	24:AY:216:LEU:HD12	1.67	0.77
16:CP:20:VAL:CG2	16:CP:32:TYR:HB2	2.14	0.77
52:BT:28:VAL:CG2	52:BT:46:GLU:HG3	2.15	0.77
30:B5:44:THR:HG22	30:B5:45:VAL:H	1.48	0.77
39:DE:47:VAL:HG12	39:DE:48:GLN:N	2.00	0.77
35:DA:2103:C:C2'	35:DA:2104:G:H5''	2.14	0.77
52:DT:83:ILE:HG13	52:DT:84:GLN:N	1.98	0.77
57:DY:62:GLU:HG2	57:DY:63:LYS:H	1.50	0.77
41:DG:77:ILE:HG22	41:DG:80:PHE:N	2.00	0.77
9:CI:17:VAL:HG11	9:CI:81:ILE:HD13	1.66	0.77
35:DA:2068:U:N3	35:DA:2430:A:H2	1.83	0.77
46:DN:65:LYS:HB3	46:DN:69:GLN:HG3	1.67	0.77
1:CA:275:G:H5''	17:CQ:14:LYS:HB2	1.67	0.77
42:DH:171:LEU:C	42:DH:171:LEU:HD23	2.04	0.77
41:BG:68:PRO:CA	41:BG:92:VAL:HG12	2.12	0.77
53:DU:92:ARG:O	53:DU:94:ASN:N	2.18	0.77
30:D5:41:PRO:HG2	30:D5:44:THR:OG1	1.85	0.77
2:AB:22:LYS:H	2:AB:40:HIS:CE1	2.03	0.77
46:DN:35:ARG:O	46:DN:37:LYS:N	2.18	0.77
19:AS:64:GLU:HG2	29:B4:48:ARG:NH2	2.00	0.77
37:DC:90:ALA:HA	37:DC:155:ARG:NH1	2.00	0.77
35:DA:226:G:H4'	35:DA:227:A:OP1	1.83	0.77
41:BG:55:LYS:O	41:BG:58:GLN:HG3	1.85	0.76
41:BG:98:ARG:HH11	41:BG:98:ARG:HG2	1.48	0.76
58:DZ:166:SER:HB2	58:DZ:168:GLU:N	2.00	0.76
38:DD:261:LYS:NZ	38:DD:263:ARG:HH12	1.83	0.76
57:DY:2:ARG:HD3	57:DY:3:VAL:HG23	1.67	0.76
27:B2:69:ARG:HG3	27:B2:70:GLN:H	1.49	0.76
31:D6:27:LYS:HD2	31:D6:27:LYS:O	1.85	0.76
35:DA:871:U:H4'	49:DQ:69:PHE:CE2	2.20	0.76
2:AB:17:PHE:HB3	2:AB:44:LEU:HD21	1.67	0.76
19:CS:64:GLU:HG2	29:D4:48:ARG:NH2	2.00	0.76
1:AA:1250:A:H4'	9:AI:68:GLY:H	1.50	0.76
1:AA:1432:G:OP1	52:BT:107:ASP:HB2	1.85	0.76
1:CA:309:G:H1'	1:CA:608:A:C2	2.20	0.76
24:CY:331:TYR:O	24:CY:371:ALA:HB1	1.84	0.76
1:AA:1116:C:H2'	1:AA:1117:G:H5''	1.67	0.76

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:AI:104:ARG:HG2	9:AI:104:ARG:O	1.84	0.76
11:CK:58:PRO:HA	11:CK:90:GLY:HA3	1.67	0.76
3:AC:3:ASN:O	3:AC:4:LYS:HB2	1.85	0.76
40:BF:20:LEU:HD22	40:BF:23:ASP:OD2	1.84	0.76
35:BA:1007:C:H4'	46:BN:108:PRO:HD3	1.67	0.76
42:DH:170:ARG:O	42:DH:171:LEU:HB3	1.84	0.76
24:CY:630:GLN:NE2	24:CY:646:PHE:HD2	1.84	0.76
54:BV:45:THR:O	54:BV:46:VAL:HG12	1.85	0.76
24:AY:415:PRO:HA	24:AY:474:ALA:CB	2.14	0.76
35:DA:2312:U:OP1	41:DG:73:ALA:HA	1.85	0.76
35:DA:962:G:O2'	35:DA:963:U:H5'	1.84	0.76
42:BH:83:TYR:HB3	42:BH:135:GLY:H	1.48	0.76
35:DA:1689:A:H62	35:DA:1698:A:H2	1.29	0.76
57:BY:2:ARG:HD3	57:BY:3:VAL:HG23	1.67	0.76
1:CA:179:A:H2'	1:CA:180:U:C6	2.20	0.76
22:CV:35:A:O2'	22:CV:36:U:H5'	1.85	0.76
37:BC:31:LYS:HE3	37:BC:179:ALA:O	1.84	0.76
35:BA:2076:U:H5'	35:BA:2238:G:H22	1.47	0.76
16:CP:25:ARG:HG3	16:CP:25:ARG:HH11	1.49	0.76
56:BX:8:ILE:H	56:BX:8:ILE:HD12	1.49	0.76
56:DX:12:VAL:HG12	56:DX:27:THR:HG23	1.67	0.76
41:DG:138:GLN:HB3	41:DG:153:ARG:O	1.86	0.76
3:AC:16:ARG:HH11	3:AC:16:ARG:CB	1.97	0.76
51:DS:34:HIS:CE1	51:DS:54:LEU:HB3	2.20	0.76
35:DA:545:C:C2'	35:DA:547:A:H5''	2.15	0.76
35:BA:108:U:H2'	35:BA:109:G:H8	1.47	0.76
42:BH:85:LYS:HE3	42:BH:145:ALA:HB1	1.65	0.76
52:DT:13:ARG:NH1	52:DT:13:ARG:HA	2.00	0.76
35:BA:979:G:H3'	35:BA:980:A:H5'	1.68	0.76
55:DW:29:LEU:CD1	55:DW:51:LEU:HD11	2.15	0.76
52:DT:32:TYR:CD2	52:DT:32:TYR:N	2.52	0.76
35:DA:1409:C:H2'	35:DA:1410:G:H8	1.49	0.76
35:BA:2483:C:H3'	35:BA:2484:G:H5''	1.66	0.76
24:AY:67:ALA:HB1	24:AY:327:PHE:CZ	2.19	0.76
1:CA:194:C:H2'	1:CA:195:A:H5''	1.66	0.76
35:DA:1390:U:O2'	35:DA:1391:U:H5'	1.84	0.76
35:BA:1053:C:C3'	35:BA:1054:A:H5''	2.15	0.76
37:BC:101:ILE:O	37:BC:105:LEU:HB2	1.85	0.76
35:BA:1517:G:H8	35:BA:1517:G:H5'	1.48	0.76
1:AA:1270:C:H2'	1:AA:1271:G:C8	2.21	0.76
23:CX:12:A:H3'	23:CX:12:A:N3	2.00	0.76
35:BA:84:A:H5''	57:BY:9:LYS:NZ	2.00	0.76

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:DT:65:LYS:HE3	52:DT:66:VAL:N	1.98	0.76
35:DA:1259:G:O2'	35:DA:1260:G:H5'	1.84	0.76
39:DE:59:VAL:HG11	39:DE:63:LEU:HG	1.68	0.76
2:AB:204:ASN:HD22	2:AB:205:ASP:N	1.83	0.76
52:BT:83:ILE:HG13	52:BT:84:GLN:N	2.00	0.76
1:AA:1363(A):A:H4'	1:AA:1364:U:H5''	1.66	0.76
35:BA:2103:C:C2'	35:BA:2104:G:H5''	2.15	0.76
17:CQ:67:LYS:HA	17:CQ:70:ARG:HH12	1.50	0.76
35:BA:1541:G:H4'	35:BA:1542:A:O5'	1.83	0.76
58:BZ:40:ASP:OD1	58:BZ:42:VAL:HG12	1.86	0.76
52:DT:129:ARG:NH2	52:DT:130:ALA:HA	2.00	0.76
6:AF:45:LEU:O	6:AF:46:ARG:HG3	1.84	0.76
12:AL:20:LYS:H	12:AL:20:LYS:HD3	1.48	0.76
1:CA:625:G:H2'	1:CA:626:U:H6	1.50	0.76
35:BA:907:U:OP1	49:BQ:24:GLY:N	2.18	0.76
24:CY:92:ILE:CG2	24:CY:93:GLU:H	1.99	0.76
35:DA:2645:G:C3'	35:DA:2646:C:H5'	2.13	0.76
54:DV:40:LEU:HA	54:DV:45:THR:HB	1.66	0.76
53:BU:47:TYR:HA	53:BU:50:ARG:HH21	1.51	0.76
1:CA:1219:U:H2'	1:CA:1220:G:C8	2.20	0.76
35:BA:2334:G:H5'	51:BS:13:ARG:HD3	1.67	0.76
1:AA:792:A:O2'	1:AA:794:A:N7	2.18	0.76
50:BR:63:ARG:HH22	50:BR:77:ARG:HG2	1.49	0.76
2:AB:124:SER:OG	2:AB:125:PRO:HD2	1.86	0.76
35:BA:2789:C:H1'	35:BA:2892:A:C2	2.20	0.76
1:CA:1250:A:H4'	9:CI:68:GLY:H	1.51	0.76
58:BZ:115:GLY:N	58:BZ:177:PRO:HG3	2.01	0.76
4:CD:98:GLU:HG2	4:CD:189:PRO:HG3	1.68	0.76
35:DA:218:A:H2	35:DA:235:U:H4'	1.51	0.76
1:AA:631:G:H2'	1:AA:632:A:C8	2.21	0.76
44:BK:17:ALA:CB	44:BK:38:VAL:HG22	2.16	0.76
35:DA:907:U:OP1	49:DQ:24:GLY:N	2.18	0.76
36:BB:103:G:H5'	36:BB:104:U:OP2	1.85	0.76
35:DA:2146:C:H4'	35:DA:2147:G:C8	2.21	0.76
53:DU:91:ASP:OD1	53:DU:96:ALA:HB2	1.86	0.76
41:DG:85:GLY:C	41:DG:87:PRO:HD3	2.06	0.76
1:AA:1236:A:H2'	1:AA:1237:C:C6	2.20	0.76
30:D5:3:LYS:HD2	30:D5:5:PRO:HD2	1.66	0.76
35:DA:1348:G:C2'	35:DA:1349:A:H5''	2.14	0.76
1:CA:942:G:H21	9:CI:124:GLN:NE2	1.84	0.76
44:BK:93:ARG:HB2	58:BZ:112:ARG:HH21	1.50	0.76
36:DB:82:G:O2'	36:DB:83:G:H5'	1.85	0.76

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1517:G:H8	35:DA:1517:G:H5'	1.51	0.76
13:CM:99:ARG:O	13:CM:101:GLN:HG3	1.86	0.76
56:DX:8:ILE:H	56:DX:8:ILE:HD12	1.50	0.76
35:BA:82:G:H5''	35:BA:296:C:H5'	1.67	0.76
1:AA:194:C:H2'	1:AA:195:A:H5''	1.67	0.76
44:DK:17:ALA:HB3	44:DK:38:VAL:HG22	1.68	0.76
24:AY:21:ILE:HG21	24:AY:88:VAL:HG13	1.67	0.76
38:DD:35:LYS:CG	38:DD:63:ARG:HG3	2.15	0.76
31:B6:27:LYS:HB3	31:B6:32:ASN:ND2	2.01	0.76
5:CE:87:SER:HB3	5:CE:131:ILE:CD1	2.14	0.76
35:BA:154(A):C:C5'	35:BA:155:U:H5''	2.14	0.76
35:BA:2807:G:H1	35:BA:2893:G:H1	1.33	0.76
35:DA:2713:A:H3'	35:DA:2714:G:H5'	1.68	0.76
1:CA:1225:A:H2'	1:CA:1225:A:N3	2.00	0.76
1:CA:797:C:OP1	11:CK:124:LYS:HE3	1.86	0.76
49:BQ:59:ARG:HB3	58:BZ:180:VAL:HG21	1.67	0.76
35:BA:1223:G:H3'	35:BA:1224:C:C5'	2.15	0.76
4:AD:152:SER:O	4:AD:155:LEU:HG	1.85	0.76
50:BR:21:TYR:HB3	50:BR:47:PHE:CD2	2.20	0.76
35:DA:882:G:H2'	35:DA:883:G:C8	2.20	0.76
35:BA:654(S):G:H3'	35:BA:654(T):C:C5'	2.16	0.76
1:AA:1030(D):A:H2'	1:AA:1031:G:H5'	1.68	0.76
24:CY:592:GLU:HA	24:CY:595:GLN:HB2	1.68	0.76
3:AC:142:MET:HE2	3:AC:171:GLY:HA3	1.67	0.76
41:BG:86:MET:N	41:BG:87:PRO:HD3	2.00	0.76
61:CY:702:FUA:C12	61:CY:702:FUA:H231	2.15	0.76
33:B8:48:PHE:O	33:B8:49:VAL:HG22	1.85	0.76
52:BT:115:ARG:HB3	52:BT:115:ARG:NH1	2.00	0.76
26:D1:46:LEU:HD22	26:D1:46:LEU:N	2.01	0.76
52:DT:38:ASN:C	52:DT:38:ASN:ND2	2.40	0.76
38:BD:44:ASN:HB2	38:BD:48:ARG:O	1.85	0.76
11:CK:111:ASP:OD2	18:CR:84:LYS:HE2	1.85	0.76
26:D1:86:SER:O	26:D1:90:ILE:HG12	1.85	0.76
42:BH:85:LYS:C	42:BH:85:LYS:HD3	2.06	0.76
42:DH:85:LYS:HD3	42:DH:85:LYS:C	2.06	0.76
13:CM:19:LEU:HB3	13:CM:25:ILE:HG21	1.68	0.76
24:CY:548:GLU:O	24:CY:551:GLN:HG2	1.85	0.76
3:CC:142:MET:HE2	3:CC:171:GLY:HA3	1.67	0.76
37:DC:101:ILE:O	37:DC:105:LEU:HB2	1.86	0.76
1:AA:1239:A:H2'	1:AA:1298:C:H42	1.51	0.76
1:CA:103:C:H3'	1:CA:104:G:H8	1.50	0.76
35:DA:1375:C:H2'	35:DA:1376:C:H6	1.50	0.76

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
30:D5:25:LEU:HD12	55:DW:19:LEU:HB3	1.67	0.76
24:AY:238:THR:HG22	24:AY:241:GLU:CG	2.16	0.76
53:BU:92:ARG:O	53:BU:94:ASN:N	2.18	0.76
57:BY:8:LYS:HD2	57:BY:8:LYS:N	2.01	0.76
27:B2:69:ARG:NH2	35:BA:111:A:H4'	2.00	0.76
41:DG:67:LYS:HD3	41:DG:68:PRO:N	2.00	0.76
1:CA:1239:A:H2'	1:CA:1298:C:H42	1.50	0.76
27:D2:10:LEU:O	27:D2:14:ARG:HG2	1.86	0.76
46:BN:57:ALA:H	46:BN:124:ALA:HA	1.50	0.76
51:DS:96:GLY:O	51:DS:98:VAL:N	2.18	0.76
54:BV:58:VAL:O	54:BV:97:LYS:HB2	1.85	0.76
35:BA:2852:G:H2'	35:BA:2853:C:C6	2.20	0.76
1:AA:309:G:H1'	1:AA:608:A:C2	2.21	0.76
38:BD:144:ALA:HB3	38:BD:192:THR:HG23	1.66	0.76
35:BA:2636:U:H4'	39:BE:80:GLU:OE1	1.86	0.76
35:BA:882:G:H2'	35:BA:883:G:C8	2.20	0.76
41:BG:106:LEU:HA	41:BG:110:ALA:HB3	1.66	0.76
10:AJ:71:LEU:HD12	10:AJ:72:VAL:H	1.51	0.76
10:AJ:3:LYS:HZ2	10:AJ:76:ASN:HA	1.51	0.76
27:B2:69:ARG:CG	27:B2:70:GLN:H	1.99	0.76
31:D6:11:LEU:HG	31:D6:26:ASN:HD21	1.51	0.76
33:D8:13:ARG:HD3	48:DP:61:ARG:O	1.86	0.76
52:DT:115:ARG:HB3	52:DT:115:ARG:NH1	2.01	0.76
50:BR:87:TYR:O	50:BR:89:ASP:N	2.19	0.76
28:D3:8:LEU:HD22	28:D3:31:LEU:CD2	2.14	0.76
35:DA:142:A:H8	35:DA:1595:G:H21	1.32	0.76
10:AJ:54:PHE:CG	10:AJ:55:LYS:HE3	2.20	0.76
35:BA:676:A:H1'	35:BA:2443:C:H1'	1.68	0.76
3:CC:175:LEU:HD21	3:CC:201:TYR:CE2	2.20	0.76
9:CI:95:LYS:HD3	9:CI:96:LEU:N	2.00	0.76
35:DA:674:G:H1'	40:DF:74:ARG:HD3	1.68	0.76
35:DA:556:G:H2'	35:DA:557:U:C6	2.21	0.76
36:DB:112:U:H2'	36:DB:113:G:H8	1.49	0.76
53:DU:54:LYS:O	53:DU:58:ARG:HG3	1.86	0.75
24:CY:227:ILE:HG23	24:CY:237:PRO:HG2	1.67	0.75
54:BV:15:GLU:HB3	54:BV:16:PRO:CD	2.16	0.75
48:DP:95:VAL:HA	48:DP:99:LEU:HD23	1.67	0.75
35:DA:2262:U:H2'	35:DA:2263:C:C5'	2.16	0.75
1:CA:1206:G:H4'	3:CC:192:THR:O	1.86	0.75
35:DA:979:G:H3'	35:DA:980:A:H5'	1.68	0.75
39:DE:200:GLU:N	39:DE:200:GLU:OE2	2.17	0.75
15:CO:39:LEU:HD13	15:CO:56:LEU:HB2	1.68	0.75

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:286:C:H6	35:BA:286:C:H5'	1.51	0.75
11:AK:58:PRO:HA	11:AK:90:GLY:HA3	1.68	0.75
55:BW:29:LEU:HD11	55:BW:51:LEU:HD11	1.67	0.75
41:BG:97:ASP:HB2	41:BG:98:ARG:NH1	2.00	0.75
57:DY:8:LYS:HB2	57:DY:28:LYS:HZ1	1.51	0.75
38:BD:261:LYS:NZ	38:BD:263:ARG:HH12	1.85	0.75
51:DS:13:ARG:CG	51:DS:14:VAL:H	1.93	0.75
33:D8:56:GLU:HA	33:D8:59:LYS:HZ1	1.48	0.75
24:CY:137:ASN:HD21	24:CY:263:ALA:HB3	1.50	0.75
52:DT:28:VAL:CG2	52:DT:46:GLU:HA	2.15	0.75
41:BG:172:LEU:CD2	41:BG:176:LEU:HD11	2.16	0.75
5:AE:87:SER:HB3	5:AE:131:ILE:CD1	2.16	0.75
41:DG:107:LEU:HD11	41:DG:178:PHE:CE1	2.21	0.75
46:DN:23:LEU:HB3	46:DN:60:ILE:HG21	1.68	0.75
27:D2:6:VAL:HA	27:D2:9:GLN:OE1	1.86	0.75
34:D9:27:CYS:SG	34:D9:28:GLU:N	2.60	0.75
10:AJ:96:ILE:HD13	10:AJ:96:ILE:H	1.50	0.75
49:BQ:6:ARG:O	49:BQ:7:MET:HG3	1.84	0.75
35:BA:840:C:H2'	35:BA:841:A:H5''	1.69	0.75
24:CY:289:ILE:HG22	24:CY:290:LYS:N	2.01	0.75
10:CJ:40:LEU:HD23	10:CJ:40:LEU:N	2.01	0.75
42:BH:149:ARG:HD3	42:BH:164:TYR:CE1	2.21	0.75
24:AY:6:GLU:O	24:AY:6:GLU:HG2	1.86	0.75
35:BA:878:A:H2'	35:BA:879:G:O4'	1.87	0.75
54:DV:45:THR:O	54:DV:46:VAL:HG12	1.85	0.75
24:AY:281:PRO:HB2	24:AY:286:ILE:CD1	2.15	0.75
35:BA:1748:G:H8	35:BA:1748:G:H5'	1.51	0.75
40:DF:157:VAL:CG2	40:DF:194:MET:HG2	2.16	0.75
41:DG:39:ILE:HA	41:DG:156:ASP:O	1.86	0.75
2:CB:124:SER:OG	2:CB:125:PRO:HD2	1.85	0.75
48:BP:95:VAL:HA	48:BP:99:LEU:HD23	1.68	0.75
34:D9:18:ARG:O	34:D9:18:ARG:HG2	1.86	0.75
35:DA:2789:C:H1'	35:DA:2892:A:C2	2.21	0.75
19:CS:14:HIS:HD2	19:CS:15:LEU:HD23	1.50	0.75
26:B1:3:LYS:HG3	26:B1:4:VAL:H	1.51	0.75
13:CM:66:LEU:HD12	13:CM:66:LEU:N	2.00	0.75
44:BK:17:ALA:HB3	44:BK:38:VAL:HG22	1.67	0.75
52:BT:129:ARG:NH2	52:BT:130:ALA:HA	2.01	0.75
35:DA:840:C:H2'	35:DA:841:A:H5''	1.68	0.75
4:AD:61:LYS:HE2	4:AD:62:GLN:HE21	1.52	0.75
29:D4:13:ARG:HH11	29:D4:13:ARG:HB3	1.50	0.75
35:BA:991:C:H6	35:BA:991:C:H5'	1.50	0.75

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:363:ARG:HH11	24:AY:363:ARG:HG3	1.51	0.75
22:CW:41:C:O2'	22:CW:42:C:H5'	1.86	0.75
42:BH:175:LYS:O	42:BH:176:ALA:CB	2.33	0.75
53:DU:47:TYR:HA	53:DU:50:ARG:HH21	1.51	0.75
53:DU:112:ARG:HH22	54:DV:46:VAL:HG11	1.49	0.75
31:B6:5:VAL:HG12	31:B6:6:ARG:O	1.86	0.75
42:DH:13:LYS:HA	42:DH:13:LYS:HE2	1.67	0.75
56:DX:35:THR:O	56:DX:39:ILE:HG12	1.86	0.75
39:BE:50:GLY:HA2	39:BE:78:LEU:HB3	1.68	0.75
52:DT:89:VAL:HG12	52:DT:91:ARG:HG3	1.68	0.75
3:AC:86:VAL:O	3:AC:89:GLU:HB3	1.85	0.75
19:CS:78:ARG:HB2	19:CS:81:ARG:HH11	1.51	0.75
46:BN:67:LEU:O	46:BN:68:GLU:HB2	1.86	0.75
24:CY:491:VAL:HG13	24:CY:596:LYS:HE2	1.67	0.75
39:BE:200:GLU:OE2	39:BE:200:GLU:N	2.18	0.75
35:DA:2461:C:H5'	35:DA:2462:U:OP2	1.85	0.75
35:DA:2020:A:C2'	35:DA:2021:C:H5''	2.17	0.75
16:AP:25:ARG:HH11	16:AP:25:ARG:HG3	1.51	0.75
58:DZ:182:LYS:O	58:DZ:183:LEU:HD23	1.86	0.75
38:DD:44:ASN:HB2	38:DD:48:ARG:O	1.85	0.75
42:BH:66:GLY:HA2	42:BH:69:ARG:HB3	1.68	0.75
56:BX:35:THR:O	56:BX:39:ILE:HG12	1.87	0.75
36:BB:87:G:H3'	36:BB:88:C:H5''	1.68	0.75
10:AJ:63:PHE:HB3	14:AN:58:LYS:HA	1.66	0.75
10:CJ:63:PHE:HB3	14:CN:58:LYS:HA	1.68	0.75
35:DA:676:A:H8	35:DA:2069:G:H21	1.32	0.75
38:BD:132:PRO:HG3	38:BD:190:TYR:CE1	2.22	0.75
54:DV:77:ALA:O	54:DV:79:VAL:HG23	1.87	0.75
14:AN:27:CYS:HG	59:AN:101:ZN:ZN	0.95	0.75
24:CY:16:GLY:O	24:CY:104:ALA:HB1	1.86	0.75
1:CA:1030(D):A:H2'	1:CA:1031:G:H5'	1.68	0.75
35:BA:2147:G:H2'	35:BA:2148:G:O4'	1.85	0.75
13:AM:6:GLY:C	13:AM:8:GLU:H	1.90	0.75
35:DA:2178:C:H4'	37:DC:47:LYS:HD3	1.68	0.75
35:DA:83:G:O2'	35:DA:84:A:H8	1.68	0.75
30:B5:4:HIS:CB	30:B5:5:PRO:HD3	2.16	0.75
1:AA:1014:A:H4'	19:AS:14:HIS:CE1	2.22	0.75
2:AB:165:VAL:HG23	2:AB:166:ASP:N	2.01	0.75
35:BA:1946:U:H2'	35:BA:1947:C:C6	2.22	0.75
16:AP:74:LEU:HD23	16:AP:79:VAL:HG21	1.68	0.75
35:BA:2666:C:H5'	35:BA:2667:C:OP2	1.87	0.75
35:BA:279:C:H2'	35:BA:280:C:H5''	1.68	0.75

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2593:U:H2'	35:BA:2594:C:H6	1.52	0.75
1:CA:559:A:H4'	1:CA:560:U:H5'	1.68	0.75
35:DA:286:C:H6	35:DA:286:C:H5'	1.52	0.75
5:AE:81:GLU:HG2	5:AE:90:VAL:HG22	1.68	0.75
36:BB:48:A:H4'	51:BS:95:HIS:HD2	1.50	0.75
24:AY:453:GLY:HA3	24:AY:459:LEU:CD1	2.16	0.75
48:BP:126:VAL:HA	48:BP:145:PRO:CB	2.16	0.75
2:CB:17:PHE:HB3	2:CB:44:LEU:HD21	1.68	0.75
35:BA:2308:G:O6	35:BA:2310:A:H2'	1.87	0.75
52:BT:118:ARG:HA	52:BT:121:ILE:HB	1.67	0.75
52:BT:89:VAL:HG12	52:BT:91:ARG:HG3	1.67	0.75
35:BA:676:A:H8	35:BA:2069:G:H21	1.33	0.75
1:CA:625:G:H2'	1:CA:626:U:C6	2.21	0.75
26:D1:92:LYS:HE2	35:DA:153:C:OP1	1.87	0.75
22:AV:53:G:O2'	22:AV:54:5MU:H5''	1.86	0.75
35:BA:1963:U:H2'	35:BA:1963:U:O2	1.86	0.75
24:CY:517:LEU:HD11	24:CY:564:LYS:HB2	1.68	0.75
46:BN:65:LYS:HB3	46:BN:69:GLN:HG3	1.68	0.75
40:DF:28:ILE:HD13	40:DF:28:ILE:H	1.49	0.75
41:BG:145:THR:HG23	41:BG:148:MET:HB2	1.66	0.75
24:AY:215:LYS:O	24:AY:219:VAL:HG23	1.86	0.75
41:DG:111:LEU:HB2	41:DG:112:PRO:HD3	1.68	0.75
58:BZ:166:SER:HB2	58:BZ:167:PRO:CA	2.17	0.75
50:DR:87:TYR:O	50:DR:89:ASP:N	2.19	0.75
3:CC:16:ARG:HH11	3:CC:16:ARG:CB	2.00	0.75
39:BE:59:VAL:HG11	39:BE:63:LEU:HG	1.68	0.75
19:AS:14:HIS:HD2	19:AS:15:LEU:HD23	1.52	0.75
19:AS:44:MET:SD	19:AS:44:MET:N	2.59	0.75
24:CY:170:ARG:HD2	24:CY:170:ARG:N	2.00	0.75
1:CA:178:C:O2'	1:CA:179:A:H5'	1.85	0.75
44:DK:17:ALA:CB	44:DK:38:VAL:HG22	2.17	0.75
18:AR:31:LEU:H	18:AR:31:LEU:HD23	1.51	0.75
7:AG:145:ALA:O	7:AG:146:GLU:HB2	1.85	0.75
35:DA:2666:C:H5'	35:DA:2667:C:OP2	1.86	0.75
35:DA:395:U:H2'	35:DA:396:G:C8	2.20	0.75
42:BH:18:GLU:HB2	42:BH:25:LYS:HB2	1.67	0.75
38:DD:132:PRO:HG3	38:DD:190:TYR:CE1	2.21	0.75
24:CY:149:VAL:O	24:CY:152:THR:HG22	1.87	0.75
48:DP:126:VAL:HA	48:DP:145:PRO:CB	2.16	0.75
14:CN:41:ARG:HH11	14:CN:41:ARG:HG2	1.52	0.75
36:DB:86:G:H2'	36:DB:87:G:C8	2.22	0.75
46:DN:67:LEU:O	46:DN:68:GLU:HB2	1.85	0.75

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:BB:86:G:H2'	36:BB:87:G:C8	2.21	0.75
12:AL:45:PRO:HG3	12:AL:53:ARG:HD3	1.69	0.75
6:CF:45:LEU:O	6:CF:46:ARG:HG3	1.87	0.75
24:AY:313:ALA:HA	24:AY:328:ILE:HG22	1.67	0.75
32:D7:23:ARG:C	32:D7:28:ARG:HH12	1.89	0.75
1:AA:1206:G:H4'	3:AC:192:THR:O	1.87	0.75
37:BC:28:ARG:HG2	37:BC:183:PRO:HB3	1.68	0.75
35:DA:2852:G:H2'	35:DA:2853:C:C6	2.22	0.75
26:D1:7:ILE:HG22	26:D1:66:HIS:HD2	1.49	0.75
48:DP:7:ARG:O	48:DP:10:PRO:HD2	1.86	0.74
41:BG:98:ARG:NH1	41:BG:98:ARG:HG2	2.01	0.74
24:CY:21:ILE:O	24:CY:22:ASP:HB2	1.84	0.74
61:CY:702:FUA:C5	61:CY:702:FUA:H202	2.14	0.74
16:AP:22:THR:HA	16:AP:33:ILE:HG12	1.69	0.74
38:BD:35:LYS:CG	38:BD:63:ARG:HG3	2.17	0.74
31:D6:35:GLU:CB	31:D6:51:GLU:HB2	2.17	0.74
48:BP:16:ARG:HB2	48:BP:16:ARG:NH1	2.02	0.74
1:CA:1321:C:C3'	1:CA:1322:C:H5''	2.16	0.74
35:DA:108:U:H2'	35:DA:109:G:H8	1.50	0.74
57:BY:62:GLU:HG2	57:BY:63:LYS:H	1.52	0.74
12:CL:27:LEU:O	12:CL:29:GLY:N	2.20	0.74
35:DA:2195:C:O2'	35:DA:2196:C:H5'	1.87	0.74
12:AL:80:HIS:O	12:AL:81:SER:HB2	1.86	0.74
4:AD:160:GLN:O	4:AD:163:GLU:HB3	1.87	0.74
1:AA:382:A:H2'	1:AA:383:A:C8	2.22	0.74
34:B9:27:CYS:SG	34:B9:28:GLU:N	2.60	0.74
37:DC:23:ILE:HB	37:DC:229:SER:OXT	1.87	0.74
35:BA:654(G):C:H2'	35:BA:654(H):G:H8	1.51	0.74
35:DA:548:A:H2'	35:DA:549:G:H5'	1.67	0.74
32:B7:19:ARG:HD3	35:BA:125:G:H5'	1.69	0.74
22:CV:2:G:C5'	25:D0:8:GLY:HA2	2.17	0.74
24:CY:486:THR:O	24:CY:600:VAL:HG12	1.87	0.74
50:BR:11:ASN:OD1	50:BR:12:ARG:N	2.20	0.74
41:BG:60:LEU:O	41:BG:63:ILE:HD11	1.86	0.74
35:BA:2392:A:H8	48:BP:60:MET:HB3	1.50	0.74
35:DA:297:C:H2'	35:DA:298:G:O4'	1.87	0.74
19:CS:32:LYS:HA	19:CS:50:ALA:HB3	1.68	0.74
24:CY:33:LEU:HD23	24:CY:360:ALA:CB	2.16	0.74
2:AB:168:THR:HG23	2:AB:192:SER:CB	2.16	0.74
24:CY:546:ILE:CD1	24:CY:565:VAL:HG11	2.17	0.74
24:AY:428:LEU:CD1	24:AY:440:VAL:HG11	2.17	0.74
39:BE:49:LEU:HD22	39:BE:49:LEU:N	2.01	0.74

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
47:BO:17:ARG:NE	47:BO:47:ILE:HD11	2.02	0.74
46:DN:58:ASP:C	46:DN:60:ILE:H	1.91	0.74
42:DH:20:ALA:HB1	42:DH:21:PRO:CD	2.17	0.74
53:DU:110:VAL:HG12	53:DU:114:LYS:CD	2.17	0.74
35:DA:2122:U:H2'	35:DA:2123:G:H8	1.51	0.74
1:AA:1296:C:H5'	1:AA:1297:C:OP2	1.87	0.74
1:AA:1369:C:H2'	1:AA:1370:G:C8	2.21	0.74
1:CA:1072:G:H2'	1:CA:1073:U:C6	2.22	0.74
35:DA:49:A:H5''	35:DA:51:G:O4'	1.88	0.74
35:BA:751:A:H5'	55:BW:90:ARG:HA	1.69	0.74
10:CJ:47:PHE:CZ	14:CN:37:PHE:HE2	2.05	0.74
50:DR:62:ALA:O	50:DR:66:VAL:HG23	1.87	0.74
37:BC:23:ILE:HB	37:BC:229:SER:OXT	1.86	0.74
56:BX:27:THR:HB	56:BX:80:ILE:HG22	1.68	0.74
24:CY:25:LYS:HE2	24:CY:86:GLY:H	1.52	0.74
53:BU:112:ARG:HH22	54:BV:46:VAL:HG11	1.52	0.74
53:BU:54:LYS:O	53:BU:58:ARG:HG3	1.86	0.74
61:AY:702:FUA:H202	61:AY:702:FUA:C5	2.15	0.74
35:DA:1748:G:H8	35:DA:1748:G:H5'	1.51	0.74
57:BY:8:LYS:HB2	57:BY:28:LYS:HZ3	1.50	0.74
3:CC:86:VAL:O	3:CC:89:GLU:HB3	1.88	0.74
51:BS:34:HIS:CE1	51:BS:54:LEU:HB3	2.22	0.74
40:BF:195:ASP:OD1	40:BF:196:LEU:N	2.18	0.74
30:D5:55:ARG:HH22	50:DR:33:ARG:HG2	1.53	0.74
12:AL:41:ARG:CG	12:AL:42:THR:H	1.98	0.74
27:D2:47:ASN:ND2	35:DA:94(A):G:H21	1.85	0.74
33:B8:2:PRO:HA	35:BA:591:C:O2	1.86	0.74
41:BG:108:ASN:O	41:BG:109:VAL:HG23	1.87	0.74
16:AP:20:VAL:CG2	16:AP:32:TYR:HB2	2.15	0.74
24:AY:423:LYS:HB3	24:AY:472:VAL:CG2	2.17	0.74
58:DZ:29:TYR:HB3	58:DZ:34:ASN:CB	2.16	0.74
35:BA:83:G:O2'	35:BA:84:A:H8	1.69	0.74
48:DP:47:ASP:HB3	48:DP:48:PRO:HA	1.69	0.74
54:DV:18:LEU:CD2	54:DV:19:LYS:H	2.00	0.74
1:CA:235:C:H5'	17:CQ:70:ARG:HG2	1.70	0.74
50:DR:9:LYS:O	50:DR:10:LEU:HD23	1.85	0.74
24:CY:529:ILE:HD11	24:CY:567:LEU:HD11	1.68	0.74
35:DA:676:A:H1'	35:DA:2443:C:H1'	1.68	0.74
35:DA:878:A:H2'	35:DA:879:G:O4'	1.87	0.74
35:BA:548:A:H2'	35:BA:549:G:H5'	1.67	0.74
7:CG:145:ALA:O	7:CG:146:GLU:HB2	1.87	0.74
42:DH:96:ALA:HB1	42:DH:103:LEU:HD11	1.68	0.74

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
18:CR:31:LEU:HD23	18:CR:31:LEU:H	1.51	0.74
24:AY:446:THR:O	24:AY:448:GLN:HG2	1.87	0.74
35:BA:1220:A:H3'	35:BA:1221:C:H5'	1.69	0.74
35:DA:2150:U:H2'	35:DA:2151:G:C8	2.23	0.74
10:AJ:82:ILE:O	10:AJ:86:MET:HB2	1.87	0.74
24:AY:165:GLN:HB2	24:AY:260:LEU:HD11	1.69	0.74
24:AY:25:LYS:HE3	62:AY:703:GDP:PB	2.27	0.74
35:DA:84:A:H5''	57:DY:9:LYS:NZ	2.02	0.74
31:D6:6:ARG:N	31:D6:6:ARG:HD2	2.02	0.74
36:BB:7:G:C2'	36:BB:8:U:H5''	2.16	0.74
18:CR:59:SER:H	18:CR:62:GLU:HB2	1.53	0.74
42:DH:17:VAL:O	42:DH:45:VAL:HG22	1.87	0.74
42:DH:85:LYS:HZ3	42:DH:87:LEU:HG	1.53	0.74
35:BA:2020:A:O2'	35:BA:2021:C:H5''	1.87	0.74
26:D1:67:ILE:N	26:D1:68:PRO:HD2	2.02	0.74
9:AI:47:LEU:N	9:AI:47:LEU:HD12	2.03	0.74
1:AA:552:U:H4'	12:AL:86:ARG:HG2	1.69	0.74
1:AA:294:U:H2'	1:AA:295:C:H6	1.52	0.74
20:AT:50:GLU:HG3	20:AT:51:GLU:N	2.01	0.74
35:DA:1001:A:H2'	35:DA:1002:G:O4'	1.87	0.74
35:DA:2593:U:H2'	35:DA:2594:C:H6	1.51	0.74
1:AA:1321:C:C3'	1:AA:1322:C:H5''	2.17	0.74
17:AQ:67:LYS:HA	17:AQ:70:ARG:HH12	1.53	0.74
35:BA:2713:A:H3'	35:BA:2714:G:H5'	1.69	0.74
5:CE:9:LYS:CB	5:CE:112:LEU:HD11	2.18	0.74
36:DB:87:G:H3'	36:DB:88:C:H5''	1.69	0.74
4:AD:98:GLU:HG2	4:AD:189:PRO:HG3	1.69	0.74
19:AS:9:VAL:O	19:AS:11:VAL:N	2.21	0.74
1:CA:1116:C:H2'	1:CA:1117:G:H5''	1.70	0.74
35:DA:1220:A:H3'	35:DA:1221:C:H5'	1.68	0.74
1:AA:275:G:H5''	17:AQ:14:LYS:HB2	1.68	0.74
58:DZ:97:GLU:HG3	58:DZ:127:LYS:HD3	1.70	0.74
14:AN:23:ARG:HD2	14:AN:28:GLY:O	1.86	0.74
8:AH:17:THR:HB	8:AH:78:GLN:OE1	1.87	0.74
1:AA:179:A:H2'	1:AA:180:U:C6	2.22	0.74
35:DA:2313:C:H5'	35:DA:2313:C:H6	1.53	0.74
51:BS:95:HIS:CG	51:BS:96:GLY:H	2.06	0.74
3:CC:58:GLU:O	3:CC:59:ARG:HG3	1.87	0.74
5:CE:76:ILE:HG13	5:CE:142:LEU:HD13	1.70	0.74
35:DA:580:C:H2'	35:DA:581:C:H6	1.53	0.74
34:B9:18:ARG:O	34:B9:18:ARG:HG2	1.87	0.74
39:DE:11:MET:HB2	39:DE:23:VAL:O	1.88	0.74

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
23:AX:19:U:H5''	24:AY:504:ARG:HD3	1.68	0.74
35:BA:2461:C:H5'	35:BA:2462:U:OP2	1.87	0.74
4:CD:61:LYS:HE2	4:CD:62:GLN:HE21	1.52	0.74
35:DA:2132:U:C4	37:DC:6:LYS:HD2	2.23	0.74
28:D3:56:VAL:HG12	28:D3:57:GLU:H	1.52	0.74
24:AY:225:GLU:HB2	24:AY:228:MET:HE1	1.69	0.74
32:D7:24:THR:HG23	32:D7:27:GLY:H	1.53	0.74
42:BH:171:LEU:CD2	42:BH:172:LYS:O	2.35	0.74
24:CY:454:MET:H	24:CY:458:HIS:CD2	2.04	0.74
3:AC:58:GLU:O	3:AC:59:ARG:HG3	1.86	0.74
6:CF:37:VAL:HG12	6:CF:38:GLU:N	2.01	0.74
48:BP:97:PRO:O	48:BP:98:GLU:HB3	1.88	0.74
44:DK:57:ILE:HD12	44:DK:57:ILE:H	1.52	0.74
16:CP:53:VAL:HG23	16:CP:54:GLU:H	1.53	0.74
35:BA:1996:C:H4'	35:BA:1997:G:H5'	1.68	0.74
35:DA:279:C:H2'	35:DA:280:C:H5''	1.70	0.74
35:BA:2645:G:C3'	35:BA:2646:C:H5'	2.13	0.74
31:B6:27:LYS:O	31:B6:27:LYS:HD2	1.87	0.74
1:AA:1004:A:N6	1:AA:1034:G:H2'	2.02	0.74
27:B2:69:ARG:HG3	27:B2:70:GLN:N	2.03	0.74
10:CJ:48:THR:HG23	10:CJ:62:HIS:ND1	2.03	0.74
26:D1:76:ARG:NH2	26:D1:95:LEU:HD13	2.00	0.74
1:AA:939:G:H5''	7:AG:102:ARG:HH22	1.52	0.74
53:BU:110:VAL:HG12	53:BU:114:LYS:CD	2.18	0.74
35:DA:2147:G:H2'	35:DA:2148:G:O4'	1.88	0.74
56:DX:8:ILE:N	56:DX:8:ILE:HD12	2.03	0.74
30:B5:58:LEU:O	30:B5:58:LEU:HD22	1.88	0.74
35:DA:745:G:H5'	35:DA:746:A:OP2	1.88	0.74
1:CA:382:A:H2'	1:CA:383:A:C8	2.23	0.74
35:BA:2577:A:H5'	35:BA:2578:G:H5'	1.69	0.74
24:CY:673:PHE:CG	24:CY:674:ASP:N	2.55	0.74
16:CP:21:VAL:O	16:CP:33:ILE:HB	1.88	0.74
35:DA:2392:A:H8	48:DP:60:MET:HB3	1.52	0.74
41:DG:46:ALA:CB	41:DG:88:ILE:HB	2.16	0.74
52:BT:28:VAL:CG2	52:BT:46:GLU:HA	2.17	0.74
1:CA:1239:A:H2'	1:CA:1298:C:N4	2.01	0.74
31:B6:41:PRO:HD2	31:B6:45:LYS:O	1.88	0.74
54:BV:15:GLU:CB	54:BV:16:PRO:HD2	2.18	0.74
39:BE:36:ARG:HH21	39:BE:88:GLY:CA	2.00	0.74
1:CA:939:G:H5''	7:CG:102:ARG:HH22	1.50	0.74
1:AA:953:G:H5'	1:AA:965:A:H61	1.53	0.74
27:D2:4:SER:HA	27:D2:7:ARG:NH1	2.02	0.74

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:D0:60:PHE:HE2	35:DA:2365:G:H4'	1.50	0.74
18:AR:59:SER:H	18:AR:62:GLU:HB2	1.52	0.74
1:CA:1342:C:O2'	1:CA:1343:G:H5'	1.88	0.74
35:DA:1053:C:H2'	35:DA:1054:A:H5''	1.69	0.74
40:DF:65:TRP:HZ3	40:DF:75:HIS:HD2	1.35	0.74
24:AY:512:ILE:HD12	24:AY:589:ALA:HB1	1.69	0.74
44:DK:42:ASN:O	44:DK:46:ALA:HB2	1.88	0.74
35:BA:914:C:H2'	35:BA:915:C:H5'	1.69	0.74
44:BK:42:ASN:O	44:BK:46:ALA:HB2	1.87	0.74
3:CC:181:ASN:ND2	3:CC:204:LEU:HB2	2.03	0.74
38:DD:34:VAL:HG23	38:DD:35:LYS:N	2.03	0.73
48:BP:62:LEU:CD2	48:BP:62:LEU:H	2.01	0.73
41:DG:42:GLY:HA2	41:DG:89:GLY:HA2	1.69	0.73
35:DA:2470:G:P	49:DQ:56:ARG:HH12	2.11	0.73
35:BA:580:C:H2'	35:BA:581:C:H6	1.53	0.73
48:DP:97:PRO:O	48:DP:98:GLU:HB3	1.88	0.73
2:CB:204:ASN:C	2:CB:204:ASN:HD22	1.91	0.73
26:B1:45:ASN:HD22	26:B1:45:ASN:C	1.90	0.73
35:BA:1434:A:H61	35:BA:1558:A:H62	1.31	0.73
58:DZ:102:LEU:HD21	58:DZ:124:ILE:CD1	2.18	0.73
20:CT:50:GLU:HG3	20:CT:51:GLU:N	2.01	0.73
35:BA:419:C:H2'	35:BA:420:C:H6	1.53	0.73
34:D9:36:GLN:OE1	35:DA:1124:C:H1'	1.87	0.73
29:B4:8:LYS:O	29:B4:9:LEU:HB2	1.87	0.73
54:BV:46:VAL:HG22	54:BV:47:VAL:H	1.51	0.73
31:B6:6:ARG:HD2	31:B6:6:ARG:N	2.03	0.73
38:BD:35:LYS:HD2	38:BD:35:LYS:C	2.09	0.73
58:DZ:12:GLY:HA2	58:DZ:36:LYS:NZ	2.03	0.73
38:DD:243:GLY:O	38:DD:244:ARG:HB3	1.88	0.73
10:CJ:48:THR:HA	10:CJ:62:HIS:CB	2.15	0.73
51:BS:98:VAL:C	51:BS:100:ALA:H	1.92	0.73
44:DK:93:ARG:HB2	58:DZ:112:ARG:NE	2.01	0.73
39:BE:47:VAL:HG12	39:BE:48:GLN:N	2.02	0.73
35:BA:2796:U:H3'	35:BA:2799:C:C5'	2.18	0.73
1:CA:1117:G:O2'	9:CI:104:ARG:HD3	1.88	0.73
35:BA:654(S):G:H3'	35:BA:654(T):C:H5''	1.69	0.73
4:AD:4:TYR:O	4:AD:5:ILE:HB	1.86	0.73
41:BG:77:ILE:CG2	41:BG:80:PHE:H	1.90	0.73
48:DP:47:ASP:HB3	48:DP:48:PRO:CA	2.18	0.73
3:CC:46:GLU:O	3:CC:47:LEU:HB2	1.85	0.73
31:D6:41:PRO:HD2	31:D6:45:LYS:O	1.87	0.73
35:BA:1948:G:C8	35:BA:1948:G:H5'	2.24	0.73

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:D2:36:ARG:HA	27:D2:39:ALA:HB3	1.69	0.73
35:BA:218:A:H2	35:BA:235:U:H4'	1.50	0.73
35:DA:1996:C:H4'	35:DA:1997:G:H5'	1.70	0.73
3:AC:175:LEU:HD21	3:AC:201:TYR:HE2	1.51	0.73
49:DQ:21:THR:O	49:DQ:22:LYS:HB3	1.88	0.73
50:BR:62:ALA:O	50:BR:66:VAL:HG23	1.88	0.73
35:BA:1390:U:O2'	35:BA:1391:U:H5'	1.88	0.73
30:B5:27:PRO:HG3	55:BW:23:LEU:HD11	1.70	0.73
1:CA:1352:C:H2'	1:CA:1353:G:C8	2.23	0.73
24:AY:406:GLU:HB3	24:AY:407:PRO:HD2	1.71	0.73
22:AW:8:U:H3	22:AW:14:A:H62	1.33	0.73
1:CA:792:A:O2'	1:CA:794:A:N7	2.20	0.73
38:DD:65:ILE:HG22	38:DD:104:TYR:CB	2.19	0.73
35:DA:662:G:OP1	48:DP:18:ARG:HD2	1.88	0.73
41:DG:131:TYR:HE2	41:DG:133:LEU:HD23	1.52	0.73
18:AR:29:PHE:CD2	18:AR:29:PHE:N	2.56	0.73
11:AK:122:LYS:O	11:AK:124:LYS:N	2.22	0.73
5:AE:9:LYS:CB	5:AE:112:LEU:HD11	2.19	0.73
52:BT:5:ALA:O	52:BT:7:ILE:N	2.21	0.73
36:BB:3:C:N4	36:BB:118:G:H1	1.86	0.73
24:CY:102:ASP:O	24:CY:131:PRO:HD2	1.88	0.73
24:CY:428:LEU:H	24:CY:428:LEU:HD23	1.54	0.73
35:DA:288:C:H2'	35:DA:289:A:C8	2.24	0.73
56:BX:8:ILE:HD12	56:BX:8:ILE:N	2.02	0.73
35:BA:2146:C:H4'	35:BA:2147:G:C8	2.22	0.73
2:CB:83:MET:HG3	2:CB:234:PRO:HG3	1.69	0.73
24:AY:128:TYR:O	24:AY:129:LYS:HB2	1.88	0.73
55:BW:78:GLU:OE2	55:BW:99:ARG:HD2	1.89	0.73
36:BB:13:A:O2'	36:BB:14:U:H3'	1.87	0.73
24:CY:606:MET:O	24:CY:646:PHE:HA	1.89	0.73
48:BP:47:ASP:HB3	48:BP:48:PRO:HA	1.70	0.73
48:BP:58:THR:O	48:BP:61:ARG:NE	2.19	0.73
41:BG:131:TYR:HB3	41:BG:159:VAL:HG13	1.71	0.73
31:B6:15:GLU:OE2	31:B6:44:ARG:NH1	2.21	0.73
46:BN:58:ASP:C	46:BN:60:ILE:H	1.92	0.73
13:AM:78:ILE:HA	13:AM:81:LEU:HD23	1.71	0.73
5:AE:51:VAL:HB	5:AE:52:PRO:HD3	1.69	0.73
35:DA:545:C:C3'	35:DA:547:A:H5''	2.19	0.73
35:BA:2470:G:P	49:BQ:56:ARG:HH12	2.11	0.73
44:BK:93:ARG:HG3	58:BZ:112:ARG:HE	1.53	0.73
35:DA:1540:U:H3'	35:DA:1541:G:H3'	1.70	0.73
40:DF:139:PHE:HB2	40:DF:166:ALA:HB1	1.68	0.73

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
49:BQ:29:PHE:HB2	49:BQ:105:GLU:OE2	1.89	0.73
30:B5:25:LEU:HD12	55:BW:19:LEU:HB3	1.70	0.73
35:BA:1689:A:H62	35:BA:1698:A:H2	1.33	0.73
5:CE:98:THR:HB	5:CE:117:ASP:HB3	1.69	0.73
50:DR:11:ASN:OD1	50:DR:12:ARG:N	2.20	0.73
1:CA:731:G:OP1	1:CA:766:A:H1'	1.88	0.73
46:BN:26:LEU:HD12	46:BN:26:LEU:C	2.09	0.73
35:BA:64:A:C4	56:BX:66:LEU:HD13	2.24	0.73
25:B0:77:ARG:HH22	35:BA:857:C:H5'	1.53	0.73
35:BA:120:U:O2	35:BA:120:U:H2'	1.87	0.73
35:DA:654(M):C:HO2'	35:DA:654(N):G:H8	1.36	0.73
38:BD:176:ARG:HG2	38:BD:176:ARG:HH11	1.53	0.73
38:DD:172:TYR:HD1	38:DD:186:HIS:HA	1.52	0.73
1:AA:447:G:H2'	1:AA:485:G:N2	2.03	0.73
19:AS:22:LEU:O	19:AS:26:GLY:HA2	1.88	0.73
57:DY:8:LYS:HD2	57:DY:8:LYS:N	2.03	0.73
31:D6:5:VAL:HG12	31:D6:6:ARG:O	1.88	0.73
58:BZ:119:GLU:O	58:BZ:121:HIS:N	2.20	0.73
49:DQ:108:GLY:HA3	58:DZ:116:VAL:HG11	1.69	0.73
44:BK:57:ILE:HA	44:BK:66:THR:O	1.89	0.73
10:CJ:54:PHE:CG	10:CJ:55:LYS:HE3	2.23	0.73
10:AJ:50:ILE:HD11	14:AN:41:ARG:NH1	2.04	0.73
40:BF:65:TRP:HZ3	40:BF:75:HIS:HD2	1.34	0.73
13:AM:19:LEU:HB3	13:AM:25:ILE:HG21	1.69	0.73
10:CJ:61:GLU:HG3	14:CN:58:LYS:NZ	2.03	0.73
35:DA:1409:C:H2'	35:DA:1410:G:C8	2.23	0.73
49:DQ:12:GLN:HE21	49:DQ:73:PRO:HD2	1.53	0.73
42:DH:18:GLU:HB2	42:DH:25:LYS:HB2	1.69	0.73
32:B7:8:ASN:HD22	32:B7:9:ARG:N	1.86	0.73
47:DO:105:GLU:O	47:DO:109:LYS:HG2	1.87	0.73
22:AW:25:U:H2'	22:AW:26:C:C6	2.23	0.73
52:DT:16:ARG:HD2	52:DT:18:ASP:OD1	1.88	0.73
14:CN:23:ARG:HD2	14:CN:28:GLY:O	1.87	0.73
24:AY:121:VAL:HG23	24:AY:122:TRP:H	1.54	0.73
57:DY:96:ILE:HD12	57:DY:99:CYS:SG	2.29	0.73
31:D6:27:LYS:HB3	31:D6:32:ASN:ND2	2.03	0.73
31:D6:11:LEU:HD23	31:D6:51:GLU:HG3	1.70	0.73
27:D2:38:GLN:HA	27:D2:41:ILE:HG23	1.69	0.73
26:D1:76:ARG:HH22	26:D1:95:LEU:CD1	2.00	0.73
44:BK:57:ILE:HD12	44:BK:57:ILE:H	1.53	0.73
25:B0:60:PHE:HE2	35:BA:2365:G:H4'	1.52	0.73
35:DA:2796:U:H3'	35:DA:2799:C:C5'	2.18	0.73

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
58:BZ:115:GLY:H	58:BZ:177:PRO:CG	2.01	0.73
40:BF:139:PHE:HB2	40:BF:166:ALA:HB1	1.69	0.73
10:CJ:64:GLU:HG2	14:CN:59:ALA:HB2	1.71	0.73
35:DA:533:G:H5''	53:DU:24:TYR:CE2	2.23	0.73
47:BO:105:GLU:O	47:BO:109:LYS:HG2	1.88	0.73
35:BA:1171:G:H2'	35:BA:1173:G:H4'	1.70	0.73
52:BT:16:ARG:HD2	52:BT:18:ASP:OD1	1.88	0.73
42:BH:96:ALA:HB1	42:BH:103:LEU:HD11	1.70	0.73
25:D0:25:ARG:HD2	25:D0:29:GLN:NE2	2.04	0.73
36:BB:60:C:H2'	36:BB:61:G:H8	1.52	0.73
35:DA:991:C:H5'	35:DA:991:C:H6	1.53	0.73
28:B3:56:VAL:HG12	28:B3:57:GLU:H	1.51	0.73
24:AY:157:LEU:H	24:AY:157:LEU:CD2	1.93	0.73
35:BA:83:G:HO2'	35:BA:84:A:H8	1.34	0.73
33:D8:56:GLU:O	33:D8:59:LYS:HE3	1.88	0.73
5:CE:51:VAL:HB	5:CE:52:PRO:HD3	1.70	0.73
1:AA:1321:C:H5''	1:AA:1322:C:H5''	1.70	0.73
26:B1:81:LYS:C	26:B1:82:LEU:HD12	2.07	0.73
35:BA:545:C:C3'	35:BA:547:A:H5''	2.19	0.73
58:DZ:128:VAL:HG21	58:DZ:132:ASN:HB2	1.69	0.73
44:DK:57:ILE:HA	44:DK:66:THR:O	1.88	0.73
25:D0:14:ARG:HB2	25:D0:14:ARG:HH11	1.54	0.73
39:BE:81:ILE:O	39:BE:81:ILE:HG22	1.88	0.73
35:DA:2461:C:O2	35:DA:2461:C:H2'	1.88	0.73
18:CR:74:ARG:HB3	18:CR:81:PHE:CE2	2.24	0.73
24:AY:514:VAL:HG21	24:AY:593:ALA:CB	2.18	0.73
1:CA:1170:A:H2'	1:CA:1171:G:O4'	1.89	0.73
12:AL:57:LYS:HG2	12:AL:67:THR:HG22	1.71	0.73
35:BA:2122:U:H2'	35:BA:2123:G:C8	2.23	0.73
18:AR:74:ARG:HB3	18:AR:81:PHE:CE2	2.23	0.73
36:DB:13:A:O2'	36:DB:14:U:H3'	1.88	0.73
3:CC:3:ASN:O	3:CC:4:LYS:HB2	1.89	0.73
24:AY:530:VAL:HG13	24:AY:531:GLY:H	1.53	0.73
43:DJ:27:UNK:HA	43:DJ:112:UNK:O	1.87	0.73
55:BW:68:ARG:O	55:BW:109:GLU:HA	1.89	0.73
35:BA:272(H):C:H2'	35:BA:272(I):U:H5''	1.70	0.73
35:DA:272(H):C:H2'	35:DA:272(I):U:H5''	1.71	0.73
10:AJ:48:THR:HA	10:AJ:62:HIS:CB	2.17	0.73
37:DC:128:LEU:O	37:DC:128:LEU:HG	1.87	0.73
33:B8:4:MET:O	33:B8:62:LEU:HD12	1.89	0.73
35:DA:2807:G:H1	35:DA:2893:G:H1	1.34	0.73
58:BZ:23:LYS:HD3	58:BZ:38:TYR:CE1	2.23	0.73

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1116:C:C2'	1:AA:1117:G:H5''	2.19	0.73
1:AA:630:G:H2'	1:AA:631:G:C5'	2.19	0.73
1:AA:1239:A:H2'	1:AA:1298:C:N4	2.03	0.73
34:B9:32:HIS:O	34:B9:34:GLN:HG3	1.89	0.73
12:AL:47:LYS:HB3	12:AL:48:PRO:CD	2.19	0.73
35:BA:2132:U:C4	37:BC:6:LYS:HD2	2.24	0.73
35:BA:2178:C:H4'	37:BC:47:LYS:HD3	1.70	0.73
35:DA:654(G):C:H2'	35:DA:654(H):G:H8	1.51	0.73
1:CA:598:U:H2'	1:CA:599:C:C6	2.24	0.73
54:BV:77:ALA:O	54:BV:79:VAL:HG23	1.89	0.73
24:CY:678:GLU:HG2	24:CY:679:VAL:N	2.03	0.73
35:DA:2579:C:C4'	39:DE:134:ILE:HG12	2.17	0.73
24:AY:227:ILE:HD11	24:AY:241:GLU:O	1.88	0.73
35:DA:1378:A:H4'	35:DA:1379:A:OP1	1.87	0.73
35:BA:631:A:OP1	48:BP:64:LYS:HE2	1.88	0.73
38:BD:34:VAL:HG23	38:BD:35:LYS:N	2.04	0.73
35:BA:1080:C:H4'	44:BK:125:ARG:HB3	1.70	0.73
1:CA:1004:A:N6	1:CA:1034:G:H2'	2.03	0.73
5:AE:76:ILE:HG13	5:AE:142:LEU:HD13	1.70	0.73
25:D0:27:GLU:HA	25:D0:67:VAL:O	1.88	0.73
39:BE:34:VAL:O	39:BE:35:GLN:HB2	1.88	0.73
54:BV:28:GLU:HB2	54:BV:31:ALA:CB	2.19	0.73
1:CA:953:G:H5'	1:CA:965:A:H61	1.53	0.73
58:BZ:142:SER:H	58:BZ:144:LEU:HD23	1.54	0.73
35:DA:848:G:N3	35:DA:933:A:H1'	2.04	0.73
12:CL:80:HIS:O	12:CL:81:SER:HB2	1.87	0.73
24:AY:628:ARG:HH12	24:AY:680:PRO:HG2	1.53	0.73
35:BA:364:C:H2'	35:BA:365:C:H5''	1.68	0.73
19:CS:22:LEU:O	19:CS:26:GLY:HA2	1.89	0.73
49:BQ:62:GLY:HA2	58:BZ:116:VAL:HG21	1.70	0.73
22:AW:52:C:H2'	22:AW:53:G:O4'	1.89	0.73
35:BA:1409:C:H2'	35:BA:1410:G:H8	1.51	0.73
35:DA:1850:G:H5'	35:DA:1851:U:OP2	1.89	0.73
24:AY:227:ILE:HG23	24:AY:237:PRO:CG	2.19	0.72
24:AY:25:LYS:HE3	62:AY:703:GDP:O2B	1.89	0.72
33:D8:48:PHE:O	33:D8:49:VAL:HG22	1.88	0.72
1:AA:1219:U:H2'	1:AA:1220:G:C8	2.23	0.72
35:BA:662:G:OP1	48:BP:18:ARG:HD2	1.89	0.72
55:DW:10:VAL:HG23	55:DW:101:SER:O	1.89	0.72
42:BH:41:MET:HG3	42:BH:43:VAL:HG13	1.71	0.72
52:DT:5:ALA:O	52:DT:7:ILE:N	2.22	0.72
4:AD:64:LEU:HB2	4:AD:198:VAL:HG11	1.71	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
50:BR:9:LYS:O	50:BR:10:LEU:HD23	1.88	0.72
38:DD:155:LEU:HD23	38:DD:177:LEU:HD22	1.70	0.72
32:B7:24:THR:HG23	32:B7:27:GLY:H	1.54	0.72
2:CB:95:GLN:C	2:CB:96:ARG:HD2	2.10	0.72
1:CA:630:G:H2'	1:CA:631:G:C5'	2.18	0.72
9:CI:47:LEU:N	9:CI:47:LEU:HD12	2.04	0.72
1:AA:598:U:H2'	1:AA:599:C:C6	2.24	0.72
13:AM:3:ARG:HG2	13:AM:9:ILE:HD11	1.70	0.72
36:DB:60:C:H2'	36:DB:61:G:H8	1.53	0.72
53:DU:95:LEU:HD13	54:DV:4:ILE:HG23	1.71	0.72
35:DA:139:G:H1	35:DA:142(A):C:H42	1.34	0.72
36:DB:3:C:N4	36:DB:118:G:H1	1.86	0.72
27:B2:2:LYS:HB2	35:BA:97:C:H5''	1.69	0.72
35:BA:1540:U:H3'	35:BA:1541:G:H3'	1.70	0.72
19:CS:6:LYS:HG2	19:CS:7:LYS:HE3	1.71	0.72
1:AA:178:C:O2'	1:AA:179:A:H5'	1.88	0.72
24:AY:512:ILE:H	24:AY:512:ILE:HD13	1.53	0.72
1:CA:552:U:H4'	12:CL:86:ARG:HG2	1.69	0.72
1:AA:986:A:H1'	19:AS:54:GLY:O	1.89	0.72
1:AA:103:C:H3'	1:AA:104:G:H8	1.54	0.72
35:BA:1850:G:H5'	35:BA:1851:U:OP2	1.88	0.72
35:DA:654(S):G:H3'	35:DA:654(T):C:C5'	2.18	0.72
1:CA:353:A:H5'	1:CA:353:A:H8	1.54	0.72
1:CA:1404:C:H1'	1:CA:1499:A:C2	2.24	0.72
25:D0:77:ARG:HH22	35:DA:857:C:H5'	1.53	0.72
35:DA:1682:G:H2'	35:DA:1683:C:C6	2.23	0.72
35:BA:1203:G:H3'	35:BA:1204:A:H5''	1.71	0.72
16:CP:22:THR:HA	16:CP:33:ILE:HG12	1.69	0.72
35:BA:139:G:H1	35:BA:142(A):C:H42	1.37	0.72
25:D0:27:GLU:N	25:D0:27:GLU:CD	2.41	0.72
1:CA:1321:C:H5''	1:CA:1322:C:H5''	1.71	0.72
28:B3:8:LEU:HD22	28:B3:31:LEU:CD2	2.18	0.72
39:DE:36:ARG:HH21	39:DE:88:GLY:CA	2.01	0.72
42:BH:41:MET:O	42:BH:42:ARG:HB3	1.89	0.72
35:BA:2258:C:O2'	35:BA:2426:A:H4'	1.89	0.72
1:AA:1513:A:H2'	1:AA:1514:C:C6	2.24	0.72
42:DH:41:MET:O	42:DH:42:ARG:HB3	1.89	0.72
16:AP:74:LEU:CD2	16:AP:79:VAL:HG21	2.19	0.72
7:AG:80:VAL:HG23	7:AG:81:GLY:H	1.54	0.72
10:CJ:20:ALA:C	10:CJ:22:LYS:H	1.92	0.72
35:BA:2672:G:H2'	35:BA:2673:G:H5''	1.71	0.72
34:B9:36:GLN:OE1	35:BA:1124:C:H1'	1.90	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1001:A:H2'	35:BA:1002:G:O4'	1.90	0.72
35:BA:654(V):A:H3'	35:BA:655:A:H2'	1.69	0.72
35:DA:1171:G:H2'	35:DA:1173:G:H4'	1.70	0.72
1:AA:1133:G:H22	1:AA:1143:G:H1'	1.53	0.72
53:DU:25:TRP:O	53:DU:28:ARG:HB2	1.89	0.72
1:AA:269:C:H2'	1:AA:270:A:C8	2.25	0.72
35:BA:2732:G:H3'	35:BA:2733:A:H5'	1.72	0.72
54:BV:39:LEU:CD1	54:BV:51:VAL:HA	2.20	0.72
33:B8:13:ARG:HD3	48:BP:61:ARG:O	1.87	0.72
33:D8:54:GLU:O	33:D8:58:ILE:HG12	1.88	0.72
35:DA:2315:G:O2'	41:DG:128:ARG:HD2	1.89	0.72
35:DA:637:A:H2'	48:DP:117:GLU:OE2	1.89	0.72
39:BE:61:ARG:HG2	39:BE:62:PRO:HD3	1.70	0.72
13:CM:78:ILE:HA	13:CM:81:LEU:HD23	1.70	0.72
58:DZ:128:VAL:HG22	58:DZ:129:SER:N	2.04	0.72
3:CC:6:HIS:HD2	3:CC:7:PRO:HD2	1.54	0.72
35:BA:395:U:H2'	35:BA:396:G:N7	2.05	0.72
35:BA:279:C:C3'	35:BA:280:C:H5''	2.20	0.72
28:B3:56:VAL:HG12	28:B3:57:GLU:N	2.04	0.72
1:CA:50:A:N6	1:CA:361:G:H4'	2.04	0.72
40:BF:53:THR:HG22	40:BF:56:GLU:CG	2.14	0.72
24:AY:468:ARG:CB	24:AY:468:ARG:HH11	2.01	0.72
58:DZ:65:GLN:HB3	58:DZ:67:LEU:HD11	1.70	0.72
10:CJ:3:LYS:HZ2	10:CJ:76:ASN:HA	1.53	0.72
35:BA:1827:C:O2'	35:BA:1828:G:H5'	1.89	0.72
54:DV:15:GLU:HB3	54:DV:16:PRO:CD	2.18	0.72
1:AA:1442:G:C6	1:AA:1442(B):A:H2	2.06	0.72
35:BA:674:G:H1'	40:BF:74:ARG:HD3	1.71	0.72
22:CV:39:C:H2'	22:CV:40:C:C6	2.23	0.72
22:AW:31:G:H2'	22:AW:32:G:C8	2.23	0.72
42:BH:17:VAL:O	42:BH:45:VAL:HG22	1.88	0.72
35:BA:2425:A:H4'	35:BA:2426:A:H5''	1.71	0.72
52:BT:80:SER:HB3	52:BT:81:PRO:CD	2.19	0.72
24:CY:191:ASP:HA	24:CY:267:LYS:HE3	1.72	0.72
46:BN:65:LYS:HA	46:BN:65:LYS:HZ3	1.54	0.72
1:CA:631:G:H2'	1:CA:632:A:C8	2.23	0.72
15:CO:11:VAL:O	15:CO:14:GLU:HB3	1.90	0.72
3:AC:181:ASN:ND2	3:AC:204:LEU:HB2	2.03	0.72
35:BA:1265:A:H5'	35:BA:1267:U:H1'	1.70	0.72
37:BC:43:GLU:HG3	37:BC:216:THR:HG23	1.71	0.72
35:DA:176:G:O2'	35:DA:177:G:H5'	1.89	0.72
25:D0:20:ARG:H	25:D0:20:ARG:HD2	1.54	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:64:A:C4	56:DX:66:LEU:HD13	2.24	0.72
1:AA:1072:G:H2'	1:AA:1073:U:C6	2.25	0.72
35:DA:586:A:H5'	40:DF:89:VAL:HG21	1.69	0.72
13:CM:6:GLY:C	13:CM:8:GLU:H	1.91	0.72
33:B8:54:GLU:O	33:B8:58:ILE:HG12	1.90	0.72
19:AS:32:LYS:HA	19:AS:50:ALA:HB3	1.72	0.72
41:DG:116:ASP:O	41:DG:117:PHE:HB3	1.89	0.72
24:CY:32:ILE:O	24:CY:36:THR:HG23	1.89	0.72
41:BG:135:LEU:CD1	41:BG:155:MET:HG2	2.18	0.72
39:DE:49:LEU:HD22	39:DE:49:LEU:N	2.03	0.72
10:AJ:49:VAL:O	10:AJ:60:ARG:HB3	1.88	0.72
38:BD:183:ARG:HG2	38:BD:183:ARG:NH1	2.04	0.72
19:AS:78:ARG:HB2	19:AS:81:ARG:HH11	1.52	0.72
42:BH:20:ALA:HB1	42:BH:21:PRO:CD	2.18	0.72
35:DA:2198:A:H4'	35:DA:2199:A:OP1	1.89	0.72
4:AD:158:ILE:O	4:AD:162:LEU:HB2	1.89	0.72
35:DA:751:A:H5'	55:DW:90:ARG:HA	1.70	0.72
44:BK:75:SER:O	44:BK:79:ARG:HG3	1.90	0.72
31:B6:40:CYS:HB2	31:B6:46:HIS:CE1	2.24	0.72
35:BA:586:A:H5'	40:BF:89:VAL:HG21	1.71	0.72
35:BA:739:G:H4'	35:BA:740:U:OP1	1.89	0.72
35:BA:2198:A:H4'	35:BA:2199:A:OP1	1.88	0.72
35:DA:1430:C:H2'	35:DA:1431:U:C6	2.25	0.72
55:DW:15:ARG:HA	55:DW:18:ARG:HD2	1.70	0.72
35:BA:1138:G:H2'	35:BA:1139:G:O4'	1.89	0.72
35:BA:2521:C:H42	35:BA:2544:G:H1	1.36	0.72
56:BX:41:ASN:O	56:BX:43:VAL:N	2.22	0.72
48:BP:7:ARG:O	48:BP:10:PRO:HD2	1.89	0.72
46:BN:3:THR:HG22	46:BN:4:TYR:H	1.53	0.72
1:CA:1296:C:H5'	1:CA:1297:C:OP2	1.88	0.72
26:B1:86:SER:CB	26:B1:89:GLU:HB2	2.18	0.72
35:DA:2306:C:H5''	35:DA:2307:G:O4'	1.89	0.72
6:AF:33:TYR:HB2	6:AF:75:LEU:HD13	1.70	0.72
12:CL:41:ARG:CG	12:CL:42:THR:H	2.02	0.72
25:B0:14:ARG:HH11	25:B0:14:ARG:HB2	1.55	0.72
1:CA:1116:C:C2'	1:CA:1117:G:H5''	2.19	0.72
35:DA:365:C:H5'	35:DA:365:C:H6	1.54	0.72
35:BA:1053:C:H2'	35:BA:1054:A:H5''	1.70	0.72
22:CV:2:G:H5''	25:D0:8:GLY:HA2	1.70	0.72
58:BZ:103:ARG:HD2	58:BZ:136:PHE:CD1	2.24	0.72
50:BR:7:GLY:O	50:BR:8:ARG:HB2	1.89	0.72
9:CI:40:LEU:HD11	9:CI:70:LYS:HG2	1.71	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:BG:98:ARG:H	41:BG:98:ARG:HH11	1.37	0.72
35:DA:2732:G:H3'	35:DA:2733:A:H5'	1.71	0.72
35:DA:320:A:H2'	40:DF:136:THR:OG1	1.90	0.72
54:DV:15:GLU:CB	54:DV:16:PRO:HD2	2.20	0.72
5:CE:7:GLU:HG2	5:CE:112:LEU:HD22	1.71	0.72
35:BA:2461:C:O2	35:BA:2461:C:H2'	1.90	0.72
24:AY:92:ILE:HG12	24:AY:405:PRO:HG2	1.69	0.72
24:CY:505:GLY:HA3	24:CY:576:ASP:CG	2.10	0.72
35:BA:2150:U:H2'	35:BA:2151:G:C8	2.24	0.72
58:DZ:9:TYR:HE2	58:DZ:61:LEU:HD22	1.54	0.72
16:CP:32:TYR:HD2	16:CP:32:TYR:O	1.72	0.72
29:D4:8:LYS:O	29:D4:9:LEU:HB2	1.87	0.72
35:DA:154(A):C:H3'	35:DA:155:U:C5'	2.20	0.72
44:DK:99:ILE:HD12	44:DK:103:GLN:HB3	1.71	0.72
54:DV:28:GLU:HB2	54:DV:31:ALA:CB	2.18	0.72
35:DA:2103:C:C3'	35:DA:2104:G:H5''	2.20	0.72
10:AJ:8:LEU:CD2	10:AJ:96:ILE:HG22	2.19	0.72
35:BA:2455:G:H2'	35:BA:2456:C:C6	2.24	0.72
24:AY:343:ASN:HD22	24:AY:344:THR:N	1.88	0.72
49:DQ:79:LEU:HD23	49:DQ:80:GLU:H	1.53	0.72
10:AJ:47:PHE:CZ	14:AN:37:PHE:HE2	2.07	0.72
13:CM:34:LEU:HD13	13:CM:41:PRO:HG3	1.72	0.72
55:BW:4:LYS:HA	55:BW:106:ILE:HG22	1.72	0.72
45:BL:67:UNK:O	45:BL:69:UNK:N	2.23	0.72
1:CA:1504:G:OP1	1:CA:1507:A:H4'	1.89	0.72
40:BF:178:PRO:HG2	40:BF:179:GLU:OE1	1.89	0.72
53:DU:59:ARG:HH11	53:DU:59:ARG:HG2	1.54	0.72
35:DA:184:C:H2'	35:DA:185:U:C6	2.25	0.72
38:BD:35:LYS:NZ	38:BD:36:PRO:HD3	2.01	0.72
51:BS:96:GLY:O	51:BS:98:VAL:N	2.23	0.72
31:D6:47:THR:HG23	31:D6:48:VAL:H	1.55	0.72
2:CB:168:THR:HG23	2:CB:192:SER:CB	2.17	0.72
46:BN:23:LEU:HB3	46:BN:60:ILE:HG21	1.70	0.72
39:BE:11:MET:HB2	39:BE:23:VAL:O	1.89	0.72
2:CB:22:LYS:H	2:CB:40:HIS:CE1	2.07	0.72
19:CS:9:VAL:HG12	19:CS:9:VAL:O	1.90	0.72
10:AJ:64:GLU:HG2	14:AN:59:ALA:HB2	1.71	0.72
12:AL:34:ARG:O	12:AL:61:THR:HG23	1.90	0.72
35:BA:297:C:H2'	35:BA:298:G:O4'	1.89	0.72
35:BA:839:U:H2'	35:BA:840:C:C6	2.25	0.72
1:AA:269:C:H2'	1:AA:270:A:H8	1.55	0.72
1:AA:1126:U:O4'	1:AA:1281:U:H1'	1.90	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2636:U:H4'	39:DE:80:GLU:OE1	1.90	0.72
7:CG:80:VAL:HG23	7:CG:81:GLY:H	1.55	0.72
1:CA:294:U:H2'	1:CA:295:C:H6	1.55	0.72
18:AR:46:GLU:OE2	18:AR:46:GLU:HA	1.89	0.72
55:BW:82:LEU:HD12	55:BW:82:LEU:N	2.05	0.72
1:AA:1423:G:C5'	47:BO:49:ARG:HH22	2.02	0.72
13:CM:3:ARG:HG2	13:CM:9:ILE:HD11	1.70	0.72
1:AA:1352:C:H2'	1:AA:1353:G:C8	2.25	0.72
35:BA:1787:A:H5''	35:BA:1788:C:OP2	1.90	0.72
4:AD:13:ARG:HA	4:AD:33:MET:HE1	1.73	0.71
10:CJ:4:ILE:N	10:CJ:4:ILE:HD12	2.04	0.71
46:DN:3:THR:HG22	46:DN:4:TYR:H	1.55	0.71
25:B0:27:GLU:HA	25:B0:67:VAL:O	1.89	0.71
44:DK:99:ILE:HG23	44:DK:103:GLN:CB	2.20	0.71
36:DB:7:G:C2'	36:DB:8:U:H5''	2.19	0.71
41:DG:98:ARG:HG2	41:DG:98:ARG:NH1	2.04	0.71
46:DN:96:GLU:OE2	46:DN:96:GLU:N	2.22	0.71
4:CD:64:LEU:HB2	4:CD:198:VAL:HG11	1.72	0.71
9:AI:17:VAL:HG11	9:AI:81:ILE:HD13	1.70	0.71
9:AI:79:LEU:HD11	9:AI:83:ARG:HD2	1.72	0.71
35:DA:2020:A:O2'	35:DA:2021:C:H5''	1.90	0.71
35:BA:745:G:H5'	35:BA:746:A:OP2	1.89	0.71
28:D3:56:VAL:HG12	28:D3:57:GLU:N	2.05	0.71
56:DX:41:ASN:O	56:DX:43:VAL:N	2.22	0.71
1:CA:1100:C:H2'	1:CA:1101:A:H5''	1.72	0.71
28:B3:40:THR:OG1	28:B3:43:ILE:HG12	1.89	0.71
35:DA:1203:G:H3'	35:DA:1204:A:H5''	1.72	0.71
16:AP:32:TYR:O	16:AP:32:TYR:HD2	1.72	0.71
31:B6:11:LEU:HG	31:B6:26:ASN:HD21	1.55	0.71
48:BP:47:ASP:HB3	48:BP:48:PRO:CA	2.19	0.71
48:DP:59:LEU:HA	48:DP:61:ARG:CZ	2.20	0.71
38:BD:243:GLY:O	38:BD:244:ARG:HB3	1.91	0.71
48:BP:40:SER:C	48:BP:41:ARG:HD2	2.11	0.71
18:CR:58:LEU:HB3	18:CR:62:GLU:HB3	1.71	0.71
35:DA:279:C:C3'	35:DA:280:C:H5''	2.20	0.71
55:DW:4:LYS:HA	55:DW:106:ILE:HG22	1.72	0.71
31:D6:40:CYS:HB2	31:D6:46:HIS:CE1	2.25	0.71
35:DA:1722:A:O2'	35:DA:1739:U:H5''	1.90	0.71
24:AY:613:PRO:O	24:AY:615:GLU:N	2.23	0.71
42:DH:153:LYS:HG3	42:DH:154:PRO:HD2	1.70	0.71
24:CY:605:ILE:HG23	24:CY:646:PHE:HB3	1.71	0.71
51:DS:12:PHE:O	51:DS:14:VAL:HG23	1.90	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
19:CS:51:VAL:O	19:CS:58:VAL:HG22	1.89	0.71
52:DT:28:VAL:HG13	52:DT:46:GLU:HA	1.71	0.71
31:D6:15:GLU:OE2	31:D6:44:ARG:NH1	2.23	0.71
49:DQ:62:GLY:HA2	58:DZ:116:VAL:HG21	1.72	0.71
35:BA:1819:A:H4'	35:BA:1820:U:C5'	2.20	0.71
35:BA:2439:A:N3	35:BA:2439:A:H2'	2.05	0.71
1:CA:973:G:H1'	10:CJ:55:LYS:CE	2.20	0.71
41:DG:173:LEU:O	41:DG:178:PHE:HB2	1.90	0.71
1:AA:108:G:H5'	1:AA:109:A:H5''	1.72	0.71
38:BD:158:ALA:O	38:BD:196:VAL:HG11	1.90	0.71
10:CJ:8:LEU:CD2	10:CJ:96:ILE:HG22	2.19	0.71
10:CJ:61:GLU:OE1	14:CN:49:HIS:HE1	1.74	0.71
37:BC:101:ILE:HG13	37:BC:128:LEU:HD11	1.71	0.71
35:DA:803:U:C2'	35:DA:804:A:H5'	2.20	0.71
24:CY:290:LYS:HB3	24:CY:298:VAL:HG23	1.72	0.71
35:BA:2195:C:O2'	35:BA:2196:C:H5'	1.90	0.71
35:DA:1721:G:C6	35:DA:1739:U:H5'	2.25	0.71
12:AL:7:ILE:O	12:AL:11:VAL:HG23	1.90	0.71
1:CA:161:A:H2'	1:CA:162:A:C8	2.24	0.71
10:CJ:44:VAL:HG22	10:CJ:66:ARG:HG2	1.71	0.71
12:CL:47:LYS:HB3	12:CL:48:PRO:CD	2.19	0.71
1:AA:998:G:H2'	1:AA:999:C:C2	2.25	0.71
2:AB:95:GLN:C	2:AB:96:ARG:HD2	2.11	0.71
33:D8:2:PRO:HA	35:DA:591:C:O2	1.89	0.71
42:BH:169:VAL:HG13	42:BH:170:ARG:N	2.04	0.71
40:BF:157:VAL:HG21	40:BF:194:MET:HG2	1.72	0.71
38:DD:35:LYS:C	38:DD:35:LYS:HD2	2.11	0.71
48:BP:62:LEU:HD23	48:BP:62:LEU:N	2.06	0.71
48:BP:62:LEU:N	48:BP:62:LEU:CD2	2.54	0.71
35:BA:320:A:H2'	40:BF:136:THR:OG1	1.90	0.71
3:CC:84:ILE:O	3:CC:88:ARG:HG3	1.90	0.71
48:BP:27:HIS:CD2	48:BP:28:GLY:N	2.58	0.71
35:DA:582:G:H2'	35:DA:583:G:C8	2.26	0.71
35:DA:624:C:H41	48:DP:107:LYS:NZ	1.88	0.71
35:BA:2306:C:H5''	35:BA:2307:G:O4'	1.91	0.71
46:DN:22:THR:O	46:DN:25:ARG:HB2	1.91	0.71
54:BV:18:LEU:CD2	54:BV:19:LYS:H	2.02	0.71
35:BA:1061:U:H4'	35:BA:1070:A:H1'	1.72	0.71
6:CF:33:TYR:HB2	6:CF:75:LEU:HD13	1.72	0.71
58:BZ:179:ASP:HB3	58:BZ:182:LYS:HD2	1.71	0.71
12:AL:34:ARG:HG3	12:AL:105:TYR:HE1	1.56	0.71
57:DY:31:LEU:HB2	57:DY:32:PRO:HA	1.72	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:461:A:O2'	1:CA:470:C:H5'	1.91	0.71
35:BA:848:G:N3	35:BA:933:A:H1'	2.05	0.71
4:CD:158:ILE:O	4:CD:162:LEU:HB2	1.89	0.71
22:CV:3:C:H42	22:CV:70:G:H1	1.35	0.71
24:AY:180:VAL:HG23	24:AY:181:LEU:H	1.54	0.71
35:BA:84:A:H5''	57:BY:9:LYS:HZ2	1.56	0.71
30:D5:4:HIS:CB	30:D5:5:PRO:HD3	2.19	0.71
35:DA:2055:C:H4'	35:DA:2056:G:H5''	1.72	0.71
1:CA:1298:C:H2'	1:CA:1298:C:O2	1.91	0.71
31:B6:15:GLU:OE2	31:B6:44:ARG:NH2	2.23	0.71
2:CB:165:VAL:HG23	2:CB:166:ASP:N	2.04	0.71
47:DO:17:ARG:NE	47:DO:47:ILE:HD11	2.04	0.71
44:DK:109:LYS:HA	44:DK:112:MET:CE	2.20	0.71
39:DE:61:ARG:HG2	39:DE:62:PRO:HD3	1.72	0.71
19:AS:15:LEU:HD21	19:AS:33:THR:OG1	1.90	0.71
24:CY:608:VAL:O	24:CY:644:ARG:HA	1.91	0.71
39:DE:34:VAL:O	39:DE:35:GLN:HB2	1.89	0.71
30:B5:55:ARG:HH22	50:BR:33:ARG:HG2	1.55	0.71
1:AA:736:C:H2'	1:AA:737:A:C8	2.26	0.71
38:DD:123:ALA:HB3	38:DD:131:LEU:HG	1.70	0.71
3:AC:6:HIS:HD2	3:AC:7:PRO:HD2	1.55	0.71
35:BA:2466:C:O2'	35:BA:2467:C:H5'	1.91	0.71
29:B4:13:ARG:NH1	29:B4:13:ARG:HB3	2.06	0.71
35:BA:756:C:O2'	35:BA:757:U:H5'	1.89	0.71
15:CO:5:LYS:O	15:CO:9:GLN:HG2	1.90	0.71
32:B7:23:ARG:C	32:B7:28:ARG:HH12	1.94	0.71
35:BA:500:G:N2	35:BA:502:A:H3'	2.06	0.71
1:CA:1382:C:H2'	1:CA:1383:C:H6	1.56	0.71
35:BA:1682:G:H2'	35:BA:1683:C:C6	2.26	0.71
18:CR:46:GLU:HA	18:CR:46:GLU:OE2	1.89	0.71
35:DA:654(V):A:H3'	35:DA:655:A:H2'	1.69	0.71
35:BA:955:C:OP2	49:BQ:14:ARG:HD2	1.91	0.71
1:AA:353:A:H5'	1:AA:353:A:H8	1.53	0.71
24:CY:168:ILE:HD12	24:CY:176:GLY:HA3	1.72	0.71
41:BG:56:ALA:HB1	41:BG:153:ARG:CZ	2.20	0.71
51:BS:12:PHE:O	51:BS:14:VAL:HG23	1.90	0.71
41:DG:62:LEU:CD1	41:DG:62:LEU:H	2.00	0.71
52:DT:28:VAL:HG22	52:DT:46:GLU:CA	2.21	0.71
53:BU:20:LEU:CD2	53:BU:20:LEU:H	2.03	0.71
24:AY:459:LEU:HD12	24:AY:459:LEU:H	1.55	0.71
39:BE:38:THR:HG22	39:BE:40:GLU:N	2.03	0.71
35:DA:1190:G:H5'	48:DP:35:HIS:H	1.56	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AF:37:VAL:HG12	6:AF:38:GLU:N	2.05	0.71
26:D1:94:LEU:O	26:D1:96:LYS:N	2.23	0.71
38:DD:27:THR:HG23	38:DD:83:GLU:HG2	1.72	0.71
19:CS:9:VAL:O	19:CS:11:VAL:N	2.22	0.71
49:DQ:35:VAL:HG23	49:DQ:101:ARG:O	1.91	0.71
29:B4:30:GLU:O	29:B4:31:ILE:HD12	1.90	0.71
1:AA:461:A:O2'	1:AA:470:C:H5'	1.90	0.71
12:CL:7:ILE:O	12:CL:11:VAL:HG23	1.90	0.71
10:AJ:92:THR:HG23	10:AJ:93:GLY:H	1.54	0.71
4:AD:200:GLU:H	4:AD:200:GLU:CD	1.94	0.71
16:AP:53:VAL:HG23	16:AP:54:GLU:H	1.54	0.71
47:BO:1:MET:HG3	47:BO:67:LYS:HG2	1.73	0.71
35:BA:2313:C:H5'	35:BA:2313:C:H6	1.54	0.71
24:CY:84:THR:CA	61:CY:702:FUA:H322	2.20	0.71
24:AY:180:VAL:CG2	24:AY:216:LEU:HD12	2.20	0.71
16:AP:21:VAL:O	16:AP:33:ILE:HB	1.90	0.71
35:DA:1709:U:H2'	35:DA:1710:C:C6	2.26	0.71
31:B6:5:VAL:CG2	35:BA:2283:C:H5'	2.18	0.71
31:B6:47:THR:HG23	31:B6:48:VAL:H	1.56	0.71
35:DA:28:A:N6	35:DA:512:G:H1'	2.06	0.71
44:BK:99:ILE:HD12	44:BK:103:GLN:HB3	1.71	0.71
35:BA:614(A):U:H4'	35:BA:614(B):G:C5'	2.20	0.71
10:AJ:61:GLU:OE1	14:AN:49:HIS:HE1	1.73	0.71
51:DS:98:VAL:C	51:DS:100:ALA:H	1.93	0.71
19:AS:9:VAL:HG12	19:AS:9:VAL:O	1.88	0.71
5:AE:98:THR:HB	5:AE:117:ASP:HB3	1.70	0.71
35:DA:2171:A:H1'	35:DA:2172:U:C6	2.26	0.71
38:BD:155:LEU:HD23	38:BD:177:LEU:HD22	1.72	0.71
27:D2:22:GLU:O	27:D2:26:ARG:HG3	1.91	0.71
47:DO:4:PRO:O	47:DO:5:GLN:HB2	1.91	0.71
57:DY:47:LYS:HG3	57:DY:60:PHE:HE2	1.54	0.71
57:BY:47:LYS:HG3	57:BY:60:PHE:HE2	1.54	0.71
37:DC:43:GLU:HG3	37:DC:216:THR:HG23	1.73	0.71
24:AY:620:VAL:O	24:AY:624:LEU:HD13	1.89	0.71
35:BA:1709:U:H2'	35:BA:1710:C:C6	2.26	0.71
35:DA:84:A:H5''	57:DY:9:LYS:HZ2	1.56	0.71
41:DG:71:THR:HG22	41:DG:89:GLY:C	2.10	0.71
48:DP:40:SER:C	48:DP:41:ARG:HD2	2.10	0.71
8:CH:109:ILE:HG12	8:CH:110:ALA:N	2.05	0.71
44:DK:115:LEU:HD13	44:DK:126:MET:SD	2.30	0.71
51:DS:89:ARG:HG3	51:DS:92:TYR:HA	1.73	0.71
35:BA:2103:C:C3'	35:BA:2104:G:H5''	2.20	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:BK:93:ARG:CG	58:BZ:112:ARG:HE	2.04	0.71
51:DS:95:HIS:CG	51:DS:96:GLY:H	2.07	0.71
1:AA:1342:C:O2'	1:AA:1343:G:H5'	1.91	0.71
46:DN:65:LYS:HZ2	46:DN:65:LYS:HB3	1.55	0.71
35:BA:2852:G:H2'	35:BA:2853:C:H6	1.56	0.71
49:BQ:21:THR:O	49:BQ:22:LYS:HB3	1.90	0.71
35:DA:955:C:OP2	49:DQ:14:ARG:HD2	1.89	0.71
1:CA:998:G:H2'	1:CA:999:C:C2	2.25	0.71
53:BU:25:TRP:O	53:BU:28:ARG:HB2	1.90	0.71
15:AO:11:VAL:O	15:AO:14:GLU:HB3	1.90	0.71
13:AM:34:LEU:HD13	13:AM:41:PRO:HG3	1.72	0.71
35:BA:1582:C:H2'	35:BA:1583:A:H8	1.56	0.71
25:D0:30:VAL:HG12	25:D0:66:VAL:HG22	1.72	0.71
1:CA:1133:G:H22	1:CA:1143:G:H1'	1.53	0.71
56:BX:12:VAL:HG12	56:BX:27:THR:HG23	1.71	0.71
53:DU:90:VAL:O	53:DU:92:ARG:N	2.24	0.71
53:BU:90:VAL:O	53:BU:92:ARG:N	2.23	0.71
31:D6:6:ARG:O	31:D6:7:ILE:HB	1.91	0.71
33:D8:33:ASN:O	33:D8:34:TRP:HB3	1.91	0.71
50:DR:63:ARG:NH2	50:DR:77:ARG:HG2	2.06	0.71
35:BA:2055:C:H4'	35:BA:2056:G:H5''	1.71	0.71
30:D5:2:ALA:N	35:DA:2014:A:HO2'	1.89	0.71
28:D3:17:LYS:HZ2	28:D3:20:LYS:HE3	1.55	0.71
25:D0:7:LEU:CD1	49:DQ:85:LYS:HE2	2.21	0.71
35:DA:2291:U:H2'	35:DA:2292:C:C6	2.25	0.71
41:DG:34:LEU:N	41:DG:34:LEU:HD12	2.04	0.71
27:B2:2:LYS:CB	35:BA:97:C:H5''	2.21	0.71
35:BA:288:C:H2'	35:BA:289:A:C8	2.25	0.71
1:AA:1299:A:N3	1:AA:1299:A:H2'	2.05	0.71
35:DA:803:U:O2'	35:DA:804:A:H5'	1.90	0.71
13:CM:3:ARG:HA	13:CM:9:ILE:HG13	1.73	0.71
35:DA:500:G:N2	35:DA:502:A:H3'	2.06	0.71
10:AJ:44:VAL:HG22	10:AJ:66:ARG:HG2	1.71	0.71
35:BA:1721:G:C6	35:BA:1739:U:H5'	2.25	0.71
36:BB:82:G:O2'	36:BB:83:G:H5'	1.91	0.71
1:CA:1486:G:H2'	1:CA:1487:G:O4'	1.90	0.71
33:B8:13:ARG:HH12	48:BP:59:LEU:HG	1.56	0.71
41:DG:109:VAL:HG11	41:DG:142:PRO:HD3	1.72	0.71
49:DQ:51:ARG:O	49:DQ:54:MET:HB3	1.89	0.71
39:DE:38:THR:HG22	39:DE:40:GLU:N	2.03	0.71
46:BN:22:THR:HB	46:BN:25:ARG:HB2	1.73	0.71
13:AM:90:LEU:O	13:AM:93:ARG:N	2.24	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:D2:32:LEU:HD11	27:D2:54:LYS:HG2	1.73	0.71
19:AS:6:LYS:HG2	19:AS:7:LYS:HE3	1.71	0.71
26:D1:61:ARG:HB3	26:D1:61:ARG:HH11	1.56	0.71
35:BA:954:G:H4'	49:BQ:13:GLN:NE2	2.05	0.71
38:BD:147:LEU:HD13	38:BD:155:LEU:HD11	1.71	0.71
38:BD:77:ALA:HB2	38:BD:97:TYR:CD2	2.25	0.71
35:DA:2521:C:H42	35:DA:2544:G:H1	1.37	0.71
20:AT:12:ALA:O	20:AT:15:ARG:HB2	1.90	0.71
40:BF:187:VAL:HG13	48:BP:5:ASP:O	1.91	0.70
41:DG:60:LEU:HD22	41:DG:63:ILE:HD11	1.73	0.70
3:CC:82:GLU:O	3:CC:86:VAL:HG13	1.90	0.70
51:BS:98:VAL:HG12	51:BS:100:ALA:H	1.55	0.70
35:BA:28:A:N6	35:BA:512:G:H1'	2.06	0.70
48:DP:27:HIS:CD2	48:DP:28:GLY:N	2.59	0.70
51:DS:89:ARG:O	51:DS:92:TYR:HB3	1.91	0.70
1:AA:973:G:H1'	10:AJ:55:LYS:CE	2.20	0.70
10:CJ:50:ILE:HD11	14:CN:41:ARG:NH1	2.05	0.70
27:D2:61:LEU:HD12	35:DA:72:U:C6	2.26	0.70
24:AY:154:GLN:HA	24:AY:158:GLY:HA2	1.72	0.70
10:AJ:61:GLU:HG3	14:AN:58:LYS:NZ	2.06	0.70
35:BA:1409:C:H2'	35:BA:1410:G:C8	2.26	0.70
15:AO:5:LYS:O	15:AO:9:GLN:HG2	1.91	0.70
44:DK:75:SER:O	44:DK:79:ARG:HG3	1.90	0.70
35:BA:2668:G:O2'	35:BA:2669:G:H5'	1.91	0.70
35:BA:695:G:OP1	35:BA:1380:G:H4'	1.89	0.70
55:BW:15:ARG:HA	55:BW:18:ARG:HD2	1.71	0.70
35:BA:733:G:H8	35:BA:733:G:O5'	1.74	0.70
35:DA:914:C:H2'	35:DA:915:C:H5'	1.71	0.70
35:DA:1790:C:H5''	35:DA:1791:A:OP1	1.91	0.70
24:AY:431:LEU:HD22	24:AY:466:LEU:HD13	1.72	0.70
35:BA:2133:G:C2'	35:BA:2157:G:H22	2.02	0.70
35:DA:85:G:OP1	57:DY:30:VAL:HB	1.92	0.70
35:DA:2312:U:H2'	35:DA:2313:C:H5''	1.73	0.70
35:BA:2291:U:H2'	35:BA:2292:C:C6	2.27	0.70
35:DA:1080:C:H4'	44:DK:125:ARG:HB3	1.72	0.70
35:BA:582:G:H2'	35:BA:583:G:C8	2.26	0.70
48:DP:34:GLY:O	48:DP:35:HIS:HB2	1.90	0.70
35:DA:1819:A:H4'	35:DA:1820:U:C5'	2.21	0.70
35:DA:1323:U:H3	35:DA:1331:A:H61	1.39	0.70
35:BA:970:C:H2'	35:BA:971:C:C6	2.25	0.70
41:DG:76:SER:HB2	41:DG:83:ARG:CB	2.20	0.70
24:CY:568:TYR:CE2	24:CY:569:ASP:HB2	2.27	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1528(A):A:H62	35:DA:1541:G:N2	1.88	0.70
58:DZ:143:GLY:C	58:DZ:144:LEU:HD22	2.12	0.70
36:BB:15:A:H3'	36:BB:16:G:H5'	1.73	0.70
1:CA:630:G:H2'	1:CA:631:G:H5'	1.73	0.70
35:DA:958:U:OP2	49:DQ:14:ARG:NH1	2.25	0.70
35:DA:1138:G:H2'	35:DA:1139:G:O4'	1.90	0.70
35:BA:158:U:H2'	35:BA:171:G:O4'	1.91	0.70
35:DA:799:G:H3'	35:DA:800:A:H5''	1.73	0.70
48:BP:79:ARG:O	48:BP:111:ARG:HB2	1.91	0.70
1:CA:1126:U:O4'	1:CA:1281:U:H1'	1.89	0.70
35:DA:1367:A:H2'	35:DA:1368:G:H5'	1.72	0.70
22:AV:71:C:H2'	22:AV:71:C:O2	1.90	0.70
35:DA:1963:U:O2	35:DA:1963:U:H2'	1.89	0.70
58:BZ:29:TYR:HB3	58:BZ:34:ASN:HB2	1.73	0.70
42:BH:175:LYS:O	42:BH:176:ALA:HB3	1.91	0.70
10:AJ:48:THR:HG23	10:AJ:62:HIS:ND1	2.06	0.70
10:CJ:82:ILE:O	10:CJ:86:MET:HB2	1.92	0.70
48:DP:16:ARG:NH1	48:DP:16:ARG:HB2	2.05	0.70
31:D6:16:CYS:SG	31:D6:48:VAL:HG21	2.31	0.70
46:DN:58:ASP:O	46:DN:60:ILE:N	2.24	0.70
58:DZ:18:LEU:N	58:DZ:18:LEU:HD12	2.06	0.70
58:DZ:18:LEU:CD1	58:DZ:18:LEU:H	2.03	0.70
35:DA:1061:U:H4'	35:DA:1070:A:H1'	1.72	0.70
26:B1:4:VAL:HG23	26:B1:10:LYS:O	1.92	0.70
53:DU:107:ALA:HA	53:DU:110:VAL:CG2	2.22	0.70
1:CA:390:C:H2'	1:CA:391:G:C8	2.26	0.70
24:CY:168:ILE:HD11	24:CY:178:ILE:CD1	2.22	0.70
51:DS:83:LYS:HG2	51:DS:105:ALA:HB3	1.73	0.70
35:DA:1775:U:H2'	35:DA:1776:G:H5'	1.74	0.70
1:CA:269:C:H2'	1:CA:270:A:H8	1.57	0.70
47:DO:1:MET:HG3	47:DO:67:LYS:HG2	1.74	0.70
35:DA:158:U:H2'	35:DA:171:G:O4'	1.91	0.70
15:AO:39:LEU:HD13	15:AO:56:LEU:HB2	1.73	0.70
10:AJ:20:ALA:C	10:AJ:22:LYS:H	1.91	0.70
35:BA:2579:C:C4'	39:BE:134:ILE:HG12	2.19	0.70
24:CY:409:ILE:HD11	24:CY:656:ALA:HB3	1.72	0.70
22:AW:14:A:C2'	22:AW:15:G:H5''	2.16	0.70
35:BA:1190:G:H5'	48:BP:35:HIS:H	1.55	0.70
2:CB:167:PRO:HG2	2:CB:192:SER:OG	1.90	0.70
35:DA:2308:G:O6	35:DA:2310:A:H2'	1.90	0.70
48:DP:95:VAL:HG23	48:DP:125:VAL:HG23	1.73	0.70
41:DG:131:TYR:HB3	41:DG:159:VAL:HG13	1.73	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:CM:90:LEU:O	13:CM:93:ARG:N	2.24	0.70
35:DA:2258:C:O2'	35:DA:2426:A:H4'	1.90	0.70
58:DZ:128:VAL:HG22	58:DZ:129:SER:H	1.54	0.70
50:DR:10:LEU:HB3	50:DR:17:ARG:CD	2.21	0.70
10:CJ:7:LYS:O	10:CJ:96:ILE:HA	1.91	0.70
51:DS:97:ARG:NH2	51:DS:98:VAL:HA	2.06	0.70
58:DZ:142:SER:H	58:DZ:144:LEU:HD23	1.54	0.70
58:DZ:23:LYS:HD3	58:DZ:38:TYR:HE1	1.56	0.70
35:DA:894:C:O2'	35:DA:895:U:H5'	1.91	0.70
35:DA:839:U:H2'	35:DA:840:C:C6	2.25	0.70
35:DA:654(S):G:H3'	35:DA:654(T):C:H5''	1.71	0.70
16:CP:49:LEU:HD22	16:CP:73:LEU:HD22	1.73	0.70
24:AY:401:SER:O	24:AY:403:GLU:HG3	1.91	0.70
55:DW:68:ARG:O	55:DW:109:GLU:HA	1.91	0.70
35:DA:1265:A:H5'	35:DA:1267:U:H1'	1.72	0.70
27:B2:25:VAL:C	27:B2:27:GLU:H	1.93	0.70
35:DA:2672:G:H2'	35:DA:2673:G:H5''	1.72	0.70
41:BG:68:PRO:HA	41:BG:92:VAL:CG1	2.16	0.70
22:AW:69:C:H2'	22:AW:70:C:C6	2.27	0.70
22:AW:7:G:H3'	22:AW:8:U:H5'	1.73	0.70
31:B6:35:GLU:CB	31:B6:51:GLU:HB2	2.21	0.70
44:BK:115:LEU:HD13	44:BK:126:MET:SD	2.31	0.70
8:AH:109:ILE:HG12	8:AH:110:ALA:N	2.06	0.70
44:BK:99:ILE:HG23	44:BK:103:GLN:CB	2.20	0.70
44:BK:109:LYS:HA	44:BK:112:MET:CE	2.22	0.70
42:BH:43:VAL:CG1	42:BH:52:VAL:HA	2.22	0.70
2:AB:22:LYS:H	2:AB:40:HIS:HE1	1.39	0.70
38:DD:129:ASN:O	38:DD:193:VAL:HG12	1.91	0.70
1:AA:1117:G:O2'	9:AI:104:ARG:HD3	1.90	0.70
35:DA:954:G:H4'	49:DQ:13:GLN:NE2	2.06	0.70
1:AA:1170:A:H2'	1:AA:1171:G:O4'	1.91	0.70
38:DD:77:ALA:HB2	38:DD:97:TYR:CD2	2.27	0.70
49:BQ:87:LYS:HG2	49:BQ:88:GLY:H	1.56	0.70
1:AA:161:A:H2'	1:AA:162:A:C8	2.26	0.70
29:B4:9:LEU:CD2	41:BG:65:GLY:HA3	2.21	0.70
37:BC:84:ILE:O	37:BC:95:VAL:HG11	1.91	0.70
22:AV:20:U:C3'	22:AV:21:A:H5'	2.20	0.70
38:BD:65:ILE:HG22	38:BD:104:TYR:CB	2.18	0.70
48:BP:16:ARG:NE	48:BP:18:ARG:HB2	2.07	0.70
47:BO:115:VAL:HG13	47:BO:121:VAL:HG21	1.72	0.70
48:BP:101:VAL:HG12	48:BP:106:LEU:HB3	1.74	0.70
48:BP:85:LEU:CD1	48:BP:120:ALA:HB2	2.21	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:D4:1:MET:HG2	41:DG:98:ARG:NE	2.07	0.70
2:AB:153:ARG:C	2:AB:155:LEU:H	1.94	0.70
46:DN:22:THR:HB	46:DN:25:ARG:HB2	1.73	0.70
25:D0:51:VAL:HG22	25:D0:81:VAL:HG23	1.72	0.70
22:CW:74:A:C2'	22:CW:75:C:H5''	2.21	0.70
10:CJ:8:LEU:HD23	10:CJ:96:ILE:HG22	1.74	0.70
10:AJ:8:LEU:HD23	10:AJ:96:ILE:HG22	1.72	0.70
1:AA:630:G:H2'	1:AA:631:G:H5'	1.74	0.70
35:BA:894:C:O2'	35:BA:895:U:H5'	1.91	0.70
29:D4:13:ARG:HB3	29:D4:13:ARG:NH1	2.07	0.70
47:DO:3:GLN:HB2	47:DO:4:PRO:HD2	1.73	0.70
35:DA:88:G:OP1	35:DA:90:U:H5	1.74	0.70
51:BS:83:LYS:HG2	51:BS:105:ALA:HB3	1.73	0.70
1:CA:60:A:H5''	1:CA:331:G:H22	1.56	0.70
25:B0:73:GLY:O	25:B0:75:LEU:N	2.24	0.70
22:AW:71:G:H2'	22:AW:71:G:N3	2.07	0.70
20:CT:73:HIS:H	20:CT:76:ALA:HB3	1.55	0.70
12:CL:34:ARG:HG3	12:CL:105:TYR:HE1	1.57	0.70
4:CD:4:TYR:O	4:CD:5:ILE:HB	1.90	0.70
35:DA:120:U:O2	35:DA:120:U:H2'	1.89	0.70
8:CH:17:THR:HB	8:CH:78:GLN:OE1	1.91	0.70
47:BO:4:PRO:O	47:BO:5:GLN:HB2	1.91	0.70
42:DH:169:VAL:HG13	42:DH:170:ARG:N	2.05	0.70
54:DV:39:LEU:CD1	54:DV:51:VAL:HA	2.22	0.70
35:DA:2415:G:O3'	48:DP:66:GLY:HA3	1.89	0.70
24:CY:146:LEU:O	24:CY:149:VAL:HB	1.92	0.70
58:DZ:115:GLY:N	58:DZ:177:PRO:HG3	2.04	0.70
2:AB:189:ASP:OD1	2:AB:205:ASP:HB3	1.91	0.70
24:AY:14:ASN:HB2	24:AY:102:ASP:OD1	1.91	0.70
13:CM:15:VAL:O	13:CM:19:LEU:HD23	1.92	0.70
52:DT:80:SER:HB3	52:DT:81:PRO:CD	2.20	0.70
14:AN:27:CYS:SG	14:AN:29:ARG:HB2	2.32	0.70
7:AG:120:ILE:HG22	7:AG:124:LEU:HD12	1.74	0.70
35:DA:144:C:H2'	35:DA:145:G:H8	1.55	0.70
2:AB:107:THR:HA	2:AB:110:GLN:HE21	1.57	0.70
12:CL:57:LYS:HG2	12:CL:67:THR:HG22	1.74	0.70
35:DA:742:G:O2'	35:DA:743:G:H5'	1.92	0.70
1:CA:750:G:N3	15:CO:23:GLY:HA3	2.06	0.70
35:DA:671:C:O2'	35:DA:672:C:H5'	1.91	0.70
27:D2:58:ALA:HB1	35:DA:76:C:H4'	1.74	0.70
53:DU:55:ARG:HA	53:DU:58:ARG:CG	2.22	0.70
61:AY:702:FUA:H122	61:AY:702:FUA:H231	1.73	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
30:B5:2:ALA:N	35:BA:2014:A:HO2'	1.90	0.70
15:AO:82:ILE:HD13	15:AO:82:ILE:C	2.12	0.70
24:CY:492:ASP:OD1	24:CY:513:LYS:HA	1.92	0.70
51:DS:96:GLY:O	51:DS:98:VAL:HG23	1.91	0.70
1:AA:390:C:H2'	1:AA:391:G:C8	2.26	0.70
10:AJ:7:LYS:O	10:AJ:96:ILE:HA	1.92	0.70
20:CT:49:ALA:HB1	20:CT:99:LEU:HG	1.72	0.70
12:CL:86:ARG:NH2	12:CL:99:HIS:CD2	2.59	0.70
35:DA:1380:G:O2'	35:DA:1381:G:H5'	1.92	0.70
1:CA:986:A:H1'	19:CS:54:GLY:O	1.92	0.70
35:BA:49:A:H5''	35:BA:51:G:O4'	1.92	0.70
11:AK:126:ARG:O	11:AK:128:ALA:N	2.25	0.70
35:BA:2171:A:H1'	35:BA:2172:U:C6	2.26	0.70
24:AY:614:GLU:HB3	24:AY:617:MET:HE3	1.74	0.70
1:CA:1490:C:H2'	1:CA:1491:G:H5'	1.73	0.70
26:D1:44:PRO:HG2	26:D1:46:LEU:CD2	2.19	0.70
51:BS:74:ALA:HB1	51:BS:103:GLU:HB2	1.74	0.70
51:BS:89:ARG:HG3	51:BS:92:TYR:HA	1.74	0.70
52:BT:38:ASN:ND2	52:BT:38:ASN:C	2.40	0.70
1:CA:975:A:H5'	1:CA:975:A:C8	2.27	0.70
1:AA:1358:U:OP1	14:AN:35:ARG:HG3	1.92	0.70
1:CA:108:G:H5'	1:CA:109:A:H5''	1.74	0.70
49:BQ:51:ARG:O	49:BQ:54:MET:HB3	1.91	0.70
39:BE:179:GLU:O	39:BE:180:ASN:HB2	1.92	0.70
24:CY:487:ILE:HG22	24:CY:594:VAL:HG13	1.73	0.70
9:CI:79:LEU:HD11	9:CI:83:ARG:HD2	1.72	0.70
42:DH:41:MET:HG3	42:DH:43:VAL:HG13	1.72	0.70
35:DA:695:G:OP1	35:DA:1380:G:H4'	1.92	0.70
25:B0:25:ARG:HD2	25:B0:29:GLN:NE2	2.06	0.70
24:CY:339:SER:O	24:CY:351:ARG:HD2	1.91	0.70
35:BA:1775:U:H2'	35:BA:1776:G:H5'	1.73	0.70
55:BW:33:ARG:O	55:BW:37:ARG:HB2	1.92	0.70
35:DA:1846:G:C8	35:DA:1846:G:H5'	2.23	0.70
58:BZ:171:ILE:HG13	58:BZ:172:ALA:N	2.05	0.70
24:CY:7:TYR:OH	24:CY:9:LEU:HD12	1.92	0.70
51:BS:96:GLY:O	51:BS:98:VAL:HG23	1.92	0.70
31:D6:15:GLU:OE2	31:D6:44:ARG:NH2	2.24	0.70
35:BA:2262:U:C2'	35:BA:2263:C:C5'	2.70	0.70
54:DV:28:GLU:OE1	54:DV:31:ALA:HB2	1.92	0.70
22:AW:30:G:H2'	22:AW:31:G:C8	2.27	0.70
4:AD:189:PRO:HB2	4:AD:194:LEU:HD21	1.73	0.70
12:CL:45:PRO:HG3	12:CL:53:ARG:HD3	1.74	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:AM:3:ARG:HA	13:AM:9:ILE:HG13	1.73	0.70
54:BV:24:LYS:HA	54:BV:92:THR:HG23	1.73	0.70
42:BH:89:ILE:HG23	42:BH:129:THR:O	1.91	0.70
42:DH:89:ILE:HG23	42:DH:129:THR:O	1.92	0.70
4:CD:200:GLU:H	4:CD:200:GLU:CD	1.93	0.70
35:BA:144:C:H2'	35:BA:145:G:H8	1.56	0.70
35:BA:2312:U:H2'	35:BA:2313:C:H5''	1.72	0.69
41:BG:68:PRO:HB3	41:BG:90:LEU:HD11	1.74	0.69
24:AY:252:ASP:HB2	24:AY:254:LYS:HG2	1.73	0.69
53:BU:95:LEU:HD13	54:BV:4:ILE:HG23	1.73	0.69
48:BP:34:GLY:O	48:BP:35:HIS:HB2	1.92	0.69
47:BO:2:ILE:HD11	47:BO:82:ASN:HD22	1.57	0.69
1:CA:1299:A:N3	1:CA:1299:A:H2'	2.06	0.69
48:DP:16:ARG:NE	48:DP:18:ARG:HB2	2.06	0.69
35:BA:1884:A:H2'	35:BA:1885:A:C5'	2.20	0.69
52:DT:24:PRO:HD3	52:DT:52:ILE:HD11	1.74	0.69
29:D4:30:GLU:O	29:D4:31:ILE:HD12	1.92	0.69
2:AB:88:ALA:HB2	2:AB:219:VAL:HG13	1.74	0.69
15:CO:82:ILE:C	15:CO:82:ILE:HD13	2.12	0.69
35:BA:1323:U:H3	35:BA:1331:A:H61	1.40	0.69
58:BZ:84:GLU:O	58:BZ:85:HIS:HB2	1.91	0.69
55:BW:29:LEU:CD1	55:BW:51:LEU:HD11	2.21	0.69
36:DB:15:A:H3'	36:DB:16:G:H5'	1.72	0.69
35:BA:1722:A:O2'	35:BA:1739:U:H5''	1.91	0.69
36:BB:106:G:H5''	58:BZ:31:ARG:HB3	1.71	0.69
1:CA:269:C:H2'	1:CA:270:A:C8	2.27	0.69
15:AO:55:GLY:HA2	15:AO:58:MET:HE3	1.73	0.69
1:AA:1346:A:H61	1:AA:1374:A:H3'	1.57	0.69
1:CA:1161:C:H2'	1:CA:1162:C:C6	2.26	0.69
1:AA:1100:C:H2'	1:AA:1101:A:H5''	1.72	0.69
8:CH:41:ARG:HH22	8:CH:123:GLU:CD	1.95	0.69
38:BD:172:TYR:HD1	38:BD:186:HIS:HA	1.55	0.69
2:AB:75:LYS:HA	2:AB:78:GLN:HG3	1.75	0.69
47:BO:76:ALA:HB3	52:BT:75:ILE:HB	1.73	0.69
1:AA:1329:A:P	13:AM:28:ALA:HB3	2.32	0.69
1:CA:1490:C:C2'	1:CA:1491:G:H5'	2.22	0.69
53:BU:59:ARG:HH11	53:BU:59:ARG:HG2	1.57	0.69
24:CY:514:VAL:HG21	24:CY:593:ALA:HB1	1.73	0.69
35:BA:154(A):C:H3'	35:BA:155:U:C5'	2.20	0.69
25:D0:16:SER:HB2	35:DA:2262:U:H5	1.56	0.69
46:BN:22:THR:O	46:BN:25:ARG:HB2	1.91	0.69
3:AC:84:ILE:O	3:AC:88:ARG:HG3	1.92	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1599:C:H2'	35:BA:1600:C:H6	1.58	0.69
1:CA:736:C:H2'	1:CA:737:A:C8	2.27	0.69
35:BA:1607:C:H4'	35:BA:1608:A:O5'	1.92	0.69
35:DA:1948:G:H5'	35:DA:1948:G:C8	2.27	0.69
13:AM:23:TYR:HB3	13:AM:67:GLU:HB3	1.74	0.69
35:BA:2074:U:H2'	35:BA:2075:U:C6	2.27	0.69
24:AY:613:PRO:C	24:AY:615:GLU:H	1.94	0.69
33:B8:23:VAL:HG12	33:B8:46:ARG:HH11	1.57	0.69
1:CA:1049:U:H1'	1:CA:1201:A:N7	2.07	0.69
26:D1:30:VAL:HG23	26:D1:31:GLY:H	1.56	0.69
42:DH:171:LEU:HD23	42:DH:172:LYS:O	1.90	0.69
10:CJ:71:LEU:HD12	10:CJ:72:VAL:H	1.57	0.69
24:AY:177:ILE:C	24:AY:178:ILE:HD12	2.11	0.69
38:DD:261:LYS:HZ2	38:DD:263:ARG:HH12	1.38	0.69
35:DA:2133:G:C2'	35:DA:2157:G:H22	2.02	0.69
1:AA:793:U:C3'	1:AA:794:A:H5''	2.20	0.69
41:DG:110:ALA:HB1	41:DG:140:ILE:HD13	1.75	0.69
52:BT:28:VAL:HG22	52:BT:46:GLU:CA	2.23	0.69
30:B5:3:LYS:HD2	30:B5:5:PRO:HD2	1.72	0.69
40:DF:7:TYR:HB3	40:DF:16:GLY:C	2.12	0.69
40:BF:7:TYR:HB3	40:BF:16:GLY:C	2.12	0.69
35:DA:1607:C:H4'	35:DA:1608:A:O5'	1.92	0.69
4:CD:98:GLU:CG	4:CD:189:PRO:HG3	2.21	0.69
1:AA:1328:C:H2'	1:AA:1329:A:H8	1.58	0.69
36:DB:77:U:OP1	58:DZ:19:ARG:NH2	2.25	0.69
37:DC:74:ARG:H	37:DC:112:ASP:HB2	1.57	0.69
39:DE:81:ILE:HG22	39:DE:81:ILE:O	1.90	0.69
26:D1:56:GLN:HE22	26:D1:87:PRO:HB3	1.57	0.69
35:BA:2023:G:H5'	35:BA:2617:C:H4'	1.74	0.69
2:AB:83:MET:HG3	2:AB:234:PRO:HG3	1.73	0.69
1:CA:35:G:H2'	1:CA:36:C:C6	2.27	0.69
15:CO:80:ALA:HB1	15:CO:84:LYS:HE2	1.73	0.69
51:DS:17:ARG:O	51:DS:20:ARG:HG2	1.90	0.69
35:DA:566:U:O2'	35:DA:567:A:H5'	1.91	0.69
22:AV:5:G:N2	22:AV:69:C:C2	2.59	0.69
25:B0:30:VAL:HG12	25:B0:66:VAL:HG22	1.74	0.69
11:AK:84:VAL:HG11	11:AK:95:ILE:HD11	1.74	0.69
1:CA:66:G:H4'	1:CA:173:U:C5	2.27	0.69
35:BA:799:G:H3'	35:BA:800:A:H5''	1.74	0.69
11:CK:126:ARG:O	11:CK:128:ALA:N	2.26	0.69
38:BD:35:LYS:HD2	38:BD:36:PRO:CA	2.22	0.69
1:AA:1038:C:H2'	1:AA:1039:C:C5	2.27	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:BT:28:VAL:HG13	52:BT:46:GLU:HA	1.74	0.69
12:AL:18:VAL:HG23	12:AL:19:ARG:N	2.05	0.69
47:DO:115:VAL:HG13	47:DO:121:VAL:HG21	1.72	0.69
25:B0:7:LEU:HD22	49:BQ:81:VAL:HG23	1.74	0.69
49:DQ:3:MET:HB2	49:DQ:4:PRO:HD2	1.75	0.69
25:D0:7:LEU:HD22	49:DQ:81:VAL:HG23	1.75	0.69
50:DR:2:ARG:CD	50:DR:5:LYS:HE2	2.23	0.69
35:DA:2761:G:C3'	35:DA:2762:G:H5''	2.22	0.69
35:DA:1053:C:C2'	35:DA:1054:A:H5''	2.22	0.69
42:BH:137:ASP:HB2	42:BH:140:LYS:HD2	1.74	0.69
1:CA:1030(A):G:H1'	1:CA:1031:G:H1	1.57	0.69
28:D3:40:THR:OG1	28:D3:43:ILE:HG12	1.92	0.69
35:DA:1787:A:H5''	35:DA:1788:C:OP2	1.92	0.69
35:BA:528:A:H2	35:BA:2043:C:H4'	1.56	0.69
26:D1:58:ILE:HD11	26:D1:91:LYS:HB2	1.74	0.69
47:DO:76:ALA:HB3	52:DT:75:ILE:HB	1.73	0.69
1:AA:1473:A:O2'	1:AA:1474:G:H5'	1.92	0.69
37:BC:115:VAL:HG12	37:BC:145:THR:HG23	1.74	0.69
38:BD:153:ALA:O	38:BD:154:LYS:HG3	1.93	0.69
35:BA:825:C:O2'	35:BA:826:U:H5'	1.92	0.69
43:DJ:13:UNK:C	43:DJ:15:UNK:H	2.05	0.69
35:BA:962:G:O2'	35:BA:963:U:H5'	1.92	0.69
35:DA:1582:C:H2'	35:DA:1583:A:H8	1.56	0.69
41:BG:95:ARG:O	41:BG:96:ARG:O	2.10	0.69
4:AD:9:CYS:HA	4:AD:12:CYS:HB2	1.75	0.69
24:CY:84:THR:N	24:CY:85:PRO:HD3	2.05	0.69
35:BA:965:C:H5'	35:BA:2273:A:C1'	2.21	0.69
3:AC:70:VAL:HG12	3:AC:72:LYS:N	2.02	0.69
51:BS:97:ARG:NH2	51:BS:98:VAL:HA	2.08	0.69
35:BA:2262:U:C2'	35:BA:2263:C:H5'	2.22	0.69
35:DA:1884:A:H2'	35:DA:1885:A:C5'	2.20	0.69
48:BP:84:ASN:HA	48:BP:115:LEU:O	1.92	0.69
19:AS:20:LEU:HA	19:AS:23:ASN:HB2	1.74	0.69
39:BE:78:LEU:O	39:BE:79:ARG:HD2	1.91	0.69
47:BO:69:ILE:HD12	47:BO:69:ILE:N	2.08	0.69
6:AF:71:ARG:HG3	6:AF:71:ARG:HH11	1.57	0.69
1:AA:750:G:N3	15:AO:23:GLY:HA3	2.06	0.69
42:DH:137:ASP:HB2	42:DH:140:LYS:HD2	1.75	0.69
41:DG:75:LYS:O	41:DG:76:SER:HB3	1.92	0.69
35:BA:2593:U:H2'	35:BA:2594:C:C6	2.27	0.69
49:BQ:12:GLN:HE21	49:BQ:73:PRO:HD2	1.56	0.69
10:CJ:13:HIS:O	10:CJ:17:ASP:HB2	1.93	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1430:C:H2'	35:BA:1431:U:C6	2.28	0.69
1:AA:731:G:OP1	1:AA:766:A:H1'	1.93	0.69
32:D7:8:ASN:HD22	32:D7:9:ARG:N	1.89	0.69
35:BA:88:G:OP1	35:BA:90:U:H5	1.74	0.69
1:AA:35:G:H2'	1:AA:36:C:C6	2.28	0.69
4:CD:28:SER:HB3	4:CD:29:PRO:HD2	1.73	0.69
24:CY:90:PHE:HZ	61:CY:702:FUA:H121	1.57	0.69
53:DU:95:LEU:HD12	54:DV:11:GLN:HG3	1.75	0.69
53:BU:83:LEU:CD1	53:BU:83:LEU:H	2.06	0.69
30:D5:4:HIS:O	35:DA:2056:G:N2	2.25	0.69
51:BS:70:GLY:C	51:BS:101:LEU:HD23	2.13	0.69
8:CH:42:GLU:HG3	8:CH:109:ILE:HD12	1.73	0.69
2:CB:153:ARG:C	2:CB:155:LEU:H	1.95	0.69
2:AB:223:ILE:HA	2:AB:226:ARG:NE	2.08	0.69
42:BH:43:VAL:HG11	42:BH:52:VAL:HA	1.74	0.69
25:D0:40:GLN:HE22	25:D0:43:THR:HA	1.57	0.69
24:CY:281:PRO:HB2	24:CY:286:ILE:HD11	1.74	0.69
38:BD:27:THR:HG21	38:BD:83:GLU:HG2	1.72	0.69
37:BC:29:LEU:O	37:BC:32:GLU:HG2	1.93	0.69
35:DA:395:U:H2'	35:DA:396:G:N7	2.06	0.69
38:DD:172:TYR:CD1	38:DD:186:HIS:HA	2.27	0.69
1:AA:50:A:N6	1:AA:361:G:H4'	2.08	0.69
35:BA:2801(A):A:H4'	35:BA:2802:G:C8	2.28	0.69
8:AH:41:ARG:HH22	8:AH:123:GLU:CD	1.94	0.69
35:BA:2236:C:H2'	35:BA:2237:G:O4'	1.93	0.69
35:BA:671:C:O2'	35:BA:672:C:H5'	1.92	0.69
2:CB:107:THR:HA	2:CB:110:GLN:HE21	1.57	0.69
46:DN:26:LEU:C	46:DN:26:LEU:HD12	2.12	0.69
55:BW:10:VAL:HG23	55:BW:101:SER:O	1.93	0.69
4:AD:28:SER:HB3	4:AD:29:PRO:HD2	1.74	0.69
31:B6:6:ARG:O	31:B6:7:ILE:HB	1.92	0.69
33:B8:52:LYS:N	33:B8:53:PRO:CD	2.56	0.69
48:DP:62:LEU:H	48:DP:62:LEU:CD2	2.06	0.69
3:CC:70:VAL:HG12	3:CC:72:LYS:N	2.00	0.69
41:BG:131:TYR:HE2	41:BG:133:LEU:HB3	1.57	0.69
35:BA:582:G:H2'	35:BA:583:G:H8	1.58	0.69
1:AA:1490:C:H6	1:AA:1490:C:C5'	2.06	0.69
44:BK:109:LYS:HA	44:BK:112:MET:HE2	1.74	0.69
24:AY:71:THR:HG22	24:AY:80:ASN:OD1	1.93	0.69
10:CJ:49:VAL:CG2	14:CN:41:ARG:HB2	2.23	0.69
19:CS:15:LEU:HD21	19:CS:33:THR:OG1	1.92	0.69
35:DA:614(A):U:H4'	35:DA:614(B):G:C5'	2.21	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
18:AR:58:LEU:HB3	18:AR:62:GLU:HB3	1.73	0.69
50:BR:10:LEU:HB3	50:BR:17:ARG:CD	2.22	0.69
40:DF:20:LEU:HD23	40:DF:21:ALA:N	2.08	0.69
52:DT:129:ARG:O	52:DT:131:ALA:N	2.21	0.69
24:AY:343:ASN:C	24:AY:343:ASN:HD22	1.96	0.69
58:BZ:30:ASN:ND2	58:BZ:31:ARG:HG3	2.08	0.69
55:DW:33:ARG:O	55:DW:37:ARG:HB2	1.92	0.69
41:DG:16:ARG:O	41:DG:20:ILE:HG13	1.93	0.69
35:BA:176:G:O2'	35:BA:177:G:H5'	1.93	0.69
24:CY:616:TYR:HE2	24:CY:664:GLN:HE21	1.40	0.69
25:B0:19:LYS:HD3	25:B0:41:ARG:HH22	1.56	0.69
7:CG:120:ILE:HG22	7:CG:124:LEU:HD12	1.72	0.69
1:CA:491:G:H2'	1:CA:492:G:H8	1.58	0.69
2:CB:75:LYS:HA	2:CB:78:GLN:HG3	1.73	0.69
41:BG:32:PRO:HA	41:BG:162:THR:HB	1.75	0.69
35:BA:2012:G:C4'	55:BW:96:ILE:HD11	2.15	0.69
40:BF:154:VAL:HG11	40:BF:193:VAL:HG23	1.75	0.69
24:AY:272:LEU:O	24:AY:275:ALA:HB3	1.92	0.69
35:BA:2415:G:O3'	48:BP:66:GLY:HA3	1.91	0.69
19:AS:51:VAL:O	19:AS:58:VAL:HG22	1.93	0.69
58:DZ:10:ARG:NH2	58:DZ:26:GLY:N	2.40	0.69
35:DA:272(I):U:O2	35:DA:272(I):U:H3'	1.93	0.69
41:DG:41:GLN:HG2	41:DG:155:MET:HB3	1.73	0.69
30:D5:45:VAL:HG22	30:D5:51:TYR:CE1	2.28	0.69
24:CY:210:ARG:HH11	24:CY:210:ARG:HG2	1.56	0.69
24:CY:157:LEU:CD2	24:CY:157:LEU:H	2.05	0.69
30:B5:45:VAL:HG22	30:B5:51:TYR:CE1	2.28	0.69
31:B6:45:LYS:HD3	35:BA:2371:G:O3'	1.93	0.69
35:DA:2524:G:C8	35:DA:2524:G:H5'	2.25	0.69
35:DA:582:G:H2'	35:DA:583:G:H8	1.56	0.69
46:DN:45:ASN:HD22	46:DN:45:ASN:N	1.86	0.69
35:DA:2753:A:O2'	35:DA:2754:U:H5'	1.92	0.69
18:CR:29:PHE:N	18:CR:29:PHE:CD2	2.56	0.69
1:AA:1226:C:H5'	13:AM:96:LEU:HD13	1.74	0.69
38:DD:106:ILE:HD11	38:DD:196:VAL:HG13	1.75	0.69
37:DC:84:ILE:O	37:DC:95:VAL:HG11	1.93	0.69
39:BE:179:GLU:HB3	39:BE:181:LEU:HD23	1.73	0.69
8:CH:10:LEU:HD22	8:CH:83:ILE:HD11	1.73	0.69
24:AY:416:LYS:HD3	24:AY:417:THR:H	1.56	0.69
24:AY:555:LEU:HD11	24:AY:599:PRO:HB2	1.75	0.69
24:AY:554:PRO:HG3	24:AY:594:VAL:HG12	1.74	0.69
52:DT:107:ASP:CG	52:DT:108:ARG:H	1.95	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:DD:27:THR:HG21	38:DD:83:GLU:HG2	1.72	0.69
1:AA:625:G:H4'	16:AP:16:HIS:CD2	2.28	0.69
24:CY:228:MET:O	24:CY:231:TYR:HB3	1.93	0.69
37:DC:29:LEU:O	37:DC:32:GLU:HG2	1.93	0.69
42:DH:43:VAL:CG1	42:DH:52:VAL:HA	2.22	0.69
1:AA:1030(A):G:H1'	1:AA:1031:G:H1	1.57	0.69
20:AT:49:ALA:HB1	20:AT:99:LEU:HG	1.73	0.69
3:AC:175:LEU:HD21	3:AC:201:TYR:CE2	2.27	0.69
35:BA:365:C:H6	35:BA:365:C:H5'	1.58	0.69
35:BA:910:A:C5	49:BQ:13:GLN:HG3	2.27	0.69
29:B4:12:ALA:CB	29:B4:29:PRO:HA	2.23	0.69
35:BA:528:A:C2	35:BA:2043:C:H4'	2.27	0.69
37:DC:78:ILE:O	37:DC:120:VAL:HG21	1.93	0.69
12:CL:23:LYS:O	12:CL:24:VAL:HG23	1.92	0.69
20:CT:12:ALA:O	20:CT:15:ARG:HB2	1.93	0.69
22:AW:10:G:H2'	22:AW:11:A:H8	1.57	0.69
3:CC:206:GLU:HG2	3:CC:207:VAL:H	1.56	0.69
35:DA:1099:G:H2'	35:DA:1100:C:O4'	1.93	0.69
35:DA:2023:G:H5'	35:DA:2617:C:H4'	1.74	0.69
11:CK:48:ILE:HG22	11:CK:49:GLY:H	1.57	0.69
14:CN:27:CYS:SG	14:CN:29:ARG:HB2	2.31	0.69
22:AW:2:G:H1	22:AW:72:C:H42	1.40	0.69
55:DW:82:LEU:N	55:DW:82:LEU:HD12	2.07	0.69
35:DA:2236:C:H2'	35:DA:2237:G:O4'	1.93	0.69
1:CA:1310:G:O2'	1:CA:1311:G:H5'	1.93	0.69
36:BB:20:C:O2'	36:BB:21:G:H5''	1.92	0.69
24:AY:261:GLY:HA3	24:AY:267:LYS:O	1.93	0.69
55:DW:78:GLU:OE2	55:DW:99:ARG:HD2	1.93	0.69
27:D2:40:SER:C	27:D2:42:GLY:H	1.95	0.69
56:BX:12:VAL:HB	56:BX:17:ALA:CB	2.12	0.69
57:BY:31:LEU:HB2	57:BY:32:PRO:HA	1.73	0.69
27:D2:33:MET:O	27:D2:37:PHE:HB2	1.92	0.69
35:DA:1010:A:H1'	35:DA:1153:C:H1'	1.75	0.69
49:BQ:3:MET:HB2	49:BQ:4:PRO:HD2	1.75	0.69
2:CB:222:ILE:HB	2:CB:226:ARG:HH21	1.57	0.69
1:CA:1226:C:H5'	13:CM:96:LEU:HD13	1.74	0.69
35:DA:1779:U:C5	35:DA:1784:A:N7	2.58	0.69
25:D0:19:LYS:HD3	25:D0:41:ARG:HH22	1.58	0.69
10:CJ:16:LEU:O	10:CJ:16:LEU:HD13	1.93	0.69
38:BD:123:ALA:HB3	38:BD:131:LEU:HG	1.75	0.69
38:DD:91:ARG:HG2	38:DD:91:ARG:NH1	2.04	0.69
38:BD:27:THR:HG23	38:BD:83:GLU:HG2	1.74	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:DT:129:ARG:O	52:DT:129:ARG:HG2	1.93	0.69
24:CY:103:GLY:O	24:CY:104:ALA:HB2	1.92	0.69
25:D0:73:GLY:O	25:D0:75:LEU:N	2.23	0.69
35:BA:2105:C:H42	35:BA:2184:G:H1	1.40	0.69
35:BA:184:C:H2'	35:BA:185:U:C6	2.27	0.69
1:AA:1382:C:H2'	1:AA:1383:C:H6	1.56	0.69
1:CA:627:G:O2'	1:CA:628:G:H5'	1.91	0.69
11:CK:23:ALA:HB1	11:CK:88:GLY:HA3	1.73	0.69
35:DA:1639:U:O2'	35:DA:1640:C:H5''	1.92	0.69
36:DB:20:C:O2'	36:DB:21:G:H5''	1.92	0.69
24:AY:539:ILE:HA	24:AY:542:VAL:HG12	1.74	0.69
1:AA:627:G:O2'	1:AA:628:G:H5'	1.93	0.69
40:DF:187:VAL:HG13	48:DP:5:ASP:O	1.92	0.69
41:BG:138:GLN:OE1	41:BG:153:ARG:HG2	1.92	0.69
41:BG:67:LYS:HD3	41:BG:68:PRO:N	2.08	0.69
35:BA:1504:C:H2'	35:BA:1505:C:H5''	1.74	0.69
12:AL:17:LYS:HD3	12:AL:18:VAL:HG22	1.74	0.69
40:DF:195:ASP:OD1	40:DF:196:LEU:N	2.22	0.69
26:D1:76:ARG:NH2	26:D1:95:LEU:HB2	2.08	0.69
33:B8:6:THR:CG2	33:B8:63:PRO:HD3	2.23	0.69
35:DA:2807:G:C3'	35:DA:2808:U:H5''	2.22	0.69
50:BR:2:ARG:CD	50:BR:5:LYS:HE2	2.23	0.69
35:DA:2262:U:C2'	35:DA:2263:C:C5'	2.71	0.69
51:DS:74:ALA:HB1	51:DS:103:GLU:HB2	1.74	0.69
19:CS:44:MET:N	19:CS:44:MET:SD	2.66	0.69
1:CA:1325:C:H2'	1:CA:1326:C:H6	1.56	0.69
3:CC:150:LYS:HB2	3:CC:169:ALA:HB1	1.75	0.69
19:AS:6:LYS:CE	19:AS:6:LYS:H	2.05	0.69
4:CD:160:GLN:O	4:CD:163:GLU:HB3	1.91	0.69
15:AO:56:LEU:O	15:AO:60:VAL:HG23	1.93	0.69
35:DA:419:C:H2'	35:DA:420:C:H6	1.56	0.69
26:D1:19:GLN:O	26:D1:35:THR:HG22	1.92	0.69
3:CC:148:GLY:HA3	3:CC:172:ARG:O	1.92	0.69
11:CK:108:ILE:HD12	11:CK:108:ILE:N	2.08	0.69
40:BF:43:LYS:HA	40:BF:98:SER:HB3	1.74	0.69
41:BG:111:LEU:HA	41:BG:114:ILE:CD1	2.22	0.68
24:AY:12:LEU:O	24:AY:283:PRO:HD3	1.92	0.68
31:B6:30:THR:O	31:B6:32:ASN:N	2.25	0.68
33:B8:56:GLU:O	33:B8:59:LYS:HE3	1.92	0.68
48:BP:59:LEU:HA	48:BP:61:ARG:CZ	2.22	0.68
40:DF:157:VAL:HG21	40:DF:194:MET:HG2	1.74	0.68
58:BZ:120:ILE:O	58:BZ:121:HIS:HB2	1.93	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:975:A:H5'	1:AA:975:A:C8	2.28	0.68
1:AA:1358:U:P	14:AN:35:ARG:HG3	2.33	0.68
35:DA:2439:A:H2'	35:DA:2439:A:N3	2.07	0.68
35:BA:2753:A:O2'	35:BA:2754:U:H5'	1.93	0.68
52:BT:23:ARG:HB2	52:BT:24:PRO:HD2	1.75	0.68
54:DV:19:LYS:HG2	54:DV:94:LEU:HB2	1.75	0.68
13:AM:78:ILE:O	13:AM:82:MET:HG2	1.93	0.68
13:CM:78:ILE:O	13:CM:82:MET:HG2	1.94	0.68
13:CM:23:TYR:HB3	13:CM:67:GLU:HB3	1.75	0.68
40:BF:20:LEU:HD23	40:BF:21:ALA:N	2.08	0.68
34:B9:1:MET:O	34:B9:34:GLN:HG2	1.93	0.68
1:CA:460:G:H5'	1:CA:461:A:OP2	1.93	0.68
27:D2:55:ARG:O	27:D2:58:ALA:HB3	1.92	0.68
52:BT:45:PHE:CE2	52:BT:74:ARG:HB2	2.28	0.68
35:DA:2801(A):A:H4'	35:DA:2802:G:C8	2.28	0.68
24:CY:392:GLU:HG3	24:CY:393:ASP:OD1	1.93	0.68
54:DV:24:LYS:HA	54:DV:92:THR:HG23	1.73	0.68
20:AT:73:HIS:H	20:AT:76:ALA:HB3	1.56	0.68
49:DQ:97:VAL:HG11	49:DQ:103:MET:CE	2.23	0.68
58:BZ:137:ILE:HG21	58:BZ:155:LEU:HD12	1.75	0.68
35:DA:1345:C:O2'	35:DA:1346:G:H5'	1.94	0.68
35:BA:1378:A:H4'	35:BA:1379:A:OP1	1.92	0.68
24:AY:252:ASP:O	24:AY:254:LYS:HE3	1.93	0.68
40:DF:53:THR:HG22	40:DF:56:GLU:CG	2.17	0.68
35:BA:2393:A:H5''	48:BP:62:LEU:HB3	1.73	0.68
27:B2:66:GLU:O	27:B2:69:ARG:HG2	1.93	0.68
50:DR:55:ALA:HA	50:DR:80:PHE:CE2	2.29	0.68
50:BR:72:ASP:OD1	50:BR:75:LEU:HB2	1.93	0.68
1:AA:235:C:H5'	17:AQ:70:ARG:HG2	1.73	0.68
42:BH:67:LEU:O	42:BH:71:LEU:HD12	1.93	0.68
11:CK:122:LYS:O	11:CK:124:LYS:N	2.26	0.68
1:AA:697:U:C2'	1:AA:698:G:H5'	2.23	0.68
9:CI:104:ARG:O	9:CI:105:ASP:HB3	1.92	0.68
4:AD:162:LEU:HD11	4:AD:181:MET:HG2	1.73	0.68
9:CI:48:GLU:N	9:CI:49:PRO:HD2	2.09	0.68
49:BQ:35:VAL:HG23	49:BQ:101:ARG:O	1.92	0.68
52:BT:75:ILE:N	52:BT:75:ILE:HD12	2.08	0.68
24:AY:491:VAL:HG11	24:AY:596:LYS:HD3	1.75	0.68
24:CY:91:THR:O	24:CY:93:GLU:N	2.26	0.68
38:BD:61:LEU:O	38:BD:63:ARG:NH1	2.26	0.68
31:D6:30:THR:O	31:D6:32:ASN:N	2.26	0.68
31:D6:37:ARG:NH2	35:DA:2286:A:H62	1.90	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:DP:101:VAL:HG12	48:DP:106:LEU:HB3	1.75	0.68
1:AA:1404:C:H1'	1:AA:1499:A:C2	2.28	0.68
5:AE:7:GLU:HG2	5:AE:112:LEU:HD22	1.74	0.68
52:BT:57:PHE:O	52:BT:59:THR:HG23	1.92	0.68
35:BA:2068:U:N3	35:BA:2430:A:C2	2.61	0.68
42:DH:43:VAL:HG11	42:DH:52:VAL:HA	1.75	0.68
35:BA:2122:U:H2'	35:BA:2123:G:H8	1.57	0.68
24:CY:316:ILE:HD12	24:CY:326:THR:HG22	1.74	0.68
51:BS:17:ARG:O	51:BS:20:ARG:HG2	1.92	0.68
35:BA:1120:G:H2'	35:BA:1121:C:C6	2.28	0.68
32:B7:6:GLN:O	35:BA:686:G:H1'	1.92	0.68
41:BG:57:ALA:O	41:BG:68:PRO:HG2	1.93	0.68
1:CA:793:U:C3'	1:CA:794:A:H5''	2.19	0.68
57:DY:84:ARG:HG2	57:DY:84:ARG:HH11	1.59	0.68
40:DF:154:VAL:HG11	40:DF:193:VAL:HG23	1.76	0.68
57:BY:81:LYS:HD3	57:BY:97:ARG:O	1.92	0.68
41:BG:173:LEU:HA	41:BG:176:LEU:HD12	1.74	0.68
31:B6:15:GLU:HG3	31:B6:47:THR:HG21	1.76	0.68
31:D6:37:ARG:HH22	35:DA:2286:A:H62	1.41	0.68
12:AL:70:ILE:HD12	12:AL:75:HIS:CD2	2.28	0.68
35:DA:940:G:H3'	35:DA:941:A:H5''	1.75	0.68
53:DU:20:LEU:H	53:DU:20:LEU:CD2	2.06	0.68
35:BA:624:C:H41	48:BP:107:LYS:NZ	1.91	0.68
51:BS:28:VAL:HG12	51:BS:29:PHE:N	2.07	0.68
52:DT:24:PRO:HD3	52:DT:52:ILE:CD1	2.24	0.68
54:BV:19:LYS:HG2	54:BV:94:LEU:HB2	1.76	0.68
52:DT:85:LYS:HZ3	52:DT:85:LYS:HB3	1.59	0.68
5:CE:91:LEU:HD13	5:CE:120:THR:CG2	2.24	0.68
58:DZ:81:ARG:CZ	58:DZ:81:ARG:HB3	2.23	0.68
35:DA:1223:G:C3'	35:DA:1224:C:H5''	2.23	0.68
35:BA:1779:U:C5	35:BA:1784:A:N7	2.61	0.68
35:BA:2464:C:HO2'	35:BA:2465:C:H6	1.41	0.68
35:BA:1053:C:C2'	35:BA:1054:A:H5''	2.24	0.68
35:BA:654:A:N7	35:BA:654(V):A:H4'	2.08	0.68
24:AY:343:ASN:HD21	24:AY:345:THR:HB	1.57	0.68
35:BA:1099:G:H2'	35:BA:1100:C:O4'	1.94	0.68
1:CA:474:G:H2'	1:CA:475:G:H8	1.58	0.68
35:DA:389:G:H1	48:DP:71:VAL:HG12	1.58	0.68
33:D8:23:VAL:HG12	33:D8:46:ARG:HH11	1.57	0.68
38:DD:176:ARG:HH11	38:DD:176:ARG:HG2	1.58	0.68
35:DA:733:G:H8	35:DA:733:G:O5'	1.75	0.68
3:AC:123:GLN:HB3	3:AC:128:PHE:HD2	1.57	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:BG:34:LEU:HD11	41:BG:100:TRP:CH2	2.28	0.68
41:BG:116:ASP:O	41:BG:117:PHE:HB3	1.94	0.68
10:AJ:33:GLN:O	10:AJ:75:ILE:HG12	1.94	0.68
35:BA:1242:A:N1	48:BP:8:PRO:HG2	2.08	0.68
38:BD:261:LYS:HZ2	38:BD:263:ARG:HH12	1.39	0.68
38:DD:71:ASP:HB2	38:DD:103:ARG:NH2	2.01	0.68
24:CY:238:THR:HG22	24:CY:241:GLU:HG2	1.74	0.68
41:BG:131:TYR:HB3	41:BG:159:VAL:CG1	2.24	0.68
26:B1:80:LEU:CD2	26:B1:81:LYS:H	2.04	0.68
35:DA:2307:G:N2	35:DA:2308:G:H5''	2.07	0.68
2:CB:88:ALA:HB2	2:CB:219:VAL:HG13	1.74	0.68
29:D4:2:LYS:HB2	36:DB:40:U:O4	1.93	0.68
2:AB:118:LEU:CB	2:AB:142:LEU:HD12	2.23	0.68
12:CL:75:HIS:HD2	12:CL:77:LEU:HD12	1.59	0.68
35:DA:2262:U:C2'	35:DA:2263:C:H5'	2.24	0.68
35:BA:2761:G:C3'	35:BA:2762:G:H5''	2.22	0.68
57:DY:27:VAL:HG12	57:DY:29:GLU:H	1.59	0.68
42:BH:85:LYS:HZ3	42:BH:87:LEU:HG	1.56	0.68
4:AD:98:GLU:CG	4:AD:189:PRO:HG3	2.24	0.68
11:CK:59:TYR:CE2	11:CK:63:LEU:HD11	2.28	0.68
46:BN:65:LYS:HB3	46:BN:65:LYS:HZ2	1.58	0.68
12:CL:34:ARG:O	12:CL:61:THR:HG23	1.93	0.68
54:BV:6:LYS:O	54:BV:37:VAL:HG21	1.94	0.68
50:DR:7:GLY:O	50:DR:8:ARG:HB2	1.92	0.68
38:DD:76:PRO:HG2	38:DD:98:VAL:HG21	1.76	0.68
28:B3:28:LEU:HA	28:B3:33:GLN:OE1	1.94	0.68
35:BA:900:A:H5'	35:BA:900:A:H8	1.59	0.68
24:CY:114:VAL:O	24:CY:114:VAL:HG13	1.94	0.68
10:CJ:92:THR:HG23	10:CJ:93:GLY:H	1.57	0.68
39:DE:179:GLU:HB3	39:DE:181:LEU:HD23	1.74	0.68
1:CA:1329:A:P	13:CM:28:ALA:HB3	2.33	0.68
4:CD:10:ARG:O	4:CD:13:ARG:HB2	1.93	0.68
35:BA:272(I):U:O2	35:BA:272(I):U:H3'	1.93	0.68
40:DF:178:PRO:HG2	40:DF:179:GLU:OE1	1.93	0.68
35:DA:2393:A:H5''	48:DP:62:LEU:HB3	1.76	0.68
8:AH:42:GLU:HG3	8:AH:109:ILE:HD12	1.74	0.68
35:BA:2807:G:C3'	35:BA:2808:U:H5''	2.23	0.68
27:B2:38:GLN:O	27:B2:41:ILE:HG12	1.93	0.68
2:AB:19:HIS:O	2:AB:20:GLU:O	2.12	0.68
27:D2:2:LYS:O	27:D2:6:VAL:HG23	1.94	0.68
58:DZ:132:ASN:O	58:DZ:133:ILE:HD13	1.92	0.68
1:CA:176:C:H2'	1:CA:177:C:H6	1.59	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1298:C:H2'	1:AA:1298:C:O2	1.92	0.68
24:CY:339:SER:HB2	24:CY:352:VAL:CG1	2.24	0.68
22:AV:3:C:H2'	22:AV:4:G:H5'	1.76	0.68
52:DT:45:PHE:CE2	52:DT:74:ARG:HB2	2.28	0.68
52:DT:75:ILE:HD12	52:DT:75:ILE:N	2.09	0.68
11:AK:23:ALA:HB1	11:AK:88:GLY:HA3	1.76	0.68
3:CC:137:ALA:HA	3:CC:140:ARG:NH2	2.08	0.68
35:DA:528:A:C2	35:DA:2043:C:H4'	2.28	0.68
35:DA:528:A:H2	35:DA:2043:C:H4'	1.57	0.68
47:DO:2:ILE:HD11	47:DO:82:ASN:HD22	1.59	0.68
6:AF:16:GLN:CD	6:AF:16:GLN:N	2.47	0.68
39:BE:170:LEU:HD12	39:BE:170:LEU:H	1.58	0.68
61:CY:702:FUA:O1	61:CY:702:FUA:H12	1.93	0.68
22:AV:17:C:H6	22:AV:17(A):U:C5	2.11	0.68
24:AY:121:VAL:HG23	24:AY:122:TRP:N	2.09	0.68
41:DG:141:PHE:HB2	41:DG:144:ILE:HG22	1.74	0.68
57:BY:84:ARG:HH11	57:BY:84:ARG:HG2	1.58	0.68
30:B5:4:HIS:O	35:BA:2056:G:N2	2.26	0.68
3:CC:35:GLU:O	3:CC:38:ARG:HG2	1.92	0.68
3:AC:34:LEU:HD22	3:AC:38:ARG:HD2	1.74	0.68
48:DP:23:PRO:HB2	48:DP:33:ARG:CG	2.23	0.68
35:BA:2307:G:N2	35:BA:2308:G:H5''	2.08	0.68
42:DH:67:LEU:O	42:DH:71:LEU:HD12	1.94	0.68
35:DA:2631:G:N2	39:DE:61:ARG:HH12	1.91	0.68
35:BA:191:A:H2'	35:BA:192:C:C6	2.29	0.68
2:CB:223:ILE:HA	2:CB:226:ARG:NE	2.08	0.68
35:BA:1656:C:H2'	35:BA:1657:C:H6	1.58	0.68
1:AA:1234:C:O2'	1:AA:1235:U:H5'	1.94	0.68
35:DA:191:A:H2'	35:DA:192:C:C6	2.29	0.68
58:BZ:150:LEU:N	58:BZ:150:LEU:HD23	2.09	0.68
35:BA:1542:A:H5'	35:BA:1543:C:OP2	1.93	0.68
16:AP:8:ARG:HB3	16:AP:28:ARG:NH1	2.09	0.68
24:CY:265:LYS:O	24:CY:267:LYS:HG3	1.93	0.68
1:CA:183:G:H2'	1:CA:184:G:C8	2.29	0.68
35:BA:279:C:C2'	35:BA:280:C:H5''	2.24	0.68
35:DA:548:A:C2'	35:DA:549:G:H5'	2.24	0.68
35:DA:654(M):C:O2'	35:DA:654(N):G:H8	1.77	0.68
4:CD:162:LEU:HD11	4:CD:181:MET:HG2	1.75	0.68
46:DN:21:LYS:HB3	46:DN:26:LEU:HD23	1.76	0.68
1:AA:376:G:H2'	1:AA:377:G:H8	1.59	0.68
13:CM:37:THR:HG21	13:CM:56:LEU:HD22	1.75	0.68
1:CA:1478:C:H2'	1:CA:1479:C:C6	2.28	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2039:C:H2'	35:DA:2040:C:C6	2.29	0.68
18:CR:87:ARG:NH1	18:CR:87:ARG:HB3	2.09	0.68
24:CY:381:LYS:N	24:CY:381:LYS:HD2	2.07	0.68
50:DR:30:THR:OG1	50:DR:75:LEU:HD21	1.93	0.68
42:DH:86:GLU:CB	42:DH:132:ARG:HB3	2.24	0.68
12:CL:113:ARG:HD2	12:CL:115:LYS:H	1.58	0.68
35:BA:2555:U:H2'	35:BA:2556:C:H5'	1.76	0.68
41:BG:42:GLY:O	41:BG:44:GLY:N	2.25	0.68
24:CY:84:THR:HA	61:CY:702:FUA:C32	2.21	0.68
35:BA:85:G:OP1	57:BY:30:VAL:HB	1.93	0.68
57:BY:31:LEU:HD22	57:BY:31:LEU:N	2.09	0.68
48:DP:58:THR:O	48:DP:61:ARG:NE	2.19	0.68
35:BA:1058:G:N2	35:BA:1081:U:H1'	2.08	0.68
30:B5:44:THR:HG22	30:B5:45:VAL:N	2.08	0.68
50:BR:55:ALA:HA	50:BR:80:PHE:CE2	2.29	0.68
1:CA:1358:U:OP1	14:CN:35:ARG:HG3	1.94	0.68
48:DP:84:ASN:HA	48:DP:115:LEU:O	1.93	0.68
1:AA:1014:A:H4'	19:AS:14:HIS:ND1	2.09	0.68
35:DA:1599:C:H2'	35:DA:1600:C:H6	1.58	0.68
51:DS:70:GLY:C	51:DS:101:LEU:HD23	2.14	0.68
1:AA:1442:G:H1	1:AA:1461:G:H21	1.42	0.68
5:CE:7:GLU:HG2	5:CE:112:LEU:CD2	2.23	0.68
23:AX:19:U:C5'	24:AY:504:ARG:HB3	2.23	0.68
13:AM:15:VAL:O	13:AM:19:LEU:HD23	1.94	0.68
35:DA:1541:G:H4'	35:DA:1542:A:C5'	2.24	0.68
35:DA:756:C:O2'	35:DA:757:U:H5'	1.94	0.68
35:BA:1697:G:H3'	35:BA:1698:A:H5''	1.74	0.68
42:BH:37:VAL:HG12	42:BH:38:SER:N	2.09	0.68
24:CY:424:LEU:HD12	24:CY:427:ALA:HB3	1.76	0.68
46:DN:55:VAL:HG22	46:DN:126:PRO:HA	1.75	0.68
1:AA:1104:G:O5'	2:AB:111:ARG:HD2	1.93	0.68
16:CP:60:LEU:HA	16:CP:64:ALA:HB3	1.76	0.68
35:DA:2105:C:H42	35:DA:2184:G:H1	1.41	0.68
48:DP:79:ARG:O	48:DP:111:ARG:HB2	1.93	0.68
37:DC:28:ARG:HG2	37:DC:183:PRO:HB3	1.76	0.68
22:AV:61:C:O2'	22:AV:62:C:H5'	1.94	0.68
48:DP:7:ARG:CB	48:DP:8:PRO:HD3	2.23	0.68
46:BN:3:THR:HG22	46:BN:4:TYR:N	2.09	0.68
35:DA:612:C:H2'	35:DA:613:G:C5'	2.13	0.68
1:CA:793:U:H3'	1:CA:794:A:C5'	2.21	0.68
58:DZ:7:ALA:CB	58:DZ:61:LEU:HD23	2.23	0.68
19:AS:58:VAL:HG23	19:AS:58:VAL:O	1.93	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:DF:4:VAL:HG13	40:DF:19:GLU:OE2	1.93	0.68
31:D6:11:LEU:HG	31:D6:26:ASN:ND2	2.09	0.68
35:DA:631:A:OP1	48:DP:64:LYS:HE2	1.94	0.68
5:AE:101:ILE:HD13	5:AE:118:ILE:O	1.94	0.68
24:CY:238:THR:C	24:CY:240:GLU:H	1.97	0.68
26:B1:84:GLY:O	26:B1:86:SER:N	2.27	0.68
41:DG:98:ARG:HH11	41:DG:98:ARG:HG2	1.59	0.68
39:BE:48:GLN:HE21	39:BE:78:LEU:HD22	1.59	0.68
24:AY:367:GLU:HG2	24:AY:367:GLU:O	1.94	0.68
1:CA:1324:A:H2'	1:CA:1325:C:C6	2.28	0.68
24:CY:487:ILE:HB	24:CY:597:GLY:O	1.94	0.68
53:BU:107:ALA:HA	53:BU:110:VAL:CG2	2.24	0.68
26:D1:30:VAL:HG23	26:D1:31:GLY:N	2.08	0.68
35:DA:2720:U:H2'	35:DA:2721:A:H8	1.57	0.68
21:CU:2:GLY:O	21:CU:4:GLY:N	2.26	0.68
42:BH:86:GLU:CB	42:BH:132:ARG:HB3	2.24	0.68
4:CD:24:GLU:O	4:CD:27:TYR:HB2	1.94	0.68
35:DA:900:A:H5'	35:DA:900:A:H8	1.59	0.68
35:BA:606:U:H2'	35:BA:606:U:O2	1.93	0.68
40:BF:107:LYS:O	40:BF:110:LEU:N	2.27	0.68
24:AY:21:ILE:O	24:AY:22:ASP:HB2	1.93	0.68
53:DU:112:ARG:NH2	54:DV:46:VAL:HG11	2.08	0.68
35:DA:2476:A:N1	35:DA:2477:C:C5	2.62	0.68
48:BP:23:PRO:HB2	48:BP:33:ARG:CG	2.24	0.68
30:D5:44:THR:HG22	30:D5:45:VAL:N	2.09	0.68
31:D6:15:GLU:HG3	31:D6:47:THR:HG21	1.75	0.68
1:CA:1358:U:P	14:CN:35:ARG:HG3	2.34	0.68
25:B0:7:LEU:CD1	49:BQ:85:LYS:HE2	2.22	0.68
26:B1:82:LEU:O	26:B1:83:GLU:HG3	1.94	0.68
35:DA:2308:G:N2	41:DG:79:ASN:HB2	2.09	0.68
3:AC:82:GLU:O	3:AC:86:VAL:HG13	1.93	0.68
35:DA:2074:U:H2'	35:DA:2075:U:C6	2.29	0.68
35:DA:1697:G:H3'	35:DA:1698:A:H5''	1.75	0.68
52:BT:129:ARG:HG2	52:BT:129:ARG:O	1.92	0.68
4:CD:57:ARG:HB3	4:CD:206:PHE:HB2	1.76	0.68
24:AY:309:LEU:O	24:AY:390:VAL:HA	1.93	0.68
24:AY:39:ILE:HG23	24:AY:41:LYS:HE3	1.75	0.68
48:DP:13:ASN:O	48:DP:14:LYS:HB2	1.93	0.68
11:CK:84:VAL:HG11	11:CK:95:ILE:HD11	1.76	0.68
1:CA:332:G:H2'	1:CA:333:G:H8	1.60	0.68
1:CA:376:G:H2'	1:CA:377:G:H8	1.59	0.68
35:BA:2720:U:H2'	35:BA:2721:A:H8	1.57	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
11:AK:108:ILE:N	11:AK:108:ILE:HD12	2.08	0.68
39:DE:170:LEU:H	39:DE:170:LEU:HD12	1.60	0.68
35:DA:1395:A:H4'	35:DA:1397:U:C5	2.29	0.68
35:DA:739:G:H4'	35:DA:740:U:OP1	1.94	0.68
42:DH:154:PRO:O	42:DH:156:ALA:N	2.25	0.67
53:DU:68:ALA:O	53:DU:71:GLN:HB3	1.93	0.67
40:DF:167:ALA:HB1	40:DF:173:VAL:CG1	2.21	0.67
33:D8:52:LYS:N	33:D8:53:PRO:CD	2.56	0.67
52:BT:115:ARG:CB	52:BT:115:ARG:HH11	2.03	0.67
22:CV:47:U:H3'	22:CV:48:C:C5'	2.22	0.67
51:BS:95:HIS:CG	51:BS:96:GLY:N	2.61	0.67
35:DA:142:A:H5'	35:DA:142(A):C:OP2	1.94	0.67
1:AA:267:C:H2'	1:AA:268:C:H6	1.59	0.67
24:AY:335:LEU:HD11	24:AY:352:VAL:HG11	1.73	0.67
52:BT:107:ASP:CG	52:BT:108:ARG:H	1.96	0.67
49:DQ:27:VAL:HG23	49:DQ:137:TYR:CD2	2.30	0.67
25:B0:51:VAL:HG22	25:B0:81:VAL:HG23	1.74	0.67
35:DA:1538:G:H2'	35:DA:1539:G:H8	1.59	0.67
1:AA:1308:U:H5''	13:AM:98:VAL:HG23	1.77	0.67
35:DA:555:U:H2'	35:DA:556:G:C8	2.29	0.67
26:D1:56:GLN:NE2	26:D1:87:PRO:HB3	2.08	0.67
2:AB:233:SER:HB2	2:AB:234:PRO:CD	2.24	0.67
42:DH:124:GLU:HB2	42:DH:132:ARG:HG3	1.77	0.67
32:D7:6:GLN:O	35:DA:686:G:H1'	1.94	0.67
24:CY:467:LYS:O	24:CY:471:LYS:HA	1.94	0.67
1:CA:160:A:H1'	1:CA:344:A:C5	2.29	0.67
1:CA:267:C:H2'	1:CA:268:C:H6	1.58	0.67
35:BA:1567:A:H2'	38:BD:84:TYR:HE2	1.59	0.67
35:BA:1865:G:H2'	35:BA:1866:C:H5''	1.76	0.67
1:AA:1231:G:O2'	1:AA:1232:U:H5'	1.94	0.67
35:DA:1831:G:H2'	35:DA:1832:C:C6	2.29	0.67
28:D3:28:LEU:HA	28:D3:33:GLN:OE1	1.93	0.67
41:BG:106:LEU:HA	41:BG:110:ALA:CB	2.23	0.67
35:BA:769:G:O2'	35:BA:770:G:H5'	1.94	0.67
4:AD:13:ARG:HA	4:AD:33:MET:CE	2.24	0.67
24:CY:454:MET:H	24:CY:458:HIS:HD2	1.41	0.67
53:DU:113:ALA:C	53:DU:115:ALA:H	1.98	0.67
38:DD:39:LYS:NZ	38:DD:87:ASN:HB3	2.09	0.67
50:BR:63:ARG:NH2	50:BR:77:ARG:HG2	2.08	0.67
12:CL:17:LYS:HD3	12:CL:18:VAL:HG22	1.74	0.67
3:AC:35:GLU:O	3:AC:38:ARG:HG2	1.94	0.67
48:DP:23:PRO:HB2	48:DP:33:ARG:CD	2.24	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BE:63:LEU:O	39:BE:63:LEU:HD23	1.93	0.67
35:DA:2591:C:OP2	38:DD:239:ARG:HB3	1.94	0.67
46:BN:58:ASP:O	46:BN:60:ILE:N	2.27	0.67
51:DS:66:ALA:O	51:DS:99:LYS:HA	1.94	0.67
35:DA:2712:U:HO2'	35:DA:2712(A):A:H8	0.74	0.67
35:DA:2713:A:H3'	35:DA:2714:G:C5'	2.25	0.67
7:CG:102:ARG:HG2	7:CG:106:GLN:NE2	2.09	0.67
52:DT:55:ASN:H	52:DT:59:THR:CG2	2.06	0.67
1:AA:522:C:H41	12:AL:53:ARG:HH22	1.41	0.67
4:CD:88:VAL:O	4:CD:92:VAL:HG23	1.95	0.67
10:CJ:61:GLU:OE2	14:CN:45:ARG:HD2	1.94	0.67
52:BT:129:ARG:O	52:BT:131:ALA:N	2.22	0.67
35:DA:654:A:N7	35:DA:654(V):A:H4'	2.09	0.67
35:BA:518:G:H4'	55:BW:18:ARG:NH1	2.09	0.67
58:BZ:156:LYS:O	58:BZ:158:PRO:HD3	1.94	0.67
10:AJ:13:HIS:O	10:AJ:17:ASP:HB2	1.94	0.67
35:BA:566:U:O2'	35:BA:567:A:H5'	1.93	0.67
56:DX:30:VAL:HG22	56:DX:77:LYS:O	1.94	0.67
37:BC:4:HIS:ND1	37:BC:8:TYR:HE2	1.92	0.67
25:B0:20:ARG:HD2	25:B0:20:ARG:H	1.56	0.67
1:AA:332:G:H2'	1:AA:333:G:H8	1.58	0.67
40:BF:152:GLU:O	40:BF:154:VAL:HG23	1.94	0.67
53:BU:55:ARG:HA	53:BU:58:ARG:CG	2.24	0.67
41:DG:60:LEU:O	41:DG:63:ILE:HG13	1.93	0.67
35:BA:581:C:H2'	35:BA:582:G:C8	2.29	0.67
35:BA:1819:A:H4'	35:BA:1820:U:H5'	1.76	0.67
51:DS:28:VAL:HG12	51:DS:29:PHE:N	2.07	0.67
24:CY:388:THR:CG2	24:CY:399:LEU:HD13	2.24	0.67
34:D9:17:ILE:HG21	34:D9:19:ARG:HH21	1.60	0.67
51:DS:85:VAL:HG23	51:DS:106:ARG:HG3	1.76	0.67
38:BD:267:SER:CA	38:BD:270:ILE:HD11	2.25	0.67
38:DD:183:ARG:HG2	38:DD:183:ARG:NH1	2.08	0.67
27:D2:46:GLN:OE1	35:DA:95:G:H4'	1.94	0.67
35:BA:1528(A):A:H62	35:BA:1541:G:N2	1.92	0.67
35:DA:970:C:H2'	35:DA:971:C:C6	2.29	0.67
24:CY:65:ILE:O	24:CY:67:ALA:N	2.26	0.67
35:BA:555:U:H2'	35:BA:556:G:C8	2.29	0.67
1:AA:1190:G:OP1	3:AC:5:ILE:HD12	1.94	0.67
30:D5:25:LEU:CD1	55:DW:19:LEU:HB3	2.25	0.67
35:BA:548:A:C2'	35:BA:549:G:H5'	2.24	0.67
12:AL:86:ARG:NH2	12:AL:99:HIS:CD2	2.63	0.67
57:DY:31:LEU:HD22	57:DY:31:LEU:N	2.08	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1161:C:H2'	1:CA:1162:C:H6	1.58	0.67
22:AW:1:C:H2'	22:AW:2:G:H8	1.59	0.67
1:CA:473:G:H2'	1:CA:474:G:H8	1.59	0.67
28:B3:28:LEU:N	28:B3:28:LEU:HD23	2.09	0.67
35:BA:1639:U:O2'	35:BA:1640:C:H5''	1.94	0.67
1:AA:60:A:H5''	1:AA:331:G:H22	1.58	0.67
35:DA:1718:G:H5'	35:DA:1718:G:H8	1.60	0.67
40:DF:43:LYS:HA	40:DF:98:SER:HB3	1.74	0.67
28:B3:59:VAL:HG12	28:B3:60:GLU:N	2.09	0.67
29:B4:1:MET:HG2	41:BG:98:ARG:NE	2.09	0.67
30:B5:19:ARG:HA	35:BA:2046:G:H5'	1.76	0.67
35:BA:903:C:H2'	35:BA:904:C:C5'	2.18	0.67
53:DU:83:LEU:H	53:DU:83:LEU:CD1	2.08	0.67
9:AI:4:TYR:CD2	9:AI:88:TYR:HB2	2.29	0.67
41:BG:173:LEU:HA	41:BG:176:LEU:CD1	2.25	0.67
35:BA:2346:A:H1'	35:BA:2383:G:C8	2.29	0.67
51:BS:89:ARG:O	51:BS:92:TYR:HB3	1.94	0.67
2:AB:167:PRO:HG2	2:AB:192:SER:OG	1.94	0.67
25:B0:16:SER:HB2	35:BA:2262:U:H5	1.59	0.67
39:DE:78:LEU:O	39:DE:79:ARG:HD2	1.93	0.67
58:DZ:153:SER:HB2	58:DZ:163:LEU:CD1	2.23	0.67
2:CB:21:ARG:HD2	2:CB:39:ILE:HG12	1.74	0.67
50:DR:10:LEU:HD22	50:DR:17:ARG:HD3	1.76	0.67
27:D2:32:LEU:HB2	27:D2:53:LEU:HD22	1.75	0.67
35:DA:2466:C:O2'	35:DA:2467:C:H5'	1.94	0.67
3:AC:150:LYS:HB2	3:AC:169:ALA:HB1	1.76	0.67
9:AI:48:GLU:N	9:AI:49:PRO:HD2	2.10	0.67
20:CT:48:LYS:HB3	20:CT:51:GLU:HG2	1.77	0.67
4:CD:5:ILE:HA	4:CD:115:ARG:HH12	1.57	0.67
3:CC:123:GLN:HB3	3:CC:128:PHE:HD2	1.58	0.67
35:BA:20:C:O2'	35:BA:21:A:H5'	1.93	0.67
19:CS:40:ILE:HG21	19:CS:66:MET:O	1.95	0.67
5:AE:36:ASP:OD2	5:AE:40:ARG:HB2	1.93	0.67
12:AL:113:ARG:HD2	12:AL:115:LYS:H	1.58	0.67
35:DA:2329:G:H2'	35:DA:2330:G:C8	2.29	0.67
41:BG:54:GLU:O	41:BG:57:ALA:HB3	1.94	0.67
41:BG:61:ALA:HB1	41:BG:66:GLN:O	1.95	0.67
39:BE:131:ALA:CB	39:BE:134:ILE:HD11	2.15	0.67
40:DF:107:LYS:O	40:DF:110:LEU:N	2.26	0.67
48:DP:62:LEU:N	48:DP:62:LEU:CD2	2.58	0.67
35:BA:807:U:OP2	48:BP:39:LYS:HG3	1.95	0.67
35:BA:2524:G:C8	35:BA:2524:G:H5'	2.28	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:BN:45:ASN:ND2	46:BN:45:ASN:H	1.90	0.67
39:DE:63:LEU:O	39:DE:63:LEU:HD23	1.93	0.67
1:AA:1456:G:C2'	1:AA:1457:G:H5'	2.24	0.67
29:D4:14:ILE:N	29:D4:14:ILE:HD12	2.10	0.67
54:BV:28:GLU:OE1	54:BV:31:ALA:HB2	1.94	0.67
51:BS:49:VAL:HG12	51:BS:50:SER:N	2.08	0.67
35:DA:364:C:C2'	35:DA:365:C:H5''	2.24	0.67
35:DA:1030:G:OP2	49:DQ:128:LYS:HE2	1.95	0.67
1:AA:584:G:H2'	1:AA:585:G:H8	1.59	0.67
1:CA:1211:U:H5'	1:CA:1212:U:OP1	1.94	0.67
24:CY:680:PRO:O	24:CY:682:GLN:HG2	1.93	0.67
16:AP:49:LEU:HD22	16:AP:73:LEU:HD22	1.74	0.67
41:BG:82:LEU:HD11	41:BG:87:PRO:HB3	1.76	0.67
40:BF:25:PRO:HG3	40:BF:119:ARG:HB2	1.76	0.67
35:BA:559:G:H22	53:BU:49:HIS:CD2	2.13	0.67
54:BV:39:LEU:O	54:BV:40:LEU:HB2	1.93	0.67
31:B6:10:LEU:H	31:B6:10:LEU:HD23	1.58	0.67
33:B8:33:ASN:O	33:B8:34:TRP:HB3	1.93	0.67
35:BA:363(B):G:H2'	35:BA:363(C):G:H8	1.58	0.67
3:AC:70:VAL:CG1	3:AC:71:ALA:H	2.06	0.67
31:D6:38:LYS:HD3	35:DA:2344:U:OP1	1.94	0.67
46:BN:48:MET:CE	46:BN:48:MET:H	2.06	0.67
2:CB:118:LEU:CB	2:CB:142:LEU:HD12	2.21	0.67
48:DP:85:LEU:CD1	48:DP:120:ALA:HB2	2.22	0.67
12:CL:70:ILE:HD12	12:CL:75:HIS:CD2	2.29	0.67
41:DG:121:ASN:HB3	41:DG:124:SER:CB	2.22	0.67
52:DT:23:ARG:HB2	52:DT:24:PRO:HD2	1.77	0.67
2:AB:204:ASN:C	2:AB:204:ASN:HD22	1.94	0.67
24:AY:72:CYS:SG	24:AY:79:ILE:HB	2.34	0.67
1:AA:1325:C:H2'	1:AA:1326:C:H6	1.58	0.67
40:DF:132:VAL:HG22	40:DF:133:ASN:N	2.10	0.67
35:DA:2593:U:H2'	35:DA:2594:C:C6	2.29	0.67
55:BW:68:ARG:HA	55:BW:110:LYS:HG2	1.76	0.67
40:DF:89:VAL:HG12	40:DF:90:PHE:N	2.09	0.67
35:BA:958:U:OP2	49:BQ:14:ARG:NH1	2.27	0.67
54:DV:6:LYS:O	54:DV:37:VAL:HG21	1.94	0.67
5:AE:155:GLU:N	8:AH:46:LYS:HG2	2.09	0.67
24:CY:293:THR:HB	24:CY:294:PRO:HD2	1.76	0.67
1:CA:1459:C:H2'	1:CA:1460:A:C8	2.30	0.67
35:BA:1395:A:H4'	35:BA:1397:U:C5	2.30	0.67
35:BA:1113:U:H2'	35:BA:1114:G:C8	2.29	0.67
49:BQ:27:VAL:HG23	49:BQ:137:TYR:CD2	2.29	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AJ:4:ILE:N	10:AJ:4:ILE:HD12	2.09	0.67
4:AD:33:MET:O	4:AD:37:PRO:HG3	1.94	0.67
24:CY:453:GLY:HA3	24:CY:459:LEU:HD23	1.77	0.67
40:DF:192:LEU:C	40:DF:192:LEU:HD23	2.15	0.67
8:AH:103:VAL:CG2	8:AH:110:ALA:HB2	2.25	0.67
35:DA:1504:C:H2'	35:DA:1505:C:H5''	1.75	0.67
51:BS:74:ALA:HB1	51:BS:103:GLU:CB	2.24	0.67
53:BU:20:LEU:N	53:BU:20:LEU:HD22	2.08	0.67
39:DE:117:MET:HG2	39:DE:117:MET:O	1.94	0.67
33:D8:4:MET:O	33:D8:62:LEU:HD12	1.95	0.67
35:DA:813:U:H2'	35:DA:814:C:H6	1.59	0.67
1:AA:973:G:H3'	1:AA:974:A:H5''	1.76	0.67
52:BT:82:LEU:N	52:BT:82:LEU:HD12	2.10	0.67
35:DA:2186:G:H2'	35:DA:2187:G:H5''	1.77	0.67
2:AB:21:ARG:HD2	2:AB:39:ILE:HG12	1.75	0.67
39:BE:113:PHE:CE2	39:BE:158:GLY:HA2	2.30	0.67
39:BE:4:ILE:HD11	39:BE:28:ALA:HB1	1.77	0.67
24:CY:82:ILE:HD12	24:CY:101:LEU:HD23	1.75	0.67
2:CB:233:SER:HB2	2:CB:234:PRO:CD	2.24	0.67
27:B2:21:LEU:O	27:B2:24:LEU:HB3	1.95	0.67
27:D2:58:ALA:HB1	35:DA:76:C:C4'	2.24	0.67
35:BA:1790:C:H5''	35:BA:1791:A:OP1	1.95	0.67
35:DA:2832:U:H1'	35:DA:2834:G:N3	2.10	0.67
1:CA:584:G:H2'	1:CA:585:G:C8	2.30	0.67
35:DA:271(J):C:H2'	35:DA:271(J):C:O2	1.94	0.67
2:CB:43:ASP:OD2	2:CB:46:LYS:HB2	1.95	0.67
13:AM:37:THR:HG21	13:AM:56:LEU:HD22	1.76	0.67
1:AA:1424:C:H2'	1:AA:1425:U:H6	1.60	0.67
10:CJ:32:ALA:HB2	10:CJ:76:ASN:ND2	2.10	0.67
24:CY:137:ASN:HD21	24:CY:263:ALA:CB	2.08	0.67
51:BS:85:VAL:HG23	51:BS:106:ARG:HG3	1.76	0.67
35:DA:1081:U:H5''	44:DK:122:ALA:HB1	1.77	0.67
35:DA:581:C:H2'	35:DA:582:G:C8	2.29	0.67
46:BN:43:THR:O	46:BN:46:VAL:HG12	1.94	0.67
2:CB:19:HIS:O	2:CB:20:GLU:O	2.12	0.67
24:CY:631:ILE:HG21	35:DA:1067:A:C4	2.30	0.67
54:BV:18:LEU:HD13	54:BV:19:LYS:H	1.59	0.67
52:DT:106:SER:HA	52:DT:110:ILE:HG12	1.77	0.67
39:DE:4:ILE:HD11	39:DE:28:ALA:HB1	1.77	0.67
35:DA:1435:G:H5'	35:DA:1436:G:OP2	1.93	0.67
4:AD:5:ILE:HA	4:AD:115:ARG:HH12	1.60	0.67
35:DA:910:A:C5	49:DQ:13:GLN:HG3	2.30	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:BD:172:TYR:CD1	38:BD:186:HIS:HA	2.30	0.67
3:CC:134:ILE:HD11	3:CC:153:VAL:HG23	1.76	0.67
46:BN:55:VAL:HG22	46:BN:126:PRO:HA	1.74	0.67
17:CQ:47:PRO:HG2	17:CQ:48:GLU:OE2	1.94	0.67
1:AA:160:A:H1'	1:AA:344:A:C5	2.29	0.67
49:BQ:79:LEU:HD23	49:BQ:80:GLU:H	1.58	0.67
14:CN:12:ARG:C	14:CN:14:PRO:HD3	2.15	0.67
1:AA:1161:C:H2'	1:AA:1162:C:C6	2.29	0.67
37:BC:78:ILE:O	37:BC:120:VAL:HG21	1.95	0.67
35:DA:825:C:O2'	35:DA:826:U:H5'	1.94	0.67
48:DP:62:LEU:N	48:DP:62:LEU:HD23	2.09	0.67
24:CY:145:ASP:O	24:CY:149:VAL:HG23	1.93	0.67
37:DC:128:LEU:HD12	37:DC:131:ILE:HB	1.76	0.67
48:DP:38:GLN:HG3	48:DP:39:LYS:N	2.08	0.67
51:BS:30:ARG:HD3	51:BS:97:ARG:HG2	1.75	0.67
48:DP:30:THR:CG2	48:DP:31:ALA:H	2.07	0.67
46:DN:48:MET:CE	46:DN:48:MET:H	2.07	0.67
27:D2:2:LYS:CB	35:DA:97:C:H5''	2.25	0.67
22:CV:49:G:H1	22:CV:65:C:N4	1.92	0.67
58:DZ:95:PRO:HA	58:DZ:129:SER:HA	1.77	0.67
4:CD:189:PRO:HB2	4:CD:194:LEU:HD21	1.76	0.67
1:CA:522:C:H41	12:CL:53:ARG:HH22	1.42	0.67
1:AA:176:C:H2'	1:AA:177:C:H6	1.59	0.67
35:BA:419:C:H2'	35:BA:420:C:C6	2.29	0.67
39:DE:179:GLU:O	39:DE:180:ASN:HB2	1.94	0.67
1:AA:1161:C:H2'	1:AA:1162:C:H6	1.60	0.67
24:AY:395:PRO:O	24:AY:397:VAL:N	2.27	0.67
24:CY:553:GLY:H	24:CY:557:GLY:HA2	1.60	0.67
35:BA:1367:A:H2'	35:BA:1368:G:H5'	1.75	0.67
24:CY:655:TYR:OH	24:CY:659:LEU:HD23	1.95	0.67
16:CP:74:LEU:CD2	16:CP:79:VAL:HG21	2.24	0.67
21:AU:2:GLY:O	21:AU:4:GLY:N	2.28	0.67
35:DA:1183:G:O2'	35:DA:1184:G:H5'	1.94	0.67
20:AT:82:SER:O	20:AT:86:ARG:HB2	1.95	0.67
42:DH:76:VAL:O	42:DH:79:VAL:HG22	1.95	0.67
18:AR:87:ARG:NH1	18:AR:87:ARG:HB3	2.10	0.67
35:DA:491:G:H2'	35:DA:492:A:H8	1.60	0.67
41:BG:112:PRO:O	41:BG:113:ARG:CA	2.36	0.67
10:AJ:3:LYS:O	10:AJ:100:THR:HG23	1.95	0.67
1:CA:980:C:C5	1:CA:981:U:C2	2.83	0.67
24:CY:21:ILE:H	24:CY:21:ILE:HD13	1.60	0.67
40:BF:192:LEU:HD23	40:BF:192:LEU:C	2.16	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:CI:4:TYR:CD2	9:CI:88:TYR:HB2	2.29	0.67
33:B8:50:LEU:CD1	33:B8:51:ALA:H	2.08	0.67
35:DA:1058:G:N2	35:DA:1081:U:H1'	2.10	0.67
35:DA:1494:A:H2'	35:DA:1495:A:H5''	1.76	0.67
24:AY:526:VAL:HB	24:AY:566:THR:HA	1.77	0.67
54:BV:19:LYS:HE2	54:BV:20:LEU:H	1.61	0.67
51:DS:98:VAL:HG12	51:DS:100:ALA:H	1.59	0.67
35:BA:1541:G:H4'	35:BA:1542:A:C5'	2.25	0.67
1:AA:942:G:H21	9:AI:124:GLN:NE2	1.92	0.67
24:AY:404:VAL:N	24:AY:405:PRO:HD3	2.11	0.67
1:CA:1308:U:H5''	13:CM:98:VAL:HG23	1.75	0.67
1:CA:294:U:H2'	1:CA:295:C:C6	2.30	0.67
51:BS:19:LYS:HB3	51:BS:20:ARG:NH2	2.10	0.67
35:DA:2408:U:H2'	35:DA:2409:G:H8	1.60	0.67
9:AI:40:LEU:HD11	9:AI:70:LYS:HG2	1.75	0.67
1:CA:1292:U:H2'	1:CA:1293:G:C8	2.30	0.67
51:DS:58:LEU:HD12	51:DS:59:LYS:H	1.60	0.67
26:B1:26:ARG:HG3	26:B1:27:GLU:H	1.60	0.67
51:BS:58:LEU:HD12	51:BS:59:LYS:H	1.59	0.67
3:AC:206:GLU:HG2	3:AC:207:VAL:H	1.59	0.67
44:DK:7:VAL:O	44:DK:7:VAL:HG13	1.94	0.67
35:DA:1644:C:O2	35:DA:1644:C:H2'	1.94	0.67
24:CY:343:ASN:C	24:CY:343:ASN:HD22	1.99	0.67
35:DA:2241:A:H2'	35:DA:2242:G:C8	2.30	0.67
35:DA:1242:A:N1	48:DP:8:PRO:HG2	2.09	0.66
22:AV:17:C:H6	22:AV:17(A):U:H5	1.40	0.66
24:AY:230:LYS:HE2	24:AY:241:GLU:OE1	1.95	0.66
53:BU:112:ARG:NH2	54:BV:46:VAL:HG11	2.10	0.66
53:BU:113:ALA:C	53:BU:115:ALA:H	1.97	0.66
53:BU:95:LEU:HD12	54:BV:11:GLN:HG3	1.76	0.66
16:CP:33:ILE:O	16:CP:34:GLU:HB2	1.94	0.66
35:BA:1902:C:H4'	38:BD:244:ARG:HB2	1.77	0.66
52:DT:115:ARG:HH11	52:DT:115:ARG:CB	2.04	0.66
44:DK:77:LEU:HD23	44:DK:77:LEU:N	2.10	0.66
51:DS:74:ALA:HB1	51:DS:103:GLU:CB	2.24	0.66
35:BA:1656:C:H2'	35:BA:1657:C:C6	2.29	0.66
19:CS:20:LEU:HA	19:CS:23:ASN:HB2	1.75	0.66
13:CM:97:PRO:CA	13:CM:110:ARG:HD3	2.25	0.66
1:CA:1368:G:O2'	1:CA:1369:C:H5'	1.95	0.66
35:BA:936:C:H2'	35:BA:937:U:C6	2.30	0.66
1:CA:1190:G:OP1	3:CC:5:ILE:HD12	1.94	0.66
35:DA:1682:G:H2'	35:DA:1683:C:H6	1.59	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:BF:89:VAL:HG12	40:BF:90:PHE:N	2.09	0.66
51:DS:19:LYS:HB3	51:DS:20:ARG:NH2	2.10	0.66
10:CJ:42:THR:HG23	10:CJ:68:HIS:HA	1.77	0.66
16:CP:74:LEU:HD23	16:CP:79:VAL:HG21	1.74	0.66
39:DE:26:ILE:HG21	39:DE:196:VAL:HG21	1.77	0.66
28:D3:6:VAL:HB	28:D3:54:VAL:HG11	1.77	0.66
1:AA:1292:U:H2'	1:AA:1293:G:C8	2.30	0.66
35:BA:389:G:H1	48:BP:71:VAL:HG12	1.60	0.66
55:DW:64:MET:O	55:DW:65:LEU:HB3	1.94	0.66
35:DA:1567:A:H2'	38:DD:84:TYR:HE2	1.58	0.66
6:CF:80:ARG:HH11	6:CF:88:VAL:HB	1.59	0.66
47:BO:35:VAL:HG11	47:BO:103:ALA:HB3	1.77	0.66
44:BK:14:ALA:HA	44:BK:41:PHE:CE2	2.30	0.66
35:BA:2476:A:N1	35:BA:2477:C:C5	2.63	0.66
35:BA:1846:G:H5'	35:BA:1846:G:C8	2.24	0.66
35:BA:940:G:H3'	35:BA:941:A:H5''	1.77	0.66
40:DF:152:GLU:O	40:DF:154:VAL:HG23	1.94	0.66
52:DT:28:VAL:HG21	52:DT:46:GLU:CG	2.22	0.66
35:BA:142:A:H5'	35:BA:142(A):C:OP2	1.95	0.66
44:DK:109:LYS:O	44:DK:112:MET:HG2	1.94	0.66
51:DS:85:VAL:C	51:DS:106:ARG:HG2	2.16	0.66
52:BT:30:VAL:HG21	52:BT:84:GLN:H	1.61	0.66
44:DK:23:VAL:HG13	44:DK:27:LEU:HD22	1.76	0.66
24:CY:489:LYS:HD3	24:CY:598:ASP:OD1	1.93	0.66
52:DT:57:PHE:O	52:DT:59:THR:HG23	1.96	0.66
29:B4:14:ILE:N	29:B4:14:ILE:HD12	2.10	0.66
53:DU:107:ALA:HA	53:DU:110:VAL:HG23	1.77	0.66
35:BA:1788:C:O2'	35:BA:1789:A:H5'	1.95	0.66
51:DS:19:LYS:HB3	51:DS:20:ARG:HH22	1.60	0.66
35:BA:1115:G:H8	35:BA:1115:G:H5'	1.60	0.66
1:CA:1160:G:N3	1:CA:1160:G:H2'	2.10	0.66
13:AM:10:PRO:HG2	13:AM:11:ARG:H	1.61	0.66
14:AN:12:ARG:C	14:AN:14:PRO:HD3	2.16	0.66
35:BA:2408:U:H2'	35:BA:2409:G:H8	1.59	0.66
48:BP:122:PRO:HB3	48:BP:141:ALA:HB1	1.77	0.66
2:CB:27:LYS:HD3	2:CB:195:ASP:OD1	1.95	0.66
35:DA:657:U:H2'	35:DA:658:C:C6	2.31	0.66
35:BA:229:A:H3'	35:BA:230:U:H5'	1.77	0.66
38:BD:166:GLN:HA	38:BD:166:GLN:HE21	1.61	0.66
1:AA:491:G:H2'	1:AA:492:G:H8	1.59	0.66
4:AD:30:LYS:C	4:AD:32:ALA:N	2.47	0.66
35:DA:1656:C:H2'	35:DA:1657:C:C6	2.31	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:84:THR:N	24:AY:85:PRO:CD	2.55	0.66
48:BP:7:ARG:CB	48:BP:8:PRO:HD3	2.23	0.66
61:AY:702:FUA:H201	61:AY:702:FUA:O1	1.95	0.66
35:DA:363(B):G:H2'	35:DA:363(C):G:H8	1.59	0.66
41:DG:45:GLU:O	41:DG:51:ARG:HB3	1.96	0.66
1:CA:1238:A:N7	1:CA:1303:C:H1'	2.10	0.66
51:BS:85:VAL:C	51:BS:106:ARG:HG2	2.16	0.66
35:DA:2346:A:C2	35:DA:2383:G:C2	2.84	0.66
3:CC:58:GLU:HB2	3:CC:65:ALA:HB2	1.78	0.66
26:B1:73:LEU:HD23	26:B1:94:LEU:HD23	1.78	0.66
48:BP:115:LEU:HD23	48:BP:115:LEU:N	2.10	0.66
46:BN:58:ASP:OD2	46:BN:59:LYS:HG2	1.95	0.66
51:DS:104:GLY:C	51:DS:106:ARG:H	1.99	0.66
2:AB:77:ALA:HB2	2:AB:211:ILE:HD13	1.76	0.66
24:AY:100:VAL:HG23	24:AY:329:ARG:HG2	1.76	0.66
35:DA:1514:U:H2'	35:DA:1515:G:H8	1.61	0.66
48:DP:108:LYS:C	48:DP:110:TYR:H	1.98	0.66
1:AA:473:G:H2'	1:AA:474:G:H8	1.60	0.66
35:BA:1917:U:C2'	35:BA:1918:A:H5'	2.25	0.66
35:BA:1028:A:N6	35:BA:1125:G:H2'	2.10	0.66
13:AM:108:ARG:HH11	13:AM:108:ARG:HA	1.59	0.66
41:BG:90:LEU:HD12	41:BG:91:ARG:H	1.59	0.66
24:CY:17:ILE:HD12	24:CY:17:ILE:N	2.08	0.66
24:AY:119:GLU:O	24:AY:121:VAL:HG22	1.96	0.66
57:BY:28:LYS:C	57:BY:38:ILE:HG22	2.16	0.66
31:D6:45:LYS:HD3	35:DA:2371:G:O3'	1.96	0.66
26:B1:45:ASN:HD22	26:B1:46:LEU:N	1.92	0.66
35:BA:2713:A:H3'	35:BA:2714:G:C5'	2.25	0.66
54:DV:19:LYS:HE2	54:DV:20:LEU:H	1.59	0.66
35:BA:191:A:H2'	35:BA:192:C:H6	1.60	0.66
40:BF:65:TRP:CZ3	40:BF:75:HIS:HD2	2.12	0.66
2:AB:222:ILE:HB	2:AB:226:ARG:HH21	1.59	0.66
1:CA:1323:G:H2'	1:CA:1324:A:H8	1.61	0.66
35:DA:2425:A:H4'	35:DA:2426:A:H5''	1.75	0.66
44:DK:21:PRO:HG3	44:DK:25:PRO:HD3	1.77	0.66
26:D1:80:LEU:HB3	26:D1:82:LEU:HD11	1.76	0.66
50:BR:10:LEU:HD22	50:BR:17:ARG:HD3	1.77	0.66
9:AI:5:TYR:CD2	9:AI:6:GLY:N	2.64	0.66
39:BE:199:ARG:HB3	39:BE:200:GLU:OE2	1.95	0.66
11:AK:16:SER:O	11:AK:35:PRO:HG3	1.95	0.66
20:AT:48:LYS:HB3	20:AT:51:GLU:HG2	1.78	0.66
27:B2:13:ALA:HA	27:B2:16:LEU:CD1	2.26	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AC:137:ALA:HA	3:AC:140:ARG:NH2	2.09	0.66
1:CA:1294:G:O2'	1:CA:1295:G:H5'	1.95	0.66
6:CF:16:GLN:N	6:CF:16:GLN:CD	2.49	0.66
38:DD:226:MET:HB3	38:DD:230:ASP:HB2	1.77	0.66
36:BB:26:A:H2'	36:BB:27:C:C6	2.30	0.66
2:AB:27:LYS:HD3	2:AB:195:ASP:OD1	1.94	0.66
35:DA:2668:G:O2'	35:DA:2669:G:H5'	1.95	0.66
26:B1:64:ALA:HA	26:B1:67:ILE:HG13	1.76	0.66
28:B3:6:VAL:HB	28:B3:54:VAL:HG11	1.76	0.66
29:B4:9:LEU:HD23	41:BG:65:GLY:HA3	1.76	0.66
53:DU:61:TRP:O	53:DU:65:ILE:HG13	1.95	0.66
16:AP:33:ILE:O	16:AP:34:GLU:HB2	1.94	0.66
57:DY:8:LYS:HB2	57:DY:28:LYS:HZ3	1.61	0.66
49:DQ:55:VAL:CG1	49:DQ:56:ARG:N	2.59	0.66
44:BK:109:LYS:O	44:BK:112:MET:HG2	1.95	0.66
35:BA:2631:G:N2	39:BE:61:ARG:HH12	1.93	0.66
24:CY:632:LEU:CG	24:CY:645:ALA:HA	2.26	0.66
55:DW:5:ALA:O	55:DW:6:ILE:HB	1.93	0.66
35:DA:2248:C:C2'	35:DA:2249:U:H5'	2.24	0.66
38:BD:91:ARG:NH1	38:BD:91:ARG:HG2	2.04	0.66
9:AI:104:ARG:O	9:AI:105:ASP:HB3	1.94	0.66
58:DZ:77:ASP:HB2	58:DZ:82:ARG:HB3	1.78	0.66
42:DH:124:GLU:CB	42:DH:132:ARG:HG3	2.25	0.66
1:AA:584:G:H2'	1:AA:585:G:C8	2.30	0.66
1:AA:474:G:H2'	1:AA:475:G:H8	1.58	0.66
35:BA:1010:A:H1'	35:BA:1153:C:H1'	1.76	0.66
7:CG:27:ILE:CD1	7:CG:40:ALA:HA	2.26	0.66
1:AA:748:C:H6	1:AA:748:C:OP2	1.79	0.66
42:BH:76:VAL:O	42:BH:79:VAL:HG22	1.95	0.66
43:BJ:73:UNK:C	43:BJ:75:UNK:N	2.53	0.66
1:CA:748:C:OP2	1:CA:748:C:H6	1.78	0.66
51:DS:40:ILE:HG22	51:DS:41:ASP:N	2.09	0.66
10:AJ:32:ALA:HB2	10:AJ:76:ASN:ND2	2.10	0.66
53:DU:111:GLU:O	53:DU:115:ALA:HB2	1.95	0.66
31:B6:10:LEU:HD22	31:B6:10:LEU:H	1.59	0.66
51:DS:15:ARG:HB3	51:DS:18:ILE:CD1	2.24	0.66
35:DA:807:U:OP2	48:DP:39:LYS:HG3	1.94	0.66
35:DA:2346:A:H1'	35:DA:2383:G:C8	2.30	0.66
3:CC:58:GLU:N	3:CC:65:ALA:HB3	2.06	0.66
35:DA:580:C:H2'	35:DA:581:C:C6	2.31	0.66
48:DP:114:ILE:HD12	48:DP:115:LEU:N	2.09	0.66
48:BP:114:ILE:HD12	48:BP:115:LEU:N	2.11	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:D4:1:MET:HG2	41:DG:98:ARG:CZ	2.25	0.66
35:DA:2893:G:H5'	35:DA:2894:G:H5'	1.78	0.66
1:CA:973:G:H1'	10:CJ:55:LYS:HZ1	1.61	0.66
35:BA:2591:C:OP2	38:BD:239:ARG:HB3	1.96	0.66
52:BT:85:LYS:HB3	52:BT:85:LYS:HZ2	1.59	0.66
38:DD:158:ALA:O	38:DD:196:VAL:HG11	1.96	0.66
35:BA:1223:G:C3'	35:BA:1224:C:H5''	2.24	0.66
46:BN:67:LEU:HB3	46:BN:88:GLU:CG	2.26	0.66
39:DE:11:MET:CB	39:DE:24:THR:HA	2.25	0.66
35:BA:2162:G:H2'	35:BA:2163:C:C6	2.31	0.66
58:DZ:143:GLY:O	58:DZ:144:LEU:HD13	1.96	0.66
38:DD:117:VAL:HG23	38:DD:129:ASN:HA	1.75	0.66
35:DA:1113:U:H2'	35:DA:1114:G:C8	2.30	0.66
1:AA:294:U:H2'	1:AA:295:C:C6	2.29	0.66
46:BN:21:LYS:HB3	46:BN:26:LEU:HD23	1.78	0.66
35:BA:2196:C:O2'	35:BA:2197:U:H5'	1.96	0.66
35:DA:145:G:H2'	35:DA:146:G:H8	1.61	0.66
10:AJ:42:THR:HG23	10:AJ:68:HIS:HA	1.76	0.66
35:BA:1917:U:O2'	35:BA:1918:A:H5'	1.95	0.66
9:AI:53:VAL:C	9:AI:55:ALA:H	1.99	0.66
1:AA:1160:G:N3	1:AA:1160:G:H2'	2.09	0.66
35:BA:1217:C:OP2	53:BU:15:LYS:NZ	2.23	0.66
35:DA:1268:A:H2'	35:DA:1269:A:O4'	1.96	0.66
57:BY:51:VAL:C	57:BY:53:PRO:HD2	2.16	0.66
37:BC:48:LEU:HD12	37:BC:48:LEU:N	2.11	0.66
5:CE:36:ASP:O	5:CE:37:ARG:HB2	1.96	0.66
17:AQ:47:PRO:HG2	17:AQ:48:GLU:OE2	1.96	0.66
41:BG:28:VAL:O	41:BG:31:VAL:HG12	1.95	0.66
4:AD:24:GLU:O	4:AD:27:TYR:HB2	1.96	0.66
35:DA:903:C:H2'	35:DA:904:C:C5'	2.18	0.66
31:B6:27:LYS:HD2	31:B6:30:THR:HB	1.78	0.66
48:BP:41:ARG:CA	48:BP:41:ARG:HH21	2.05	0.66
58:BZ:4:ARG:NH1	58:BZ:66:SER:HB2	2.10	0.66
31:D6:19:ARG:O	31:D6:20:ASN:O	2.14	0.66
33:D8:6:THR:CG2	33:D8:63:PRO:HD3	2.25	0.66
35:DA:2206:G:N2	35:DA:2207:G:H5'	2.11	0.66
41:DG:123:ASN:C	41:DG:125:PHE:H	1.99	0.66
54:DV:19:LYS:CE	54:DV:20:LEU:H	2.09	0.66
1:AA:1324:A:H2'	1:AA:1325:C:C6	2.31	0.66
16:AP:8:ARG:HB3	16:AP:28:ARG:HH12	1.60	0.66
19:CS:6:LYS:H	19:CS:6:LYS:CE	2.09	0.66
1:CA:1412:C:H2'	1:CA:1413:A:C8	2.29	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:191:G:C4	20:AT:105:SER:HB3	2.30	0.66
26:D1:8:SER:HB3	26:D1:66:HIS:CE1	2.31	0.66
38:BD:153:ALA:C	38:BD:154:LYS:HG3	2.16	0.66
47:DO:64:ARG:O	47:DO:82:ASN:HA	1.96	0.66
28:D3:28:LEU:HD23	28:D3:28:LEU:N	2.10	0.66
35:DA:784:A:H5'	38:DD:227:ASN:ND2	2.11	0.66
32:B7:46:VAL:HG12	32:B7:47:ARG:N	2.11	0.66
11:AK:48:ILE:HD13	11:AK:48:ILE:N	2.10	0.66
1:CA:20:U:H2'	1:CA:21:G:O4'	1.95	0.66
1:CA:1347:G:H3'	9:CI:108:VAL:O	1.95	0.66
11:CK:16:SER:O	11:CK:35:PRO:HG3	1.95	0.66
36:DB:26:A:H2'	36:DB:27:C:C6	2.31	0.66
35:BA:2241:A:H2'	35:BA:2242:G:C8	2.30	0.66
58:BZ:18:LEU:O	58:BZ:21:ALA:HB3	1.96	0.66
1:AA:1261:A:H2'	1:AA:1262:C:H5'	1.76	0.66
24:AY:466:LEU:HA	24:AY:470:PHE:HD2	1.58	0.66
38:DD:35:LYS:HD2	38:DD:36:PRO:CA	2.25	0.66
57:DY:76:CYS:HB3	57:DY:96:ILE:CD1	2.22	0.66
1:AA:1238:A:N7	1:AA:1303:C:H1'	2.11	0.66
37:DC:134:PRO:C	37:DC:135:ARG:HD2	2.15	0.66
35:DA:27:G:HO2'	35:DA:28:A:H8	1.41	0.66
44:BK:57:ILE:N	44:BK:57:ILE:HD12	2.11	0.66
35:BA:2206:G:N2	35:BA:2207:G:H5'	2.11	0.66
1:CA:1234:C:O2'	1:CA:1235:U:H5'	1.96	0.66
51:DS:67:ARG:HB3	51:DS:71:ARG:HH22	1.61	0.66
51:DS:95:HIS:CG	51:DS:96:GLY:N	2.62	0.66
32:B7:28:ARG:HG3	32:B7:28:ARG:HH11	1.60	0.66
40:DF:125:LEU:HD23	40:DF:125:LEU:H	1.61	0.66
1:AA:715:A:H2'	1:AA:716:A:C8	2.30	0.66
40:BF:125:LEU:HD23	40:BF:125:LEU:H	1.60	0.66
41:BG:56:ALA:HB1	41:BG:153:ARG:NE	2.11	0.66
24:CY:26:THR:HA	24:CY:83:ASP:OD1	1.95	0.66
40:BF:4:VAL:HG13	40:BF:19:GLU:OE2	1.95	0.66
22:CW:37:U:H3	23:CX:13:A:H61	1.44	0.66
38:DD:35:LYS:HG2	38:DD:63:ARG:CA	2.24	0.66
57:DY:88:LYS:O	57:DY:90:LEU:HD23	1.95	0.66
41:DG:139:LEU:HA	41:DG:144:ILE:HG21	1.78	0.66
41:DG:62:LEU:HD12	41:DG:62:LEU:N	2.04	0.66
10:CJ:3:LYS:O	10:CJ:100:THR:HG23	1.96	0.66
35:BA:1080:C:O2'	35:BA:1081:U:H5'	1.96	0.66
3:CC:70:VAL:CG1	3:CC:72:LYS:H	2.03	0.66
24:CY:115:GLU:OE1	24:CY:152:THR:HG21	1.96	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
12:AL:18:VAL:O	12:AL:19:ARG:HB3	1.96	0.66
3:AC:58:GLU:N	3:AC:65:ALA:HB3	2.07	0.66
1:AA:1321:C:H5''	1:AA:1322:C:C5'	2.26	0.66
2:CB:189:ASP:OD1	2:CB:205:ASP:HB3	1.95	0.66
2:CB:54:THR:O	2:CB:58:ILE:HG13	1.95	0.66
44:BK:6:ALA:CB	44:BK:59:ILE:HG22	2.21	0.66
56:DX:35:THR:HB	56:DX:38:GLU:HB2	1.77	0.66
10:AJ:49:VAL:CG2	14:AN:41:ARG:HB2	2.24	0.66
35:BA:2069:G:O2'	35:BA:2070:G:H5'	1.96	0.66
35:DA:191:A:H2'	35:DA:192:C:H6	1.60	0.66
44:DK:57:ILE:N	44:DK:57:ILE:HD12	2.10	0.66
24:AY:517:LEU:HB3	24:AY:521:SER:CB	2.26	0.66
24:AY:485:GLU:HG3	24:AY:553:GLY:HA3	1.77	0.66
52:BT:106:SER:HA	52:BT:110:ILE:HG12	1.78	0.66
24:CY:530:VAL:HG12	24:CY:533:VAL:HG23	1.78	0.66
24:CY:99:ARG:HE	24:CY:128:TYR:HB2	1.61	0.66
44:BK:93:ARG:HB2	58:BZ:112:ARG:NE	2.09	0.66
5:AE:91:LEU:HD13	5:AE:120:THR:CG2	2.25	0.66
40:BF:132:VAL:HG22	40:BF:133:ASN:N	2.11	0.66
51:DS:49:VAL:HG12	51:DS:50:SER:N	2.11	0.66
42:BH:154:PRO:O	42:BH:156:ALA:N	2.27	0.66
1:AA:630:G:C2'	1:AA:631:G:H5''	2.26	0.66
35:DA:279:C:C2'	35:DA:280:C:H5''	2.25	0.66
1:AA:1346:A:N1	1:AA:1374:A:H5''	2.11	0.66
35:BA:2241:A:H2'	35:BA:2242:G:H8	1.60	0.66
6:AF:80:ARG:HH11	6:AF:88:VAL:HB	1.60	0.66
3:AC:11:ARG:O	3:AC:13:GLY:N	2.29	0.66
22:CW:52:C:H3'	22:CW:53:G:H5''	1.77	0.66
30:D5:19:ARG:HA	35:DA:2046:G:H5'	1.78	0.66
1:CA:1261:A:H2'	1:CA:1262:C:H5'	1.77	0.66
1:CA:41:G:H2'	1:CA:42:G:H8	1.59	0.66
58:BZ:82:ARG:O	58:BZ:83:PRO:C	2.32	0.66
35:DA:1278:A:H5''	50:DR:36:THR:HG22	1.77	0.66
39:BE:26:ILE:HG21	39:BE:196:VAL:HG21	1.77	0.66
44:DK:56:GLU:O	44:DK:67:PHE:HA	1.96	0.66
42:DH:175:LYS:O	42:DH:176:ALA:HB3	1.97	0.66
24:AY:17:ILE:O	24:AY:85:PRO:HG2	1.96	0.66
35:DA:559:G:H22	53:DU:49:HIS:CD2	2.14	0.66
54:DV:39:LEU:O	54:DV:40:LEU:HB2	1.95	0.66
24:AY:12:LEU:HB3	24:AY:283:PRO:HG2	1.78	0.66
38:DD:61:LEU:O	38:DD:63:ARG:NH1	2.29	0.66
58:DZ:12:GLY:HA2	58:DZ:36:LYS:HZ1	1.60	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
58:BZ:99:TYR:HE2	58:BZ:125:LEU:HD13	1.61	0.66
57:BY:74:PRO:O	57:BY:80:GLY:HA2	1.96	0.66
35:BA:1081:U:H5''	44:BK:122:ALA:HB1	1.77	0.66
1:CA:1038:C:H2'	1:CA:1039:C:C5	2.30	0.66
26:D1:46:LEU:CD2	26:D1:46:LEU:H	2.07	0.66
3:CC:58:GLU:H	3:CC:65:ALA:CB	2.06	0.66
50:BR:30:THR:OG1	50:BR:75:LEU:HD21	1.95	0.66
38:DD:43:ARG:HB3	38:DD:54:ARG:HB2	1.78	0.66
25:B0:16:SER:OG	35:BA:2261:C:H3'	1.96	0.66
35:DA:139:G:C6	35:DA:140:G:H2'	2.30	0.66
35:DA:814:C:H2'	35:DA:815:C:C6	2.30	0.66
44:BK:23:VAL:HG13	44:BK:27:LEU:HD22	1.77	0.66
35:DA:2631:G:N2	39:DE:61:ARG:NH1	2.44	0.66
35:BA:1494:A:H2'	35:BA:1495:A:H5''	1.78	0.66
35:DA:545:C:H3'	35:DA:547:A:H5''	1.78	0.66
57:DY:62:GLU:CG	57:DY:63:LYS:H	2.09	0.66
26:D1:86:SER:HB2	26:D1:90:ILE:HG12	1.78	0.66
42:DH:137:ASP:HB3	42:DH:140:LYS:HB2	1.77	0.66
39:DE:11:MET:HB3	39:DE:24:THR:HA	1.78	0.66
47:BO:104:ARG:HH21	52:BT:33:LYS:HE3	1.61	0.66
38:BD:24:ILE:HD13	38:BD:25:THR:N	2.10	0.66
8:AH:10:LEU:CD2	8:AH:83:ILE:HD11	2.24	0.66
27:B2:50:ILE:C	27:B2:52:ASP:H	1.96	0.66
35:DA:1115:G:H8	35:DA:1115:G:H5'	1.61	0.66
35:DA:1052:C:H2'	35:DA:1053:C:C6	2.31	0.66
35:DA:1516:C:H2'	35:DA:1517:G:H5'	1.78	0.66
35:BA:295:G:H2'	35:BA:296:C:H6	1.61	0.66
42:BH:124:GLU:HB2	42:BH:132:ARG:HG3	1.78	0.66
1:CA:584:G:H2'	1:CA:585:G:H8	1.59	0.66
1:AA:188:C:H2'	1:AA:189:G:H8	1.61	0.66
35:DA:229:A:H3'	35:DA:230:U:H5'	1.77	0.66
35:DA:606:U:O2	35:DA:606:U:H2'	1.96	0.66
42:DH:37:VAL:HG12	42:DH:38:SER:N	2.10	0.66
48:BP:13:ASN:O	48:BP:14:LYS:HB2	1.96	0.66
35:DA:1028:A:N6	35:DA:1125:G:H2'	2.11	0.66
35:DA:1865:G:H2'	35:DA:1866:C:H5''	1.76	0.66
41:BG:31:VAL:CG2	41:BG:32:PRO:HD2	2.26	0.65
4:CD:9:CYS:HA	4:CD:12:CYS:HB2	1.78	0.65
24:AY:9:LEU:C	24:AY:9:LEU:HD23	2.17	0.65
57:DY:81:LYS:HD3	57:DY:97:ARG:O	1.95	0.65
41:DG:48:GLU:OE1	41:DG:81:LYS:HE3	1.96	0.65
10:CJ:33:GLN:O	10:CJ:75:ILE:HG12	1.95	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:DK:19:PRO:CB	44:DK:34:ILE:HD12	2.23	0.65
31:B6:17:LYS:HB2	31:B6:44:ARG:HH12	1.60	0.65
35:BA:643:A:O2'	35:BA:644:A:H5'	1.96	0.65
31:D6:17:LYS:HB2	31:D6:44:ARG:HH12	1.61	0.65
35:BA:1814:G:C3'	35:BA:1815:A:H5''	2.25	0.65
35:BA:271(J):C:H2'	35:BA:271(J):C:O2	1.94	0.65
24:CY:388:THR:HG21	24:CY:399:LEU:CD1	2.25	0.65
1:CA:1250:A:H4'	9:CI:68:GLY:N	2.11	0.65
35:BA:803:U:O2'	35:BA:804:A:H5'	1.96	0.65
54:BV:19:LYS:CE	54:BV:20:LEU:H	2.09	0.65
58:DZ:137:ILE:CG2	58:DZ:155:LEU:HD12	2.26	0.65
35:BA:2186:G:H2'	35:BA:2187:G:H5''	1.78	0.65
49:BQ:55:VAL:CG1	49:BQ:56:ARG:N	2.59	0.65
46:BN:96:GLU:H	46:BN:96:GLU:CD	2.00	0.65
25:B0:40:GLN:HE22	25:B0:43:THR:HA	1.60	0.65
51:DS:30:ARG:HD3	51:DS:97:ARG:HG2	1.78	0.65
47:DO:104:ARG:HH21	52:DT:33:LYS:HE3	1.61	0.65
37:BC:134:PRO:C	37:BC:135:ARG:HD2	2.16	0.65
1:CA:625:G:H4'	16:CP:16:HIS:CD2	2.31	0.65
35:DA:2852:G:H2'	35:DA:2853:C:H6	1.60	0.65
1:CA:630:G:C2'	1:CA:631:G:H5''	2.26	0.65
35:BA:848:G:H5'	35:BA:849:A:OP2	1.97	0.65
35:BA:759:G:H2'	35:BA:760:G:H8	1.61	0.65
47:DO:35:VAL:HG11	47:DO:103:ALA:HB3	1.78	0.65
1:CA:1068:G:OP2	1:CA:1094:G:H5'	1.96	0.65
39:BE:101:ARG:NH1	39:BE:169:ASN:HD22	1.94	0.65
48:DP:122:PRO:HB3	48:DP:141:ALA:HB1	1.78	0.65
1:CA:943:U:H2'	1:CA:944:G:H5'	1.79	0.65
49:DQ:75:THR:HG22	49:DQ:76:LYS:N	2.11	0.65
49:DQ:76:LYS:HB3	49:DQ:91:GLU:HG3	1.78	0.65
4:AD:36:ARG:CB	4:AD:36:ARG:HH11	2.09	0.65
37:DC:4:HIS:ND1	37:DC:8:TYR:HE2	1.94	0.65
31:D6:10:LEU:H	31:D6:10:LEU:HD23	1.61	0.65
31:B6:38:LYS:HD3	35:BA:2344:U:OP1	1.96	0.65
1:CA:1321:C:H5''	1:CA:1322:C:C5'	2.26	0.65
46:DN:43:THR:O	46:DN:46:VAL:HG12	1.94	0.65
35:DA:1012:U:O4	46:DN:28:THR:HG21	1.96	0.65
35:BA:545:C:H3'	35:BA:547:A:H5''	1.79	0.65
55:BW:5:ALA:O	55:BW:6:ILE:HB	1.95	0.65
40:BF:160:ASN:HD21	40:BF:162:LEU:HB2	1.60	0.65
1:CA:1411:C:H2'	1:CA:1412:C:C6	2.31	0.65
16:CP:28:ARG:HG2	16:CP:29:ASP:OD2	1.96	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:284:U:H2'	35:DA:285:C:H6	1.61	0.65
55:DW:68:ARG:HA	55:DW:110:LYS:HG2	1.77	0.65
3:AC:136:GLN:HG3	3:AC:139:GLN:HB3	1.78	0.65
6:AF:19:LEU:HD23	6:AF:19:LEU:O	1.96	0.65
14:CN:12:ARG:O	14:CN:14:PRO:HD3	1.96	0.65
1:AA:490:G:H2'	1:AA:491:G:H8	1.60	0.65
4:AD:36:ARG:HB3	4:AD:36:ARG:HH11	1.61	0.65
1:CA:865:A:H5'	1:CA:1078:U:O4	1.96	0.65
35:BA:272(B):G:H2'	35:BA:272(C):G:H8	1.61	0.65
50:DR:18:LEU:HD21	50:DR:22:ARG:NE	2.10	0.65
24:AY:388:THR:HG21	24:AY:399:LEU:H	1.61	0.65
1:CA:1231:G:O2'	1:CA:1232:U:H5'	1.96	0.65
35:BA:2552:U:C2	35:BA:2554:U:H5'	2.31	0.65
41:BG:34:LEU:HA	41:BG:161:THR:HA	1.78	0.65
53:DU:92:ARG:HD3	53:DU:94:ASN:HB3	1.77	0.65
53:BU:92:ARG:HD3	53:BU:94:ASN:HB3	1.78	0.65
24:AY:424:LEU:O	24:AY:427:ALA:HB3	1.95	0.65
35:BA:301:G:H1'	35:BA:302:C:C6	2.30	0.65
51:BS:104:GLY:C	51:BS:106:ARG:H	2.00	0.65
35:DA:1080:C:O2'	35:DA:1081:U:H5'	1.97	0.65
44:BK:58:THR:O	44:BK:66:THR:HG22	1.96	0.65
35:BA:2893:G:H5'	35:BA:2894:G:H5'	1.78	0.65
2:AB:54:THR:O	2:AB:58:ILE:HG13	1.96	0.65
52:DT:30:VAL:HG21	52:DT:84:GLN:H	1.62	0.65
1:CA:697:U:C2'	1:CA:698:G:H5'	2.25	0.65
35:BA:796:C:H2'	35:BA:797:C:C6	2.31	0.65
24:CY:225:GLU:O	24:CY:228:MET:HB3	1.96	0.65
58:BZ:24:LEU:HD12	58:BZ:41:LEU:CD2	2.27	0.65
1:CA:664:G:H22	1:CA:741:G:H1	1.44	0.65
4:CD:152:SER:O	4:CD:154:ASN:N	2.29	0.65
1:CA:191:G:C4	20:CT:105:SER:HB3	2.31	0.65
36:DB:15:A:H3'	36:DB:16:G:C5'	2.25	0.65
35:BA:364:C:C2'	35:BA:365:C:H5''	2.25	0.65
26:D1:29:GLY:HA3	35:DA:2396:G:O2'	1.95	0.65
1:CA:490:G:H2'	1:CA:491:G:H8	1.61	0.65
35:DA:2039:C:H2'	35:DA:2040:C:H6	1.60	0.65
42:BH:124:GLU:CB	42:BH:132:ARG:HG3	2.26	0.65
1:AA:1248:A:C2'	1:AA:1249:C:H5'	2.27	0.65
47:BO:107:ARG:O	47:BO:112:MET:HE1	1.97	0.65
4:CD:121:VAL:O	4:CD:134:ASP:HA	1.96	0.65
5:AE:152:ARG:HB3	8:AH:43:GLY:HA3	1.78	0.65
24:AY:400:GLU:O	24:AY:402:ILE:HD12	1.96	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:66:G:H4'	1:AA:173:U:C5	2.32	0.65
35:BA:657:U:H2'	35:BA:658:C:C6	2.32	0.65
35:BA:2537:U:H2'	35:BA:2538:C:C6	2.31	0.65
58:BZ:130:PRO:O	58:BZ:133:ILE:HD11	1.96	0.65
13:AM:4:ILE:HG22	13:AM:5:ALA:N	2.11	0.65
24:CY:84:THR:HG22	24:CY:84:THR:O	1.96	0.65
53:BU:61:TRP:O	53:BU:65:ILE:HG13	1.96	0.65
48:BP:23:PRO:HB2	48:BP:33:ARG:CD	2.26	0.65
35:DA:2498:C:O2'	35:DA:2499:C:H5'	1.95	0.65
35:BA:637:A:H2'	48:BP:117:GLU:OE2	1.95	0.65
35:DA:143(A):C:H4'	56:DX:38:GLU:OE1	1.96	0.65
56:BX:35:THR:HB	56:BX:38:GLU:HB2	1.79	0.65
35:BA:803:U:C2'	35:BA:804:A:H5'	2.27	0.65
51:DS:97:ARG:HH21	51:DS:98:VAL:HA	1.62	0.65
58:BZ:24:LEU:HD12	58:BZ:41:LEU:HD21	1.78	0.65
58:DZ:101:PRO:O	58:DZ:102:LEU:HD23	1.96	0.65
7:CG:80:VAL:HG23	7:CG:81:GLY:N	2.12	0.65
1:AA:1305:G:N2	1:AA:1331:G:O2'	2.28	0.65
16:AP:60:LEU:HA	16:AP:64:ALA:HB3	1.78	0.65
23:CX:16:A:H2'	23:CX:17:U:C6	2.31	0.65
24:CY:448:GLN:OE1	24:CY:480:GLN:HG2	1.97	0.65
35:DA:2750:A:H2'	35:DA:2752:C:H41	1.61	0.65
43:DJ:21:UNK:CB	43:DJ:88:UNK:HA	2.26	0.65
35:DA:1812:A:H2'	35:DA:1813:G:H8	1.62	0.65
35:DA:1386:C:H2'	35:DA:1387:C:H6	1.62	0.65
35:BA:2347:C:H2'	35:BA:2348:U:C6	2.31	0.65
48:DP:6:LEU:HB3	48:DP:9:ASN:HD21	1.59	0.65
41:BG:90:LEU:HD12	41:BG:91:ARG:N	2.10	0.65
24:CY:25:LYS:HE2	24:CY:86:GLY:N	2.11	0.65
40:BF:4:VAL:HG22	40:BF:19:GLU:OE1	1.96	0.65
58:DZ:166:SER:HB2	58:DZ:168:GLU:H	1.59	0.65
31:B6:11:LEU:HD23	31:B6:51:GLU:HG3	1.77	0.65
1:CA:1220:G:H2'	1:CA:1221:G:H8	1.62	0.65
31:D6:27:LYS:HD2	31:D6:30:THR:HB	1.78	0.65
50:DR:87:TYR:C	50:DR:89:ASP:H	1.99	0.65
36:BB:48:A:H4'	51:BS:95:HIS:CD2	2.30	0.65
2:AB:168:THR:CG2	2:AB:192:SER:HB3	2.20	0.65
48:BP:95:VAL:HG23	48:BP:125:VAL:HG23	1.77	0.65
2:CB:77:ALA:HB2	2:CB:211:ILE:HD13	1.77	0.65
44:BK:21:PRO:HG3	44:BK:25:PRO:HD3	1.78	0.65
52:DT:88:ILE:HG22	52:DT:89:VAL:HG23	1.79	0.65
29:D4:12:ALA:CB	29:D4:29:PRO:HA	2.26	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BE:11:MET:CB	39:BE:24:THR:HA	2.27	0.65
24:AY:416:LYS:HD2	24:AY:417:THR:H	1.60	0.65
52:BT:80:SER:CB	52:BT:81:PRO:HD3	2.25	0.65
35:DA:2068:U:N3	35:DA:2430:A:C2	2.63	0.65
40:DF:65:TRP:CZ3	40:DF:75:HIS:HD2	2.15	0.65
14:AN:29:ARG:HG3	14:AN:29:ARG:HH11	1.62	0.65
24:CY:165:GLN:C	24:CY:166:LEU:HD12	2.17	0.65
48:BP:108:LYS:C	48:BP:110:TYR:H	1.98	0.65
35:DA:2396:G:O2'	35:DA:2397:G:H5'	1.96	0.65
35:DA:2408:U:H2'	35:DA:2409:G:C8	2.32	0.65
36:BB:30:C:OP2	51:BS:32:LEU:HD11	1.97	0.65
23:AX:11:U:O2	23:AX:11:U:H2'	1.97	0.65
24:CY:312:LEU:HD22	24:CY:313:ALA:O	1.96	0.65
43:BJ:26:UNK:HA	43:BJ:84:UNK:HA	1.78	0.65
24:CY:12:LEU:O	24:CY:283:PRO:HD3	1.96	0.65
24:CY:21:ILE:HG23	24:CY:86:GLY:O	1.96	0.65
35:BA:613:G:H5'	35:BA:613:G:H8	1.60	0.65
10:CJ:4:ILE:HB	10:CJ:74:ILE:CG1	2.26	0.65
35:DA:613:G:H8	35:DA:613:G:H5'	1.62	0.65
57:BY:8:LYS:HB2	57:BY:28:LYS:HZ1	1.62	0.65
48:DP:41:ARG:CA	48:DP:41:ARG:HH21	2.04	0.65
44:BK:4:VAL:HG12	44:BK:5:VAL:N	2.05	0.65
4:CD:129:ASN:HD21	4:CD:145:GLU:N	1.92	0.65
35:DA:1142(A):A:O2'	35:DA:1143:A:H2'	1.96	0.65
6:AF:68:PRO:HG2	6:AF:71:ARG:HB2	1.78	0.65
16:AP:28:ARG:HG2	16:AP:29:ASP:OD2	1.97	0.65
53:BU:107:ALA:HA	53:BU:110:VAL:HG23	1.79	0.65
16:CP:8:ARG:HB3	16:CP:28:ARG:NH1	2.10	0.65
24:CY:69:VAL:HA	24:CY:81:ILE:O	1.97	0.65
1:AA:1288:A:N1	1:AA:1371:G:H1'	2.10	0.65
1:AA:460:G:H5'	1:AA:461:A:OP2	1.96	0.65
50:DR:72:ASP:OD1	50:DR:75:LEU:HB2	1.96	0.65
1:CA:1346:A:H61	1:CA:1374:A:H3'	1.61	0.65
24:CY:400:GLU:O	24:CY:402:ILE:HD12	1.96	0.65
44:DK:14:ALA:HA	44:DK:41:PHE:CE2	2.31	0.65
37:BC:74:ARG:H	37:BC:112:ASP:HB2	1.60	0.65
24:AY:192:LEU:O	24:AY:192:LEU:HD13	1.96	0.65
4:AD:131:ARG:HD3	4:AD:131:ARG:H	1.61	0.65
35:BA:2497:A:OP2	35:BA:2497:A:H8	1.80	0.65
16:AP:43:LYS:HA	16:AP:48:TRP:HB3	1.77	0.65
26:D1:50:ARG:HG2	26:D1:57:GLU:OE2	1.97	0.65
40:BF:154:VAL:HG13	40:BF:191:ARG:O	1.96	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:BF:198:ALA:O	40:BF:201:VAL:HG12	1.96	0.65
35:BA:2346:A:C2	35:BA:2383:G:C2	2.85	0.65
3:AC:58:GLU:HB2	3:AC:65:ALA:HB2	1.78	0.65
1:CA:973:G:H3'	1:CA:974:A:H5''	1.79	0.65
30:B5:36:CYS:SG	30:B5:48:GLU:O	2.52	0.65
38:DD:267:SER:CA	38:DD:270:ILE:HD11	2.26	0.65
35:DA:195:A:H5''	35:DA:196:A:OP2	1.96	0.65
39:DE:113:PHE:CE2	39:DE:158:GLY:HA2	2.31	0.65
24:CY:5:VAL:HG13	24:CY:6:GLU:N	2.12	0.65
29:B4:56:VAL:O	29:B4:57:GLU:HB2	1.97	0.65
19:AS:64:GLU:HG2	29:B4:48:ARG:HH22	1.59	0.65
7:AG:80:VAL:HG23	7:AG:81:GLY:N	2.11	0.65
38:BD:186:HIS:HD2	38:BD:188:GLU:H	1.45	0.65
28:B3:36:VAL:O	28:B3:37:LEU:HD23	1.96	0.65
26:B1:23:LYS:HD3	26:B1:28:GLY:HA3	1.77	0.65
21:AU:23:PRO:C	21:AU:25:LYS:H	2.00	0.65
20:CT:82:SER:O	20:CT:86:ARG:HB2	1.96	0.65
35:DA:20:C:O2'	35:DA:21:A:H5'	1.97	0.65
35:DA:1917:U:O2'	35:DA:1918:A:H5'	1.97	0.65
13:CM:108:ARG:HA	13:CM:108:ARG:HH11	1.60	0.65
4:CD:16:GLY:HA2	4:CD:33:MET:HE1	1.78	0.65
24:AY:21:ILE:N	24:AY:21:ILE:HD13	2.11	0.65
35:DA:83:G:N2	35:DA:102:G:H2'	2.12	0.65
35:BA:84:A:H5'	57:BY:9:LYS:HB3	1.79	0.65
35:DA:666:G:H4'	48:DP:49:ARG:HH21	1.62	0.65
31:B6:15:GLU:CD	31:B6:44:ARG:NH1	2.50	0.65
31:B6:47:THR:HG23	31:B6:48:VAL:N	2.12	0.65
31:B6:48:VAL:CG2	31:B6:49:HIS:H	2.08	0.65
35:BA:139:G:C6	35:BA:140:G:H2'	2.32	0.65
44:DK:103:GLN:O	44:DK:106:GLU:HG2	1.97	0.65
35:DA:1819:A:H4'	35:DA:1820:U:H5'	1.78	0.65
35:BA:2632:A:N3	39:BE:61:ARG:NH1	2.45	0.65
24:AY:334:THR:HG21	24:AY:370:LYS:HG2	1.79	0.65
1:CA:737:A:H2'	1:CA:738:C:C6	2.32	0.65
2:CB:22:LYS:H	2:CB:40:HIS:HE1	1.43	0.65
1:CA:1513:A:H2'	1:CA:1514:C:C6	2.32	0.65
35:DA:1542:A:H5'	35:DA:1543:C:OP2	1.95	0.65
12:CL:28:LYS:HE2	12:CL:33:ARG:HH12	1.62	0.65
1:AA:183:G:H2'	1:AA:184:G:C8	2.31	0.65
35:DA:2196:C:O2'	35:DA:2197:U:H5'	1.97	0.65
36:BB:15:A:H3'	36:BB:16:G:C5'	2.25	0.65
1:AA:1328:C:H2'	1:AA:1329:A:C8	2.32	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1328:C:H2'	1:CA:1329:A:H8	1.61	0.65
36:DB:48:A:H2'	36:DB:49:C:H6	1.61	0.65
30:D5:20:ARG:HG2	30:D5:23:HIS:CD2	2.31	0.65
35:DA:2202:C:H2'	38:DD:151:LYS:NZ	2.11	0.65
1:CA:773:G:O2'	1:CA:774:G:H5'	1.97	0.65
24:AY:637:ARG:HH11	24:AY:637:ARG:HG3	1.61	0.65
35:BA:1329:U:H5'	35:BA:1330:C:H5	1.62	0.65
37:DC:48:LEU:HD12	37:DC:48:LEU:N	2.12	0.65
24:AY:21:ILE:CG2	24:AY:88:VAL:HG13	2.27	0.65
33:D8:13:ARG:HH12	48:DP:59:LEU:HG	1.60	0.65
41:DG:55:LYS:HA	41:DG:58:GLN:HG3	1.78	0.65
51:BS:89:ARG:HH11	51:BS:89:ARG:HG2	1.62	0.65
52:BT:24:PRO:HD3	52:BT:52:ILE:CD1	2.27	0.65
50:DR:45:ARG:HG3	50:DR:46:GLY:N	2.11	0.65
13:CM:90:LEU:O	13:CM:92:HIS:N	2.30	0.65
52:DT:82:LEU:HD12	52:DT:82:LEU:N	2.11	0.65
58:BZ:115:GLY:CA	58:BZ:177:PRO:HG3	2.26	0.65
52:BT:33:LYS:HE2	52:BT:43:GLN:OE1	1.97	0.65
35:BA:2462:U:H2'	35:BA:2463:C:H6	1.61	0.65
40:BF:132:VAL:HG22	40:BF:133:ASN:H	1.62	0.65
35:DA:1127:A:H2'	35:DA:1128:A:H5''	1.79	0.65
35:BA:1514:U:H2'	35:BA:1515:G:C8	2.32	0.65
16:CP:8:ARG:HB3	16:CP:28:ARG:HH12	1.62	0.65
35:DA:936:C:H2'	35:DA:937:U:C6	2.32	0.65
56:BX:70:LEU:HD23	56:BX:71:GLY:N	2.12	0.65
1:AA:270:A:H2'	1:AA:271:C:C6	2.32	0.65
35:DA:2241:A:H2'	35:DA:2242:G:H8	1.62	0.65
38:DD:148:GLU:HB2	38:DD:151:LYS:HG3	1.79	0.65
35:BA:1345:C:O2'	35:BA:1346:G:H5'	1.97	0.65
24:CY:496:LYS:HE2	24:CY:498:ILE:HD13	1.78	0.65
1:CA:1104:G:O5'	2:CB:111:ARG:HD2	1.96	0.65
13:AM:4:ILE:HG22	13:AM:5:ALA:H	1.62	0.65
53:BU:68:ALA:O	53:BU:71:GLN:HB3	1.96	0.65
35:DA:295:G:H2'	35:DA:296:C:H6	1.62	0.65
41:DG:40:ASN:HD22	41:DG:41:GLN:H	1.45	0.65
3:AC:105:GLU:HG2	3:AC:106:VAL:H	1.62	0.65
57:BY:88:LYS:O	57:BY:90:LEU:HD23	1.97	0.65
44:BK:19:PRO:CB	44:BK:34:ILE:HD12	2.23	0.65
35:DA:2345:G:C5'	35:DA:2346:A:H5'	2.27	0.65
8:CH:103:VAL:CG2	8:CH:110:ALA:HB2	2.27	0.65
1:CA:687:A:N6	1:CA:703:G:H1'	2.12	0.65
35:DA:2455:G:H2'	35:DA:2456:C:C6	2.31	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1012:U:C5	46:BN:28:THR:HG21	2.32	0.65
39:BE:11:MET:HB3	39:BE:24:THR:HA	1.79	0.65
35:DA:796:C:H2'	35:DA:797:C:C6	2.31	0.65
35:DA:1946:U:H2'	35:DA:1947:C:H6	1.60	0.65
11:AK:33:THR:HA	11:AK:40:ILE:HG12	1.79	0.65
1:CA:1288:A:N1	1:CA:1371:G:H1'	2.12	0.65
35:DA:2162:G:H2'	35:DA:2163:C:C6	2.32	0.65
26:D1:8:SER:HB3	26:D1:66:HIS:CD2	2.32	0.65
24:AY:530:VAL:HG22	24:AY:531:GLY:N	2.11	0.65
35:BA:564:C:O2'	35:BA:565:C:H5'	1.97	0.65
1:AA:1305:G:OP1	21:AU:2:GLY:N	2.30	0.65
35:BA:2832:U:H1'	35:BA:2834:G:N3	2.12	0.65
35:DA:2537:U:H2'	35:DA:2538:C:C6	2.32	0.65
35:BA:1183:G:O2'	35:BA:1184:G:H5'	1.96	0.65
35:DA:422:A:H2'	35:DA:423:A:C8	2.32	0.65
1:CA:715:A:H2'	1:CA:716:A:C8	2.32	0.65
35:BA:2855:C:H2'	35:BA:2856:C:H6	1.63	0.65
35:BA:2039:C:H2'	35:BA:2040:C:C6	2.32	0.65
1:AA:1211:U:H5'	1:AA:1212:U:OP1	1.97	0.65
35:DA:272(B):G:H2'	35:DA:272(C):G:H8	1.62	0.65
35:DA:1217:C:OP2	53:DU:15:LYS:NZ	2.23	0.65
1:AA:163:C:O2'	1:AA:164:U:H5'	1.97	0.65
41:BG:82:LEU:CD1	41:BG:87:PRO:HB3	2.28	0.64
4:CD:33:MET:O	4:CD:37:PRO:HG3	1.95	0.64
39:DE:131:ALA:CB	39:DE:134:ILE:HD11	2.14	0.64
24:AY:434:GLU:OE1	24:AY:465:ARG:NH2	2.30	0.64
22:AW:66:C:H4'	31:B6:28:ARG:HH22	1.61	0.64
35:DA:2312:U:O2'	41:DG:71:THR:HG21	1.98	0.64
19:CS:58:VAL:HG23	19:CS:58:VAL:O	1.97	0.64
24:CY:227:ILE:HD12	24:CY:245:ALA:HB2	1.78	0.64
31:D6:47:THR:HG23	31:D6:48:VAL:N	2.12	0.64
5:CE:72:GLN:HE22	5:CE:144:THR:HG22	1.62	0.64
11:AK:85:ARG:HG2	11:AK:111:ASP:O	1.97	0.64
26:B1:76:ARG:HH22	26:B1:95:LEU:HD13	1.62	0.64
2:AB:220:ASP:O	2:AB:223:ILE:HG13	1.98	0.64
35:BA:2815:C:H2'	35:BA:2816:C:C6	2.32	0.64
35:BA:1657:C:O2'	35:BA:1658:C:H5'	1.97	0.64
1:CA:942:G:H21	9:CI:124:GLN:HE22	1.43	0.64
35:BA:1052:C:H2'	35:BA:1053:C:C6	2.31	0.64
35:DA:1514:U:H2'	35:DA:1515:G:C8	2.32	0.64
35:BA:284:U:H2'	35:BA:285:C:H6	1.63	0.64
18:AR:31:LEU:H	18:AR:31:LEU:CD2	2.10	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:628:ARG:NH1	24:AY:680:PRO:HG2	2.12	0.64
56:DX:41:ASN:C	56:DX:43:VAL:H	2.00	0.64
35:BA:1029:A:H5''	49:BQ:128:LYS:HE3	1.79	0.64
35:DA:221:A:H61	35:DA:265:A:H8	1.43	0.64
35:DA:419:C:H2'	35:DA:420:C:C6	2.32	0.64
51:BS:19:LYS:HB3	51:BS:20:ARG:HH22	1.60	0.64
11:AK:48:ILE:HG22	11:AK:49:GLY:H	1.61	0.64
24:AY:342:TYR:CE2	24:AY:396:ARG:HD2	2.31	0.64
35:DA:2347:C:H2'	35:DA:2348:U:C6	2.31	0.64
56:BX:30:VAL:HG22	56:BX:77:LYS:O	1.97	0.64
49:BQ:97:VAL:HG11	49:BQ:103:MET:CE	2.26	0.64
22:CV:59:A:H2'	22:CV:60:U:H5'	1.79	0.64
41:BG:68:PRO:CB	41:BG:90:LEU:HD11	2.26	0.64
4:CD:30:LYS:O	4:CD:32:ALA:N	2.30	0.64
22:AV:17:C:C6	22:AV:17(A):U:H5	2.15	0.64
35:DA:272(H):C:H2'	35:DA:272(I):U:C5'	2.28	0.64
40:DF:123:LEU:HD12	40:DF:124:LEU:N	2.12	0.64
33:D8:50:LEU:HD12	33:D8:51:ALA:N	2.12	0.64
33:D8:50:LEU:CD1	33:D8:51:ALA:H	2.08	0.64
36:BB:48:A:H2'	36:BB:49:C:H6	1.61	0.64
36:BB:50:G:OP1	51:BS:63:THR:HG23	1.97	0.64
5:CE:78:HIS:O	5:CE:93:PRO:HD3	1.97	0.64
38:BD:43:ARG:HB3	38:BD:54:ARG:HB2	1.79	0.64
46:DN:46:VAL:O	46:DN:47:ALA:CB	2.44	0.64
35:DA:2632:A:N3	39:DE:61:ARG:NH1	2.46	0.64
35:DA:2205:C:H5'	35:DA:2206:G:OP2	1.98	0.64
35:DA:2591:C:H2'	35:DA:2592:G:H8	1.62	0.64
38:BD:267:SER:O	38:BD:269:PHE:N	2.29	0.64
35:DA:2762:G:H5'	35:DA:2762:G:C8	2.32	0.64
49:BQ:56:ARG:HA	49:BQ:56:ARG:HE	1.62	0.64
46:DN:67:LEU:HB3	46:DN:88:GLU:CG	2.28	0.64
52:BT:55:ASN:H	52:BT:59:THR:CG2	2.10	0.64
20:AT:43:LEU:O	20:AT:46:GLU:N	2.30	0.64
1:AA:999:C:H2'	1:AA:1000:U:C5	2.32	0.64
1:AA:1310:G:O2'	1:AA:1311:G:H5'	1.97	0.64
14:CN:16:PHE:N	14:CN:16:PHE:CD1	2.61	0.64
38:BD:39:LYS:NZ	38:BD:87:ASN:HB3	2.13	0.64
1:CA:1248:A:C2'	1:CA:1249:C:H5'	2.26	0.64
35:BA:267:C:H2'	35:BA:268:C:H6	1.63	0.64
16:CP:43:LYS:HA	16:CP:48:TRP:HB3	1.78	0.64
3:AC:178:LEU:O	3:AC:180:ALA:N	2.30	0.64
55:DW:107:LEU:H	55:DW:107:LEU:HD22	1.62	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
49:BQ:75:THR:HG22	49:BQ:76:LYS:N	2.11	0.64
21:CU:23:PRO:C	21:CU:25:LYS:H	2.00	0.64
37:BC:176:VAL:HG21	37:BC:190:ILE:CD1	2.27	0.64
38:DD:232:PRO:HD2	38:DD:249:PRO:HA	1.80	0.64
41:DG:152:LEU:H	41:DG:152:LEU:HD23	1.63	0.64
58:DZ:70:LEU:HG	58:DZ:91:LEU:HD11	1.79	0.64
55:BW:64:MET:O	55:BW:65:LEU:HB3	1.96	0.64
4:CD:13:ARG:HA	4:CD:33:MET:CE	2.27	0.64
35:DA:2472:G:H3'	35:DA:2475:C:H42	1.63	0.64
35:BA:195:A:H5''	35:BA:196:A:OP2	1.98	0.64
35:BA:666:G:H4'	48:BP:49:ARG:HH21	1.59	0.64
35:DA:301:G:H1'	35:DA:302:C:C6	2.32	0.64
57:BY:97:ARG:HG3	57:BY:97:ARG:HH11	1.62	0.64
1:AA:1218:C:H2'	1:AA:1219:U:C6	2.33	0.64
1:AA:1319:A:OP1	19:AS:10:PHE:CE1	2.50	0.64
35:DA:2168:G:N2	35:DA:2170:A:H3'	2.12	0.64
31:D6:48:VAL:CG2	31:D6:49:HIS:H	2.09	0.64
35:DA:2344:U:O2'	35:DA:2345:G:H5''	1.97	0.64
50:BR:87:TYR:C	50:BR:89:ASP:H	1.99	0.64
35:BA:580:C:H2'	35:BA:581:C:C6	2.31	0.64
1:AA:1525:G:H2'	1:AA:1526:G:H8	1.61	0.64
51:DS:97:ARG:HE	51:DS:97:ARG:C	2.01	0.64
52:DT:80:SER:CB	52:DT:81:PRO:HD3	2.26	0.64
36:BB:115:G:O4'	51:BS:47:THR:HB	1.98	0.64
12:CL:27:LEU:HD21	12:CL:64:TYR:CE1	2.32	0.64
42:BH:156:ALA:O	42:BH:158:HIS:N	2.30	0.64
49:DQ:29:PHE:HB2	49:DQ:105:GLU:OE2	1.97	0.64
1:CA:382:A:H2'	1:CA:383:A:H8	1.61	0.64
11:CK:48:ILE:HD13	11:CK:48:ILE:N	2.12	0.64
1:CA:1334:G:H5'	1:CA:1335:C:OP2	1.98	0.64
32:D7:46:VAL:HG12	32:D7:47:ARG:N	2.12	0.64
35:BA:2329:G:H2'	35:BA:2330:G:C8	2.31	0.64
41:BG:42:GLY:HA2	41:BG:89:GLY:HA2	1.79	0.64
35:BA:83:G:N2	35:BA:102:G:H2'	2.13	0.64
30:B5:4:HIS:HB3	30:B5:5:PRO:CD	2.27	0.64
48:DP:41:ARG:NH2	48:DP:41:ARG:HA	2.06	0.64
31:D6:16:CYS:SG	31:D6:48:VAL:CG2	2.85	0.64
5:CE:144:THR:O	5:CE:148:VAL:HG23	1.97	0.64
24:AY:276:VAL:CA	24:AY:280:LEU:HD23	2.24	0.64
3:AC:52:LEU:CD2	3:AC:52:LEU:H	2.09	0.64
35:DA:2573:C:H2'	35:DA:2573:C:O2	1.96	0.64
35:DA:629:G:H5''	35:DA:650:C:O2'	1.96	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
53:DU:20:LEU:N	53:DU:20:LEU:HD22	2.10	0.64
2:CB:80:ILE:H	2:CB:80:ILE:HD12	1.61	0.64
34:B9:17:ILE:HG21	34:B9:19:ARG:HH21	1.61	0.64
35:BA:2205:C:H5'	35:BA:2206:G:OP2	1.97	0.64
35:DA:1012:U:C5	46:DN:28:THR:HG21	2.32	0.64
58:DZ:153:SER:HB2	58:DZ:163:LEU:HD13	1.79	0.64
41:BG:76:SER:HB3	41:BG:83:ARG:HB3	1.78	0.64
57:BY:27:VAL:HG12	57:BY:29:GLU:H	1.59	0.64
38:DD:130:ALA:C	38:DD:131:LEU:HD12	2.17	0.64
36:BB:65:C:H41	36:BB:109:C:H2'	1.61	0.64
2:CB:14:GLY:O	2:CB:15:VAL:HG13	1.98	0.64
39:DE:199:ARG:HB3	39:DE:200:GLU:OE2	1.98	0.64
39:DE:4:ILE:CD1	39:DE:28:ALA:HB1	2.27	0.64
37:BC:29:LEU:HD23	37:BC:29:LEU:C	2.17	0.64
24:AY:343:ASN:ND2	24:AY:345:THR:H	1.95	0.64
44:DK:78:ILE:HD11	44:DK:136:VAL:HG11	1.79	0.64
35:BA:1380:G:O2'	35:BA:1381:G:H5'	1.98	0.64
35:BA:2172:U:H1'	35:BA:2173:A:OP1	1.97	0.64
42:BH:92:ILE:O	42:BH:94:TYR:N	2.28	0.64
38:DD:76:PRO:O	38:DD:98:VAL:HG23	1.97	0.64
39:DE:7:VAL:HG12	39:DE:27:LEU:HB3	1.80	0.64
35:BA:2408:U:H2'	35:BA:2409:G:C8	2.32	0.64
4:CD:102:ASP:HB3	4:CD:136:PRO:HB3	1.79	0.64
23:CX:15:A:H5'	23:CX:16:A:OP1	1.98	0.64
49:BQ:76:LYS:HB3	49:BQ:91:GLU:HG3	1.79	0.64
1:AA:666:G:H5'	1:AA:726:C:H1'	1.79	0.64
35:DA:723:G:H2'	35:DA:724:U:C6	2.32	0.64
5:CE:20:GLN:O	5:CE:21:ALA:C	2.36	0.64
24:CY:612:THR:C	24:CY:640:ALA:HB1	2.17	0.64
1:AA:20:U:H2'	1:AA:21:G:O4'	1.97	0.64
40:DF:25:PRO:HG3	40:DF:119:ARG:HB2	1.79	0.64
29:B4:5:ILE:O	29:B4:5:ILE:HG12	1.96	0.64
35:BA:2392:A:C8	48:BP:60:MET:HB3	2.31	0.64
58:DZ:40:ASP:OD1	58:DZ:42:VAL:HG12	1.96	0.64
58:DZ:10:ARG:HB3	58:DZ:36:LYS:HB2	1.80	0.64
35:BA:272(H):C:H2'	35:BA:272(I):U:C5'	2.27	0.64
31:D6:6:ARG:HD2	31:D6:6:ARG:H	1.62	0.64
33:D8:25:MET:HG3	48:DP:64:LYS:HB2	1.79	0.64
41:DG:111:LEU:HD23	41:DG:114:ILE:HD11	1.79	0.64
35:DA:2228:G:H2'	35:DA:2229:C:C6	2.33	0.64
48:DP:115:LEU:HD23	48:DP:115:LEU:N	2.13	0.64
35:DA:1814:G:C3'	35:DA:1815:A:H5''	2.27	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
47:BO:18:LYS:HB2	47:BO:45:GLU:HG2	1.80	0.64
13:AM:90:LEU:O	13:AM:92:HIS:N	2.31	0.64
5:AE:7:GLU:HG2	5:AE:112:LEU:CD2	2.28	0.64
30:D5:36:CYS:SG	30:D5:48:GLU:O	2.55	0.64
24:AY:485:GLU:HB2	24:AY:560:VAL:HG22	1.80	0.64
58:BZ:115:GLY:N	58:BZ:177:PRO:CG	2.60	0.64
35:DA:1223:G:H5'	35:DA:1224:C:OP2	1.98	0.64
1:AA:1284:C:H3'	1:AA:1285:A:C5'	2.27	0.64
11:CK:33:THR:HA	11:CK:40:ILE:HG12	1.80	0.64
9:CI:8:GLY:HA2	9:CI:79:LEU:HD12	1.78	0.64
58:BZ:41:LEU:O	58:BZ:44:PHE:N	2.30	0.64
12:CL:28:LYS:HE2	12:CL:33:ARG:NH1	2.13	0.64
1:CA:194:C:C2'	1:CA:195:A:H5''	2.27	0.64
16:CP:14:ASN:N	16:CP:15:PRO:HD3	2.13	0.64
20:CT:50:GLU:HB3	20:CT:99:LEU:HB2	1.80	0.64
1:AA:1068:G:OP2	1:AA:1094:G:H5'	1.97	0.64
35:BA:2348:U:C2'	35:BA:2349:G:H5''	2.27	0.64
24:CY:539:ILE:HA	24:CY:542:VAL:HG12	1.79	0.64
35:BA:1812:A:H2'	35:BA:1813:G:H8	1.62	0.64
57:DY:51:VAL:C	57:DY:53:PRO:HD2	2.17	0.64
35:BA:1231:G:H2'	35:BA:1232:G:H8	1.62	0.64
24:CY:198:GLU:HG3	24:CY:198:GLU:O	1.97	0.64
29:B4:42:PHE:N	29:B4:42:PHE:CD1	2.65	0.64
19:AS:24:ALA:O	19:AS:25:LYS:HB2	1.98	0.64
29:B4:2:LYS:HG2	36:BB:44:G:OP2	1.98	0.64
24:AY:20:HIS:HB2	24:AY:87:HIS:HD2	1.61	0.64
1:AA:980:C:C5	1:AA:981:U:C2	2.84	0.64
3:CC:105:GLU:HG2	3:CC:106:VAL:H	1.62	0.64
31:B6:43:CYS:O	31:B6:44:ARG:HB2	1.97	0.64
51:BS:97:ARG:HH21	51:BS:98:VAL:HA	1.62	0.64
35:BA:2523:G:H2'	35:BA:2524:G:C5'	2.24	0.64
1:AA:1489:G:C3'	1:AA:1490:C:H5''	2.27	0.64
20:AT:13:LEU:HD12	20:AT:13:LEU:N	2.10	0.64
35:DA:1012:U:H3	46:DN:25:ARG:HE	1.46	0.64
52:BT:24:PRO:HD3	52:BT:52:ILE:HD11	1.79	0.64
36:BB:92:C:H2'	36:BB:93:G:H8	1.62	0.64
44:BK:93:ARG:HB2	58:BZ:112:ARG:NH2	2.12	0.64
35:BA:392:C:H5''	35:BA:409:C:H5''	1.80	0.64
4:AD:88:VAL:O	4:AD:92:VAL:HG23	1.98	0.64
26:D1:8:SER:HB3	26:D1:66:HIS:NE2	2.13	0.64
18:CR:31:LEU:H	18:CR:31:LEU:CD2	2.10	0.64
28:D3:15:TYR:HB3	28:D3:19:GLN:NE2	2.13	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:AV:6:G:H1	22:AV:67:C:H42	1.44	0.64
3:CC:136:GLN:HG3	3:CC:139:GLN:HB3	1.79	0.64
51:BS:59:LYS:HD2	51:BS:61:ASN:HB2	1.79	0.64
1:CA:41:G:H2'	1:CA:42:G:C8	2.33	0.64
29:D4:42:PHE:CD1	29:D4:42:PHE:N	2.66	0.64
35:BA:1362:C:O2'	35:BA:1363:C:H5'	1.98	0.64
1:AA:477:A:O2'	1:AA:479:C:H5'	1.98	0.64
4:AD:121:VAL:O	4:AD:134:ASP:HA	1.97	0.64
35:DA:272(J):C:C3'	35:DA:274:G:H5''	2.25	0.64
40:DF:4:VAL:HG22	40:DF:19:GLU:OE1	1.97	0.64
31:D6:5:VAL:CG2	35:DA:2283:C:H5'	2.22	0.64
41:DG:40:ASN:HD22	41:DG:41:GLN:N	1.94	0.64
35:DA:1902:C:H4'	38:DD:244:ARG:HB2	1.79	0.64
35:DA:1038:C:C3'	35:DA:1039:G:H5''	2.26	0.64
40:DF:78:ILE:HA	40:DF:83:PHE:CD1	2.33	0.64
46:DN:58:ASP:OD2	46:DN:59:LYS:HG2	1.96	0.64
35:BA:2442:C:H2'	35:BA:2443:C:H6	1.63	0.64
35:DA:2186:G:C2'	35:DA:2187:G:H5''	2.27	0.64
38:DD:158:ALA:HB3	38:DD:161:THR:CG2	2.25	0.64
36:DB:65:C:H41	36:DB:109:C:H2'	1.61	0.64
50:DR:117:VAL:HG12	50:DR:118:GLU:N	2.12	0.64
52:DT:132:LYS:HD3	52:DT:132:LYS:N	2.13	0.64
47:BO:104:ARG:HH21	52:BT:33:LYS:CE	2.11	0.64
58:BZ:109:ALA:C	58:BZ:111:VAL:H	1.98	0.64
47:BO:24:VAL:CG2	47:BO:30:ALA:HB3	2.27	0.64
1:AA:559:A:H4'	1:AA:560:U:C5'	2.27	0.64
35:BA:1053:C:H3'	35:BA:1054:A:H5''	1.79	0.64
35:DA:781:A:C8	38:DD:219:PRO:HG3	2.33	0.64
35:BA:1036:G:OP1	42:BH:59:ARG:HD2	1.96	0.64
44:DK:41:PHE:CE1	44:DK:45:THR:HG21	2.32	0.64
19:AS:40:ILE:HG21	19:AS:66:MET:O	1.97	0.64
35:DA:1438:U:O2'	35:DA:1439:A:H5'	1.97	0.64
35:DA:2815:C:H2'	35:DA:2816:C:C6	2.32	0.64
1:AA:72:C:H2'	1:AA:73:G:H8	1.63	0.64
5:AE:6:PHE:HB3	5:AE:35:GLY:O	1.98	0.64
24:CY:438:PHE:HD2	24:CY:438:PHE:C	2.01	0.64
41:BG:34:LEU:HB2	41:BG:99:MET:HE1	1.79	0.64
4:AD:16:GLY:HA2	4:AD:33:MET:CE	2.28	0.64
61:CY:702:FUA:C23	61:CY:702:FUA:H122	2.28	0.64
40:BF:123:LEU:HD13	40:BF:192:LEU:HD22	1.79	0.64
48:BP:6:LEU:HB3	48:BP:9:ASN:HD21	1.61	0.64
46:DN:3:THR:HG22	46:DN:4:TYR:N	2.11	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:322:A:OP2	40:DF:169:ASN:HB2	1.98	0.64
57:DY:95:LYS:HD3	57:DY:100:ALA:HB1	1.79	0.64
40:DF:198:ALA:O	40:DF:201:VAL:HG12	1.97	0.64
27:D2:33:MET:SD	56:DX:5:TYR:HD2	2.21	0.64
1:AA:1320:C:OP1	19:AS:70:LYS:NZ	2.31	0.64
1:CA:1006:C:H2'	1:CA:1007:C:C6	2.32	0.64
40:DF:16:GLY:O	40:DF:17:ARG:HG3	1.98	0.64
51:BS:66:ALA:O	51:BS:99:LYS:HA	1.98	0.64
31:D6:43:CYS:O	31:D6:44:ARG:HB2	1.97	0.64
31:D6:45:LYS:HG2	35:DA:2371:G:H4'	1.80	0.64
35:BA:814:C:H2'	35:BA:815:C:C6	2.31	0.64
52:BT:88:ILE:HG22	52:BT:89:VAL:HG23	1.79	0.64
38:DD:24:ILE:HD13	38:DD:25:THR:N	2.11	0.64
39:BE:4:ILE:CD1	39:BE:28:ALA:HB1	2.27	0.64
35:BA:1514:U:H2'	35:BA:1515:G:H8	1.63	0.64
38:BD:117:VAL:HG23	38:BD:129:ASN:HA	1.79	0.64
24:CY:104:ALA:O	24:CY:132:ARG:HB2	1.98	0.64
20:CT:43:LEU:HB3	20:CT:48:LYS:HB2	1.80	0.64
25:D0:26:TYR:HE2	35:DA:857:C:H1'	1.63	0.64
1:CA:60:A:H5''	1:CA:331:G:N2	2.13	0.64
35:BA:145:G:H2'	35:BA:146:G:H8	1.63	0.64
24:AY:534:ILE:HD12	24:AY:567:LEU:HD11	1.80	0.64
1:AA:346:G:OP2	52:BT:41:ARG:NH2	2.31	0.64
35:BA:1718:G:H8	35:BA:1718:G:H5'	1.62	0.64
2:AB:140:HIS:O	2:AB:143:GLU:HB2	1.96	0.64
1:CA:188:C:H2'	1:CA:189:G:H8	1.62	0.64
13:CM:10:PRO:CB	13:CM:18:ALA:HB1	2.27	0.64
1:CA:54:C:H2'	1:CA:352:C:H41	1.63	0.64
35:DA:2497:A:OP2	35:DA:2497:A:H8	1.80	0.64
27:B2:64:LEU:HD22	27:B2:64:LEU:O	1.98	0.64
12:CL:69:TYR:O	12:CL:71:PRO:HD3	1.98	0.64
16:AP:50:LYS:HG2	16:AP:51:VAL:N	2.12	0.64
40:DF:32:LEU:C	40:DF:32:LEU:HD23	2.17	0.64
41:BG:98:ARG:N	41:BG:98:ARG:HH11	1.95	0.64
24:CY:519:ARG:HD3	24:CY:676:TYR:O	1.98	0.64
24:CY:90:PHE:HE2	61:CY:702:FUA:H9	1.62	0.64
24:AY:9:LEU:CD2	24:AY:284:LEU:HB2	2.25	0.64
61:AY:702:FUA:C20	61:AY:702:FUA:H5	2.12	0.64
57:DY:74:PRO:O	57:DY:80:GLY:HA2	1.97	0.64
24:CY:137:ASN:O	24:CY:262:SER:HA	1.97	0.64
5:CE:101:ILE:HD13	5:CE:118:ILE:O	1.98	0.64
46:DN:134:ARG:O	46:DN:136:GLU:N	2.31	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:BK:6:ALA:O	44:BK:58:THR:HG23	1.97	0.64
44:BK:77:LEU:N	44:BK:77:LEU:HD23	2.11	0.64
52:DT:83:ILE:HG13	52:DT:84:GLN:H	1.62	0.64
49:BQ:56:ARG:HA	49:BQ:56:ARG:NE	2.13	0.64
52:BT:132:LYS:N	52:BT:132:LYS:HD3	2.12	0.64
35:BA:1538:G:H2'	35:BA:1539:G:H8	1.60	0.64
24:CY:226:ASN:C	24:CY:228:MET:H	2.02	0.64
40:DF:132:VAL:HG22	40:DF:133:ASN:H	1.62	0.64
35:DA:2442:C:H2'	35:DA:2443:C:H6	1.63	0.64
24:CY:289:ILE:HG22	24:CY:290:LYS:H	1.62	0.64
42:BH:137:ASP:HB3	42:BH:140:LYS:HB2	1.78	0.64
37:BC:28:ARG:NH1	37:BC:183:PRO:HB2	2.12	0.64
1:AA:176:C:H2'	1:AA:177:C:C6	2.32	0.64
35:DA:848:G:O6	35:DA:928:G:H2'	1.98	0.64
49:BQ:108:GLY:HA3	58:BZ:116:VAL:HG11	1.80	0.64
28:B3:15:TYR:HB3	28:B3:19:GLN:NE2	2.13	0.64
57:BY:51:VAL:HG12	57:BY:53:PRO:HD2	1.80	0.64
35:BA:2750:A:H2'	35:BA:2752:C:H41	1.62	0.64
28:D3:59:VAL:HG12	28:D3:60:GLU:N	2.13	0.64
35:DA:2735:G:H2'	35:DA:2736:G:H8	1.63	0.64
1:CA:633:G:H5'	1:CA:634:C:OP2	1.98	0.64
38:BD:10:THR:HG23	38:BD:13:ARG:HB3	1.79	0.64
35:DA:267:C:H2'	35:DA:268:C:H6	1.63	0.64
35:BA:2248:C:C2'	35:BA:2249:U:H5'	2.28	0.64
35:BA:1237:A:O2'	35:BA:1238:G:O4'	2.16	0.64
4:CD:36:ARG:HH11	4:CD:36:ARG:CB	2.10	0.64
35:DA:1943:U:H2'	35:DA:1943:U:O2	1.98	0.64
35:DA:1036:G:OP1	42:DH:59:ARG:HD2	1.98	0.64
42:BH:169:VAL:HG22	42:BH:170:ARG:N	2.12	0.64
41:BG:180:PHE:O	41:BG:182:LYS:N	2.31	0.64
24:CY:678:GLU:HG2	24:CY:679:VAL:H	1.62	0.64
35:DA:1656:C:H2'	35:DA:1657:C:H6	1.61	0.64
10:CJ:34:VAL:CG2	10:CJ:74:ILE:HG22	2.24	0.64
54:BV:38:LEU:HD23	54:BV:39:LEU:N	2.12	0.64
33:B8:32:LEU:HB3	33:B8:36:LYS:HZ2	1.63	0.64
58:DZ:65:GLN:HB3	58:DZ:67:LEU:CD1	2.28	0.64
40:DF:123:LEU:HD13	40:DF:192:LEU:HD22	1.78	0.64
13:CM:27:LYS:HE2	13:CM:31:LYS:CE	2.23	0.64
35:DA:965:C:H5'	35:DA:2273:A:C1'	2.23	0.64
47:DO:107:ARG:O	47:DO:112:MET:HE1	1.98	0.64
31:B6:37:ARG:HH22	35:BA:2286:A:H62	1.45	0.64
53:BU:19:LYS:HB3	53:BU:20:LEU:HD22	1.80	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:DK:112:MET:HG3	44:DK:113:PRO:HD3	1.80	0.64
26:B1:90:ILE:HG22	26:B1:94:LEU:CD1	2.28	0.64
26:B1:76:ARG:HH22	26:B1:95:LEU:HD22	1.63	0.64
26:B1:41:ARG:HH22	35:BA:1365:A:H5'	1.61	0.64
52:DT:1:MET:N	52:DT:7:ILE:HD11	2.13	0.64
42:BH:156:ALA:O	42:BH:158:HIS:CD2	2.50	0.64
4:AD:152:SER:O	4:AD:154:ASN:N	2.30	0.64
24:CY:117:GLN:HE22	24:CY:120:THR:HG23	1.63	0.64
35:DA:654(R):C:HO2'	35:DA:654(S):G:H8	1.45	0.64
1:AA:1132:C:O2'	1:AA:1133:G:H5'	1.97	0.64
14:CN:29:ARG:HG3	14:CN:29:ARG:HH11	1.63	0.64
6:AF:16:GLN:HA	6:AF:19:LEU:HB3	1.80	0.64
46:BN:55:VAL:HG21	46:BN:127:ASP:N	2.13	0.64
1:CA:1348:U:H4'	9:CI:120:ARG:HG3	1.80	0.64
37:DC:57:GLN:HE21	37:DC:205:ALA:HA	1.63	0.64
1:CA:718:G:C8	11:CK:116:HIS:HB3	2.33	0.64
35:BA:1386:C:H2'	35:BA:1387:C:H6	1.63	0.64
49:DQ:87:LYS:HG2	49:DQ:88:GLY:H	1.60	0.64
10:AJ:23:ILE:HG22	10:AJ:23:ILE:O	1.98	0.64
16:CP:18:ARG:HD3	16:CP:35:LYS:HD2	1.80	0.64
50:BR:18:LEU:HD21	50:BR:22:ARG:NE	2.12	0.64
35:DA:1245:G:H5''	40:DF:34:TRP:HZ2	1.63	0.63
22:AW:8:U:H3	22:AW:14:A:N6	1.95	0.63
53:BU:83:LEU:HD12	53:BU:83:LEU:H	1.63	0.63
27:B2:63:VAL:HA	27:B2:66:GLU:HG2	1.80	0.63
35:DA:643:A:O2'	35:DA:644:A:H5'	1.97	0.63
39:BE:117:MET:O	39:BE:117:MET:HG2	1.97	0.63
25:D0:16:SER:HB2	35:DA:2262:U:C5	2.33	0.63
35:BA:1142(A):A:O2'	35:BA:1143:A:H2'	1.98	0.63
22:CW:7:G:H3'	22:CW:8:U:C5'	2.28	0.63
41:BG:76:SER:CA	41:BG:83:ARG:HB3	2.28	0.63
35:BA:2186:G:C2'	35:BA:2187:G:H5''	2.28	0.63
49:DQ:137:TYR:OH	58:DZ:81:ARG:HD3	1.99	0.63
24:CY:512:ILE:H	24:CY:512:ILE:HD13	1.63	0.63
38:DD:147:LEU:HD13	38:DD:155:LEU:CD1	2.26	0.63
35:BA:1435:G:H5'	35:BA:1436:G:OP2	1.97	0.63
35:DA:392:C:H5''	35:DA:409:C:H5''	1.79	0.63
49:DQ:24:GLY:O	49:DQ:102:VAL:HG23	1.98	0.63
38:BD:129:ASN:O	38:BD:193:VAL:HG12	1.98	0.63
55:BW:107:LEU:H	55:BW:107:LEU:HD22	1.63	0.63
35:DA:1775:U:H2'	35:DA:1776:G:C5'	2.28	0.63
35:DA:2832:U:H1'	35:DA:2834:G:C2	2.33	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
51:DS:59:LYS:HD2	51:DS:61:ASN:HB2	1.80	0.63
7:CG:7:ALA:O	7:CG:8:GLU:HB2	1.98	0.63
4:CD:36:ARG:HH11	4:CD:36:ARG:HB3	1.61	0.63
35:BA:1278:A:H5''	50:BR:36:THR:HG22	1.79	0.63
1:CA:992:U:H1'	1:CA:993:G:C2	2.33	0.63
1:CA:163:C:O2'	1:CA:164:U:H5'	1.97	0.63
35:BA:35:G:O2'	35:BA:36:G:H5'	1.98	0.63
37:DC:213:VAL:HG12	37:DC:225:ILE:HD11	1.80	0.63
51:DS:64:GLU:CD	51:DS:64:GLU:H	2.02	0.63
35:BA:2639:A:H2'	35:BA:2640:G:O4'	1.97	0.63
42:DH:156:ALA:O	42:DH:158:HIS:N	2.31	0.63
4:AD:30:LYS:O	4:AD:32:ALA:N	2.31	0.63
35:DA:1747(A):G:O2'	35:DA:1748:G:H5''	1.97	0.63
56:DX:12:VAL:CB	56:DX:17:ALA:HB1	2.11	0.63
38:BD:35:LYS:HG2	38:BD:63:ARG:CA	2.25	0.63
24:CY:148:LEU:HD13	24:CY:151:ARG:HH11	1.63	0.63
31:B6:19:ARG:O	31:B6:20:ASN:O	2.14	0.63
35:DA:240:G:C3'	35:DA:241:A:H5''	2.25	0.63
26:B1:82:LEU:HD23	26:B1:90:ILE:HG23	1.81	0.63
40:BF:78:ILE:HA	40:BF:83:PHE:CD1	2.32	0.63
1:AA:254:G:OP1	17:AQ:67:LYS:O	2.16	0.63
39:BE:36:ARG:NH1	39:BE:36:ARG:HG2	2.12	0.63
54:DV:18:LEU:HD13	54:DV:19:LYS:H	1.61	0.63
35:BA:1948:G:H8	35:BA:1948:G:H5'	1.63	0.63
1:AA:737:A:H2'	1:AA:738:C:C6	2.33	0.63
35:DA:2795:G:H21	35:DA:2796:U:H5	1.47	0.63
35:DA:2018:G:H21	53:DU:34:LYS:NZ	1.96	0.63
1:AA:301:G:O2'	1:AA:302:G:H5'	1.98	0.63
40:DF:160:ASN:HD21	40:DF:162:LEU:HB2	1.63	0.63
24:CY:193:GLY:HA3	24:CY:266:ASN:CB	2.27	0.63
35:DA:365:C:C6	35:DA:365:C:H5'	2.33	0.63
44:DK:17:ALA:HB3	44:DK:38:VAL:HG13	1.80	0.63
1:AA:382:A:H2'	1:AA:383:A:H8	1.61	0.63
35:DA:1029:A:H5''	49:DQ:128:LYS:HE3	1.81	0.63
56:BX:41:ASN:C	56:BX:43:VAL:H	2.01	0.63
1:CA:1281:U:H5''	1:CA:1282:C:H5	1.64	0.63
47:BO:3:GLN:HB2	47:BO:4:PRO:HD2	1.81	0.63
1:CA:477:A:O2'	1:CA:479:C:H5'	1.97	0.63
26:B1:7:ILE:HG22	26:B1:8:SER:N	2.13	0.63
2:CB:140:HIS:O	2:CB:143:GLU:HB2	1.97	0.63
1:AA:41:G:H2'	1:AA:42:G:H8	1.63	0.63
1:AA:1006:C:H2'	1:AA:1007:C:C6	2.32	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1831:G:H2'	35:BA:1832:C:C6	2.33	0.63
41:BG:10:LYS:HE2	41:BG:14:GLU:OE2	1.98	0.63
35:BA:1064:C:H4'	44:BK:89:HIS:HD2	1.63	0.63
10:AJ:16:LEU:HD13	10:AJ:16:LEU:O	1.97	0.63
41:BG:139:LEU:HA	41:BG:144:ILE:HG21	1.81	0.63
41:BG:60:LEU:C	41:BG:63:ILE:HD11	2.17	0.63
40:BF:32:LEU:C	40:BF:32:LEU:HD23	2.18	0.63
53:BU:111:GLU:O	53:BU:115:ALA:HB2	1.98	0.63
35:DA:2131:G:H5'	35:DA:2133:G:H1'	1.80	0.63
33:B8:50:LEU:HD12	33:B8:51:ALA:N	2.13	0.63
33:D8:50:LEU:C	33:D8:53:PRO:HD2	2.19	0.63
29:D4:7:PRO:CG	41:DG:61:ALA:HB1	2.29	0.63
35:BA:322:A:OP2	40:BF:169:ASN:HB2	1.98	0.63
57:BY:95:LYS:HD3	57:BY:100:ALA:HB1	1.79	0.63
31:D6:15:GLU:CD	31:D6:44:ARG:NH1	2.52	0.63
35:BA:26:G:H1'	35:BA:515:A:H61	1.64	0.63
35:DA:947:G:H2'	35:DA:948:G:H8	1.63	0.63
1:AA:129(A):G:H5''	1:AA:129(A):G:H8	1.63	0.63
26:B1:45:ASN:C	26:B1:45:ASN:ND2	2.49	0.63
44:BK:112:MET:CE	44:BK:120:LEU:HD21	2.28	0.63
46:BN:23:LEU:O	46:BN:23:LEU:HD23	1.97	0.63
11:CK:85:ARG:HG2	11:CK:111:ASP:O	1.98	0.63
19:CS:13:ASP:C	19:CS:15:LEU:H	2.01	0.63
35:BA:203:C:C3'	35:BA:204:A:H5''	2.28	0.63
50:BR:100:LEU:N	50:BR:100:LEU:HD22	2.12	0.63
38:DD:146:GLU:HG2	38:DD:152:GLY:C	2.19	0.63
27:D2:48:HIS:HD1	35:DA:95:G:HO2'	1.45	0.63
35:BA:2462:U:H2'	35:BA:2463:C:C6	2.34	0.63
11:AK:59:TYR:CE2	11:AK:63:LEU:HD11	2.34	0.63
42:BH:149:ARG:HA	42:BH:162:ILE:CD1	2.29	0.63
24:CY:15:ILE:O	24:CY:81:ILE:HA	1.99	0.63
35:DA:2428:G:H5'	35:DA:2429:G:OP1	1.98	0.63
6:CF:19:LEU:O	6:CF:19:LEU:HD23	1.97	0.63
11:CK:34:ASP:HB2	11:CK:35:PRO:CD	2.29	0.63
35:BA:2008:C:H2'	35:BA:2009:G:H8	1.63	0.63
35:BA:2396:G:O2'	35:BA:2397:G:H5'	1.99	0.63
40:BF:38:ARG:O	40:BF:42:ALA:HB2	1.98	0.63
24:AY:662:LYS:NZ	42:BH:175:LYS:CD	2.61	0.63
36:BB:40:U:O2	36:BB:43:C:H5''	1.99	0.63
22:AW:5:G:O2'	22:AW:6:G:H5'	1.99	0.63
58:DZ:35:ARG:HH11	58:DZ:35:ARG:HG3	1.64	0.63
52:BT:27:THR:O	52:BT:28:VAL:CG2	2.46	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
57:BY:88:LYS:NZ	57:BY:93:GLY:O	2.29	0.63
24:CY:157:LEU:N	24:CY:157:LEU:HD23	2.09	0.63
37:DC:128:LEU:CD2	37:DC:132:LEU:CD1	2.75	0.63
35:BA:2345:G:C5'	35:BA:2346:A:H5'	2.28	0.63
35:DA:1059:G:H2'	35:DA:1060:U:C6	2.33	0.63
12:CL:18:VAL:O	12:CL:19:ARG:HB3	1.98	0.63
35:BA:779:U:OP1	38:BD:49:ILE:HG23	1.98	0.63
27:D2:16:LEU:CB	27:D2:20:GLU:HG2	2.26	0.63
19:AS:13:ASP:C	19:AS:15:LEU:H	2.02	0.63
1:CA:974:A:H8	1:CA:974:A:OP1	1.82	0.63
39:DE:36:ARG:NH2	39:DE:88:GLY:H	1.97	0.63
35:DA:1061:U:O4	44:DK:52:ILE:HG21	1.99	0.63
13:CM:81:LEU:HD12	13:CM:86:CYS:SG	2.39	0.63
52:DT:30:VAL:HG21	52:DT:83:ILE:HG12	1.79	0.63
35:DA:480:A:OP2	57:DY:46:LYS:HE2	1.99	0.63
37:DC:176:VAL:HG21	37:DC:190:ILE:CD1	2.28	0.63
39:DE:98:PRO:HG3	39:DE:175:VAL:HG12	1.80	0.63
42:BH:153:LYS:HG3	42:BH:154:PRO:CD	2.28	0.63
35:DA:2672:G:C2'	35:DA:2673:G:H5''	2.28	0.63
35:BA:2009:G:H1'	50:BR:107:ASP:O	1.98	0.63
7:AG:27:ILE:CD1	7:AG:40:ALA:HA	2.28	0.63
53:DU:83:LEU:H	53:DU:83:LEU:HD12	1.64	0.63
53:DU:88:ILE:O	53:DU:88:ILE:HG13	1.99	0.63
1:AA:1003:G:C2	1:AA:1004:A:H1'	2.33	0.63
27:B2:69:ARG:CG	27:B2:70:GLN:N	2.59	0.63
51:BS:98:VAL:HG12	51:BS:100:ALA:N	2.13	0.63
35:DA:2454:G:O2'	35:DA:2455:G:H5'	1.98	0.63
35:DA:1012:U:C4	46:DN:28:THR:HG21	2.33	0.63
2:AB:223:ILE:HA	2:AB:226:ARG:HB3	1.81	0.63
38:DD:161:THR:O	38:DD:196:VAL:HG23	1.98	0.63
6:CF:33:TYR:HA	6:CF:71:ARG:NH2	2.11	0.63
5:CE:64:ARG:HH11	5:CE:64:ARG:CG	2.09	0.63
24:AY:553:GLY:HA2	24:AY:560:VAL:CG2	2.28	0.63
28:D3:29:ARG:NH1	28:D3:29:ARG:HB2	2.14	0.63
47:DO:24:VAL:CG2	47:DO:30:ALA:HB3	2.27	0.63
52:DT:33:LYS:HE2	52:DT:43:GLN:OE1	1.98	0.63
1:AA:1435:G:H2'	1:AA:1436:U:C5	2.33	0.63
1:CA:666:G:H5'	1:CA:726:C:H1'	1.80	0.63
1:CA:1269:A:C2	1:CA:1313:U:O4'	2.52	0.63
1:CA:176:C:H2'	1:CA:177:C:C6	2.33	0.63
1:CA:191:G:N3	20:CT:105:SER:HB3	2.14	0.63
37:BC:99:GLU:O	37:BC:100:ILE:HD13	1.98	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:192:U:H2'	1:AA:193:C:C6	2.33	0.63
12:AL:79:GLU:HB2	24:AY:442:THR:HG21	1.79	0.63
20:CT:43:LEU:O	20:CT:46:GLU:N	2.32	0.63
35:DA:848:G:H5'	35:DA:849:A:OP2	1.98	0.63
1:AA:1281:U:H5''	1:AA:1282:C:H5	1.63	0.63
35:DA:958:U:H5'	49:DQ:14:ARG:HH11	1.62	0.63
48:BP:80:TYR:CD1	48:BP:111:ARG:HB3	2.34	0.63
37:BC:115:VAL:HA	37:BC:145:THR:HG22	1.80	0.63
58:BZ:153:SER:HB2	58:BZ:163:LEU:HD13	1.79	0.63
24:CY:652:MET:HA	24:CY:652:MET:CE	2.29	0.63
35:BA:2472:G:H3'	35:BA:2475:C:H42	1.64	0.63
41:DG:11:TYR:O	41:DG:15:VAL:HB	1.99	0.63
35:DA:710:G:H2'	35:DA:711:G:H8	1.63	0.63
35:BA:55:G:H2'	35:BA:56:A:H8	1.63	0.63
40:DF:38:ARG:O	40:DF:42:ALA:HB2	1.98	0.63
35:DA:2855:C:H2'	35:DA:2856:C:H6	1.64	0.63
37:BC:71:LYS:HG2	37:BC:72:GLN:H	1.63	0.63
35:BA:1644:C:O2	35:BA:1644:C:H2'	1.98	0.63
4:AD:8:VAL:HB	4:AD:21:LEU:HD12	1.79	0.63
24:AY:227:ILE:O	24:AY:227:ILE:HG22	1.98	0.63
24:AY:464:ASP:O	24:AY:468:ARG:HB2	1.99	0.63
35:BA:2131:G:H5'	35:BA:2133:G:H1'	1.80	0.63
31:B6:11:LEU:HD22	31:B6:12:GLU:N	2.13	0.63
33:B8:50:LEU:C	33:B8:53:PRO:HD2	2.19	0.63
35:BA:252:G:OP2	48:BP:50:ARG:NH1	2.32	0.63
24:CY:276:VAL:O	24:CY:280:LEU:HD23	1.98	0.63
48:DP:16:ARG:CD	48:DP:18:ARG:H	2.08	0.63
58:DZ:145:GLU:HG3	58:DZ:146:ILE:HG12	1.79	0.63
46:BN:46:VAL:O	46:BN:47:ALA:CB	2.46	0.63
48:DP:146:VAL:O	48:DP:148:LEU:N	2.32	0.63
1:AA:1403:C:O2	1:AA:1403:C:H2'	1.97	0.63
3:CC:142:MET:CE	3:CC:171:GLY:HA3	2.28	0.63
1:CA:559:A:H4'	1:CA:560:U:C5'	2.29	0.63
30:B5:25:LEU:CD1	55:BW:19:LEU:HB3	2.28	0.63
56:DX:70:LEU:HD23	56:DX:71:GLY:N	2.14	0.63
35:DA:2172:U:H1'	35:DA:2173:A:OP1	1.97	0.63
35:BA:2720:U:H2'	35:BA:2721:A:C8	2.33	0.63
1:CA:1095:U:P	1:CA:1108:G:H1	2.21	0.63
35:DA:2348:U:C2'	35:DA:2349:G:H5''	2.28	0.63
4:AD:126:ILE:HG22	4:AD:127:THR:N	2.14	0.63
35:BA:2248:C:H2'	35:BA:2249:U:H5'	1.81	0.63
35:DA:2244:U:O2	35:DA:2434:A:H2'	1.98	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1510:G:O2'	35:DA:1511:C:H5'	1.99	0.63
35:DA:790:C:H5'	35:DA:791:C:OP2	1.99	0.63
16:AP:82:GLN:O	16:AP:84:ALA:N	2.31	0.63
35:DA:311:A:H5'	35:DA:332:A:C2	2.33	0.63
6:AF:11:ASN:HB3	6:AF:14:LEU:HG	1.80	0.63
28:B3:52:HIS:CD2	28:B3:52:HIS:H	2.17	0.63
20:CT:42:GLN:HA	20:CT:42:GLN:HE21	1.64	0.63
38:BD:76:PRO:HG2	38:BD:98:VAL:HG21	1.81	0.63
24:AY:18:ALA:O	24:AY:19:ALA:HB2	1.99	0.63
35:DA:769:G:O2'	35:DA:770:G:H5'	1.99	0.63
35:DA:84:A:H5'	57:DY:9:LYS:HB3	1.81	0.63
38:BD:35:LYS:O	38:BD:36:PRO:C	2.37	0.63
33:D8:56:GLU:HA	33:D8:59:LYS:HZ3	1.64	0.63
40:BF:167:ALA:HB1	40:BF:173:VAL:CG1	2.22	0.63
1:CA:1002:G:H22	1:CA:1039:C:H2'	1.64	0.63
3:CC:70:VAL:CG1	3:CC:71:ALA:H	2.07	0.63
12:AL:75:HIS:HD2	12:AL:77:LEU:HD12	1.62	0.63
35:BA:2259:G:O2'	35:BA:2260:C:H5'	1.99	0.63
27:D2:69:ARG:O	27:D2:70:GLN:HB2	1.99	0.63
35:BA:629:G:H5''	35:BA:650:C:O2'	1.98	0.63
50:DR:97:VAL:HG13	50:DR:114:VAL:HG22	1.79	0.63
9:CI:114:TYR:HE1	10:CJ:60:ARG:N	1.95	0.63
35:BA:2762:G:H5'	35:BA:2762:G:C8	2.34	0.63
35:BA:2876:G:H4'	52:BT:3:ARG:NE	2.12	0.63
9:AI:8:GLY:HA2	9:AI:79:LEU:HD12	1.81	0.63
1:AA:194:C:C2'	1:AA:195:A:H5''	2.29	0.63
3:AC:181:ASN:HD22	3:AC:204:LEU:HB2	1.64	0.63
39:DE:8:LYS:O	39:DE:193:GLY:N	2.32	0.63
13:AM:10:PRO:CB	13:AM:18:ALA:HB1	2.29	0.63
35:BA:2348:U:H2'	35:BA:2349:G:C5'	2.29	0.63
57:DY:51:VAL:HG12	57:DY:53:PRO:HD2	1.80	0.63
1:CA:1492:A:H2'	1:CA:1493:A:C8	2.34	0.63
35:DA:1237:A:O2'	35:DA:1238:G:O4'	2.16	0.63
35:BA:710:G:H2'	35:BA:711:G:H8	1.64	0.63
33:D8:42:ARG:O	33:D8:44:LYS:N	2.29	0.63
1:CA:370:C:O2'	1:CA:371:G:H5'	1.98	0.63
3:CC:113:ALA:HB3	3:CC:183:ASP:OD2	1.98	0.63
35:BA:491:G:H2'	35:BA:492:A:H8	1.62	0.63
35:BA:221:A:H61	35:BA:265:A:H8	1.46	0.63
38:BD:226:MET:HB3	38:BD:230:ASP:HB2	1.79	0.63
35:BA:2312:U:H4'	41:BG:71:THR:OG1	1.98	0.63
1:CA:509:A:C5'	1:CA:510:A:OP2	2.34	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:CD:16:GLY:HA2	4:CD:33:MET:CE	2.28	0.63
57:BY:88:LYS:HZ3	57:BY:93:GLY:C	2.03	0.63
57:BY:96:ILE:HD12	57:BY:99:CYS:SG	2.37	0.63
31:B6:37:ARG:NH2	35:BA:2286:A:H62	1.96	0.63
35:BA:2344:U:O2'	35:BA:2345:G:H5''	1.98	0.63
51:BS:67:ARG:HB3	51:BS:71:ARG:HH22	1.63	0.63
1:AA:1128:C:H2'	1:AA:1129:C:C5'	2.24	0.63
28:D3:17:LYS:HZ3	28:D3:20:LYS:HE3	1.60	0.63
2:AB:120:ALA:O	2:AB:121:LEU:HD23	1.99	0.63
35:DA:1141:U:H6	46:DN:63:THR:HG21	1.63	0.63
50:DR:100:LEU:HD22	50:DR:100:LEU:N	2.11	0.63
52:BT:42:ILE:O	52:BT:42:ILE:HG13	1.97	0.63
44:DK:58:THR:O	44:DK:66:THR:HG22	1.98	0.63
25:D0:42:GLY:HA3	35:DA:2331:G:O4'	1.98	0.63
24:CY:530:VAL:HG12	24:CY:533:VAL:CG2	2.29	0.63
27:B2:47:ASN:HB2	35:BA:95:G:H1'	1.80	0.63
1:AA:390:C:O3'	16:AP:28:ARG:NH2	2.31	0.63
12:AL:27:LEU:HD21	12:AL:64:TYR:CE1	2.34	0.63
47:DO:104:ARG:HH21	52:DT:33:LYS:CE	2.11	0.63
35:BA:286:C:H2'	35:BA:287:C:C6	2.34	0.63
16:CP:53:VAL:HG23	16:CP:54:GLU:N	2.13	0.63
19:CS:24:ALA:O	19:CS:25:LYS:HB2	1.98	0.63
22:AW:72:C:H2'	22:AW:73:A:C8	2.34	0.63
3:CC:110:ASN:OD1	3:CC:140:ARG:HD2	1.98	0.63
2:AB:111:ARG:HG2	2:AB:111:ARG:HH11	1.64	0.63
1:CA:1305:G:OP1	21:CU:2:GLY:N	2.32	0.63
35:BA:603:A:H4'	35:BA:604:G:O5'	1.98	0.63
35:DA:1717:G:C3'	35:DA:1718:G:H5''	2.29	0.63
5:AE:72:GLN:HE22	5:AE:144:THR:HG22	1.62	0.63
35:BA:2244:U:O2	35:BA:2434:A:H2'	1.98	0.63
23:CX:16:A:H2'	23:CX:17:U:H6	1.63	0.63
20:CT:93:GLU:C	20:CT:95:ALA:H	2.01	0.63
1:AA:824:C:H2'	1:AA:825:G:H8	1.64	0.63
35:BA:1835:G:H1'	35:BA:1931:U:O2	1.98	0.63
38:BD:72:LYS:HE2	38:BD:101:GLU:OE2	1.98	0.63
52:DT:35:LYS:NZ	52:DT:41:ARG:HH11	1.96	0.63
56:DX:26:TYR:HD2	56:DX:92:LEU:HD12	1.63	0.63
4:CD:108:LEU:HD21	4:CD:183:GLY:HA3	1.80	0.63
1:AA:512:U:H2'	1:AA:513:C:H6	1.64	0.63
42:DH:156:ALA:O	42:DH:158:HIS:CD2	2.52	0.63
41:BG:153:ARG:HB3	41:BG:153:ARG:NH1	2.14	0.63
10:AJ:71:LEU:HD12	10:AJ:72:VAL:N	2.13	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AJ:4:ILE:HB	10:AJ:74:ILE:CG1	2.29	0.63
35:BA:1047:G:HO2'	35:BA:1110:G:H1	1.47	0.63
35:BA:2131:G:H5'	35:BA:2133:G:C1'	2.29	0.63
58:BZ:120:ILE:O	58:BZ:120:ILE:HG22	1.99	0.63
48:DP:97:PRO:O	48:DP:98:GLU:CB	2.46	0.63
35:DA:814:C:H2'	35:DA:815:C:H6	1.62	0.63
39:BE:69:LYS:H	39:BE:69:LYS:HE2	1.64	0.63
46:DN:57:ALA:N	46:DN:124:ALA:HA	2.14	0.63
46:DN:22:THR:HA	46:DN:61:ARG:O	1.99	0.63
19:CS:41:VAL:C	19:CS:43:GLU:H	2.02	0.63
49:BQ:45:GLN:H	49:BQ:45:GLN:CD	2.00	0.63
39:BE:24:THR:HG22	39:BE:186:GLY:CA	2.27	0.63
1:AA:1510:U:O2	1:AA:1526:G:C2	2.52	0.63
1:AA:1513:A:H2'	1:AA:1514:C:H6	1.62	0.63
24:CY:264:LEU:HD23	24:CY:264:LEU:C	2.19	0.63
22:CW:31:G:O2'	22:CW:32:G:H5'	1.99	0.63
1:AA:191:G:N3	20:AT:105:SER:HB3	2.14	0.63
24:AY:316:ILE:HD12	24:AY:326:THR:HG22	1.80	0.63
3:CC:181:ASN:HD22	3:CC:204:LEU:HB2	1.61	0.63
54:BV:79:VAL:O	54:BV:79:VAL:HG12	1.98	0.63
16:AP:53:VAL:HG23	16:AP:54:GLU:N	2.14	0.63
35:BA:1030:G:OP2	49:BQ:128:LYS:HE2	1.98	0.63
36:DB:21:G:N3	36:DB:21:G:H2'	2.13	0.63
39:DE:8:LYS:HG2	39:DE:192:ASN:HA	1.81	0.63
1:AA:1152:A:H5''	10:AJ:13:HIS:CD2	2.33	0.63
39:BE:101:ARG:HH11	39:BE:169:ASN:HD22	1.44	0.63
43:BJ:26:UNK:CA	43:BJ:84:UNK:HA	2.28	0.63
35:DA:2348:U:H2'	35:DA:2349:G:C5'	2.29	0.63
1:CA:512:U:H2'	1:CA:513:C:H6	1.63	0.63
35:BA:2052:G:H4'	39:BE:143:ASN:O	1.99	0.63
38:DD:11:PRO:C	38:DD:13:ARG:H	2.02	0.63
40:BF:28:ILE:CD1	40:BF:28:ILE:H	2.12	0.62
53:BU:88:ILE:HG13	53:BU:88:ILE:O	1.98	0.62
35:BA:1747(A):G:O2'	35:BA:1748:G:H5''	1.97	0.62
35:DA:1748:G:H2'	35:DA:1749:A:O4'	1.99	0.62
38:DD:35:LYS:NZ	38:DD:36:PRO:HD3	2.02	0.62
35:DA:2131:G:H5'	35:DA:2133:G:C1'	2.29	0.62
31:B6:35:GLU:OE1	31:B6:35:GLU:HA	1.99	0.62
57:DY:97:ARG:HG3	57:DY:97:ARG:HH11	1.63	0.62
31:D6:35:GLU:HB2	31:D6:51:GLU:HB2	1.80	0.62
30:B5:40:LYS:HD3	30:B5:44:THR:HB	1.81	0.62
49:DQ:56:ARG:NE	49:DQ:56:ARG:HA	2.14	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:581:C:H2'	35:DA:582:G:H8	1.63	0.62
48:DP:96:THR:O	48:DP:99:LEU:HB3	1.99	0.62
44:BK:56:GLU:O	44:BK:67:PHE:HA	1.99	0.62
39:DE:47:VAL:HG23	39:DE:84:PHE:O	1.99	0.62
35:BA:1012:U:H3	46:BN:25:ARG:HE	1.46	0.62
52:BT:1:MET:N	52:BT:7:ILE:HD11	2.13	0.62
46:DN:96:GLU:H	46:DN:96:GLU:CD	2.01	0.62
1:AA:579:G:C5'	1:AA:728:A:H1'	2.28	0.62
58:DZ:79:ARG:O	58:DZ:80:ARG:HB2	1.99	0.62
47:DO:69:ILE:N	47:DO:69:ILE:HD12	2.14	0.62
35:BA:1127:A:H2'	35:BA:1128:A:H5''	1.80	0.62
1:CA:1026:G:C2'	1:CA:1027:C:H5'	2.29	0.62
35:DA:1053:C:H3'	35:DA:1054:A:H5''	1.79	0.62
1:AA:384:G:H2'	1:AA:385:C:C6	2.34	0.62
22:AW:75:C:H2'	22:AW:76:C:O4'	1.99	0.62
36:BB:21:G:N3	36:BB:21:G:H2'	2.13	0.62
1:CA:160:A:H1'	1:CA:344:A:C8	2.34	0.62
41:DG:172:LEU:O	41:DG:172:LEU:HD23	1.99	0.62
35:BA:1268:A:H2'	35:BA:1269:A:O4'	1.98	0.62
45:BL:15:UNK:CB	45:BM:11:UNK:HA	23.81	0.62
1:CA:203:U:H5''	1:CA:204:U:OP1	1.98	0.62
10:AJ:3:LYS:NZ	10:AJ:77:PRO:HD2	2.14	0.62
24:CY:601:ILE:C	24:CY:602:LEU:HD23	2.20	0.62
24:AY:165:GLN:HB2	24:AY:260:LEU:CD1	2.29	0.62
24:AY:255:ILE:HG12	24:AY:256:THR:N	2.14	0.62
1:CA:1218:C:H2'	1:CA:1219:U:C6	2.35	0.62
33:D8:14:VAL:HG21	33:D8:22:VAL:HG13	1.80	0.62
33:D8:47:LYS:NZ	33:D8:49:VAL:HG13	2.14	0.62
41:DG:55:LYS:HG2	41:DG:58:GLN:HE21	1.63	0.62
35:BA:1059:G:H2'	35:BA:1060:U:C6	2.34	0.62
50:DR:78:LYS:O	50:DR:83:ILE:HG12	1.99	0.62
2:CB:168:THR:CG2	2:CB:192:SER:HB3	2.23	0.62
58:DZ:180:VAL:O	58:DZ:182:LYS:N	2.32	0.62
1:CA:1452:C:H1'	1:CA:1456:G:C2	2.33	0.62
35:BA:1038:C:C3'	35:BA:1039:G:H5''	2.27	0.62
35:BA:1012:U:O4	46:BN:28:THR:HG21	1.98	0.62
35:BA:2795:G:H21	35:BA:2796:U:H5	1.46	0.62
42:BH:44:VAL:O	42:BH:50:VAL:HG13	1.99	0.62
2:CB:21:ARG:HD2	2:CB:39:ILE:CG1	2.29	0.62
1:AA:1026:G:C2'	1:AA:1027:C:H5'	2.29	0.62
24:AY:573:HIS:CD2	24:AY:576:ASP:H	2.15	0.62
35:BA:840:C:C2'	35:BA:841:A:H5''	2.28	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
54:DV:79:VAL:O	54:DV:79:VAL:HG12	1.99	0.62
22:CV:1:C:H2'	22:CV:2:G:H8	1.64	0.62
1:CA:383:A:H2'	1:CA:384:G:H5'	1.80	0.62
1:CA:673:G:H2'	1:CA:674:G:C8	2.34	0.62
1:CA:1328:C:H2'	1:CA:1329:A:C8	2.34	0.62
1:AA:332:G:O2'	1:AA:333:G:H5'	1.99	0.62
35:BA:1717:G:C3'	35:BA:1718:G:H5''	2.30	0.62
35:DA:1120:G:H2'	35:DA:1121:C:C6	2.34	0.62
54:BV:32:THR:HG23	54:BV:59:ALA:O	2.00	0.62
16:CP:50:LYS:HG2	16:CP:51:VAL:N	2.13	0.62
3:AC:114:PRO:HD3	3:AC:183:ASP:OD2	1.99	0.62
35:DA:1523:U:H2'	35:DA:1524:G:C8	2.33	0.62
35:BA:11:G:H22	35:BA:2628:C:P	2.22	0.62
38:DD:28:GLU:HB2	38:DD:29:PRO:CD	2.29	0.62
38:BD:28:GLU:HB2	38:BD:29:PRO:CD	2.29	0.62
35:DA:2552:U:C2	35:DA:2554:U:H5'	2.34	0.62
49:DQ:60:ARG:HB2	49:DQ:60:ARG:NH1	2.14	0.62
37:DC:65:LEU:HD13	37:DC:189:ASN:ND2	2.14	0.62
7:AG:15:ASP:HB3	7:AG:20:ASP:H	1.64	0.62
12:AL:24:VAL:HG13	12:AL:98:TYR:CE2	2.34	0.62
4:AD:18:LYS:C	4:AD:19:LEU:HD12	2.20	0.62
24:CY:90:PHE:CZ	61:CY:702:FUA:H121	2.34	0.62
31:B6:5:VAL:HG12	31:B6:6:ARG:N	2.14	0.62
33:B8:51:ALA:C	33:B8:53:PRO:HD2	2.19	0.62
24:CY:259:PHE:C	24:CY:260:LEU:HD13	2.19	0.62
51:BS:97:ARG:HE	51:BS:97:ARG:C	2.03	0.62
50:DR:97:VAL:HA	50:DR:113:LEU:O	2.00	0.62
35:BA:2631:G:N2	39:BE:61:ARG:NH1	2.47	0.62
1:AA:1054:C:OP2	1:AA:1197:G:OP2	2.17	0.62
25:D0:16:SER:OG	35:DA:2261:C:H3'	1.99	0.62
35:DA:2262:U:O2'	35:DA:2263:C:H5''	1.98	0.62
39:BE:47:VAL:HG23	39:BE:84:PHE:O	1.98	0.62
39:BE:36:ARG:NH2	39:BE:88:GLY:H	1.97	0.62
50:BR:28:LEU:HD23	50:BR:28:LEU:C	2.20	0.62
35:DA:2248:C:H2'	35:DA:2249:U:H5'	1.80	0.62
35:BA:1061:U:O4	44:BK:52:ILE:HG21	1.99	0.62
1:AA:1250:A:H2'	1:AA:1251:A:C8	2.34	0.62
6:CF:71:ARG:HH11	6:CF:71:ARG:HG3	1.62	0.62
52:DT:106:SER:O	52:DT:107:ASP:HB3	1.97	0.62
57:BY:62:GLU:CG	57:BY:63:LYS:H	2.11	0.62
52:BT:132:LYS:CD	52:BT:132:LYS:H	2.11	0.62
58:BZ:42:VAL:HG13	58:BZ:43:GLU:N	2.14	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AD:57:ARG:HB3	4:AD:206:PHE:HB2	1.81	0.62
44:BK:79:ARG:HD2	44:BK:85:GLU:O	1.99	0.62
35:DA:1380:G:H2'	35:DA:1381:G:H8	1.64	0.62
28:B3:4:LEU:HD11	28:B3:39:ASP:OD1	1.99	0.62
42:BH:124:GLU:HG3	42:BH:132:ARG:HG3	1.80	0.62
35:DA:1717:G:H2'	35:DA:1718:G:H5''	1.80	0.62
24:CY:293:THR:C	24:CY:295:GLU:H	2.02	0.62
22:CW:52:C:C3'	22:CW:53:G:H5''	2.29	0.62
15:AO:83:GLU:C	15:AO:85:LEU:H	2.02	0.62
35:DA:1329:U:H5'	35:DA:1330:C:H5	1.63	0.62
1:CA:781:A:H4'	1:CA:1522:U:O2'	1.98	0.62
4:CD:173:TRP:HB3	4:CD:187:ARG:NH1	2.14	0.62
22:AW:50:G:H2'	22:AW:51:U:O4'	1.99	0.62
58:BZ:105:VAL:HG13	58:BZ:105:VAL:O	1.99	0.62
7:CG:15:ASP:HB3	7:CG:20:ASP:H	1.64	0.62
41:BG:16:ARG:NE	41:BG:31:VAL:HG11	2.14	0.62
4:CD:13:ARG:HA	4:CD:33:MET:HE1	1.81	0.62
40:BF:123:LEU:CD1	40:BF:192:LEU:HD22	2.29	0.62
40:DF:53:THR:CG2	40:DF:56:GLU:HG3	2.21	0.62
31:B6:11:LEU:HG	31:B6:26:ASN:ND2	2.13	0.62
1:AA:793:U:H3'	1:AA:794:A:C5'	2.22	0.62
8:AH:104:ARG:O	8:AH:106:GLY:N	2.33	0.62
55:BW:88:ARG:HB3	55:BW:92:ARG:HB3	1.81	0.62
24:CY:242:LEU:O	24:CY:245:ALA:HB3	1.99	0.62
35:DA:2345:G:O2'	35:DA:2381:C:H2'	2.00	0.62
52:DT:38:ASN:ND2	52:DT:40:THR:H	1.98	0.62
35:BA:2262:U:O2'	35:BA:2263:C:H5''	1.99	0.62
26:B1:86:SER:HB2	26:B1:90:ILE:HD11	1.80	0.62
48:BP:97:PRO:O	48:BP:98:GLU:CB	2.46	0.62
35:BA:2228:G:H2'	35:BA:2229:C:C6	2.34	0.62
17:AQ:66:SER:O	17:AQ:70:ARG:NH1	2.33	0.62
13:AM:97:PRO:CA	13:AM:110:ARG:HD3	2.26	0.62
1:AA:692:U:OP1	11:AK:124:LYS:HE2	1.99	0.62
1:CA:692:U:OP1	11:CK:124:LYS:HE2	2.00	0.62
26:B1:57:GLU:HG2	26:B1:58:ILE:H	1.64	0.62
35:DA:1332:G:H22	35:DA:1609:A:H3'	1.64	0.62
50:BR:117:VAL:HG12	50:BR:118:GLU:N	2.13	0.62
1:CA:740:U:O2'	1:CA:741:G:H5'	1.99	0.62
24:AY:201:ILE:N	24:AY:201:ILE:HD12	2.13	0.62
58:DZ:37:VAL:HG23	58:DZ:38:TYR:N	2.13	0.62
1:CA:384:G:H2'	1:CA:385:C:C6	2.34	0.62
1:CA:1346:A:N1	1:CA:1374:A:H5''	2.14	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BE:101:ARG:HH11	39:BE:169:ASN:ND2	1.98	0.62
35:DA:1917:U:C2'	35:DA:1918:A:H5'	2.28	0.62
1:AA:8:A:N6	4:AD:209:ARG:HB2	2.12	0.62
18:AR:45:SER:H	18:AR:51:LEU:HG	1.62	0.62
3:CC:11:ARG:O	3:CC:13:GLY:N	2.33	0.62
33:B8:42:ARG:O	33:B8:44:LYS:N	2.29	0.62
1:CA:955:U:O2'	1:CA:956:U:H5'	1.99	0.62
21:CU:6:ARG:HH21	21:CU:15:ARG:NH2	1.97	0.62
37:BC:73:VAL:HG11	37:BC:158:LYS:HA	1.81	0.62
36:DB:54:G:O2'	36:DB:55:U:H5'	1.99	0.62
1:CA:1137:C:H4'	1:CA:1138:G:C2	2.34	0.62
24:AY:662:LYS:NZ	42:BH:175:LYS:CG	2.63	0.62
24:AY:165:GLN:C	24:AY:166:LEU:HD12	2.20	0.62
54:DV:38:LEU:HD23	54:DV:39:LEU:N	2.14	0.62
10:CJ:30:SER:OG	10:CJ:81:THR:HG22	1.99	0.62
10:CJ:32:ALA:HB1	10:CJ:75:ILE:HG13	1.81	0.62
10:CJ:75:ILE:CG1	10:CJ:76:ASN:H	2.04	0.62
1:CA:1003:G:C2	1:CA:1004:A:H1'	2.35	0.62
35:DA:1504:C:C2'	35:DA:1505:C:H5''	2.30	0.62
58:BZ:59:LEU:HD11	58:BZ:88:PHE:CD2	2.35	0.62
35:BA:581:C:H2'	35:BA:582:G:H8	1.62	0.62
2:CB:120:ALA:O	2:CB:121:LEU:HD23	2.00	0.62
39:DE:59:VAL:HG22	39:DE:62:PRO:O	1.99	0.62
35:BA:947:G:H2'	35:BA:948:G:H8	1.64	0.62
35:DA:2298:A:H62	35:DA:2318:G:H8	1.47	0.62
50:BR:97:VAL:HG13	50:BR:114:VAL:HG22	1.81	0.62
2:CB:223:ILE:HA	2:CB:226:ARG:HB3	1.81	0.62
2:CB:220:ASP:O	2:CB:223:ILE:HG13	1.99	0.62
7:AG:102:ARG:HG2	7:AG:106:GLN:NE2	2.13	0.62
58:DZ:153:SER:C	58:DZ:155:LEU:HD23	2.20	0.62
52:BT:10:VAL:O	52:BT:12:SER:N	2.33	0.62
1:CA:579:G:C5'	1:CA:728:A:H1'	2.28	0.62
46:DN:67:LEU:CD2	46:DN:87:LEU:HB3	2.30	0.62
2:AB:172:ILE:HD12	2:AB:172:ILE:N	2.13	0.62
38:BD:158:ALA:HB3	38:BD:161:THR:CG2	2.29	0.62
4:AD:173:TRP:HB3	4:AD:187:ARG:NH1	2.15	0.62
2:AB:14:GLY:O	2:AB:15:VAL:HG13	2.00	0.62
19:CS:9:VAL:HG23	29:D4:53:GLU:OE2	1.99	0.62
51:DS:67:ARG:HB3	51:DS:71:ARG:NH2	2.14	0.62
42:DH:19:VAL:HG12	42:DH:20:ALA:N	2.13	0.62
1:AA:662:G:H2'	1:AA:663:A:H8	1.64	0.62
35:DA:840:C:C2'	35:DA:841:A:H5''	2.29	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:B0:26:TYR:HE2	35:BA:857:C:H1'	1.65	0.62
35:BA:2672:G:C2'	35:BA:2673:G:H5''	2.29	0.62
35:BA:589:C:O2'	35:BA:590:A:H5'	1.99	0.62
35:DA:139(A):G:H22	56:DX:44:GLU:CD	2.03	0.62
35:BA:2428:G:H5'	35:BA:2429:G:OP1	2.00	0.62
28:D3:36:VAL:O	28:D3:37:LEU:HD23	2.00	0.62
44:BK:41:PHE:CE1	44:BK:45:THR:HG21	2.34	0.62
4:CD:121:VAL:HA	4:CD:126:ILE:HD13	1.81	0.62
24:CY:541:ALA:HB2	24:CY:579:GLU:HG2	1.81	0.62
18:AR:40:LEU:O	18:AR:42:ARG:N	2.33	0.62
35:DA:310:A:OP2	57:DY:18:GLY:HA2	1.99	0.62
35:DA:2639:A:H2'	35:DA:2640:G:O4'	1.99	0.62
35:DA:2555:U:H2'	35:DA:2556:C:H5'	1.80	0.62
42:BH:136:ILE:HD12	42:BH:136:ILE:N	2.14	0.62
1:AA:1049:U:H1'	1:AA:1201:A:N7	2.13	0.62
10:CJ:23:ILE:HG22	10:CJ:23:ILE:O	1.99	0.62
53:BU:80:ILE:O	53:BU:84:LYS:HB2	2.00	0.62
35:BA:2735:G:H2'	35:BA:2736:G:H8	1.63	0.62
1:AA:1334:G:H5'	1:AA:1335:C:OP2	1.99	0.62
42:BH:98:LEU:HD12	42:BH:102:ALA:O	1.99	0.62
4:CD:8:VAL:HB	4:CD:21:LEU:HD12	1.82	0.62
24:CY:630:GLN:HE22	24:CY:646:PHE:HD2	1.46	0.62
4:AD:16:GLY:HA2	4:AD:33:MET:HE1	1.82	0.62
23:CX:12:A:H2	23:CX:13:A:H5'	1.64	0.62
33:B8:25:MET:HG3	48:BP:64:LYS:HB2	1.82	0.62
35:DA:336:C:H4'	57:DY:7:VAL:HG21	1.80	0.62
22:AV:47:U:H3'	22:AV:48:C:H5'	1.82	0.62
24:CY:243:VAL:HG13	24:CY:279:TYR:CE1	2.35	0.62
37:DC:115:VAL:HG12	37:DC:145:THR:HG23	1.81	0.62
48:BP:41:ARG:HA	48:BP:41:ARG:NH2	2.07	0.62
35:BA:2344:U:H4'	35:BA:2345:G:OP1	1.98	0.62
51:BS:106:ARG:HB3	51:BS:106:ARG:NH1	2.13	0.62
18:AR:37:VAL:CG2	18:AR:38:GLU:H	2.08	0.62
48:DP:23:PRO:O	48:DP:33:ARG:HD2	2.00	0.62
35:DA:570:G:H2'	35:DA:2030:A:N7	2.14	0.62
48:DP:96:THR:HG22	48:DP:126:VAL:HB	1.81	0.62
2:CB:215:LEU:O	2:CB:219:VAL:HG23	2.00	0.62
26:B1:47:GLN:HG3	35:BA:2091:U:O2'	2.00	0.62
46:DN:45:ASN:H	46:DN:45:ASN:ND2	1.93	0.62
52:BT:25:GLY:HA2	52:BT:92:GLY:CA	2.29	0.62
1:CA:250:A:H4'	1:CA:251:G:O5'	1.99	0.62
1:AA:1250:A:H4'	9:AI:68:GLY:N	2.14	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:CF:69:GLU:O	6:CF:72:VAL:HG12	2.00	0.62
41:DG:77:ILE:CG2	41:DG:80:PHE:HB2	2.29	0.62
35:BA:94:C:H5'	35:BA:94(A):G:OP2	2.00	0.62
28:B3:29:ARG:NH1	28:B3:29:ARG:HB2	2.14	0.62
35:BA:2168:G:N2	35:BA:2170:A:H3'	2.14	0.62
1:CA:1148:U:O3'	9:CI:14:VAL:HG11	2.00	0.62
20:AT:43:LEU:HB3	20:AT:48:LYS:HB2	1.82	0.62
35:DA:748:G:O6	35:DA:751:A:H4'	1.98	0.62
35:BA:2199:A:H3'	35:BA:2200:C:H6	1.65	0.62
3:CC:114:PRO:HD3	3:CC:183:ASP:OD2	1.99	0.62
3:AC:113:ALA:HB3	3:AC:183:ASP:OD2	1.98	0.62
12:AL:23:LYS:O	12:AL:24:VAL:HG23	2.00	0.62
1:AA:633:G:H5'	1:AA:634:C:OP2	1.99	0.62
35:BA:1441:G:H2'	35:BA:1442:G:H8	1.65	0.62
1:AA:291:C:O2'	1:AA:292:G:H5'	1.99	0.62
56:BX:26:TYR:HD2	56:BX:92:LEU:HD12	1.65	0.62
20:CT:29:LYS:O	20:CT:33:ILE:HG13	2.00	0.62
20:CT:33:ILE:HD13	20:CT:63:ILE:HG12	1.81	0.62
35:DA:52:A:O2'	35:DA:53:A:H5'	1.99	0.62
38:DD:72:LYS:HE2	38:DD:101:GLU:OE2	1.99	0.62
24:CY:646:PHE:O	24:CY:647:VAL:HG13	1.99	0.62
24:AY:111:SER:O	24:AY:113:GLY:N	2.33	0.62
24:AY:17:ILE:N	24:AY:17:ILE:HD12	2.14	0.62
54:BV:47:VAL:HB	54:BV:50:PRO:O	1.99	0.62
31:B6:6:ARG:HD2	31:B6:6:ARG:H	1.64	0.62
35:BA:965:C:C4'	35:BA:2273:A:H1'	2.29	0.62
33:D8:32:LEU:HB3	33:D8:36:LYS:HZ2	1.65	0.62
30:D5:40:LYS:HE2	30:D5:46:CYS:HB3	1.81	0.62
31:B6:45:LYS:HG2	35:BA:2371:G:H4'	1.80	0.62
25:B0:27:GLU:CD	25:B0:27:GLU:N	2.41	0.62
35:DA:896:A:O4'	58:DZ:146:ILE:HD12	2.00	0.62
5:CE:51:VAL:O	5:CE:55:VAL:HG23	2.00	0.62
1:AA:250:A:H4'	1:AA:251:G:O5'	1.99	0.62
39:DE:48:GLN:HE21	39:DE:78:LEU:HD22	1.64	0.62
30:B5:56:LYS:HG3	30:B5:57:VAL:N	2.11	0.62
2:AB:80:ILE:H	2:AB:80:ILE:HD12	1.63	0.62
20:CT:45:GLN:HA	20:CT:91:LEU:HB3	1.82	0.62
42:BH:30:LYS:CD	42:BH:81:GLU:HG2	2.29	0.62
52:DT:132:LYS:CD	52:DT:132:LYS:H	2.13	0.62
52:BT:106:SER:O	52:BT:107:ASP:HB3	2.00	0.62
24:CY:512:ILE:HG22	24:CY:567:LEU:HA	1.81	0.62
24:CY:128:TYR:CE2	24:CY:130:VAL:HG23	2.33	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:CM:15:VAL:HG12	13:CM:45:VAL:CG2	2.28	0.62
1:CA:1284:C:H3'	1:CA:1285:A:C5'	2.28	0.62
3:CC:150:LYS:HB2	3:CC:169:ALA:HB2	1.80	0.62
24:CY:289:ILE:CG2	24:CY:290:LYS:H	2.12	0.62
38:DD:186:HIS:HD2	38:DD:188:GLU:H	1.46	0.62
1:CA:1152:A:H5''	10:CJ:13:HIS:CD2	2.34	0.62
6:CF:16:GLN:HA	6:CF:19:LEU:HB3	1.81	0.62
35:DA:272(B):G:H2'	35:DA:272(C):G:C8	2.34	0.62
8:AH:5:PRO:O	8:AH:8:ASP:HB3	1.99	0.62
2:CB:156:LYS:O	2:CB:157:ARG:HB3	1.98	0.62
51:BS:40:ILE:HG22	51:BS:41:ASP:N	2.14	0.62
1:AA:718:G:C8	11:AK:116:HIS:HB3	2.34	0.62
24:CY:688:ILE:O	24:CY:688:ILE:HG22	1.98	0.62
58:DZ:55:HIS:O	58:DZ:57:ILE:HD12	2.00	0.62
10:AJ:32:ALA:HB1	10:AJ:75:ILE:HG13	1.82	0.62
24:AY:9:LEU:C	24:AY:11:ARG:H	2.03	0.62
41:BG:77:ILE:HG21	41:BG:80:PHE:HB2	1.79	0.62
13:CM:4:ILE:HG22	13:CM:5:ALA:H	1.64	0.62
22:AV:47:U:H3'	22:AV:48:C:C5'	2.30	0.62
55:DW:88:ARG:HB3	55:DW:92:ARG:HB3	1.82	0.62
1:CA:1303:C:H2'	1:CA:1304:G:H5'	1.81	0.62
12:CL:18:VAL:HG23	12:CL:19:ARG:N	2.07	0.62
44:DK:112:MET:CE	44:DK:120:LEU:HD21	2.30	0.62
39:BE:59:VAL:HG22	39:BE:62:PRO:O	2.00	0.62
39:DE:69:LYS:H	39:DE:69:LYS:HE2	1.64	0.62
54:DV:18:LEU:HD13	54:DV:19:LYS:N	2.15	0.62
20:CT:13:LEU:HD12	20:CT:13:LEU:N	2.13	0.62
13:AM:81:LEU:HD12	13:AM:86:CYS:SG	2.39	0.62
35:BA:1946:U:H2'	35:BA:1947:C:H6	1.64	0.62
35:BA:1223:G:H5'	35:BA:1224:C:OP2	1.98	0.62
35:DA:94:C:H5'	35:DA:94(A):G:OP2	1.99	0.62
35:BA:1541:G:O2'	35:BA:1542:A:H5''	1.99	0.62
35:DA:363(D):G:O2'	35:DA:363(E):U:H5'	2.00	0.62
24:CY:289:ILE:CG2	24:CY:290:LYS:N	2.62	0.62
35:DA:2720:U:H2'	35:DA:2721:A:C8	2.34	0.62
1:CA:72:C:H2'	1:CA:73:G:H8	1.64	0.62
54:DV:32:THR:HG1	54:DV:60:GLU:HG3	1.65	0.62
45:DL:62:UNK:HA	45:DL:120:UNK:CB	2.29	0.62
38:BD:232:PRO:HD2	38:BD:249:PRO:HA	1.82	0.62
35:BA:1842:G:H2'	35:BA:1843:C:C6	2.34	0.62
16:CP:82:GLN:O	16:CP:84:ALA:N	2.32	0.62
42:DH:98:LEU:HD12	42:DH:102:ALA:O	2.00	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:CY:21:ILE:N	24:CY:21:ILE:HD13	2.15	0.62
40:BF:123:LEU:HD12	40:BF:124:LEU:N	2.15	0.62
24:AY:162:VAL:O	24:AY:164:MET:HG2	1.98	0.62
46:BN:39:ARG:HB2	46:BN:41:ASP:OD1	1.98	0.62
33:B8:14:VAL:HG21	33:B8:22:VAL:HG13	1.81	0.62
40:DF:177:ALA:HB1	40:DF:178:PRO:HD2	1.80	0.62
40:DF:123:LEU:CD1	40:DF:192:LEU:HD22	2.29	0.62
35:DA:2312:U:C2'	35:DA:2313:C:H5''	2.30	0.62
35:DA:965:C:C4'	35:DA:2273:A:H1'	2.30	0.62
52:BT:28:VAL:HG22	52:BT:47:GLY:N	2.14	0.62
3:CC:52:LEU:CD2	3:CC:52:LEU:H	2.11	0.62
46:BN:48:MET:N	46:BN:48:MET:HE2	2.08	0.62
40:BF:59:TYR:HE1	40:BF:85:GLY:O	1.83	0.62
39:DE:78:LEU:C	39:DE:79:ARG:HD2	2.19	0.62
35:BA:1012:U:C4	46:BN:28:THR:HG21	2.35	0.62
51:DS:89:ARG:CG	51:DS:92:TYR:HA	2.28	0.62
46:DN:23:LEU:O	46:DN:23:LEU:HD23	1.99	0.62
35:DA:2876:G:H4'	52:DT:3:ARG:NE	2.12	0.62
24:AY:416:LYS:HD3	24:AY:417:THR:N	2.15	0.62
47:DO:26:LYS:HB3	47:DO:30:ALA:HB2	1.82	0.62
27:D2:39:ALA:HA	27:D2:45:SER:HB3	1.82	0.62
38:DD:24:ILE:O	38:DD:25:THR:O	2.18	0.62
44:BK:17:ALA:HB3	44:BK:38:VAL:HG13	1.81	0.62
15:CO:56:LEU:O	15:CO:60:VAL:HG23	2.00	0.62
1:AA:383:A:H2'	1:AA:384:G:H5'	1.82	0.62
32:D7:24:THR:HG23	32:D7:27:GLY:N	2.15	0.62
1:CA:999:C:H2'	1:CA:1000:U:C5	2.34	0.62
35:BA:492:A:C2'	35:BA:493:G:H5'	2.30	0.62
13:CM:63:THR:HG22	13:CM:64:TRP:N	2.14	0.62
1:AA:203:U:H5''	1:AA:204:U:OP1	2.00	0.62
35:DA:271(R):G:O2'	35:DA:271(S):G:H5'	2.00	0.62
24:AY:460:GLU:O	24:AY:463:VAL:HB	2.00	0.62
1:AA:1415:G:H2'	1:AA:1416:G:H8	1.65	0.62
35:DA:2531:A:OP1	42:DH:177:GLY:N	2.33	0.62
35:DA:1047:G:HO2'	35:DA:1110:G:H1	1.48	0.62
40:BF:177:ALA:HB1	40:BF:178:PRO:HD2	1.82	0.62
1:CA:1144:G:H21	1:CA:1146:A:H62	1.48	0.62
46:DN:39:ARG:HB2	46:DN:41:ASP:OD1	2.00	0.62
53:DU:55:ARG:HA	53:DU:58:ARG:HG3	1.81	0.62
53:BU:92:ARG:NH1	54:BV:11:GLN:HG3	2.15	0.62
48:BP:24:GLY:CA	48:BP:33:ARG:NH1	2.63	0.62
57:BY:23:ARG:O	57:BY:24:VAL:O	2.18	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1239:A:H62	1:CA:1299:A:N6	1.97	0.62
30:B5:40:LYS:HE2	30:B5:46:CYS:HB3	1.82	0.62
35:BA:2286:A:H4'	35:BA:2287:A:C5'	2.25	0.62
38:BD:43:ARG:HD2	38:BD:44:ASN:OD1	1.99	0.62
1:CA:687:A:H62	1:CA:703:G:H1'	1.65	0.62
47:DO:18:LYS:HB2	47:DO:45:GLU:HG2	1.82	0.62
46:BN:46:VAL:HG13	46:BN:47:ALA:N	2.08	0.62
46:BN:120:LEU:HD11	46:BN:122:VAL:HG23	1.82	0.62
48:BP:96:THR:O	48:BP:99:LEU:HB3	1.99	0.62
2:AB:31:TYR:CE1	2:AB:200:ILE:HD12	2.32	0.62
42:BH:85:LYS:O	42:BH:85:LYS:HD3	1.99	0.62
42:DH:149:ARG:HA	42:DH:162:ILE:CD1	2.29	0.62
27:D2:32:LEU:O	27:D2:32:LEU:HD23	2.00	0.62
44:BK:134:MET:HG3	44:BK:136:VAL:HG12	1.82	0.62
35:BA:481:G:H2'	35:BA:507:A:N1	2.14	0.62
35:BA:781:A:C8	38:BD:219:PRO:HG3	2.35	0.62
8:AH:120:THR:HG23	8:AH:123:GLU:OE1	1.99	0.62
1:CA:332:G:O2'	1:CA:333:G:H5'	1.99	0.62
14:AN:12:ARG:O	14:AN:14:PRO:HD3	1.98	0.62
35:BA:2039:C:H2'	35:BA:2040:C:H6	1.65	0.62
27:B2:64:LEU:O	27:B2:68:ARG:HB2	1.99	0.62
50:BR:18:LEU:HD23	50:BR:18:LEU:C	2.20	0.62
1:AA:1275:A:O2'	1:AA:1276:G:H5'	1.99	0.62
20:AT:33:ILE:HD13	20:AT:63:ILE:HG12	1.82	0.62
1:CA:1279:A:H5'	1:CA:1280:A:OP1	2.00	0.62
2:AB:43:ASP:OD2	2:AB:46:LYS:HB2	2.00	0.62
1:CA:1082:G:O2'	1:CA:1083:U:H5'	2.00	0.62
33:B8:8:LYS:HE3	35:BA:245:G:O6	2.00	0.62
13:AM:63:THR:HG22	13:AM:64:TRP:N	2.14	0.62
1:CA:101:A:O2'	1:CA:102:G:H5'	2.00	0.62
35:BA:1062:G:H21	44:BK:133:SER:HA	1.63	0.62
24:CY:84:THR:N	24:CY:85:PRO:CD	2.62	0.61
24:AY:168:ILE:HD11	24:AY:178:ILE:HD11	1.82	0.61
50:BR:99:LYS:CD	50:BR:99:LYS:H	1.89	0.61
35:BA:336:C:H4'	57:BY:7:VAL:HG21	1.81	0.61
35:BA:322:A:H3'	40:BF:169:ASN:HD21	1.64	0.61
1:AA:1220:G:H2'	1:AA:1221:G:H8	1.64	0.61
1:AA:1316:G:O2'	14:AN:18:VAL:HG11	2.00	0.61
37:DC:132:LEU:HB3	37:DC:138:LEU:N	2.15	0.61
52:DT:65:LYS:CE	52:DT:66:VAL:H	2.07	0.61
51:BS:89:ARG:CG	51:BS:92:TYR:HA	2.30	0.61
52:BT:38:ASN:ND2	52:BT:40:THR:H	1.97	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
33:D8:61:LEU:CD1	33:D8:62:LEU:H	2.09	0.61
1:AA:1522:U:H2'	1:AA:1523:G:H8	1.64	0.61
48:BP:102:ARG:HB3	48:BP:102:ARG:CZ	2.30	0.61
36:BB:7:G:H5'	51:BS:29:PHE:CE1	2.34	0.61
46:DN:46:VAL:HG13	46:DN:47:ALA:N	2.08	0.61
39:DE:77:ILE:HG22	39:DE:78:LEU:CD1	2.29	0.61
56:BX:36:LYS:HB3	56:BX:56:THR:HG21	1.82	0.61
52:BT:91:ARG:O	52:BT:117:ASP:HB2	2.00	0.61
57:BY:27:VAL:HG12	57:BY:29:GLU:OE1	1.99	0.61
11:CK:59:TYR:O	11:CK:62:GLN:HB3	2.00	0.61
36:DB:68:C:H2'	36:DB:69:G:H8	1.65	0.61
35:BA:363(D):G:O2'	35:BA:363(E):U:H5'	2.00	0.61
35:BA:139(A):G:H22	56:BX:44:GLU:CD	2.02	0.61
35:DA:1775:U:C2'	35:DA:1776:G:H5'	2.30	0.61
5:AE:36:ASP:O	5:AE:37:ARG:HB2	2.00	0.61
1:AA:539:A:H2'	1:AA:540:G:C8	2.35	0.61
1:AA:1294:G:O2'	1:AA:1295:G:H5'	1.99	0.61
1:CA:1160:G:O6	1:CA:1181:G:O6	2.18	0.61
2:CB:194:PRO:O	2:CB:197:VAL:HG23	2.00	0.61
17:AQ:48:GLU:O	17:AQ:49:GLU:C	2.38	0.61
1:CA:943:U:C2'	1:CA:944:G:H5'	2.30	0.61
35:DA:1942:C:H3'	35:DA:1943:U:H5''	1.81	0.61
46:BN:14:VAL:HG11	46:BN:137:LYS:HD2	1.80	0.61
35:DA:608:A:H2'	35:DA:609:A:C8	2.35	0.61
35:BA:742:G:O2'	35:BA:743:G:H5'	1.99	0.61
15:CO:83:GLU:C	15:CO:85:LEU:H	2.03	0.61
1:CA:820:U:H4'	1:CA:821:G:OP2	1.99	0.61
35:BA:1887:C:H3'	35:BA:1888:G:H5''	1.80	0.61
10:AJ:30:SER:OG	10:AJ:81:THR:HG22	2.00	0.61
24:CY:605:ILE:CD1	24:CY:677:GLN:HG2	2.29	0.61
24:AY:117:GLN:HE22	24:AY:120:THR:HG23	1.65	0.61
57:DY:8:LYS:HE2	57:DY:72:VAL:HG23	1.82	0.61
1:AA:1002:G:H22	1:AA:1039:C:H2'	1.64	0.61
51:BS:15:ARG:HB3	51:BS:18:ILE:CD1	2.28	0.61
51:BS:98:VAL:HG12	51:BS:100:ALA:HB2	1.82	0.61
35:DA:583:G:OP2	53:DU:10:ARG:HD2	2.00	0.61
35:BA:1885:A:H8	35:BA:1885:A:H5'	1.65	0.61
35:BA:650:C:H2'	35:BA:651:G:H5''	1.82	0.61
48:BP:83:VAL:H	48:BP:115:LEU:CD2	2.12	0.61
35:DA:1815:A:OP2	35:DA:1822:G:H5''	2.00	0.61
35:BA:2712:U:HO2'	35:BA:2712(A):A:H8	0.72	0.61
15:AO:17:ARG:HD3	15:AO:26:GLU:HG3	1.82	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:CY:14:ASN:HB2	24:CY:102:ASP:OD1	2.00	0.61
51:DS:97:ARG:C	51:DS:97:ARG:NE	2.53	0.61
35:DA:1541:G:O2'	35:DA:1542:A:H5''	2.00	0.61
40:DF:133:ASN:H	40:DF:162:LEU:HD23	1.65	0.61
39:BE:4:ILE:HG13	39:BE:5:LEU:N	2.15	0.61
11:AK:34:ASP:HB2	11:AK:35:PRO:CD	2.29	0.61
9:AI:104:ARG:C	9:AI:105:ASP:N	2.54	0.61
1:CA:161:A:H2'	1:CA:162:A:H8	1.65	0.61
24:AY:647:VAL:HG21	24:AY:652:MET:SD	2.40	0.61
24:AY:655:TYR:OH	24:AY:659:LEU:HD23	1.99	0.61
24:AY:491:VAL:HG12	24:AY:492:ASP:N	2.15	0.61
39:DE:9:VAL:CG2	39:DE:10:GLY:N	2.63	0.61
35:BA:1075:C:H5'	35:BA:1076:C:OP2	2.00	0.61
35:DA:406:G:HO2'	35:DA:407:G:H8	1.48	0.61
35:DA:1887:C:H3'	35:DA:1888:G:H5''	1.80	0.61
35:BA:2774:C:H2'	35:BA:2775:A:O4'	2.00	0.61
1:AA:943:U:H2'	1:AA:944:G:H5'	1.81	0.61
35:BA:52:A:O2'	35:BA:53:A:H5'	2.01	0.61
1:AA:773:G:O2'	1:AA:774:G:H5'	1.99	0.61
39:DE:101:ARG:HH11	39:DE:169:ASN:HD22	1.47	0.61
39:DE:101:ARG:NH1	39:DE:169:ASN:HD22	1.97	0.61
24:CY:580:MET:O	24:CY:584:ILE:HG12	2.00	0.61
38:DD:153:ALA:O	38:DD:154:LYS:HG3	1.99	0.61
35:DA:1921:G:O2'	35:DA:1922:G:H5'	2.00	0.61
1:CA:1119:C:O2'	1:CA:1120:G:H5'	2.00	0.61
20:AT:42:GLN:HE21	20:AT:42:GLN:HA	1.65	0.61
35:DA:1068:G:H21	35:DA:1096:A:H5'	1.64	0.61
35:DA:2531:A:OP1	42:DH:177:GLY:C	2.39	0.61
35:BA:2312:U:C2'	35:BA:2313:C:H5''	2.30	0.61
41:BG:111:LEU:HA	41:BG:114:ILE:HD11	1.82	0.61
22:AW:18:U:H2'	22:AW:19:G:H5''	1.80	0.61
58:DZ:9:TYR:CE2	58:DZ:61:LEU:HD22	2.33	0.61
1:CA:1319:A:OP1	19:CS:10:PHE:CE1	2.53	0.61
35:BA:1504:C:C2'	35:BA:1505:C:H5''	2.30	0.61
41:DG:68:PRO:HA	41:DG:92:VAL:HG11	1.82	0.61
58:BZ:167:PRO:O	58:BZ:168:GLU:HB2	2.00	0.61
3:CC:70:VAL:CG1	3:CC:71:ALA:N	2.62	0.61
24:CY:181:LEU:HD11	24:CY:242:LEU:HB3	1.81	0.61
49:DQ:63:LYS:HA	58:DZ:178:GLU:OE1	1.99	0.61
24:CY:546:ILE:CG2	24:CY:590:ILE:HG13	2.21	0.61
35:DA:2523:G:H2'	35:DA:2524:G:C5'	2.26	0.61
33:D8:61:LEU:C	33:D8:63:PRO:HD2	2.20	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:DP:83:VAL:H	48:DP:115:LEU:CD2	2.13	0.61
42:DH:65:HIS:HE1	42:DH:69:ARG:HH11	1.46	0.61
54:BV:18:LEU:HD13	54:BV:19:LYS:N	2.15	0.61
39:BE:7:VAL:HG12	39:BE:27:LEU:HB3	1.80	0.61
42:BH:44:VAL:O	42:BH:46:GLU:HG2	2.00	0.61
2:AB:32:ILE:HD11	2:AB:40:HIS:HB3	1.82	0.61
52:DT:50:ILE:N	52:DT:50:ILE:HD12	2.15	0.61
50:BR:117:VAL:CG1	50:BR:118:GLU:N	2.64	0.61
9:CI:5:TYR:CD2	9:CI:6:GLY:N	2.65	0.61
1:AA:740:U:O2'	1:AA:741:G:H5'	2.00	0.61
4:CD:92:VAL:O	4:CD:96:LEU:HD22	2.00	0.61
42:BH:19:VAL:HG12	42:BH:20:ALA:N	2.14	0.61
12:CL:28:LYS:O	12:CL:29:GLY:C	2.38	0.61
19:CS:6:LYS:HG2	19:CS:7:LYS:CE	2.29	0.61
1:CA:192:U:H2'	1:CA:193:C:C6	2.35	0.61
35:BA:1163:G:O2'	35:BA:1164:G:H5'	2.00	0.61
24:CY:71:THR:HB	24:CY:78:ARG:NH1	2.15	0.61
9:AI:47:LEU:N	9:AI:47:LEU:CD1	2.63	0.61
35:BA:2200:C:H42	35:BA:2223:G:H1	1.48	0.61
24:AY:630:GLN:HE22	24:AY:646:PHE:HD2	1.48	0.61
35:DA:2672:G:C3'	35:DA:2673:G:H5''	2.30	0.61
4:CD:126:ILE:HD12	4:CD:126:ILE:N	2.15	0.61
1:CA:189:G:H2'	1:CA:189(A):C:C6	2.35	0.61
1:AA:723:U:H5'	1:AA:724:G:OP2	2.00	0.61
57:BY:55:TYR:CD2	57:BY:55:TYR:N	2.68	0.61
57:BY:55:TYR:N	57:BY:55:TYR:HD2	1.98	0.61
35:BA:271(R):G:O2'	35:BA:271(S):G:H5'	2.00	0.61
1:CA:812:C:HO2'	1:CA:813:U:P	2.23	0.61
41:DG:9:ARG:HG2	41:DG:13:GLU:OE1	2.00	0.61
57:DY:55:TYR:HD2	57:DY:55:TYR:N	1.98	0.61
35:BA:1943:U:H2'	35:BA:1943:U:O2	2.00	0.61
35:DA:1649:G:O2'	35:DA:1650:G:H5'	2.00	0.61
12:AL:126:LYS:HG3	12:AL:128:ALA:H	1.64	0.61
35:BA:311:A:H5'	35:BA:332:A:C2	2.36	0.61
37:DC:191:ARG:HH11	37:DC:191:ARG:HG3	1.64	0.61
47:BO:91:LEU:N	47:BO:91:LEU:HD22	2.15	0.61
35:DA:55:G:H2'	35:DA:56:A:H8	1.64	0.61
30:B5:19:ARG:HA	35:BA:2046:G:C5'	2.29	0.61
22:AW:37:U:H3	23:AX:13:A:N6	1.98	0.61
9:CI:4:TYR:CE2	9:CI:88:TYR:HB2	2.36	0.61
9:AI:4:TYR:CE2	9:AI:88:TYR:HB2	2.35	0.61
37:DC:115:VAL:HA	37:DC:145:THR:HG22	1.82	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:B0:16:SER:HB2	35:BA:2262:U:C5	2.34	0.61
48:DP:91:PHE:N	48:DP:91:PHE:CD1	2.69	0.61
35:BA:1142(A):A:O2'	35:BA:1143:A:H5''	2.00	0.61
52:DT:91:ARG:O	52:DT:117:ASP:HB2	2.00	0.61
30:B5:36:CYS:SG	30:B5:38:ALA:HB3	2.40	0.61
35:DA:1062:G:H21	44:DK:133:SER:HA	1.65	0.61
24:AY:337:SER:HA	24:AY:355:LEU:HD23	1.80	0.61
52:DT:42:ILE:HG13	52:DT:42:ILE:O	2.00	0.61
1:CA:254:G:OP1	17:CQ:67:LYS:O	2.18	0.61
35:DA:1827:C:O2'	35:DA:1828:G:H5'	1.99	0.61
35:BA:480:A:OP2	57:BY:46:LYS:HE2	2.00	0.61
10:AJ:61:GLU:OE2	14:AN:45:ARG:HD2	2.00	0.61
39:DE:4:ILE:HG13	39:DE:5:LEU:N	2.16	0.61
22:CV:21:A:N6	22:CV:46:G:H2'	2.14	0.61
35:DA:364:C:H2'	35:DA:365:C:C5'	2.30	0.61
35:DA:1516:C:H2'	35:DA:1517:G:C5'	2.30	0.61
35:DA:286:C:H2'	35:DA:287:C:C6	2.35	0.61
44:DK:134:MET:HG3	44:DK:136:VAL:HG12	1.81	0.61
35:BA:1775:U:H2'	35:BA:1776:G:C5'	2.30	0.61
24:CY:416:LYS:HG2	24:CY:417:THR:H	1.64	0.61
1:AA:59:A:N3	1:AA:59:A:H2'	2.14	0.61
52:BT:35:LYS:NZ	52:BT:41:ARG:HH11	1.98	0.61
5:CE:36:ASP:OD1	5:CE:38:GLN:N	2.26	0.61
35:DA:603:A:H4'	35:DA:604:G:O5'	1.99	0.61
57:DY:55:TYR:CD2	57:DY:55:TYR:N	2.69	0.61
12:CL:126:LYS:HG3	12:CL:128:ALA:H	1.64	0.61
11:AK:18:ARG:HH21	11:AK:37:GLY:N	1.98	0.61
48:BP:124:LYS:HD3	48:BP:143:GLY:HA3	1.81	0.61
22:AW:17:C:H5'	22:AW:62:C:OP1	2.01	0.61
24:AY:603:GLU:O	24:AY:676:TYR:HA	2.00	0.61
35:BA:1510:G:O2'	35:BA:1511:C:H5'	2.00	0.61
55:BW:9:TYR:H	55:BW:102:HIS:HD2	1.48	0.61
35:BA:1068:G:H21	35:BA:1096:A:H5'	1.65	0.61
4:AD:10:ARG:O	4:AD:13:ARG:HB2	1.99	0.61
4:AD:26:CYS:HA	4:AD:31:CYS:HA	1.83	0.61
35:BA:1748:G:H2'	35:BA:1749:A:O4'	2.00	0.61
61:AY:702:FUA:O2	61:AY:702:FUA:H211	2.00	0.61
13:CM:4:ILE:HG22	13:CM:5:ALA:N	2.14	0.61
47:BO:64:ARG:O	47:BO:82:ASN:HA	2.00	0.61
35:BA:2345:G:O2'	35:BA:2381:C:H2'	2.00	0.61
35:DA:2286:A:H4'	35:DA:2287:A:C5'	2.26	0.61
49:DQ:56:ARG:HA	49:DQ:56:ARG:HE	1.65	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:BF:16:GLY:O	40:BF:17:ARG:HG3	2.00	0.61
47:BO:87:ILE:HD13	47:BO:87:ILE:N	2.15	0.61
56:DX:36:LYS:HB3	56:DX:56:THR:HG21	1.83	0.61
39:BE:78:LEU:C	39:BE:79:ARG:HD2	2.20	0.61
35:BA:2443:C:H2'	35:BA:2443:C:O2	2.00	0.61
50:BR:45:ARG:HG3	50:BR:46:GLY:N	2.12	0.61
19:CS:31:ILE:HG23	19:CS:49:ILE:HG23	1.83	0.61
39:BE:184:VAL:O	39:BE:186:GLY:N	2.29	0.61
38:DD:241:PRO:C	38:DD:242:ARG:HG3	2.20	0.61
24:CY:510:VAL:CG1	24:CY:567:LEU:HD13	2.30	0.61
35:DA:11:G:H2'	35:DA:12:U:C6	2.35	0.61
51:DS:98:VAL:HG12	51:DS:100:ALA:N	2.16	0.61
35:BA:1578:U:C2'	35:BA:1579:A:H5''	2.31	0.61
35:BA:1516:C:C2'	35:BA:1517:G:H5''	2.30	0.61
35:BA:2672:G:C3'	35:BA:2673:G:H5''	2.30	0.61
40:DF:89:VAL:HG12	40:DF:90:PHE:H	1.65	0.61
35:BA:570:G:H2'	35:BA:2030:A:N7	2.16	0.61
25:B0:24:LYS:O	25:B0:25:ARG:HD3	2.01	0.61
51:DS:19:LYS:O	51:DS:20:ARG:NH2	2.33	0.61
35:BA:528:A:H2	35:BA:2043:C:C4'	2.13	0.61
35:DA:2040:C:H2'	35:DA:2041:U:C6	2.36	0.61
48:DP:80:TYR:CD1	48:DP:111:ARG:HB3	2.35	0.61
35:BA:272(B):G:H2'	35:BA:272(C):G:C8	2.34	0.61
38:BD:11:PRO:C	38:BD:13:ARG:H	2.04	0.61
52:DT:35:LYS:NZ	52:DT:41:ARG:NH1	2.47	0.61
1:CA:954:G:H2'	1:CA:955:U:C6	2.35	0.61
20:AT:29:LYS:O	20:AT:33:ILE:HG13	2.00	0.61
24:CY:355:LEU:HD12	24:CY:369:LEU:HD13	1.81	0.61
1:CA:1423:G:C5'	47:DO:49:ARG:HH22	2.14	0.61
1:CA:22:G:O2'	1:CA:23:C:H5'	2.01	0.61
35:DA:764:A:N3	38:DD:213:ARG:NH1	2.49	0.61
2:AB:61:LEU:HD23	2:AB:68:ILE:HD11	1.83	0.61
36:BB:54:G:O2'	36:BB:55:U:H5'	2.00	0.61
24:AY:443:HIS:CE1	24:AY:445:GLU:HB2	2.36	0.61
45:BL:100:UNK:O	45:BL:101:UNK:CB	2.49	0.61
6:AF:36:ARG:CZ	6:AF:36:ARG:HB3	2.30	0.61
35:BA:422:A:H2'	35:BA:423:A:C8	2.35	0.61
47:DO:97:ARG:HG3	47:DO:97:ARG:HH11	1.64	0.61
35:BA:1523:U:H2'	35:BA:1524:G:C8	2.35	0.61
41:BG:98:ARG:CG	41:BG:98:ARG:HH11	2.13	0.61
1:CA:1128:C:H2'	1:CA:1129:C:C5'	2.25	0.61
33:B8:47:LYS:NZ	33:B8:49:VAL:HG13	2.15	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:DT:65:LYS:HZ1	52:DT:65:LYS:HA	1.65	0.61
31:D6:15:GLU:CG	31:D6:47:THR:HG21	2.31	0.61
50:BR:78:LYS:O	50:BR:83:ILE:HG12	2.01	0.61
46:BN:133:GLN:HG2	46:BN:134:ARG:N	2.16	0.61
48:DP:102:ARG:HB3	48:DP:102:ARG:CZ	2.30	0.61
33:B8:6:THR:HG22	33:B8:63:PRO:HD3	1.81	0.61
19:AS:14:HIS:CD2	19:AS:15:LEU:HD23	2.36	0.61
47:BO:47:ILE:HG22	47:BO:48:PRO:HD2	1.82	0.61
35:DA:2175:C:H1'	37:DC:218:THR:O	1.99	0.61
39:BE:8:LYS:O	39:BE:193:GLY:N	2.31	0.61
42:DH:44:VAL:O	42:DH:46:GLU:HG2	2.01	0.61
49:DQ:43:THR:O	49:DQ:47:ILE:HG13	2.00	0.61
1:CA:301:G:O2'	1:CA:302:G:H5'	2.00	0.61
35:DA:1114:G:H2'	35:DA:1115:G:H5'	1.82	0.61
9:CI:104:ARG:C	9:CI:105:ASP:N	2.54	0.61
3:AC:150:LYS:HB2	3:AC:169:ALA:HB2	1.83	0.61
38:BD:146:GLU:HG2	38:BD:152:GLY:C	2.20	0.61
24:AY:67:ALA:HB1	24:AY:327:PHE:HZ	1.66	0.61
35:DA:1389:G:H2'	35:DA:1390:U:C6	2.36	0.61
1:AA:1269:A:C2	1:AA:1313:U:O4'	2.53	0.61
3:AC:142:MET:CE	3:AC:171:GLY:HA3	2.30	0.61
37:DC:101:ILE:HD12	37:DC:101:ILE:H	1.65	0.61
4:CD:61:LYS:HD3	4:CD:206:PHE:CE2	2.35	0.61
1:AA:1348:U:H4'	9:AI:120:ARG:HG3	1.82	0.61
24:AY:491:VAL:HG12	24:AY:492:ASP:H	1.65	0.61
51:BS:19:LYS:O	51:BS:20:ARG:NH2	2.33	0.61
35:DA:759:G:H2'	35:DA:760:G:H8	1.64	0.61
1:AA:160:A:H1'	1:AA:344:A:C8	2.35	0.61
24:CY:553:GLY:N	24:CY:557:GLY:HA2	2.15	0.61
44:BK:37:PHE:O	44:BK:41:PHE:HB3	2.01	0.61
13:CM:10:PRO:HG2	13:CM:11:ARG:H	1.65	0.61
38:DD:10:THR:HG23	38:DD:13:ARG:HB3	1.81	0.61
13:CM:74:VAL:HA	13:CM:77:ASN:HD22	1.64	0.61
35:BA:30:G:O2'	35:BA:31:C:H5'	2.00	0.61
58:BZ:3:TYR:CE2	58:BZ:51:ALA:HB2	2.36	0.61
35:BA:2037:G:H2'	35:BA:2038:G:C8	2.36	0.61
37:DC:73:VAL:HG11	37:DC:158:LYS:HA	1.83	0.61
38:DD:166:GLN:HE21	38:DD:166:GLN:HA	1.66	0.61
35:DA:2603:G:O2'	35:DA:2604:U:H5'	2.01	0.61
41:BG:56:ALA:HA	41:BG:59:GLU:OE1	1.99	0.61
35:BA:1326:U:O2'	35:BA:1327:C:H5'	2.01	0.61
24:AY:84:THR:O	24:AY:85:PRO:C	2.39	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:DN:41:ASP:C	53:DU:64:ARG:HH22	2.03	0.61
35:DA:184:C:H2'	35:DA:185:U:H6	1.63	0.61
31:B6:28:ARG:CB	31:B6:28:ARG:HH11	2.13	0.61
57:DY:23:ARG:O	57:DY:24:VAL:O	2.18	0.61
35:BA:272(J):C:C3'	35:BA:274:G:H5''	2.26	0.61
35:BA:1504:C:C3'	35:BA:1505:C:H5''	2.31	0.61
31:D6:28:ARG:CB	31:D6:28:ARG:HH11	2.13	0.61
30:D5:40:LYS:HZ3	30:D5:46:CYS:H	1.47	0.61
41:BG:157:ILE:HG22	41:BG:158:ALA:N	2.14	0.61
40:BF:7:TYR:HD2	40:BF:16:GLY:CA	2.13	0.61
26:B1:56:GLN:OE1	26:B1:85:LEU:HD23	2.01	0.61
51:DS:88:ASP:CG	51:DS:89:ARG:N	2.54	0.61
22:CW:14:A:H3'	22:CW:15:G:H5''	1.83	0.61
38:BD:267:SER:HA	38:BD:270:ILE:HD11	1.83	0.61
52:BT:29:ARG:HD3	52:BT:86:ILE:HG22	1.82	0.61
6:CF:68:PRO:HG2	6:CF:71:ARG:HB2	1.82	0.61
5:AE:64:ARG:HH11	5:AE:64:ARG:CG	2.11	0.61
16:AP:14:ASN:N	16:AP:15:PRO:HD3	2.15	0.61
1:CA:1124:G:H5'	10:CJ:35:SER:HB2	1.82	0.61
37:BC:101:ILE:H	37:BC:101:ILE:HD12	1.66	0.61
4:AD:58:LEU:HD23	4:AD:58:LEU:C	2.21	0.61
24:CY:117:GLN:NE2	24:CY:120:THR:HG23	2.15	0.61
35:BA:1389:G:H2'	35:BA:1390:U:C6	2.35	0.61
36:BB:68:C:H2'	36:BB:69:G:H8	1.65	0.61
1:AA:673:G:H2'	1:AA:674:G:C8	2.35	0.61
35:BA:2454:G:O2'	35:BA:2455:G:H5'	2.01	0.61
12:CL:34:ARG:HG3	12:CL:105:TYR:CE1	2.36	0.61
1:AA:1347:G:H3'	9:AI:108:VAL:O	2.00	0.61
28:D3:4:LEU:HD11	28:D3:39:ASP:OD1	2.00	0.61
49:BQ:27:VAL:HG12	49:BQ:28:ALA:N	2.16	0.61
1:AA:1160:G:O6	1:AA:1181:G:O6	2.18	0.61
24:AY:402:ILE:HD12	24:AY:402:ILE:H	1.65	0.61
4:AD:126:ILE:HD12	4:AD:126:ILE:N	2.16	0.61
1:CA:513:C:O2'	1:CA:514:C:H5'	2.01	0.61
38:DD:11:PRO:O	38:DD:13:ARG:N	2.33	0.61
17:AQ:57:VAL:HG23	17:AQ:58:GLU:N	2.16	0.61
35:DA:1416:G:HO2'	35:DA:1417:C:H5	1.48	0.61
35:BA:2839:G:H1	35:BA:2878:U:H3	1.49	0.61
1:CA:1208:C:H2'	1:CA:1209:C:C6	2.36	0.61
35:DA:1322:A:OP1	55:DW:11:ARG:HG3	2.01	0.61
12:AL:69:TYR:O	12:AL:71:PRO:HD3	2.00	0.61
24:AY:457:LEU:O	24:AY:461:ILE:HG13	2.01	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:AM:83:ASP:CG	13:AM:84:ILE:H	2.03	0.61
42:DH:169:VAL:HG22	42:DH:170:ARG:N	2.12	0.61
48:DP:9:ASN:H	48:DP:10:PRO:HD2	1.65	0.61
22:AW:37:U:H3	23:AX:13:A:H62	1.49	0.61
40:BF:28:ILE:O	40:BF:30:PRO:HD3	2.00	0.61
31:D6:35:GLU:HB3	31:D6:51:GLU:HB2	1.83	0.61
31:D6:54:ILE:HD13	35:DA:2420:C:H4'	1.82	0.61
35:DA:252:G:OP2	48:DP:50:ARG:NH1	2.34	0.61
30:D5:40:LYS:HD3	30:D5:44:THR:HB	1.83	0.61
53:DU:19:LYS:HB3	53:DU:20:LEU:HD22	1.82	0.61
35:BA:240:G:C3'	35:BA:241:A:H5''	2.29	0.61
29:D4:2:LYS:HG2	36:DB:44:G:OP2	2.01	0.61
51:DS:89:ARG:HH11	51:DS:89:ARG:HG2	1.66	0.61
1:AA:974:A:H8	1:AA:974:A:OP1	1.82	0.61
30:B5:48:GLU:O	30:B5:49:CYS:CB	2.49	0.61
29:D4:56:VAL:O	29:D4:57:GLU:HB2	1.99	0.61
2:CB:31:TYR:CE1	2:CB:200:ILE:HD12	2.34	0.61
49:BQ:59:ARG:HB3	58:BZ:180:VAL:CG2	2.31	0.61
24:CY:491:VAL:CG1	24:CY:492:ASP:H	2.12	0.61
1:AA:1524:C:H2'	1:AA:1525:G:C8	2.36	0.61
42:DH:30:LYS:CD	42:DH:81:GLU:HG2	2.30	0.61
25:B0:43:THR:HG22	35:BA:2331:G:O3'	1.99	0.61
24:CY:66:THR:O	24:CY:67:ALA:HB2	2.00	0.61
24:AY:530:VAL:HG13	24:AY:531:GLY:N	2.16	0.61
12:CL:47:LYS:HB3	12:CL:48:PRO:HD3	1.83	0.61
57:DY:31:LEU:HB2	57:DY:32:PRO:CA	2.31	0.61
55:DW:109:GLU:CD	55:DW:109:GLU:H	2.04	0.61
27:D2:58:ALA:CB	35:DA:76:C:H4'	2.31	0.61
35:DA:693:C:O2'	35:DA:694:U:H5'	2.01	0.61
37:BC:138:LEU:HD22	37:BC:139:PRO:HD2	1.83	0.61
35:DA:1638:C:H2'	35:DA:1639:U:O4'	2.01	0.61
42:DH:86:GLU:HA	42:DH:132:ARG:HA	1.82	0.61
2:AB:194:PRO:O	2:AB:197:VAL:HG23	2.00	0.61
35:BA:2832:U:H1'	35:BA:2834:G:C2	2.36	0.61
1:AA:943:U:C2'	1:AA:944:G:H5'	2.30	0.61
35:DA:1094:U:H2'	35:DA:1096:A:OP2	2.01	0.61
35:DA:1930:G:O2'	35:DA:1931:U:P	2.57	0.61
35:DA:1064:C:H4'	44:DK:89:HIS:HD2	1.64	0.61
35:DA:1441:G:H2'	35:DA:1442:G:H8	1.64	0.61
1:CA:487:A:H2'	1:CA:488:C:O4'	2.01	0.61
37:BC:211:ARG:HG3	37:BC:211:ARG:HH11	1.66	0.61
4:CD:30:LYS:C	4:CD:32:ALA:N	2.48	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:215:LYS:HA	24:AY:218:GLU:HB3	1.82	0.61
48:BP:9:ASN:H	48:BP:10:PRO:HD2	1.65	0.61
22:AW:60:A:H2'	22:AW:61:U:H5'	1.81	0.61
48:BP:30:THR:CG2	48:BP:31:ALA:H	2.07	0.61
31:D6:35:GLU:HA	31:D6:35:GLU:OE1	2.00	0.61
41:BG:125:PHE:HB3	41:BG:166:ASP:HB3	1.82	0.61
51:BS:67:ARG:HB3	51:BS:71:ARG:NH2	2.16	0.61
35:BA:813:U:H2'	35:BA:814:C:H6	1.66	0.61
35:DA:811:U:O2'	35:DA:812:C:H5''	2.01	0.61
48:DP:24:GLY:HA2	48:DP:33:ARG:NH1	2.16	0.61
26:B1:73:LEU:CD2	26:B1:94:LEU:HD23	2.31	0.61
35:DA:2454:G:C2'	35:DA:2455:G:H5'	2.30	0.61
46:DN:43:THR:HB	46:DN:46:VAL:HG11	1.82	0.61
46:DN:46:VAL:O	46:DN:47:ALA:HB3	2.01	0.61
44:BK:103:GLN:O	44:BK:106:GLU:HG2	2.00	0.61
12:CL:84:LEU:HD23	12:CL:101:VAL:HG21	1.82	0.61
35:BA:2298:A:H62	35:BA:2318:G:H8	1.49	0.61
24:AY:82:ILE:HD12	24:AY:101:LEU:CD2	2.31	0.61
2:CB:220:ASP:O	2:CB:223:ILE:N	2.34	0.61
36:DB:91:C:O2'	36:DB:92:C:H5'	2.01	0.61
35:DA:2186:G:C3'	35:DA:2187:G:H5''	2.31	0.61
42:BH:41:MET:HG2	42:BH:43:VAL:HG13	1.83	0.61
42:DH:44:VAL:O	42:DH:50:VAL:HG13	2.01	0.61
50:DR:117:VAL:CG1	50:DR:118:GLU:N	2.63	0.61
1:CA:1432:G:OP1	52:DT:107:ASP:HB2	1.99	0.61
4:AD:107:ARG:HH21	4:AD:194:LEU:CD1	2.14	0.61
35:BA:1993:U:H4'	39:BE:128:SER:OG	2.00	0.61
5:AE:60:TYR:CE1	5:AE:64:ARG:NH2	2.68	0.61
35:DA:11:G:H22	35:DA:2628:C:P	2.24	0.61
34:D9:29:ASN:O	34:D9:29:ASN:ND2	2.33	0.61
23:AX:17:U:O2'	23:AX:18:G:H5'	2.01	0.61
30:D5:27:PRO:CG	55:DW:23:LEU:HD11	2.31	0.61
4:AD:176:LEU:HD12	4:AD:177:ASP:H	1.66	0.61
35:DA:589:C:O2'	35:DA:590:A:H5'	2.01	0.61
35:BA:2151:G:O2'	35:BA:2152:G:H5'	2.01	0.61
24:CY:315:LYS:HZ3	24:CY:317:MET:HG2	1.66	0.61
22:AV:3:C:H42	22:AV:70:G:H1	1.47	0.61
22:AW:75:C:H5'	22:AW:75:C:H6	1.66	0.61
12:AL:119:LYS:O	12:AL:120:TYR:HB2	2.01	0.61
4:CD:126:ILE:HG22	4:CD:127:THR:N	2.15	0.61
35:DA:986:C:O2'	35:DA:987:G:H5'	2.01	0.61
35:DA:2009:G:H1'	50:DR:107:ASP:O	2.00	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:DD:134:ARG:HG3	38:DD:135:PHE:CD1	2.36	0.61
35:DA:30:G:O2'	35:DA:31:C:H5'	2.01	0.61
1:AA:100:C:H2'	1:AA:101:A:C8	2.36	0.61
1:AA:101:A:O2'	1:AA:102:G:H5'	2.00	0.61
35:DA:2774:C:H2'	35:DA:2775:A:O4'	2.00	0.61
52:BT:134:GLU:O	52:BT:135:ALA:HB2	2.00	0.61
5:AE:43:LEU:HD21	5:AE:132:ALA:HB1	1.82	0.61
35:BA:1525:G:H2'	35:BA:1526:G:C8	2.36	0.61
41:BG:39:ILE:CG1	41:BG:92:VAL:HG22	2.30	0.61
24:AY:238:THR:CG2	24:AY:241:GLU:H	2.14	0.61
54:BV:39:LEU:HD12	54:BV:50:PRO:O	2.01	0.61
1:CA:1314:C:H2'	1:CA:1315:U:C6	2.36	0.61
57:DY:88:LYS:HZ3	57:DY:93:GLY:C	2.04	0.61
22:AV:46:G:O3'	22:AV:47:U:C6	2.51	0.61
30:B5:40:LYS:HZ3	30:B5:46:CYS:H	1.47	0.61
52:DT:28:VAL:HG22	52:DT:47:GLY:N	2.16	0.61
31:D6:15:GLU:CB	31:D6:47:THR:HG21	2.31	0.61
35:BA:514:A:H2'	35:BA:515:A:C8	2.36	0.61
47:BO:114:ILE:HD12	47:BO:114:ILE:N	2.14	0.61
18:CR:37:VAL:CG2	18:CR:38:GLU:H	2.07	0.61
24:CY:341:VAL:HG23	24:CY:342:TYR:N	2.15	0.61
48:BP:84:ASN:C	48:BP:86:LYS:H	2.04	0.61
26:B1:45:ASN:CB	35:BA:2230:G:H1'	2.28	0.61
44:BK:3:LYS:HD3	44:BK:29:GLN:HG2	1.82	0.61
35:DA:2712:U:H1'	35:DA:2712(A):A:C8	2.36	0.61
1:AA:1226:C:N4	13:AM:104:ARG:HD2	2.16	0.61
25:D0:43:THR:HG22	35:DA:2331:G:O3'	2.01	0.61
24:CY:281:PRO:HB2	24:CY:286:ILE:CD1	2.31	0.61
35:BA:2000:G:O2'	35:BA:2001:A:H5'	2.01	0.61
34:D9:1:MET:O	34:D9:34:GLN:HG2	2.01	0.61
39:BE:44:TYR:O	39:BE:45:THR:HB	1.99	0.61
36:BB:112:U:H2'	36:BB:113:G:C8	2.34	0.61
35:BA:1516:C:H2'	35:BA:1517:G:C5'	2.30	0.61
35:DA:2069:G:O2'	35:DA:2070:G:H5'	2.01	0.61
35:DA:2021:C:H4'	35:DA:2022:U:OP2	2.01	0.61
35:BA:364:C:H2'	35:BA:365:C:C5'	2.30	0.61
35:BA:2573:C:H2'	35:BA:2573:C:O2	2.00	0.61
35:BA:1775:U:C2'	35:BA:1776:G:H5'	2.31	0.61
3:AC:110:ASN:OD1	3:AC:140:ARG:HD2	2.01	0.61
1:CA:1478:C:H2'	1:CA:1479:C:H6	1.64	0.61
24:CY:438:PHE:C	24:CY:438:PHE:CD2	2.74	0.61
35:BA:1717:G:H2'	35:BA:1718:G:H5"	1.81	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:710:G:H1	35:BA:721:C:H42	1.47	0.61
54:DV:2:PHE:O	54:DV:3:ALA:HB3	2.01	0.61
37:DC:71:LYS:HG2	37:DC:72:GLN:H	1.66	0.61
20:AT:36:LEU:HD12	20:AT:59:ALA:HB2	1.82	0.61
1:AA:54:C:H2'	1:AA:352:C:H41	1.66	0.61
35:DA:1105:U:H2'	35:DA:1106:G:O4'	2.00	0.61
35:BA:1297:C:H2'	35:BA:1298:C:H6	1.66	0.61
35:DA:537:C:H2'	35:DA:538:G:H8	1.65	0.61
34:D9:22:ARG:HB2	34:D9:24:TYR:HE1	1.66	0.61
1:AA:882:C:O2'	1:AA:883:C:H5'	2.00	0.61
30:B5:20:ARG:HG2	30:B5:23:HIS:CD2	2.35	0.61
24:AY:634:MET:HA	24:AY:642:VAL:O	2.01	0.61
3:AC:99:VAL:HG23	3:AC:99:VAL:O	2.01	0.61
3:AC:148:GLY:HA3	3:AC:172:ARG:O	2.01	0.61
1:CA:505:G:H2'	1:CA:506:G:H8	1.66	0.61
42:DH:153:LYS:HG3	42:DH:154:PRO:CD	2.31	0.60
35:BA:2312:U:OP1	41:BG:73:ALA:HA	2.00	0.60
4:CD:15:GLU:O	4:CD:17:VAL:HG23	2.00	0.60
35:DA:1658:C:OP1	39:DE:132:HIS:O	2.19	0.60
24:AY:122:TRP:C	24:AY:124:GLN:H	2.03	0.60
48:BP:24:GLY:HA2	48:BP:33:ARG:NH1	2.16	0.60
57:BY:28:LYS:O	57:BY:38:ILE:HG22	2.00	0.60
40:DF:181:LEU:HB3	40:DF:205:ARG:HH11	1.65	0.60
29:D4:9:LEU:CD2	41:DG:65:GLY:HA3	2.31	0.60
35:BA:1080:C:O2'	44:BK:126:MET:HG3	2.01	0.60
24:CY:153:MET:O	24:CY:157:LEU:HG	2.01	0.60
35:DA:1885:A:H5'	35:DA:1885:A:H8	1.65	0.60
46:BN:128:HIS:HE1	46:BN:134:ARG:HH11	1.47	0.60
46:BN:134:ARG:O	46:BN:136:GLU:N	2.31	0.60
48:BP:146:VAL:O	48:BP:148:LEU:N	2.34	0.60
1:AA:687:A:N6	1:AA:703:G:H1'	2.14	0.60
35:DA:2891:G:H4'	35:DA:2892:A:OP1	2.01	0.60
35:BA:1493:C:C4	35:BA:2206:G:O2'	2.53	0.60
41:DG:107:LEU:HD11	41:DG:178:PHE:HE1	1.65	0.60
20:AT:45:GLN:HA	20:AT:91:LEU:HB3	1.82	0.60
36:DB:92:C:H2'	36:DB:93:G:H8	1.65	0.60
49:BQ:60:ARG:HB2	49:BQ:60:ARG:NH1	2.16	0.60
2:CB:32:ILE:HD11	2:CB:40:HIS:HB3	1.83	0.60
26:D1:80:LEU:CD2	26:D1:81:LYS:H	2.14	0.60
52:DT:10:VAL:O	52:DT:12:SER:N	2.34	0.60
42:DH:85:LYS:HD3	42:DH:85:LYS:O	2.01	0.60
40:BF:63:LYS:HG3	40:BF:76:GLY:HA2	1.83	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:B0:42:GLY:HA3	35:BA:2331:G:O4'	2.00	0.60
1:CA:390:C:H2'	1:CA:391:G:H8	1.66	0.60
1:CA:390:C:O3'	16:CP:28:ARG:NH2	2.33	0.60
35:DA:2151:G:O2'	35:DA:2152:G:H5'	2.01	0.60
20:AT:50:GLU:HB3	20:AT:99:LEU:HB2	1.82	0.60
18:CR:74:ARG:HD3	18:CR:81:PHE:CD2	2.36	0.60
44:BK:78:ILE:HD11	44:BK:136:VAL:HG11	1.83	0.60
40:BF:89:VAL:HG12	40:BF:90:PHE:H	1.66	0.60
7:AG:7:ALA:O	7:AG:8:GLU:HB2	1.99	0.60
35:DA:1833:U:H2'	35:DA:1834:U:H6	1.66	0.60
35:BA:321:G:C2	35:BA:341:G:H4'	2.36	0.60
1:CA:1425:U:O2'	1:CA:1426:C:H5'	2.01	0.60
1:AA:339:C:OP2	47:BO:97:ARG:NH1	2.34	0.60
1:AA:487:A:H2'	1:AA:488:C:O4'	2.01	0.60
1:CA:1275:A:O2'	1:CA:1276:G:H5'	2.01	0.60
1:AA:1314:C:H2'	1:AA:1315:U:C6	2.36	0.60
55:BW:95:ILE:O	55:BW:95:ILE:HG13	2.00	0.60
55:DW:95:ILE:O	55:DW:95:ILE:HG13	1.99	0.60
22:AW:15:G:H21	22:AW:22:A:H1'	1.66	0.60
61:AY:702:FUA:H12	61:AY:702:FUA:O1	2.00	0.60
57:DY:88:LYS:NZ	57:DY:93:GLY:O	2.31	0.60
40:DF:185:ASP:OD1	40:DF:188:ARG:HD3	2.01	0.60
33:D8:30:ARG:O	33:D8:31:HIS:HB3	2.02	0.60
52:BT:28:VAL:HG22	52:BT:47:GLY:H	1.66	0.60
5:AE:78:HIS:O	5:AE:93:PRO:HD3	2.01	0.60
35:BA:2056:G:H2'	35:BA:2056:G:N3	2.14	0.60
40:DF:9:ILE:HG23	40:DF:13:SER:O	2.00	0.60
31:B6:15:GLU:OE2	31:B6:20:ASN:ND2	2.33	0.60
3:CC:94:LEU:O	3:CC:95:THR:HG23	2.01	0.60
35:DA:779:U:OP1	38:DD:49:ILE:HG23	2.00	0.60
35:BA:2262:U:C2'	35:BA:2263:C:H5''	2.32	0.60
6:CF:38:GLU:O	6:CF:39:LYS:O	2.18	0.60
35:DA:2259:G:O2'	35:DA:2260:C:H5'	2.01	0.60
35:DA:2712:U:O2'	35:DA:2712(A):A:O5'	2.19	0.60
13:CM:90:LEU:O	13:CM:91:ARG:C	2.40	0.60
40:DF:63:LYS:HG3	40:DF:76:GLY:HA2	1.82	0.60
35:DA:622:G:O2'	35:DA:623:G:H5'	2.01	0.60
11:AK:59:TYR:O	11:AK:62:GLN:HB3	2.01	0.60
3:CC:14:ILE:O	3:CC:15:THR:HB	2.01	0.60
49:DQ:21:THR:HG23	49:DQ:101:ARG:HB2	1.82	0.60
35:DA:481:G:H2'	35:DA:507:A:N1	2.16	0.60
1:CA:1132:C:O2'	1:CA:1133:G:H5'	2.00	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:DD:76:PRO:HG2	38:DD:98:VAL:CG2	2.31	0.60
46:DN:55:VAL:HG21	46:DN:127:ASP:N	2.16	0.60
14:AN:16:PHE:N	14:AN:16:PHE:CD1	2.62	0.60
38:BD:166:GLN:CA	38:BD:166:GLN:HE21	2.13	0.60
35:BA:1125:G:H3'	35:BA:1126:A:H5''	1.83	0.60
35:DA:605:C:H2'	35:DA:606:U:H6	1.66	0.60
1:AA:165:C:O2'	1:AA:166:G:H5'	2.01	0.60
49:DQ:11:LYS:NZ	49:DQ:88:GLY:O	2.34	0.60
1:AA:41:G:H2'	1:AA:42:G:C8	2.36	0.60
35:BA:11:G:H2'	35:BA:12:U:C6	2.35	0.60
24:CY:187:THR:HG22	24:CY:197:ARG:O	2.01	0.60
52:DT:134:GLU:O	52:DT:135:ALA:HB2	1.99	0.60
38:BD:148:GLU:HB2	38:BD:151:LYS:HG3	1.83	0.60
35:BA:134:C:H2'	35:BA:135:G:H8	1.64	0.60
40:DF:28:ILE:O	40:DF:30:PRO:HD3	2.01	0.60
4:CD:18:LYS:C	4:CD:19:LEU:HD12	2.22	0.60
9:AI:3:GLN:NE2	9:AI:20:ARG:HH21	1.99	0.60
40:DF:154:VAL:HG13	40:DF:191:ARG:O	2.01	0.60
33:D8:51:ALA:C	33:D8:53:PRO:HD2	2.22	0.60
41:DG:110:ALA:CB	41:DG:140:ILE:HD13	2.32	0.60
1:CA:1303:C:C2'	1:CA:1304:G:H5'	2.31	0.60
47:DO:87:ILE:HD13	47:DO:87:ILE:N	2.16	0.60
24:CY:28:THR:O	24:CY:32:ILE:HG13	2.01	0.60
2:CB:155:LEU:HD13	2:CB:155:LEU:C	2.21	0.60
41:DG:122:PRO:HG2	41:DG:123:ASN:OD1	2.01	0.60
52:BT:30:VAL:HG21	52:BT:83:ILE:HG12	1.83	0.60
35:DA:2762:G:H8	35:DA:2762:G:H5'	1.67	0.60
12:CL:41:ARG:NH1	12:CL:41:ARG:HB3	2.13	0.60
52:DT:57:PHE:C	52:DT:58:ASN:HD22	2.04	0.60
46:BN:67:LEU:HB3	46:BN:88:GLU:HG3	1.81	0.60
52:BT:50:ILE:HD12	52:BT:50:ILE:N	2.16	0.60
1:AA:769:G:H4'	1:AA:1513:A:H4'	1.82	0.60
35:BA:797:C:OP1	40:BF:62:ARG:HG3	2.01	0.60
39:BE:98:PRO:HG3	39:BE:175:VAL:HG12	1.82	0.60
35:DA:2462:U:H2'	35:DA:2463:C:H6	1.66	0.60
46:DN:65:LYS:HA	46:DN:65:LYS:HZ3	1.67	0.60
1:AA:1117:G:H8	1:AA:1117:G:H5'	1.64	0.60
35:BA:990:A:N6	35:BA:1186:G:H1'	2.16	0.60
50:BR:12:ARG:HG3	50:BR:12:ARG:HH11	1.66	0.60
35:BA:1380:G:H2'	35:BA:1381:G:H8	1.65	0.60
35:DA:2040:C:H2'	35:DA:2041:U:H6	1.67	0.60
42:DH:28:GLY:HA3	42:DH:79:VAL:CG2	2.31	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2240:C:O2'	35:DA:2241:A:H5'	2.02	0.60
44:BK:14:ALA:HA	44:BK:41:PHE:CZ	2.36	0.60
22:CW:68:C:H2'	22:CW:69:C:C6	2.37	0.60
35:DA:1231:G:H2'	35:DA:1232:G:H8	1.65	0.60
35:BA:92:A:H2'	35:BA:93:G:C8	2.36	0.60
50:DR:28:LEU:HD23	50:DR:28:LEU:C	2.21	0.60
24:CY:308:PRO:O	24:CY:332:SER:HB2	2.02	0.60
20:CT:36:LEU:HD12	20:CT:59:ALA:HB2	1.82	0.60
1:CA:925:G:H5'	1:CA:926:G:OP1	2.01	0.60
26:D1:41:ARG:NH2	35:DA:1365:A:H5'	2.16	0.60
1:CA:1016:A:H2'	1:CA:1017:G:O4'	2.02	0.60
48:DP:124:LYS:HD3	48:DP:143:GLY:HA3	1.81	0.60
35:DA:1290:C:H2'	35:DA:1291:C:C6	2.37	0.60
26:D1:25:LYS:HB2	35:DA:388:G:H5'	1.83	0.60
35:BA:1049:C:H2'	35:BA:1050:A:H8	1.66	0.60
40:BF:157:VAL:HG22	40:BF:194:MET:HG2	1.83	0.60
24:AY:180:VAL:HG23	24:AY:181:LEU:N	2.17	0.60
53:BU:55:ARG:HA	53:BU:58:ARG:HG3	1.82	0.60
53:BU:83:LEU:HD12	53:BU:83:LEU:N	2.16	0.60
41:DG:61:ALA:HA	41:DG:64:THR:HG22	1.83	0.60
1:AA:1303:C:H2'	1:AA:1304:G:H5'	1.84	0.60
37:DC:128:LEU:HD11	37:DC:132:LEU:HG	1.83	0.60
31:B6:45:LYS:HE3	35:BA:2371:G:H5''	1.83	0.60
31:D6:15:GLU:OE2	31:D6:20:ASN:ND2	2.34	0.60
35:BA:2787:C:H1'	39:BE:61:ARG:CG	2.30	0.60
46:BN:22:THR:HA	46:BN:61:ARG:O	2.00	0.60
52:DT:25:GLY:HA2	52:DT:92:GLY:CA	2.32	0.60
30:B5:55:ARG:HH12	50:BR:33:ARG:HD2	1.66	0.60
19:CS:14:HIS:CD2	19:CS:15:LEU:HD23	2.33	0.60
58:DZ:158:PRO:HD2	58:DZ:161:VAL:HG21	1.82	0.60
57:DY:44:ILE:HG22	57:DY:45:VAL:N	2.16	0.60
18:AR:58:LEU:HD12	18:AR:58:LEU:N	2.17	0.60
47:BO:104:ARG:NE	52:BT:33:LYS:HE3	2.14	0.60
58:BZ:108:PRO:HG2	58:BZ:111:VAL:HG23	1.82	0.60
42:BH:156:ALA:O	42:BH:158:HIS:HD2	1.84	0.60
35:DA:892:G:H2'	35:DA:893:C:C6	2.36	0.60
35:DA:279:C:H3'	35:DA:280:C:H5''	1.82	0.60
24:AY:512:ILE:H	24:AY:512:ILE:CD1	2.14	0.60
35:DA:518:G:H4'	55:DW:18:ARG:NH1	2.15	0.60
1:CA:1101:A:H4'	1:CA:1102:A:C4'	2.32	0.60
6:AF:16:GLN:CD	6:AF:16:GLN:H	2.03	0.60
39:BE:170:LEU:HD12	39:BE:170:LEU:N	2.16	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1479:C:H2'	1:CA:1480:G:H8	1.67	0.60
1:AA:72:C:H2'	1:AA:73:G:C8	2.37	0.60
1:CA:1254:C:H2'	1:CA:1255:G:C8	2.36	0.60
54:DV:1:MET:HE2	54:DV:1:MET:HA	1.82	0.60
24:CY:185:ALA:HB3	24:CY:199:ILE:O	2.01	0.60
35:BA:693:C:O2'	35:BA:694:U:H5'	2.01	0.60
20:AT:93:GLU:C	20:AT:95:ALA:H	2.02	0.60
54:BV:2:PHE:O	54:BV:3:ALA:HB3	2.01	0.60
35:BA:723:G:H2'	35:BA:724:U:C6	2.36	0.60
17:AQ:76:LEU:HD12	17:AQ:77:VAL:N	2.16	0.60
35:BA:1467:C:H5	35:BA:1546:C:H2'	1.66	0.60
35:DA:1075:C:H5'	35:DA:1076:C:OP2	2.01	0.60
5:AE:20:GLN:O	5:AE:21:ALA:C	2.39	0.60
8:CH:6:ILE:HD12	8:CH:6:ILE:N	2.16	0.60
49:BQ:66:ILE:HG13	49:BQ:66:ILE:O	2.01	0.60
37:BC:213:VAL:HG12	37:BC:225:ILE:HD11	1.82	0.60
2:AB:156:LYS:O	2:AB:157:ARG:HB3	2.01	0.60
38:DD:31:LYS:NZ	38:DD:33:LEU:HB2	2.16	0.60
10:AJ:3:LYS:NZ	10:AJ:76:ASN:HA	2.16	0.60
40:BF:181:LEU:HB3	40:BF:205:ARG:HH11	1.64	0.60
53:DU:80:ILE:O	53:DU:84:LYS:HB2	2.02	0.60
40:BF:53:THR:CG2	40:BF:56:GLU:HG3	2.17	0.60
35:DA:363(A):A:H2'	35:DA:363(B):G:H8	1.67	0.60
56:BX:10:ALA:O	56:BX:28:PHE:HB2	2.00	0.60
40:DF:185:ASP:HA	40:DF:188:ARG:HG2	1.83	0.60
40:DF:18:ARG:HG2	40:DF:19:GLU:H	1.67	0.60
33:D8:33:ASN:N	33:D8:36:LYS:HD2	2.16	0.60
41:DG:112:PRO:C	41:DG:113:ARG:HA	2.21	0.60
31:B6:15:GLU:CD	31:B6:44:ARG:HH12	2.05	0.60
47:DO:47:ILE:HG22	47:DO:48:PRO:HD2	1.83	0.60
48:DP:23:PRO:HB2	48:DP:33:ARG:NE	2.16	0.60
35:DA:2572:A:H5'	35:DA:2574:G:C4'	2.29	0.60
1:AA:1053:G:C3'	1:AA:1054:C:H5'	2.31	0.60
35:BA:1022:G:N2	35:BA:1142(A):A:H2	1.99	0.60
35:DA:2377:A:H2'	35:DA:2378:A:C8	2.36	0.60
5:AE:15:ARG:HG3	5:AE:28:PHE:CE2	2.37	0.60
2:CB:172:ILE:HD12	2:CB:172:ILE:N	2.12	0.60
52:DT:29:ARG:HD3	52:DT:86:ILE:HG22	1.82	0.60
6:AF:33:TYR:HA	6:AF:71:ARG:NH2	2.16	0.60
35:DA:1971:A:C4	38:DD:241:PRO:HD3	2.37	0.60
24:CY:489:LYS:CG	24:CY:598:ASP:HB2	2.31	0.60
35:BA:848:G:O6	35:BA:928:G:H2'	2.01	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1682:G:H2'	35:BA:1683:C:H6	1.64	0.60
38:BD:155:LEU:N	38:BD:155:LEU:HD12	2.16	0.60
35:BA:481:G:OP2	57:BY:47:LYS:HD3	2.01	0.60
44:DK:79:ARG:HD2	44:DK:85:GLU:O	2.00	0.60
35:BA:175:G:O2'	35:BA:176:G:H5'	2.02	0.60
39:DE:179:GLU:HB3	39:DE:181:LEU:CD2	2.31	0.60
3:CC:133:ALA:O	3:CC:137:ALA:HB2	2.02	0.60
12:CL:117:ARG:NH2	12:CL:124:LYS:HB2	2.17	0.60
24:CY:415:PRO:HA	24:CY:474:ALA:CB	2.32	0.60
1:CA:1348:U:H2'	1:CA:1349:A:H8	1.67	0.60
35:BA:2040:C:H2'	35:BA:2041:U:C6	2.36	0.60
35:BA:1094:U:H2'	35:BA:1096:A:OP2	2.00	0.60
6:CF:42:GLU:O	6:CF:44:GLY:N	2.34	0.60
58:DZ:150:LEU:HD23	58:DZ:150:LEU:N	2.15	0.60
41:DG:120:LEU:HD12	41:DG:180:PHE:HE2	1.66	0.60
58:BZ:63:ASP:HB2	58:BZ:65:GLN:HE21	1.66	0.60
37:BC:65:LEU:HD13	37:BC:189:ASN:ND2	2.16	0.60
35:DA:1168:G:H2'	35:DA:1169:G:C8	2.37	0.60
1:AA:201:C:H2'	1:AA:202:U:H5''	1.83	0.60
1:AA:1137:C:H4'	1:AA:1138:G:C2	2.36	0.60
35:BA:510:C:H3'	35:BA:510:C:OP1	2.01	0.60
52:BT:98:LYS:HB3	52:BT:100:TYR:HE1	1.66	0.60
1:AA:22:G:O2'	1:AA:23:C:H5'	2.01	0.60
41:BG:99:MET:O	41:BG:102:PHE:HB3	2.00	0.60
41:BG:34:LEU:HB2	41:BG:99:MET:CE	2.31	0.60
10:AJ:34:VAL:CG2	10:AJ:74:ILE:HG22	2.23	0.60
33:B8:51:ALA:N	33:B8:53:PRO:HD2	2.17	0.60
58:BZ:69:THR:HG22	58:BZ:90:VAL:CA	2.23	0.60
31:D6:30:THR:HG22	31:D6:32:ASN:ND2	2.16	0.60
52:BT:65:LYS:CE	52:BT:66:VAL:H	2.05	0.60
35:DA:1504:C:C3'	35:DA:1505:C:H5''	2.32	0.60
35:DA:26:G:H1'	35:DA:515:A:H61	1.65	0.60
48:DP:24:GLY:CA	48:DP:33:ARG:NH1	2.65	0.60
26:B1:90:ILE:O	26:B1:94:LEU:HD12	2.01	0.60
48:BP:96:THR:HG22	48:BP:126:VAL:HB	1.84	0.60
41:DG:94:LEU:HD22	41:DG:98:ARG:HB3	1.83	0.60
10:AJ:55:LYS:N	10:AJ:55:LYS:CE	2.62	0.60
50:BR:28:LEU:CD2	50:BR:29:LEU:HD12	2.31	0.60
49:BQ:2:LEU:HG	49:BQ:69:PHE:HE1	1.66	0.60
35:BA:2186:G:C3'	35:BA:2187:G:H5''	2.31	0.60
49:BQ:52:VAL:O	49:BQ:55:VAL:HG12	2.01	0.60
26:D1:86:SER:HA	26:D1:89:GLU:OE2	2.01	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1677:A:H2'	35:DA:1678:G:C8	2.37	0.60
13:CM:68:GLY:H	13:CM:71:ARG:CB	2.14	0.60
4:CD:107:ARG:HH21	4:CD:194:LEU:CD1	2.14	0.60
30:D5:27:PRO:HG3	55:DW:23:LEU:CD1	2.30	0.60
35:BA:748:G:O6	35:BA:751:A:H4'	2.02	0.60
2:CB:233:SER:CB	2:CB:234:PRO:CD	2.80	0.60
12:AL:47:LYS:HB3	12:AL:48:PRO:HD3	1.83	0.60
18:CR:45:SER:H	18:CR:51:LEU:HG	1.65	0.60
35:DA:389:G:O4'	35:DA:2413:G:H4'	2.02	0.60
42:DH:124:GLU:HG3	42:DH:132:ARG:HG3	1.83	0.60
1:CA:539:A:H2'	1:CA:540:G:C8	2.36	0.60
35:DA:786:C:O2'	35:DA:787:U:H5'	2.02	0.60
9:AI:53:VAL:HG23	9:AI:55:ALA:HB3	1.82	0.60
35:DA:1328:G:H8	35:DA:1328:G:O5'	1.84	0.60
24:CY:439:ARG:H	24:CY:452:SER:HB3	1.67	0.60
35:DA:92:A:H2'	35:DA:93:G:C8	2.37	0.60
1:AA:45:U:H2'	1:AA:46:G:H8	1.66	0.60
6:CF:60:PHE:O	6:CF:61:LEU:HD12	2.02	0.60
1:CA:449:C:O2	16:CP:42:ARG:HD2	2.01	0.60
35:BA:1649:G:O2'	35:BA:1650:G:H5'	2.02	0.60
17:CQ:57:VAL:HG23	17:CQ:58:GLU:N	2.16	0.60
6:CF:8:ILE:HG23	6:CF:85:VAL:HG13	1.82	0.60
3:CC:25:GLY:C	3:CC:27:LYS:H	2.05	0.60
35:BA:214:G:H1'	35:BA:216:A:O2'	2.01	0.60
35:BA:198:C:H42	35:BA:248:G:H1	1.49	0.60
42:DH:171:LEU:CD2	42:DH:172:LYS:O	2.50	0.60
24:CY:459:LEU:HD12	24:CY:460:GLU:N	2.17	0.60
10:CJ:4:ILE:HB	10:CJ:74:ILE:HD11	1.83	0.60
53:DU:92:ARG:NH1	54:DV:11:GLN:HG3	2.16	0.60
54:DV:39:LEU:HD12	54:DV:50:PRO:O	2.02	0.60
35:DA:212:G:H5'	35:DA:212:G:C8	2.33	0.60
16:CP:21:VAL:HG11	16:CP:59:TRP:NE1	2.17	0.60
40:DF:185:ASP:HA	40:DF:188:ARG:CG	2.31	0.60
41:DG:43:LEU:HD22	41:DG:43:LEU:N	2.17	0.60
35:BA:1827:C:C2'	35:BA:1828:G:H5'	2.31	0.60
48:BP:16:ARG:HH11	48:BP:16:ARG:HB2	1.65	0.60
18:CR:37:VAL:O	18:CR:39:VAL:N	2.33	0.60
3:AC:154:SER:O	3:AC:165:THR:HA	2.02	0.60
1:AA:1490:C:C6	1:AA:1490:C:H5'	2.37	0.60
51:DS:89:ARG:HG3	51:DS:92:TYR:CB	2.31	0.60
52:DT:90:GLN:HG2	52:DT:120:ARG:NH2	2.16	0.60
1:CA:1250:A:H2'	1:CA:1251:A:C8	2.36	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:AW:28:U:H2'	22:AW:29:C:C6	2.36	0.60
47:BO:26:LYS:HB3	47:BO:30:ALA:HB2	1.83	0.60
4:AD:92:VAL:O	4:AD:96:LEU:HD22	2.01	0.60
35:BA:1516:C:H2'	35:BA:1517:G:H5'	1.84	0.60
1:AA:1239:A:H62	1:AA:1299:A:N6	1.99	0.60
34:B9:29:ASN:ND2	34:B9:29:ASN:O	2.34	0.60
37:BC:132:LEU:HB3	37:BC:138:LEU:N	2.17	0.60
14:CN:14:PRO:O	14:CN:15:LYS:O	2.20	0.60
13:AM:11:ARG:O	13:AM:13:LYS:N	2.35	0.60
35:BA:2552:U:O2	35:BA:2554:U:H5'	2.02	0.60
1:CA:1017:G:H2'	1:CA:1018:C:C6	2.37	0.60
1:CA:677:U:H3	1:CA:713:G:H22	1.49	0.60
1:AA:1017:G:H2'	1:AA:1018:C:C6	2.37	0.60
2:AB:60:ASP:O	2:AB:64:ARG:NH2	2.35	0.60
46:DN:14:VAL:HG11	46:DN:137:LYS:HD2	1.82	0.60
35:DA:1467:C:H5	35:DA:1546:C:H2'	1.65	0.60
35:DA:2299:G:O2'	35:DA:2300:G:H5'	2.02	0.60
35:BA:406:G:O2'	35:BA:407:G:H8	1.83	0.60
36:DB:106:G:H2'	36:DB:107:G:H8	1.67	0.60
10:AJ:32:ALA:HB3	10:AJ:76:ASN:O	2.02	0.60
24:AY:215:LYS:O	24:AY:219:VAL:N	2.34	0.60
35:BA:1245:G:H5''	40:BF:34:TRP:HZ2	1.66	0.60
1:CA:1320:C:OP1	19:CS:70:LYS:NZ	2.35	0.60
38:DD:71:ASP:CB	38:DD:103:ARG:HH22	2.04	0.60
36:BB:48:A:H2'	36:BB:49:C:C6	2.37	0.60
48:DP:146:VAL:HG22	48:DP:147:LEU:N	2.11	0.60
40:DF:84:VAL:O	40:DF:86:GLY:N	2.32	0.60
46:BN:57:ALA:N	46:BN:124:ALA:HA	2.16	0.60
1:CA:1053:G:C3'	1:CA:1054:C:H5'	2.31	0.60
49:BQ:56:ARG:HH21	58:BZ:180:VAL:CG2	2.12	0.60
39:BE:179:GLU:HB3	39:BE:181:LEU:CD2	2.31	0.60
26:B1:6:GLU:OE1	26:B1:60:PHE:HA	2.02	0.60
38:DD:145:VAL:HG22	38:DD:191:ALA:CB	2.31	0.60
1:AA:1510:U:H2'	1:AA:1511:G:H8	1.65	0.60
2:CB:12:GLU:HA	2:CB:16:HIS:ND1	2.16	0.60
8:AH:89:PRO:HA	8:AH:92:ARG:HH11	1.66	0.60
1:CA:723:U:H5'	1:CA:724:G:OP2	2.01	0.60
35:BA:296:C:O2'	35:BA:297:C:H5'	2.02	0.60
25:D0:24:LYS:O	25:D0:25:ARG:HD3	2.01	0.60
24:AY:605:ILE:HG23	24:AY:646:PHE:HB3	1.82	0.60
35:DA:144:C:H2'	35:DA:145:G:C8	2.36	0.60
24:CY:377:VAL:HG21	24:CY:380:LEU:HD13	1.83	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:144:C:H2'	35:BA:145:G:C8	2.37	0.60
26:D1:60:PHE:CE1	26:D1:91:LYS:HE3	2.36	0.60
1:AA:60:A:H5''	1:AA:331:G:N2	2.16	0.60
25:B0:5:LYS:HB2	49:BQ:80:GLU:O	2.02	0.60
7:CG:27:ILE:HD11	7:CG:40:ALA:HA	1.84	0.60
1:AA:189:G:H2'	1:AA:189(A):C:C6	2.36	0.60
35:DA:1125:G:H3'	35:DA:1126:A:H5''	1.84	0.60
54:DV:32:THR:HG23	54:DV:59:ALA:O	2.01	0.60
1:CA:22:G:O2'	1:CA:913:A:N1	2.29	0.60
28:D3:11:SER:HB3	35:DA:988:A:P	2.42	0.60
52:BT:51:ARG:HG3	52:BT:98:LYS:HE3	1.84	0.60
7:AG:64:GLN:O	7:AG:67:GLU:HB3	2.02	0.60
57:BY:105:ALA:C	57:BY:107:ASP:H	2.04	0.60
42:BH:105:LEU:CD2	42:BH:113:VAL:HB	2.32	0.60
35:BA:1105:U:H2'	35:BA:1106:G:O4'	2.01	0.60
9:CI:53:VAL:HG23	9:CI:55:ALA:HB3	1.83	0.60
35:DA:552:G:H8	35:DA:552:G:H5'	1.67	0.60
1:AA:505:G:H2'	1:AA:506:G:H8	1.66	0.60
35:DA:1297:C:H2'	35:DA:1298:C:H6	1.66	0.60
38:DD:23:GLU:HA	38:DD:23:GLU:OE1	2.02	0.60
24:AY:248:LYS:HG2	24:AY:248:LYS:O	2.02	0.60
52:DT:98:LYS:HB3	52:DT:100:TYR:HE1	1.67	0.60
40:DF:28:ILE:CD1	40:DF:28:ILE:H	2.15	0.60
24:CY:609:GLU:H	24:CY:670:VAL:HG22	1.67	0.60
35:DA:1657:C:O2'	35:DA:1658:C:H5'	2.01	0.60
35:DA:2472:G:H3'	35:DA:2475:C:N4	2.17	0.60
35:DA:322:A:H3'	40:DF:169:ASN:HD21	1.66	0.60
31:D6:10:LEU:H	31:D6:10:LEU:HD22	1.64	0.60
31:D6:11:LEU:HD22	31:D6:12:GLU:N	2.17	0.60
24:CY:276:VAL:HA	24:CY:280:LEU:HD23	1.82	0.60
47:DO:60:ALA:HA	47:DO:87:ILE:CD1	2.32	0.60
31:D6:48:VAL:O	31:D6:49:HIS:HB2	2.02	0.60
48:DP:23:PRO:CB	48:DP:33:ARG:HG3	2.32	0.60
1:CA:129(A):G:H5''	1:CA:129(A):G:H8	1.65	0.60
44:BK:112:MET:HG3	44:BK:113:PRO:HD3	1.84	0.60
51:DS:34:HIS:NE2	51:DS:54:LEU:HB3	2.16	0.60
1:CA:1356:G:H2'	1:CA:1357:A:H8	1.66	0.60
35:BA:143:G:H4'	56:BX:35:THR:HG21	1.84	0.60
35:BA:143(A):C:H4'	56:BX:38:GLU:OE1	2.01	0.60
27:B2:36:ARG:HA	27:B2:39:ALA:HB3	1.82	0.60
52:DT:83:ILE:HG13	52:DT:84:GLN:HG2	1.83	0.60
1:AA:1323:G:H2'	1:AA:1324:A:H8	1.63	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2175:C:H1'	37:BC:218:THR:O	2.02	0.60
35:BA:259:G:H21	35:BA:621:A:H8	1.50	0.60
9:CI:82:ALA:HA	9:CI:85:LEU:HD11	1.83	0.60
12:AL:34:ARG:HG3	12:AL:105:TYR:CE1	2.35	0.60
46:DN:35:ARG:O	46:DN:36:GLY:C	2.39	0.60
1:AA:161:A:H2'	1:AA:162:A:H8	1.67	0.60
35:DA:2794:C:H42	35:DA:2801(A):A:H61	1.50	0.60
1:CA:1479:C:O2'	1:CA:1480:G:H5'	2.02	0.60
12:AL:117:ARG:NH2	12:AL:124:LYS:HB2	2.17	0.60
6:CF:16:GLN:H	6:CF:16:GLN:CD	2.04	0.60
35:BA:2240:C:O2'	35:BA:2241:A:H5'	2.02	0.60
44:DK:14:ALA:HA	44:DK:41:PHE:CZ	2.37	0.60
38:DD:153:ALA:C	38:DD:154:LYS:HG3	2.21	0.60
35:BA:2202:C:H2'	38:BD:151:LYS:NZ	2.16	0.60
35:BA:271(U):G:O2'	35:BA:271(V):G:H5'	2.01	0.60
35:DA:2450:A:O2'	35:DA:2451:A:H5'	2.01	0.60
1:CA:445:G:H2'	1:CA:446:G:H8	1.66	0.60
1:AA:1119:C:O2'	1:AA:1120:G:H5'	2.01	0.60
3:CC:178:LEU:O	3:CC:180:ALA:N	2.34	0.60
35:BA:1847:A:H3'	35:BA:1848:A:H5'	1.82	0.60
24:CY:636:PRO:HB3	24:CY:641:GLN:OE1	2.02	0.60
19:CS:46:GLY:N	19:CS:62:ILE:HG23	2.16	0.60
1:CA:861:G:O2'	1:CA:862:C:H5'	2.02	0.60
24:AY:176:GLY:CA	24:AY:187:THR:HA	2.32	0.60
24:AY:389:LEU:HD12	24:AY:389:LEU:N	2.16	0.60
4:CD:131:ARG:HD3	4:CD:131:ARG:H	1.66	0.60
25:D0:36:ILE:O	25:D0:36:ILE:HG13	2.02	0.60
35:DA:78:A:O2'	35:DA:79:G:H5'	2.02	0.60
42:DH:170:ARG:O	42:DH:171:LEU:CB	2.49	0.60
42:BH:170:ARG:O	42:BH:171:LEU:CB	2.47	0.60
29:B4:27:THR:O	29:B4:28:LYS:HB3	2.02	0.60
24:AY:106:VAL:HG23	24:AY:132:ARG:HG3	1.84	0.60
54:DV:47:VAL:HB	54:DV:50:PRO:O	2.01	0.60
33:B8:30:ARG:O	33:B8:31:HIS:HB3	2.01	0.60
57:DY:28:LYS:C	57:DY:38:ILE:HG22	2.20	0.60
33:D8:25:MET:HG3	48:DP:64:LYS:CB	2.32	0.60
35:DA:2392:A:C8	48:DP:60:MET:HB3	2.34	0.60
56:DX:10:ALA:O	56:DX:28:PHE:HB2	2.02	0.60
35:DA:1899:G:H22	35:DA:1902:C:H41	1.21	0.60
1:CA:1004:A:H61	1:CA:1034:G:C2'	2.14	0.60
35:DA:1452:A:C3'	35:DA:1453:U:C5'	2.72	0.60
30:D5:3:LYS:NZ	35:DA:2613:U:H2'	2.16	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2583:G:H2'	35:DA:2584:U:O2	2.02	0.60
27:D2:69:ARG:CG	27:D2:70:GLN:H	2.15	0.60
26:B1:45:ASN:HD21	26:B1:47:GLN:NE2	1.98	0.60
34:D9:19:ARG:CB	35:DA:2756:U:H5'	2.31	0.60
2:AB:151:GLY:O	2:AB:153:ARG:N	2.35	0.60
19:AS:41:VAL:C	19:AS:43:GLU:H	2.04	0.60
1:CA:1441:G:H4'	1:CA:1442:G:C4	2.37	0.60
5:CE:6:PHE:HB3	5:CE:35:GLY:O	2.02	0.60
30:D5:36:CYS:SG	30:D5:38:ALA:HB3	2.42	0.60
50:DR:10:LEU:HD22	50:DR:17:ARG:CD	2.32	0.60
27:B2:47:ASN:ND2	35:BA:94(A):G:H21	2.00	0.60
1:AA:664:G:H22	1:AA:741:G:H1	1.48	0.60
35:BA:1558:A:H4'	35:BA:1559:G:O5'	2.02	0.60
55:BW:59:VAL:O	55:BW:59:VAL:CG1	2.50	0.60
35:DA:990:A:N6	35:DA:1186:G:H1'	2.17	0.60
24:CY:71:THR:HG22	24:CY:80:ASN:OD1	2.01	0.60
58:DZ:127:LYS:O	58:DZ:162:GLU:HG2	2.02	0.60
35:DA:910:A:H62	49:DQ:12:GLN:HA	1.67	0.60
4:CD:176:LEU:HD12	4:CD:177:ASP:H	1.66	0.60
36:BB:106:G:H2'	36:BB:107:G:H8	1.65	0.60
1:CA:270:A:H2'	1:CA:271:C:C6	2.36	0.60
55:DW:68:ARG:CA	55:DW:110:LYS:HG2	2.32	0.60
17:CQ:48:GLU:O	17:CQ:49:GLU:C	2.39	0.60
24:AY:293:THR:HB	24:AY:294:PRO:HD2	1.84	0.60
35:BA:389:G:O4'	35:BA:2413:G:H4'	2.02	0.60
35:BA:484:C:OP1	57:BY:50:ARG:HG3	2.01	0.60
1:CA:1108:G:H5'	3:CC:176:HIS:CD2	2.37	0.60
35:BA:2348:U:H2'	35:BA:2349:G:H5''	1.83	0.60
1:AA:1005:A:OP1	1:AA:1006:C:N3	2.35	0.60
35:BA:2472:G:H3'	35:BA:2475:C:N4	2.17	0.60
1:CA:201:C:H2'	1:CA:202:U:H5''	1.83	0.60
35:DA:406:G:O2'	35:DA:407:G:H8	1.84	0.60
42:BH:105:LEU:HD23	42:BH:105:LEU:H	1.67	0.60
35:DA:134:C:H2'	35:DA:135:G:H8	1.65	0.60
32:B7:34:ARG:HH12	32:B7:39:ARG:HD2	1.67	0.60
37:BC:14:LYS:H	37:BC:14:LYS:HD3	1.66	0.60
35:BA:1833:U:H2'	35:BA:1834:U:H6	1.67	0.60
35:DA:2839:G:H1	35:DA:2878:U:H3	1.49	0.60
56:BX:18:TYR:C	56:BX:20:GLY:H	2.05	0.60
1:AA:499:A:H4'	1:AA:500:G:OP1	2.02	0.60
35:BA:975(A):G:O2'	35:BA:976:C:H5'	2.02	0.60
1:AA:445:G:H2'	1:AA:446:G:H8	1.67	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:BG:114:ILE:HG12	41:BG:140:ILE:HG21	1.85	0.59
10:AJ:32:ALA:HB3	10:AJ:78:ASN:HD21	1.67	0.59
35:DA:1326:U:O2'	35:DA:1327:C:H5'	2.01	0.59
4:CD:29:PRO:C	4:CD:30:LYS:HG2	2.21	0.59
24:AY:115:GLU:CD	24:AY:118:SER:HB3	2.22	0.59
9:CI:3:GLN:NE2	9:CI:20:ARG:HH21	2.00	0.59
38:DD:35:LYS:O	38:DD:36:PRO:C	2.40	0.59
48:BP:23:PRO:HB2	48:BP:33:ARG:NE	2.16	0.59
1:CA:1316:G:O2'	14:CN:18:VAL:HG11	2.02	0.59
57:DY:74:PRO:HG3	57:DY:83:THR:HG22	1.84	0.59
10:CJ:32:ALA:HB3	10:CJ:76:ASN:O	2.02	0.59
10:CJ:3:LYS:NZ	10:CJ:77:PRO:HD2	2.17	0.59
30:B5:3:LYS:HG2	35:BA:747:U:O4	2.01	0.59
51:BS:99:LYS:O	51:BS:101:LEU:N	2.34	0.59
35:DA:2344:U:H4'	35:DA:2345:G:OP1	2.00	0.59
58:DZ:179:ASP:OD1	58:DZ:182:LYS:HG3	2.02	0.59
40:BF:17:ARG:HG3	40:BF:17:ARG:HH11	1.67	0.59
38:DD:43:ARG:HD2	38:DD:44:ASN:OD1	2.02	0.59
35:BA:814:C:H2'	35:BA:815:C:H6	1.65	0.59
35:DA:514:A:H2'	35:DA:515:A:C8	2.37	0.59
2:AB:164:VAL:HG12	2:AB:165:VAL:N	2.16	0.59
51:DS:106:ARG:HB3	51:DS:106:ARG:NH1	2.13	0.59
52:BT:83:ILE:HG13	52:BT:84:GLN:HG2	1.83	0.59
1:CA:483:C:C3'	1:CA:484:G:H5''	2.31	0.59
5:AE:33:VAL:HG12	5:AE:34:VAL:N	2.16	0.59
15:AO:76:GLU:C	15:AO:78:TYR:H	2.05	0.59
42:DH:83:TYR:HB3	42:DH:135:GLY:N	2.17	0.59
9:CI:126:SER:O	9:CI:128:ARG:HD2	2.02	0.59
12:AL:28:LYS:O	12:AL:29:GLY:C	2.38	0.59
24:AY:201:ILE:H	24:AY:201:ILE:CD1	2.14	0.59
22:CW:31:G:H2'	22:CW:32:G:C8	2.34	0.59
46:BN:35:ARG:O	46:BN:36:GLY:C	2.39	0.59
1:AA:1148:U:H2'	1:AA:1149:C:O4'	2.02	0.59
24:AY:228:MET:O	24:AY:231:TYR:HB3	2.02	0.59
9:CI:47:LEU:N	9:CI:47:LEU:CD1	2.64	0.59
12:CL:47:LYS:HD2	12:CL:48:PRO:HD3	1.84	0.59
20:CT:73:HIS:O	20:CT:76:ALA:HB3	2.02	0.59
35:DA:528:A:H2	35:DA:2043:C:C4'	2.15	0.59
47:DO:64:ARG:NE	52:DT:70:VAL:HG21	2.17	0.59
35:DA:2329:G:H2'	35:DA:2330:G:H8	1.67	0.59
18:AR:44:LEU:O	18:AR:45:SER:C	2.39	0.59
1:AA:1415:G:H2'	1:AA:1416:G:C8	2.37	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1290:C:H2'	35:DA:1291:C:H6	1.67	0.59
52:DT:51:ARG:HG3	52:DT:98:LYS:HE3	1.83	0.59
3:AC:25:GLY:C	3:AC:27:LYS:H	2.05	0.59
1:AA:853:G:O2'	1:AA:854:G:H5'	2.02	0.59
35:DA:2052:G:H4'	39:DE:143:ASN:O	2.01	0.59
45:DL:19:UNK:C	45:DL:21:UNK:N	2.61	0.59
35:DA:654(P):C:C2'	35:DA:654(Q):C:H5'	2.32	0.59
24:AY:264:LEU:HD23	24:AY:264:LEU:O	2.01	0.59
10:AJ:32:ALA:N	10:AJ:78:ASN:ND2	2.49	0.59
16:AP:20:VAL:HG21	16:AP:32:TYR:CG	2.36	0.59
31:B6:35:GLU:HB2	31:B6:51:GLU:HB2	1.84	0.59
57:BY:31:LEU:HB2	57:BY:32:PRO:CA	2.31	0.59
27:B2:67:LYS:O	27:B2:70:GLN:HG3	2.02	0.59
13:AM:27:LYS:HE2	13:AM:31:LYS:CE	2.24	0.59
24:CY:164:MET:HB2	24:CY:258:VAL:O	2.01	0.59
24:CY:74:TRP:HB3	24:CY:79:ILE:HD11	1.83	0.59
48:DP:16:ARG:C	48:DP:16:ARG:HD3	2.23	0.59
49:DQ:52:VAL:O	49:DQ:55:VAL:HG12	2.02	0.59
40:BF:195:ASP:CG	40:BF:196:LEU:H	2.06	0.59
48:BP:16:ARG:HD3	48:BP:16:ARG:C	2.22	0.59
3:AC:94:LEU:O	3:AC:95:THR:HG23	2.01	0.59
36:BB:7:G:H5'	51:BS:29:PHE:CD1	2.36	0.59
2:CB:24:TRP:CZ3	2:CB:26:PRO:HA	2.38	0.59
35:DA:2756:U:H1'	35:DA:2757:A:C8	2.37	0.59
36:DB:40:U:O2	36:DB:43:C:H5"	2.02	0.59
35:DA:2260:C:H2'	35:DA:2261:C:H6	1.67	0.59
39:BE:34:VAL:HG11	39:BE:78:LEU:HD22	1.84	0.59
35:DA:1022:G:N2	35:DA:1142(A):A:H2	2.00	0.59
58:DZ:20:ARG:NH1	58:DZ:20:ARG:HB2	2.13	0.59
50:BR:97:VAL:HA	50:BR:113:LEU:O	2.00	0.59
24:AY:337:SER:CA	24:AY:355:LEU:HD23	2.32	0.59
6:AF:69:GLU:CD	6:AF:69:GLU:H	2.06	0.59
6:CF:1:MET:HE1	6:CF:68:PRO:HD3	1.84	0.59
41:DG:77:ILE:O	41:DG:80:PHE:N	2.32	0.59
44:DK:3:LYS:HD3	44:DK:29:GLN:HG2	1.84	0.59
46:BN:67:LEU:CD2	46:BN:87:LEU:HB3	2.32	0.59
1:AA:390:C:H2'	1:AA:391:G:H8	1.66	0.59
1:CA:183:G:H2'	1:CA:184:G:H8	1.65	0.59
1:CA:1270:C:H4'	1:CA:1313:U:O2'	2.02	0.59
24:CY:499:ARG:HB2	24:CY:506:GLN:HB3	1.84	0.59
56:DX:8:ILE:HD11	56:DX:42:ALA:O	2.02	0.59
32:B7:24:THR:HG23	32:B7:27:GLY:N	2.16	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:999:C:H2'	1:AA:1000:U:C6	2.37	0.59
22:AW:10:G:H2'	22:AW:11:A:C8	2.37	0.59
37:BC:4:HIS:ND1	37:BC:8:TYR:CE2	2.70	0.59
14:AN:14:PRO:O	14:AN:15:LYS:O	2.19	0.59
35:BA:1361:G:O2'	35:BA:1362:C:H5'	2.03	0.59
13:CM:11:ARG:O	13:CM:13:LYS:N	2.35	0.59
42:BH:105:LEU:HD23	42:BH:113:VAL:HB	1.84	0.59
9:CI:53:VAL:C	9:CI:55:ALA:H	2.05	0.59
35:BA:1438:U:O2'	35:BA:1439:A:H5'	2.01	0.59
35:DA:1842:G:H2'	35:DA:1843:C:C6	2.37	0.59
35:BA:2498:C:O2'	35:BA:2499:C:H5'	2.03	0.59
1:AA:1208:C:H2'	1:AA:1209:C:C6	2.37	0.59
40:BF:140:LEU:O	40:BF:143:ALA:HB3	2.03	0.59
35:DA:2037:G:H2'	35:DA:2038:G:C8	2.38	0.59
45:DL:100:UNK:HA	45:DL:105:UNK:CB	2.31	0.59
42:DH:98:LEU:HD22	42:DH:125:VAL:HG23	1.83	0.59
4:AD:15:GLU:O	4:AD:17:VAL:HG23	2.01	0.59
35:DA:2646:C:OP2	35:DA:2732:G:H2'	2.01	0.59
24:AY:135:PHE:CD1	24:AY:272:LEU:HD22	2.37	0.59
22:CW:37:U:H3	23:CX:13:A:N6	2.00	0.59
23:CX:13:A:H5'	23:CX:14:A:OP1	2.03	0.59
33:B8:48:PHE:C	33:B8:49:VAL:HG22	2.21	0.59
31:D6:5:VAL:HG12	31:D6:6:ARG:N	2.16	0.59
41:DG:51:ARG:NE	41:DG:51:ARG:HA	2.13	0.59
35:BA:212:G:C5'	35:BA:212:G:H8	2.16	0.59
10:CJ:30:SER:HA	10:CJ:80:LYS:HE2	1.85	0.59
30:D5:3:LYS:HZ2	30:D5:5:PRO:HB2	1.67	0.59
52:DT:28:VAL:CG1	52:DT:46:GLU:HA	2.31	0.59
48:DP:16:ARG:HD3	48:DP:18:ARG:N	2.09	0.59
35:DA:2469:A:H2	35:DA:2481:G:H21	1.49	0.59
34:B9:17:ILE:HG22	34:B9:18:ARG:N	2.17	0.59
34:B9:19:ARG:CB	35:BA:2756:U:H5'	2.32	0.59
42:BH:65:HIS:HE1	42:BH:69:ARG:HH11	1.50	0.59
35:BA:1141:U:H6	46:BN:63:THR:HG21	1.67	0.59
24:AY:97:SER:O	24:AY:100:VAL:HG13	2.02	0.59
57:DY:27:VAL:HG12	57:DY:29:GLU:OE1	2.02	0.59
17:AQ:52:LYS:CD	17:AQ:52:LYS:H	2.12	0.59
52:BT:11:GLU:C	52:BT:13:ARG:H	2.06	0.59
46:DN:67:LEU:HB3	46:DN:88:GLU:HG3	1.83	0.59
49:DQ:27:VAL:HG11	49:DQ:134:ARG:HD3	1.83	0.59
57:BY:61:ILE:HG12	57:BY:62:GLU:N	2.16	0.59
39:DE:24:THR:HG22	39:DE:186:GLY:CA	2.30	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:CY:578:SER:HB3	24:CY:581:ALA:CB	2.31	0.59
9:AI:79:LEU:CD1	9:AI:83:ARG:HB2	2.33	0.59
12:AL:28:LYS:HE2	12:AL:33:ARG:NH1	2.17	0.59
35:DA:2462:U:H2'	35:DA:2463:C:C6	2.37	0.59
35:DA:1788:C:O2'	35:DA:1789:A:H5'	2.03	0.59
1:AA:1095:U:P	1:AA:1108:G:H1	2.25	0.59
2:AB:233:SER:CB	2:AB:234:PRO:CD	2.80	0.59
22:AW:74:A:H2'	22:AW:75:C:H5''	1.83	0.59
51:DS:59:LYS:HG2	51:DS:60:GLY:N	2.17	0.59
35:BA:1328:G:O5'	35:BA:1328:G:H8	1.85	0.59
24:CY:537:GLU:O	24:CY:540:PRO:HD2	2.02	0.59
35:BA:1921:G:O2'	35:BA:1922:G:H5'	2.02	0.59
57:DY:105:ALA:C	57:DY:107:ASP:H	2.02	0.59
1:CA:950:U:H2'	1:CA:951:G:H8	1.67	0.59
35:DA:1362:C:O2'	35:DA:1363:C:H5'	2.01	0.59
8:CH:86:ILE:HG12	8:CH:135:CYS:HA	1.84	0.59
10:AJ:29:ARG:CZ	10:AJ:29:ARG:HB3	2.31	0.59
1:AA:992:U:H1'	1:AA:993:G:C2	2.37	0.59
8:AH:12:ARG:NH1	8:AH:27:PRO:HD3	2.18	0.59
29:B4:9:LEU:CD1	29:B4:10:VAL:H	2.15	0.59
41:BG:59:GLU:O	41:BG:63:ILE:HG13	2.03	0.59
24:CY:406:GLU:HB3	24:CY:407:PRO:HD2	1.84	0.59
31:B6:7:ILE:N	31:B6:7:ILE:HD12	2.17	0.59
31:B6:54:ILE:HD13	35:BA:2420:C:H4'	1.83	0.59
48:BP:23:PRO:O	48:BP:33:ARG:HD2	2.01	0.59
48:BP:33:ARG:O	48:BP:34:GLY:C	2.40	0.59
48:BP:58:THR:C	48:BP:61:ARG:HE	2.06	0.59
57:DY:76:CYS:SG	57:DY:77:PRO:CD	2.82	0.59
38:BD:35:LYS:CD	38:BD:36:PRO:N	2.60	0.59
41:DG:114:ILE:O	41:DG:116:ASP:N	2.36	0.59
58:BZ:165:VAL:HG12	58:BZ:166:SER:N	2.17	0.59
1:CA:1005:A:OP1	1:CA:1006:C:N3	2.35	0.59
8:AH:104:ARG:HB3	8:AH:108:GLY:H	1.67	0.59
3:CC:86:VAL:O	3:CC:90:GLU:HG2	2.02	0.59
51:BS:89:ARG:HG3	51:BS:92:TYR:CB	2.31	0.59
35:DA:2287:A:N6	35:DA:2344:U:N3	2.48	0.59
33:B8:61:LEU:C	33:B8:63:PRO:HD2	2.22	0.59
35:DA:2787:C:H1'	39:DE:61:ARG:CG	2.30	0.59
39:BE:49:LEU:CD2	39:BE:49:LEU:N	2.66	0.59
22:CW:14:A:C3'	22:CW:15:G:H5''	2.33	0.59
24:AY:82:ILE:HD12	24:AY:101:LEU:HD22	1.85	0.59
5:CE:11:ILE:HD12	5:CE:31:LEU:CD1	2.32	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:953:G:O6	1:CA:1228:C:N4	2.35	0.59
49:BQ:43:THR:O	49:BQ:47:ILE:HG13	2.02	0.59
35:BA:2469:A:H2	35:BA:2481:G:H21	1.49	0.59
2:AB:21:ARG:HD2	2:AB:39:ILE:CG1	2.33	0.59
38:DD:267:SER:O	38:DD:269:PHE:N	2.34	0.59
22:CW:74:A:C3'	22:CW:75:C:H5''	2.32	0.59
47:DO:104:ARG:NE	52:DT:33:LYS:HE3	2.16	0.59
39:BE:45:THR:O	39:BE:46:ALA:HB2	2.02	0.59
24:CY:499:ARG:O	24:CY:505:GLY:O	2.19	0.59
37:DC:99:GLU:O	37:DC:100:ILE:HD13	2.03	0.59
15:CO:55:GLY:HA2	15:CO:58:MET:HE3	1.84	0.59
26:D1:6:GLU:C	26:D1:7:ILE:HD12	2.22	0.59
42:DH:105:LEU:CD2	42:DH:113:VAL:HB	2.32	0.59
4:CD:58:LEU:C	4:CD:58:LEU:HD23	2.22	0.59
31:B6:40:CYS:HB2	31:B6:46:HIS:ND1	2.18	0.59
35:BA:139(A):G:N2	56:BX:44:GLU:OE1	2.36	0.59
1:CA:218:C:H5'	1:CA:470:C:N4	2.18	0.59
35:BA:2801:A:H4'	35:BA:2801(A):A:O4'	2.02	0.59
25:D0:73:GLY:C	25:D0:75:LEU:H	2.06	0.59
35:BA:786:C:O2'	35:BA:787:U:H5'	2.02	0.59
39:DE:170:LEU:HD12	39:DE:170:LEU:N	2.17	0.59
35:BA:2040:C:H2'	35:BA:2041:U:H6	1.67	0.59
57:DY:17:SER:OG	57:DY:18:GLY:N	2.35	0.59
13:CM:63:THR:HG22	13:CM:64:TRP:H	1.67	0.59
13:CM:83:ASP:CG	13:CM:84:ILE:H	2.06	0.59
13:AM:74:VAL:HA	13:AM:77:ASN:HD22	1.67	0.59
56:DX:18:TYR:C	56:DX:20:GLY:H	2.05	0.59
21:AU:6:ARG:HH21	21:AU:15:ARG:NH2	1.99	0.59
35:DA:16:G:H2'	35:DA:17:G:H8	1.67	0.59
36:DB:18:G:H2'	36:DB:19:G:H8	1.67	0.59
12:AL:76:ASN:CG	12:AL:76:ASN:O	2.41	0.59
40:DF:32:LEU:O	40:DF:36:VAL:HG23	2.01	0.59
40:BF:18:ARG:HG2	40:BF:19:GLU:H	1.68	0.59
24:AY:206:LEU:HD11	24:AY:210:ARG:HH12	1.67	0.59
58:DZ:61:LEU:HD12	58:DZ:65:GLN:HB2	1.85	0.59
58:DZ:61:LEU:C	58:DZ:63:ASP:H	2.06	0.59
35:DA:303:U:H2'	35:DA:304:G:C8	2.38	0.59
35:DA:274:G:O2'	35:DA:275:G:H5''	2.03	0.59
57:BY:9:LYS:HD3	57:BY:94:LYS:HE2	1.84	0.59
29:D4:25:TYR:O	29:D4:26:SER:HB3	2.03	0.59
58:BZ:151:HIS:CA	58:BZ:171:ILE:HG23	2.22	0.59
31:B6:16:CYS:SG	31:B6:48:VAL:HG21	2.42	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
51:BS:88:ASP:CG	51:BS:89:ARG:N	2.55	0.59
35:DA:1080:C:O2'	44:DK:126:MET:HG3	2.02	0.59
35:DA:637:A:OP1	48:DP:133:SER:HB3	2.03	0.59
48:DP:91:PHE:HZ	48:DP:100:LEU:HD11	1.67	0.59
44:BK:3:LYS:HB3	44:BK:29:GLN:HB3	1.84	0.59
35:BA:2712:U:H1'	35:BA:2712(A):A:C8	2.37	0.59
35:BA:2712:U:O2'	35:BA:2712(A):A:O5'	2.20	0.59
54:DV:18:LEU:CG	54:DV:19:LYS:H	2.14	0.59
52:DT:125:ARG:CA	52:DT:125:ARG:HH11	2.14	0.59
52:BT:11:GLU:H	52:BT:11:GLU:CD	2.06	0.59
38:BD:106:ILE:HD11	38:BD:196:VAL:HG13	1.83	0.59
40:BF:163:VAL:O	40:BF:166:ALA:HB3	2.03	0.59
42:DH:41:MET:HG2	42:DH:43:VAL:HG13	1.84	0.59
38:BD:145:VAL:HG12	38:BD:146:GLU:N	2.14	0.59
19:AS:6:LYS:HG2	19:AS:7:LYS:CE	2.32	0.59
35:BA:654(R):C:HO2'	35:BA:654(S):G:H8	1.49	0.59
35:BA:892:G:H2'	35:BA:893:C:C6	2.37	0.59
10:CJ:47:PHE:CZ	14:CN:37:PHE:CE2	2.90	0.59
55:BW:68:ARG:CA	55:BW:110:LYS:HG2	2.32	0.59
10:CJ:18:ALA:C	10:CJ:20:ALA:H	2.06	0.59
12:CL:47:LYS:HZ2	12:CL:47:LYS:HB3	1.67	0.59
36:BB:106:G:C5'	58:BZ:31:ARG:HB3	2.33	0.59
27:D2:65:ASN:ND2	35:DA:112:U:H5'	2.17	0.59
22:AV:3:C:C2'	22:AV:4:G:H5'	2.32	0.59
46:DN:21:LYS:HD2	46:DN:26:LEU:HB3	1.85	0.59
4:AD:121:VAL:HA	4:AD:126:ILE:HD13	1.83	0.59
1:CA:99:U:H2'	1:CA:100:C:C6	2.37	0.59
35:DA:2008:C:H2'	35:DA:2009:G:H8	1.67	0.59
35:DA:15:G:O2'	35:DA:16:G:H5'	2.02	0.59
7:AG:113:GLU:HG2	7:AG:119:ARG:HG2	1.85	0.59
35:DA:1198:U:O2	35:DA:1198:U:H2'	2.01	0.59
35:DA:1102:C:H2'	35:DA:1103:A:C8	2.38	0.59
24:AY:315:LYS:NZ	24:AY:317:MET:HG2	2.17	0.59
4:AD:108:LEU:HD21	4:AD:183:GLY:HA3	1.84	0.59
35:BA:1102:C:H2'	35:BA:1103:A:C8	2.37	0.59
11:CK:18:ARG:HH21	11:CK:37:GLY:N	2.00	0.59
24:CY:555:LEU:HD21	24:CY:599:PRO:HG3	1.84	0.59
35:BA:1221(A):C:O2'	35:BA:1222:C:H5'	2.02	0.59
9:AI:41:VAL:O	9:AI:41:VAL:HG12	2.02	0.59
5:AE:107:ARG:HG2	5:AE:108:ALA:N	2.18	0.59
35:DA:214:G:H1'	35:DA:216:A:O2'	2.02	0.59
29:B4:3:GLU:HG3	36:BB:43:C:OP1	2.03	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2473:U:C3'	35:DA:2474:C:H5''	2.14	0.59
35:DA:212:G:H8	35:DA:212:G:C5'	2.15	0.59
35:BA:996:A:O3'	53:BU:92:ARG:HG2	2.03	0.59
51:BS:97:ARG:C	51:BS:97:ARG:NE	2.56	0.59
46:DN:133:GLN:HG2	46:DN:134:ARG:N	2.17	0.59
35:BA:27:G:N2	35:BA:512:G:C2'	2.64	0.59
24:CY:388:THR:HG23	24:CY:399:LEU:HD22	1.83	0.59
40:BF:84:VAL:O	40:BF:86:GLY:N	2.34	0.59
48:DP:114:ILE:O	48:DP:130:PHE:HA	2.02	0.59
30:D5:56:LYS:HG3	30:D5:57:VAL:N	2.11	0.59
30:D5:55:ARG:HH12	50:DR:33:ARG:HD2	1.67	0.59
35:BA:2756:U:H1'	35:BA:2757:A:C8	2.37	0.59
35:BA:614(A):U:H5''	35:BA:614(B):G:OP2	2.03	0.59
22:CW:14:A:H2'	22:CW:15:G:H5''	1.85	0.59
22:AW:30:G:H2'	22:AW:31:G:H8	1.65	0.59
17:CQ:52:LYS:H	17:CQ:52:LYS:CD	2.11	0.59
2:AB:172:ILE:H	2:AB:172:ILE:CD1	2.04	0.59
58:BZ:145:GLU:O	58:BZ:146:ILE:C	2.39	0.59
40:BF:133:ASN:H	40:BF:162:LEU:HD23	1.66	0.59
12:CL:20:LYS:N	12:CL:20:LYS:HD3	2.17	0.59
1:CA:1444:C:H2'	1:CA:1445:C:C5	2.37	0.59
12:AL:20:LYS:N	12:AL:20:LYS:HD3	2.16	0.59
35:DA:2443:C:H2'	35:DA:2443:C:O2	2.02	0.59
35:BA:752:A:O2'	35:BA:753:C:OP2	2.18	0.59
2:CB:96:ARG:N	2:CB:96:ARG:HD2	2.18	0.59
1:CA:1381:U:C5	1:CA:1382:C:C5	2.90	0.59
47:BO:4:PRO:O	47:BO:5:GLN:CB	2.51	0.59
1:CA:358:U:H4'	24:CY:322:VAL:O	2.02	0.59
1:AA:1347:G:O2'	1:AA:1348:U:P	2.60	0.59
12:CL:24:VAL:HG13	12:CL:98:TYR:CE2	2.37	0.59
49:DQ:97:VAL:HG11	49:DQ:103:MET:HE1	1.84	0.59
54:DV:35:LEU:O	54:DV:37:VAL:N	2.36	0.59
38:BD:11:PRO:O	38:BD:13:ARG:N	2.36	0.59
35:DA:1467:C:C5	35:DA:1546:C:H2'	2.38	0.59
35:DA:975(A):G:O2'	35:DA:976:C:H5'	2.01	0.59
38:DD:201:HIS:O	38:DD:204:ILE:HG12	2.03	0.59
35:DA:1428:C:N4	35:DA:1569:A:H3'	2.18	0.59
22:AV:72:A:H2'	22:AV:73:A:C8	2.37	0.59
26:B1:32:LYS:C	26:B1:33:LYS:HG3	2.21	0.59
5:AE:42:GLY:HA3	5:AE:66:MET:HG2	1.83	0.59
13:AM:106:ASN:O	13:AM:107:ALA:HB3	2.02	0.59
1:AA:1409:C:H2'	1:AA:1410:G:H8	1.68	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:310:A:OP2	57:BY:18:GLY:HA2	2.02	0.59
10:CJ:94:VAL:HG12	10:CJ:95:GLU:N	2.17	0.59
24:AY:662:LYS:HZ2	42:BH:175:LYS:CE	2.10	0.59
29:B4:2:LYS:O	29:B4:4:GLY:N	2.33	0.59
35:BA:1203:G:H3'	35:BA:1204:A:C5'	2.31	0.59
57:DY:90:LEU:HD12	57:DY:91:GLU:OE2	2.03	0.59
40:DF:110:LEU:CD1	40:DF:206:ILE:HD11	2.25	0.59
42:BH:12:PRO:CD	42:BH:49:VAL:HG12	2.24	0.59
31:D6:51:GLU:HG2	31:D6:52:VAL:H	1.68	0.59
29:D4:5:ILE:HG12	29:D4:5:ILE:O	2.01	0.59
41:DG:40:ASN:ND2	41:DG:41:GLN:N	2.51	0.59
3:AC:70:VAL:CG1	3:AC:72:LYS:H	2.06	0.59
24:CY:213:HIS:O	24:CY:217:VAL:HG23	2.03	0.59
40:DF:17:ARG:HH11	40:DF:17:ARG:HG3	1.68	0.59
31:D6:45:LYS:HE3	35:DA:2371:G:H5''	1.85	0.59
6:CF:37:VAL:O	6:CF:38:GLU:HG3	2.03	0.59
39:DE:36:ARG:HG2	39:DE:36:ARG:NH1	2.14	0.59
3:AC:79:ARG:CB	3:AC:79:ARG:HH11	2.11	0.59
52:BT:90:GLN:HG2	52:BT:120:ARG:NH2	2.17	0.59
35:BA:2188:C:H2'	35:BA:2189:U:C6	2.38	0.59
1:CA:1226:C:N4	13:CM:104:ARG:HD2	2.17	0.59
52:DT:29:ARG:CG	52:DT:85:LYS:HA	2.33	0.59
24:CY:530:VAL:O	24:CY:531:GLY:C	2.41	0.59
40:DF:158:THR:HG21	40:DF:163:VAL:HB	1.85	0.59
58:DZ:142:SER:H	58:DZ:144:LEU:CD2	2.16	0.59
35:DA:1049:C:H2'	35:DA:1050:A:H8	1.67	0.59
1:AA:1190:G:H3'	3:AC:3:ASN:HD22	1.67	0.59
35:DA:1163:G:O2'	35:DA:1164:G:H5'	2.03	0.59
24:CY:71:THR:HG21	24:CY:357:ARG:HD2	1.83	0.59
49:DQ:12:GLN:NE2	49:DQ:73:PRO:HD2	2.16	0.59
18:AR:74:ARG:HD3	18:AR:81:PHE:CD2	2.37	0.59
47:DO:4:PRO:O	47:DO:5:GLN:CB	2.51	0.59
24:AY:529:ILE:HD11	24:AY:567:LEU:HD11	1.84	0.59
35:DA:2801:A:H4'	35:DA:2801(A):A:O4'	2.02	0.59
35:BA:688:U:H4'	35:BA:1780:A:C2	2.37	0.59
17:AQ:53:LEU:HD21	17:AQ:85:VAL:HG11	1.84	0.59
35:DA:1993:U:H4'	39:DE:128:SER:OG	2.02	0.59
7:CG:64:GLN:O	7:CG:67:GLU:HB3	2.02	0.59
8:AH:86:ILE:HG12	8:AH:135:CYS:HA	1.83	0.59
38:BD:134:ARG:HG3	38:BD:135:PHE:CD1	2.37	0.59
35:DA:2495:G:H5''	49:DQ:82:ARG:HG2	1.84	0.59
35:DA:1212:G:O2'	35:DA:1236:G:N2	2.35	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:BH:171:LEU:CD2	42:BH:171:LEU:C	2.71	0.59
40:DF:39:TRP:CB	40:DF:101:LEU:HD22	2.32	0.59
41:BG:91:ARG:C	41:BG:91:ARG:HD2	2.23	0.59
35:BA:1242:A:C6	48:BP:8:PRO:HG2	2.38	0.59
35:DA:1711:C:O2'	35:DA:1712:C:H5'	2.03	0.59
35:BA:274:G:O2'	35:BA:275:G:H5''	2.01	0.59
42:DH:12:PRO:CD	42:DH:49:VAL:HG12	2.24	0.59
58:BZ:152:ALA:HA	58:BZ:167:PRO:HB2	1.84	0.59
41:BG:131:TYR:CE2	41:BG:133:LEU:HB3	2.38	0.59
46:DN:128:HIS:HE1	46:DN:134:ARG:HH11	1.50	0.59
47:BO:61:VAL:HG21	47:BO:111:PHE:CE2	2.38	0.59
35:BA:2506:U:H4'	35:BA:2507:C:OP1	2.00	0.59
52:BT:90:GLN:O	52:BT:91:ARG:C	2.40	0.59
39:DE:184:VAL:O	39:DE:186:GLY:N	2.28	0.59
58:BZ:107:THR:HG23	58:BZ:111:VAL:HG21	1.83	0.59
35:BA:675:A:OP1	40:BF:63:LYS:HE2	2.03	0.59
51:DS:98:VAL:HG12	51:DS:100:ALA:HB2	1.85	0.59
37:DC:29:LEU:HD23	37:DC:29:LEU:C	2.22	0.59
24:AY:196:ILE:HG13	24:AY:197:ARG:N	2.17	0.59
16:CP:25:ARG:HG3	16:CP:25:ARG:NH1	2.18	0.59
35:BA:2111:C:C2	35:BA:2147:G:N2	2.71	0.59
1:CA:1190:G:H3'	3:CC:3:ASN:HD22	1.68	0.59
1:CA:630:G:O2'	1:CA:631:G:H5''	2.03	0.59
49:BQ:21:THR:HG23	49:BQ:101:ARG:HB2	1.85	0.59
48:BP:80:TYR:CE1	48:BP:111:ARG:HG2	2.38	0.59
35:BA:2794:C:H42	35:BA:2801(A):A:H61	1.50	0.59
2:CB:111:ARG:HG2	2:CB:111:ARG:HH11	1.67	0.59
35:DA:1361:G:O2'	35:DA:1362:C:H5'	2.02	0.59
35:BA:1168:G:H2'	35:BA:1169:G:C8	2.37	0.59
5:CE:42:GLY:HA3	5:CE:66:MET:HG2	1.83	0.59
17:AQ:80:GLY:O	17:AQ:81:ARG:HD2	2.02	0.59
2:AB:7:VAL:O	2:AB:11:LEU:HG	2.02	0.59
41:BG:130:ASN:OD1	41:BG:160:VAL:HA	2.02	0.59
7:CG:121:ALA:O	7:CG:125:MET:HG3	2.03	0.59
57:DY:43:ASN:ND2	57:DY:64:GLU:HG3	2.17	0.59
35:BA:2233:U:H2'	35:BA:2234:G:C8	2.37	0.59
1:CA:122:G:O2'	1:CA:123:C:H5'	2.03	0.59
35:DA:1093:G:H21	35:DA:1098:A:H62	1.50	0.59
35:BA:1405:U:H2'	35:BA:1406:U:C6	2.38	0.59
10:CJ:29:ARG:HB3	10:CJ:29:ARG:CZ	2.32	0.59
41:BG:85:GLY:C	41:BG:87:PRO:HD3	2.22	0.59
1:CA:1490:C:C5'	1:CA:1490:C:H6	2.13	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:CI:4:TYR:HA	9:CI:88:TYR:CE1	2.38	0.59
40:BF:32:LEU:O	40:BF:36:VAL:HG23	2.03	0.59
16:AP:21:VAL:HG11	16:AP:59:TRP:NE1	2.18	0.59
46:BN:41:ASP:C	53:BU:64:ARG:HH22	2.05	0.59
24:AY:413:ILE:HG22	24:AY:449:THR:O	2.02	0.59
24:AY:487:ILE:HD13	24:AY:487:ILE:H	1.68	0.59
35:BA:363(A):A:H2'	35:BA:363(B):G:H8	1.68	0.59
2:CB:164:VAL:HG12	2:CB:165:VAL:N	2.17	0.59
18:AR:37:VAL:O	18:AR:39:VAL:N	2.36	0.59
3:AC:58:GLU:H	3:AC:65:ALA:CB	2.09	0.59
33:D8:6:THR:HG22	33:D8:63:PRO:HD3	1.83	0.59
35:DA:1858:G:H2'	35:DA:1883:G:H22	1.66	0.59
24:CY:388:THR:C	24:CY:389:LEU:HD12	2.22	0.59
35:DA:650:C:H2'	35:DA:651:G:H5''	1.85	0.59
2:CB:204:ASN:HD22	2:CB:206:ASP:H	1.49	0.59
29:D4:2:LYS:O	29:D4:4:GLY:N	2.35	0.59
35:BA:2891:G:H4'	35:BA:2892:A:OP1	2.01	0.59
1:CA:1054:C:OP2	1:CA:1197:G:OP2	2.20	0.59
29:D4:24:THR:HG21	41:DG:104:GLU:HG2	1.84	0.59
6:AF:1:MET:HE1	6:AF:68:PRO:HD3	1.85	0.59
38:BD:24:ILE:O	38:BD:25:THR:O	2.20	0.59
12:AL:27:LEU:HG	12:AL:62:SER:HB2	1.85	0.59
37:DC:26:ALA:O	37:DC:30:VAL:HG23	2.03	0.59
55:DW:17:VAL:O	55:DW:20:VAL:HG22	2.03	0.59
1:CA:275:G:H5''	17:CQ:14:LYS:CB	2.32	0.59
1:CA:277:C:O2'	1:CA:278:G:H5'	2.02	0.59
49:BQ:24:GLY:O	49:BQ:102:VAL:HG23	2.02	0.59
52:BT:129:ARG:CG	52:BT:129:ARG:O	2.50	0.59
19:CS:21:GLU:HG3	19:CS:22:LEU:HD23	1.84	0.59
24:AY:606:MET:O	24:AY:646:PHE:HA	2.02	0.59
1:AA:1347:G:O2'	1:AA:1348:U:OP2	2.21	0.59
20:AT:84:LEU:C	20:AT:86:ARG:H	2.06	0.59
16:AP:50:LYS:O	16:AP:51:VAL:HG23	2.03	0.59
35:BA:1930:G:O2'	35:BA:1931:U:P	2.61	0.59
1:CA:72:C:H2'	1:CA:73:G:C8	2.37	0.59
35:BA:1169:G:H1	35:BA:1180:C:H42	1.49	0.59
45:BM:5:UNK:C	45:BM:7:UNK:N	3.27	0.59
35:DA:519:U:H5''	55:DW:25:ARG:NH2	2.17	0.59
35:BA:2495:G:H5''	49:BQ:82:ARG:HG2	1.85	0.59
35:DA:1847:A:H3'	35:DA:1848:A:H5'	1.84	0.59
35:DA:451:C:H41	35:DA:453:C:H3'	1.68	0.59
24:CY:223:PHE:CE2	24:CY:249:GLY:HA3	2.38	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AF:42:GLU:O	6:AF:44:GLY:N	2.36	0.59
6:CF:36:ARG:CZ	6:CF:36:ARG:HB3	2.31	0.59
3:CC:99:VAL:HG23	3:CC:99:VAL:O	2.03	0.59
15:CO:65:ARG:HH11	15:CO:65:ARG:HG2	1.67	0.59
2:CB:193:ASP:O	2:CB:193:ASP:OD2	2.20	0.59
1:CA:313:A:O2'	1:CA:314:C:H5'	2.03	0.59
1:CA:434:U:H2'	1:CA:435:C:C6	2.38	0.59
35:DA:1109:C:H5'	35:DA:1110:G:OP2	2.03	0.59
24:CY:142:THR:HG22	24:CY:143:GLY:N	2.17	0.59
24:CY:85:PRO:O	24:CY:87:HIS:N	2.36	0.59
40:BF:148:LEU:HD23	40:BF:191:ARG:NH1	2.18	0.59
40:BF:185:ASP:OD1	40:BF:188:ARG:HD3	2.03	0.59
35:BA:1711:C:O2'	35:BA:1712:C:H5'	2.03	0.59
24:AY:414:GLU:O	24:AY:474:ALA:HB1	2.03	0.59
35:DA:296:C:O2'	35:DA:297:C:H5'	2.03	0.59
58:BZ:99:TYR:CE2	58:BZ:125:LEU:HD13	2.37	0.59
41:DG:91:ARG:HD2	41:DG:92:VAL:N	2.18	0.59
38:BD:241:PRO:O	38:BD:242:ARG:HB2	2.02	0.59
31:B6:18:ARG:HG3	31:B6:19:ARG:H	1.68	0.59
47:DO:47:ILE:CG2	47:DO:48:PRO:HD2	2.33	0.59
35:DA:2030:A:H5''	35:DA:2031:A:OP1	2.02	0.59
1:AA:1521:G:H2'	1:AA:1522:U:C6	2.38	0.59
6:AF:38:GLU:O	6:AF:39:LYS:O	2.20	0.59
48:BP:91:PHE:N	48:BP:91:PHE:CD1	2.67	0.59
48:BP:97:PRO:HD3	48:BP:126:VAL:O	2.03	0.59
35:DA:143:G:H4'	56:DX:35:THR:HG21	1.83	0.59
35:BA:2745:C:H2'	35:BA:2746:U:C6	2.38	0.59
40:DF:59:TYR:HE1	40:DF:85:GLY:O	1.85	0.59
10:CJ:55:LYS:H	10:CJ:55:LYS:HE3	1.68	0.59
39:BE:52:LEU:O	39:BE:74:PRO:HA	2.03	0.59
4:AD:129:ASN:HD21	4:AD:145:GLU:N	1.96	0.59
54:BV:18:LEU:CG	54:BV:19:LYS:H	2.15	0.59
30:B5:43:HIS:HD2	35:BA:2815:C:O2'	1.85	0.59
1:CA:960:U:C5	1:CA:1225:A:C8	2.91	0.59
38:DD:267:SER:HA	38:DD:270:ILE:HD11	1.84	0.59
52:BT:57:PHE:C	52:BT:58:ASN:HD22	2.06	0.59
1:CA:1463:C:O2'	1:CA:1464:G:H5'	2.02	0.59
25:D0:14:ARG:CB	25:D0:14:ARG:HH11	2.15	0.59
35:BA:2018:G:H21	53:BU:34:LYS:NZ	2.00	0.59
58:BZ:108:PRO:HB3	58:BZ:141:VAL:CG1	2.33	0.59
9:CI:93:ARG:C	9:CI:95:LYS:H	2.06	0.59
1:AA:183:G:H2'	1:AA:184:G:H8	1.67	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
57:BY:2:ARG:N	57:BY:4:LYS:HG2	2.18	0.59
19:CS:21:GLU:HG3	19:CS:22:LEU:CD2	2.33	0.59
35:BA:528:A:H2	35:BA:2043:C:C5'	2.15	0.59
36:BB:20:C:H2'	36:BB:21:G:H5'	1.84	0.59
49:BQ:27:VAL:HG11	49:BQ:134:ARG:HD3	1.84	0.59
35:DA:492:A:C2'	35:DA:493:G:H5'	2.33	0.59
40:DF:125:LEU:HD23	40:DF:125:LEU:N	2.17	0.59
44:DK:37:PHE:O	44:DK:41:PHE:HB3	2.02	0.59
38:BD:9:TYR:C	38:BD:10:THR:HG22	2.23	0.59
37:DC:57:GLN:NE2	37:DC:205:ALA:HA	2.18	0.59
35:DA:443:A:H3'	40:DF:45:ARG:HH21	1.67	0.59
50:DR:28:LEU:CD2	50:DR:29:LEU:HD12	2.32	0.59
45:DL:67:UNK:O	45:DL:69:UNK:N	2.36	0.59
55:DW:9:TYR:H	55:DW:102:HIS:HD2	1.50	0.59
35:DA:2097:C:H2'	35:DA:2098:U:H6	1.67	0.59
24:CY:109:ASP:OD1	24:CY:111:SER:HB2	2.02	0.59
42:DH:92:ILE:O	42:DH:94:TYR:N	2.30	0.59
35:DA:564:C:O2'	35:DA:565:C:H5'	2.03	0.59
47:DO:91:LEU:N	47:DO:91:LEU:HD22	2.18	0.59
1:AA:1279:A:H5'	1:AA:1280:A:OP1	2.03	0.59
1:CA:882:C:O2'	1:CA:883:C:H5'	2.03	0.59
35:DA:1203:G:H3'	35:DA:1204:A:C5'	2.33	0.58
35:DA:1245:G:C5'	40:DF:34:TRP:HZ2	2.16	0.58
58:BZ:54:HIS:HE1	58:BZ:123:ASP:OD2	1.85	0.58
52:BT:28:VAL:HG21	52:BT:46:GLU:CG	2.26	0.58
25:B0:10:THR:HG22	25:B0:11:ARG:H	1.68	0.58
24:CY:181:LEU:CD2	24:CY:243:VAL:HG22	2.30	0.58
58:BZ:4:ARG:HH12	58:BZ:66:SER:CB	2.15	0.58
35:DA:358:U:H2'	35:DA:359:A:C8	2.27	0.58
35:DA:2262:U:C2'	35:DA:2263:C:H5''	2.31	0.58
51:DS:99:LYS:O	51:DS:101:LEU:N	2.36	0.58
39:BE:9:VAL:CG2	39:BE:10:GLY:N	2.65	0.58
26:B1:57:GLU:HG2	26:B1:58:ILE:N	2.18	0.58
26:B1:41:ARG:HH22	35:BA:1365:A:C5'	2.16	0.58
42:BH:83:TYR:HB3	42:BH:135:GLY:N	2.16	0.58
38:BD:130:ALA:C	38:BD:131:LEU:HD12	2.24	0.58
25:B0:14:ARG:CB	25:B0:14:ARG:HH11	2.15	0.58
1:CA:1308:U:H5''	13:CM:98:VAL:CG2	2.32	0.58
35:BA:279:C:H3'	35:BA:280:C:H5''	1.84	0.58
24:CY:515:GLU:OE2	24:CY:564:LYS:HD3	2.03	0.58
24:AY:519:ARG:NH1	24:AY:678:GLU:HB2	2.18	0.58
49:BQ:39:PRO:HB3	49:BQ:99:PRO:HD3	1.85	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:510:VAL:HG13	24:AY:569:ASP:O	2.02	0.58
24:CY:416:LYS:HG2	24:CY:417:THR:N	2.19	0.58
35:BA:605:C:H2'	35:BA:606:U:H6	1.67	0.58
52:BT:35:LYS:NZ	52:BT:41:ARG:NH1	2.50	0.58
20:CT:84:LEU:C	20:CT:86:ARG:H	2.06	0.58
42:BH:68:THR:O	42:BH:72:ILE:HG12	2.03	0.58
1:CA:100:C:H2'	1:CA:101:A:C8	2.38	0.58
52:DT:51:ARG:O	52:DT:61:PHE:HA	2.03	0.58
1:AA:1410:G:H2'	1:AA:1411:C:H6	1.68	0.58
6:CF:36:ARG:NH1	6:CF:36:ARG:HB3	2.18	0.58
6:CF:4:TYR:CE1	6:CF:92:LYS:HD2	2.38	0.58
35:DA:1525:G:H2'	35:DA:1526:G:C8	2.38	0.58
8:CH:5:PRO:O	8:CH:8:ASP:HB3	2.02	0.58
1:AA:313:A:O2'	1:AA:314:C:H5'	2.03	0.58
1:AA:861:G:O2'	1:AA:862:C:H5'	2.02	0.58
1:AA:405:U:H3'	1:AA:406:G:H5'	1.84	0.58
38:BD:31:LYS:NZ	38:BD:33:LEU:HB2	2.18	0.58
10:AJ:94:VAL:HG12	10:AJ:95:GLU:N	2.17	0.58
24:AY:544:LYS:O	24:AY:548:GLU:HB2	2.03	0.58
1:CA:499:A:H4'	1:CA:500:G:OP1	2.02	0.58
57:BY:43:ASN:ND2	57:BY:64:GLU:HG3	2.17	0.58
1:AA:434:U:H2'	1:AA:435:C:C6	2.38	0.58
9:AI:4:TYR:HA	9:AI:88:TYR:CE1	2.38	0.58
25:D0:10:THR:HG22	25:D0:11:ARG:H	1.68	0.58
16:CP:20:VAL:HG21	16:CP:32:TYR:CG	2.37	0.58
35:BA:1485:G:N3	35:BA:1505:C:N3	2.51	0.58
35:BA:320:A:H4'	35:BA:322:A:C8	2.38	0.58
38:DD:80:ALA:HB3	38:DD:94:LEU:HB3	1.85	0.58
35:DA:2056:G:H2'	35:DA:2056:G:N3	2.17	0.58
24:CY:110:SER:HA	24:CY:149:VAL:CG2	2.33	0.58
24:CY:137:ASN:O	24:CY:139:MET:N	2.30	0.58
24:CY:183:MET:O	24:CY:201:ILE:HD11	2.03	0.58
24:CY:227:ILE:HD13	24:CY:242:LEU:HA	1.85	0.58
1:CA:1298:C:H5''	7:CG:114:ARG:HH22	1.68	0.58
27:B2:3:LEU:HB2	35:BA:98:G:OP1	2.02	0.58
35:DA:27:G:O2'	35:DA:28:A:H8	1.85	0.58
35:BA:6:A:N3	35:BA:6:A:H2'	2.17	0.58
35:DA:1493:C:C4	35:DA:2206:G:O2'	2.56	0.58
19:CS:29:ARG:O	19:CS:31:ILE:N	2.35	0.58
5:AE:11:ILE:HD12	5:AE:31:LEU:CD1	2.32	0.58
9:AI:93:ARG:C	9:AI:95:LYS:H	2.06	0.58
42:DH:16:SER:CB	42:DH:27:LYS:HB2	2.31	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
58:BZ:109:ALA:C	58:BZ:111:VAL:N	2.57	0.58
1:AA:741:G:O2'	1:AA:742:G:H5'	2.03	0.58
12:CL:27:LEU:HG	12:CL:62:SER:HB2	1.85	0.58
1:CA:1370:G:C2	1:CA:1371:G:C8	2.91	0.58
1:AA:1298:C:H5''	7:AG:114:ARG:HH22	1.69	0.58
5:AE:100:VAL:HG23	5:AE:100:VAL:O	2.02	0.58
35:DA:2200:C:H42	35:DA:2223:G:H1	1.51	0.58
55:BW:109:GLU:CD	55:BW:109:GLU:H	2.07	0.58
35:BA:365:C:C6	35:BA:365:C:H5'	2.37	0.58
1:AA:1348:U:H2'	1:AA:1349:A:H8	1.67	0.58
35:BA:184:C:H2'	35:BA:185:U:H6	1.65	0.58
1:CA:1305:G:N2	1:CA:1331:G:O2'	2.30	0.58
42:BH:86:GLU:HA	42:BH:132:ARG:HA	1.84	0.58
35:DA:1717:G:C2'	35:DA:1718:G:H5''	2.34	0.58
35:DA:271(I):G:H3'	35:DA:271(J):C:H6	1.68	0.58
24:CY:485:GLU:OE2	24:CY:553:GLY:HA3	2.02	0.58
30:D5:19:ARG:HA	35:DA:2046:G:C5'	2.32	0.58
4:AD:102:ASP:HB3	4:AD:136:PRO:HB3	1.84	0.58
54:DV:32:THR:OG1	54:DV:60:GLU:HG3	2.04	0.58
39:DE:101:ARG:HH11	39:DE:169:ASN:ND2	2.01	0.58
35:BA:1467:C:C5	35:BA:1546:C:H2'	2.38	0.58
1:AA:1016:A:H2'	1:AA:1017:G:O4'	2.02	0.58
1:AA:812:C:O2'	1:AA:813:U:OP2	2.20	0.58
1:AA:241:C:O2'	1:AA:242:C:H5'	2.03	0.58
1:CA:1429:C:H2'	1:CA:1430:C:C6	2.38	0.58
36:BB:18:G:H2'	36:BB:19:G:H8	1.68	0.58
35:DA:1794:U:O2'	35:DA:1795:C:H5'	2.03	0.58
35:DA:1614:A:H2'	35:DA:1615:C:H5'	1.84	0.58
35:BA:1290:C:H2'	35:BA:1291:C:C6	2.38	0.58
35:BA:519:U:H5''	55:BW:25:ARG:NH2	2.18	0.58
24:AY:137:ASN:ND2	24:AY:263:ALA:H	2.00	0.58
1:CA:853:G:O2'	1:CA:854:G:H5'	2.03	0.58
15:AO:64:ARG:HG3	15:AO:64:ARG:HH11	1.69	0.58
37:DC:211:ARG:HG3	37:DC:211:ARG:HH11	1.68	0.58
14:AN:44:LEU:HD12	14:AN:44:LEU:O	2.03	0.58
35:BA:1796:U:OP1	38:BD:276:LYS:HE3	2.03	0.58
35:DA:2233:U:H2'	35:DA:2234:G:C8	2.39	0.58
35:DA:1353:A:H2'	35:DA:1354:A:C8	2.38	0.58
46:BN:97:ARG:O	46:BN:101:HIS:HB2	2.03	0.58
42:DH:156:ALA:O	42:DH:158:HIS:HD2	1.86	0.58
40:DF:24:LEU:HB3	40:DF:25:PRO:CD	2.32	0.58
42:BH:98:LEU:HD22	42:BH:125:VAL:HG23	1.83	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:B4:9:LEU:HD13	29:B4:26:SER:O	2.02	0.58
24:CY:605:ILE:HD11	24:CY:677:GLN:CG	2.32	0.58
4:AD:25:ARG:HH12	4:AD:30:LYS:HB2	1.69	0.58
53:DU:49:HIS:HA	53:DU:52:ARG:HB2	1.84	0.58
53:DU:93:LYS:HD2	53:DU:93:LYS:H	1.69	0.58
33:B8:25:MET:HG3	48:BP:64:LYS:CB	2.33	0.58
58:DZ:58:VAL:HA	58:DZ:67:LEU:O	2.03	0.58
57:DY:9:LYS:HD3	57:DY:94:LYS:HE2	1.83	0.58
35:DA:1485:G:N3	35:DA:1505:C:N3	2.50	0.58
35:DA:27:G:N2	35:DA:512:G:C2'	2.64	0.58
2:CB:97:TRP:CZ2	2:CB:102:LEU:HD13	2.34	0.58
2:CB:151:GLY:O	2:CB:153:ARG:N	2.36	0.58
1:CA:1452:C:O2'	1:CA:1456:G:H5''	2.03	0.58
35:DA:813:U:H2'	35:DA:814:C:C5	2.38	0.58
35:BA:637:A:OP1	48:BP:133:SER:HB3	2.03	0.58
41:DG:133:LEU:HD12	41:DG:133:LEU:O	2.02	0.58
35:DA:2297:C:O2'	35:DA:2298:A:H5'	2.03	0.58
1:AA:483:C:C3'	1:AA:484:G:H5''	2.29	0.58
24:AY:101:LEU:HD12	24:AY:103:GLY:O	2.04	0.58
24:AY:71:THR:HG21	24:AY:357:ARG:HD2	1.83	0.58
35:DA:1827:C:C2'	35:DA:1828:G:H5'	2.32	0.58
26:D1:80:LEU:HB3	26:D1:82:LEU:CD1	2.33	0.58
26:D1:82:LEU:HD23	26:D1:90:ILE:HG23	1.85	0.58
52:DT:108:ARG:HA	52:DT:111:ARG:NH1	2.18	0.58
27:D2:36:ARG:HA	27:D2:39:ALA:CB	2.33	0.58
35:BA:1332:G:H22	35:BA:1609:A:H3'	1.68	0.58
35:DA:797:C:OP1	40:DF:62:ARG:HG3	2.02	0.58
58:BZ:145:GLU:OE1	58:BZ:146:ILE:HD13	2.03	0.58
19:AS:64:GLU:C	29:B4:48:ARG:HH22	2.07	0.58
56:BX:8:ILE:HD11	56:BX:42:ALA:O	2.02	0.58
4:AD:203:VAL:O	4:AD:206:PHE:HB3	2.03	0.58
4:AD:61:LYS:HD3	4:AD:206:PHE:CE2	2.38	0.58
20:CT:47:GLY:O	20:CT:49:ALA:N	2.30	0.58
1:CA:59:A:H2'	1:CA:59:A:N3	2.17	0.58
35:DA:145:G:H2'	35:DA:146:G:C8	2.37	0.58
35:DA:573:G:O2'	35:DA:574:C:H3'	2.03	0.58
35:DA:528:A:H2	35:DA:2043:C:C5'	2.15	0.58
48:DP:80:TYR:CE1	48:DP:111:ARG:HG2	2.37	0.58
1:CA:160:A:H1'	1:CA:344:A:N7	2.18	0.58
1:AA:160:A:H1'	1:AA:344:A:N7	2.18	0.58
36:DB:48:A:H2'	36:DB:49:C:C6	2.37	0.58
24:CY:498:ILE:HG13	24:CY:498:ILE:O	2.03	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:484:C:OP1	57:DY:50:ARG:HG3	2.03	0.58
35:DA:1196:C:O2'	35:DA:1227:G:H4'	2.04	0.58
35:DA:889:C:H2'	35:DA:890:A:O4'	2.03	0.58
1:AA:955:U:O2'	1:AA:956:U:H5'	2.03	0.58
26:D1:3:LYS:HD3	35:DA:1364:G:H5''	1.84	0.58
42:DH:171:LEU:CD2	42:DH:171:LEU:C	2.71	0.58
41:BG:107:LEU:HD23	41:BG:111:LEU:CD1	2.32	0.58
24:AY:108:PHE:HE1	24:AY:118:SER:HB2	1.67	0.58
24:AY:227:ILE:HD13	24:AY:242:LEU:HA	1.85	0.58
22:AW:68:C:H2'	22:AW:69:C:C5	2.38	0.58
58:DZ:9:TYR:OH	58:DZ:61:LEU:HD13	2.04	0.58
38:BD:34:VAL:C	38:BD:36:PRO:HD2	2.24	0.58
42:BH:12:PRO:O	42:BH:15:VAL:HG22	2.04	0.58
31:D6:9:LEU:HD12	31:D6:28:ARG:HG3	1.84	0.58
31:D6:11:LEU:CD2	31:D6:51:GLU:HG3	2.32	0.58
10:CJ:78:ASN:HB2	10:CJ:81:THR:HG23	1.85	0.58
52:BT:28:VAL:CG1	52:BT:46:GLU:HA	2.33	0.58
30:D5:44:THR:O	30:D5:51:TYR:HE1	1.87	0.58
52:DT:27:THR:O	52:DT:28:VAL:CG2	2.48	0.58
53:DU:8:VAL:HG23	53:DU:11:ARG:HH21	1.68	0.58
35:DA:2439:A:HO2'	35:DA:2587:A:H5''	1.64	0.58
35:DA:570:G:H2'	35:DA:2030:A:C5	2.38	0.58
1:AA:1392:G:N2	1:AA:1502:A:C8	2.71	0.58
35:DA:1799:G:H8	38:DD:181:GLU:OE1	1.87	0.58
35:BA:2809:A:H2'	35:BA:2810:A:C8	2.39	0.58
35:DA:2809:A:H2'	35:DA:2810:A:C8	2.38	0.58
13:CM:49:THR:HB	13:CM:52:GLU:HG3	1.85	0.58
52:DT:90:GLN:O	52:DT:91:ARG:C	2.41	0.58
52:BT:85:LYS:HZ3	52:BT:85:LYS:HB3	1.64	0.58
30:B5:43:HIS:CD2	35:BA:2815:C:O2'	2.56	0.58
52:BT:108:ARG:HA	52:BT:111:ARG:NH1	2.18	0.58
35:DA:1949:G:H2'	35:DA:1950:G:C8	2.38	0.58
36:BB:115:G:H2'	36:BB:116:G:H8	1.69	0.58
7:CG:140:ASP:O	7:CG:144:MET:HG2	2.04	0.58
18:CR:44:LEU:O	18:CR:45:SER:C	2.39	0.58
1:AA:218:C:H5'	1:AA:470:C:N4	2.18	0.58
17:AQ:48:GLU:O	17:AQ:50:LYS:N	2.35	0.58
35:DA:1221(A):C:O2'	35:DA:1222:C:H5'	2.03	0.58
6:CF:11:ASN:HB3	6:CF:14:LEU:HG	1.83	0.58
35:BA:552:G:H8	35:BA:552:G:H5'	1.68	0.58
19:AS:46:GLY:N	19:AS:62:ILE:HG23	2.18	0.58
35:BA:654(P):C:C2'	35:BA:654(Q):C:H5'	2.32	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2662:A:H2'	35:DA:2663:G:O4'	2.03	0.58
43:DJ:37:UNK:C	43:DJ:39:UNK:N	2.65	0.58
1:AA:219:C:H2'	1:AA:220:G:O4'	2.02	0.58
1:CA:8:A:N6	4:CD:209:ARG:HB2	2.17	0.58
1:CA:38:G:C2	1:CA:397:A:C2	2.92	0.58
35:DA:2506:U:H4'	35:DA:2507:C:OP1	2.02	0.58
35:DA:1308:A:H2'	35:DA:1309:G:O4'	2.02	0.58
4:CD:26:CYS:HA	4:CD:31:CYS:HA	1.85	0.58
4:AD:29:PRO:C	4:AD:30:LYS:HG2	2.23	0.58
24:AY:108:PHE:CE1	24:AY:118:SER:HB2	2.37	0.58
58:DZ:120:ILE:HB	58:DZ:171:ILE:O	2.03	0.58
35:BA:2646:C:OP2	35:BA:2732:G:H2'	2.02	0.58
53:BU:92:ARG:NH2	54:BV:11:GLN:H	2.01	0.58
35:DA:320:A:H4'	35:DA:322:A:C8	2.38	0.58
35:BA:274:G:H2'	35:BA:274:G:N3	2.18	0.58
35:BA:303:U:H2'	35:BA:304:G:C8	2.39	0.58
33:D8:14:VAL:CG2	33:D8:22:VAL:HG13	2.32	0.58
35:DA:2303:G:N2	35:DA:2313:C:O2	2.36	0.58
47:DO:114:ILE:HD12	47:DO:114:ILE:N	2.17	0.58
35:DA:1301:A:O2'	35:DA:1302:A:C2'	2.47	0.58
27:B2:3:LEU:HD22	27:B2:7:ARG:CZ	2.33	0.58
35:BA:1815:A:OP2	35:BA:1822:G:H5''	2.03	0.58
35:DA:448:U:O4	35:DA:583:G:H1'	2.03	0.58
33:B8:61:LEU:CD1	33:B8:62:LEU:H	2.10	0.58
44:BK:77:LEU:HD12	44:BK:107:ILE:CG2	2.32	0.58
1:CA:1441:G:H4'	1:CA:1442:G:C5	2.37	0.58
35:BA:192:C:C2'	35:BA:193:U:H5'	2.29	0.58
35:BA:2742:C:C2'	35:BA:2743:C:H5'	2.33	0.58
2:AB:21:ARG:HB3	2:AB:39:ILE:HA	1.86	0.58
36:BB:88:C:H2'	36:BB:89:G:C8	2.38	0.58
1:CA:296:U:O2'	1:CA:297:G:H5'	2.03	0.58
2:AB:12:GLU:HA	2:AB:16:HIS:ND1	2.17	0.58
36:BB:105:A:P	58:BZ:72:ARG:HH12	2.26	0.58
35:DA:1516:C:C2'	35:DA:1517:G:H5''	2.34	0.58
24:CY:592:GLU:O	24:CY:592:GLU:HG2	2.04	0.58
35:BA:285:C:H2'	35:BA:286:C:H5'	1.86	0.58
42:DH:105:LEU:HD23	42:DH:113:VAL:HB	1.85	0.58
46:BN:18:ALA:CB	46:BN:21:LYS:HB2	2.33	0.58
49:BQ:108:GLY:O	49:BQ:109:VAL:HG23	2.03	0.58
1:CA:1404:C:H5'	1:CA:1405:G:OP2	2.03	0.58
35:BA:570:G:H2'	35:BA:2030:A:C5	2.39	0.58
35:BA:2454:G:C2'	35:BA:2455:G:H5'	2.32	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:999:C:H2'	1:CA:1000:U:C6	2.39	0.58
35:BA:16:G:O2'	35:BA:17:G:H5'	2.03	0.58
42:DH:86:GLU:HB2	42:DH:132:ARG:HB3	1.86	0.58
46:DN:126:PRO:O	46:DN:127:ASP:HB2	2.03	0.58
26:B1:26:ARG:HG3	26:B1:27:GLU:N	2.17	0.58
1:CA:992:U:H4'	1:CA:993:G:O5'	2.04	0.58
3:CC:51:GLY:O	3:CC:115:LEU:HD21	2.03	0.58
1:AA:99:U:H2'	1:AA:100:C:C6	2.38	0.58
3:CC:25:GLY:O	3:CC:27:LYS:N	2.35	0.58
33:B8:16:ILE:HD12	33:B8:57:ARG:HG2	1.85	0.58
24:CY:175:SER:O	24:CY:188:TYR:HD2	1.86	0.58
35:DA:198:C:H42	35:DA:248:G:H1	1.50	0.58
33:D8:16:ILE:HD12	33:D8:57:ARG:HG2	1.84	0.58
24:CY:628:ARG:HG2	24:CY:628:ARG:HH11	1.67	0.58
51:DS:51:ALA:HB3	51:DS:73:LEU:HD12	1.85	0.58
10:CJ:90:LEU:N	10:CJ:91:PRO:HD3	2.18	0.58
4:CD:17:VAL:HG12	4:CD:17:VAL:O	2.03	0.58
7:AG:82:GLY:HA3	23:AX:13:A:H2	1.69	0.58
7:CG:82:GLY:HA3	23:CX:13:A:H2	1.69	0.58
58:DZ:125:LEU:HD23	58:DZ:164:ALA:O	2.04	0.58
24:AY:431:LEU:CD2	24:AY:466:LEU:HD13	2.33	0.58
38:DD:34:VAL:C	38:DD:36:PRO:HD2	2.24	0.58
38:DD:61:LEU:HB3	38:DD:63:ARG:HH12	1.69	0.58
58:DZ:44:PHE:O	58:DZ:48:PHE:N	2.27	0.58
57:DY:39:VAL:HG12	57:DY:40:GLU:HG2	1.85	0.58
57:BY:94:LYS:HG3	57:BY:102:CYS:SG	2.43	0.58
33:D8:48:PHE:C	33:D8:49:VAL:HG22	2.23	0.58
33:D8:51:ALA:N	33:D8:53:PRO:HD2	2.18	0.58
30:D5:3:LYS:NZ	35:DA:2613:U:C2'	2.67	0.58
24:CY:174:PHE:HZ	24:CY:261:GLY:HA2	1.66	0.58
24:CY:259:PHE:HB2	24:CY:272:LEU:HD13	1.85	0.58
52:DT:28:VAL:HG22	52:DT:47:GLY:H	1.69	0.58
31:B6:15:GLU:CG	31:B6:47:THR:HG21	2.33	0.58
35:BA:2260:C:H2'	35:BA:2261:C:H6	1.67	0.58
24:AY:273:LEU:O	24:AY:276:VAL:HB	2.04	0.58
27:D2:20:GLU:HG3	27:D2:21:LEU:N	2.18	0.58
35:DA:2307:G:C2	35:DA:2308:G:H5''	2.38	0.58
56:DX:35:THR:HG22	56:DX:37:THR:N	2.11	0.58
29:D4:3:GLU:HG2	36:DB:40:U:C5	2.39	0.58
35:BA:2572:A:H5'	35:BA:2574:G:C4'	2.28	0.58
47:BO:47:ILE:CG2	47:BO:48:PRO:HD2	2.34	0.58
1:AA:393:A:O2'	1:AA:394:G:H5'	2.03	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:AM:90:LEU:O	13:AM:91:ARG:C	2.40	0.58
52:BT:83:ILE:HG13	52:BT:84:GLN:H	1.67	0.58
2:AB:223:ILE:HG23	2:AB:226:ARG:NH1	2.18	0.58
35:BA:2762:G:H8	35:BA:2762:G:H5'	1.69	0.58
52:DT:11:GLU:C	52:DT:13:ARG:H	2.06	0.58
15:CO:76:GLU:C	15:CO:78:TYR:H	2.07	0.58
38:BD:131:LEU:HD13	38:BD:136:ILE:HD11	1.86	0.58
25:B0:51:VAL:CG2	25:B0:81:VAL:HG23	2.34	0.58
13:AM:15:VAL:HG12	13:AM:45:VAL:CG2	2.33	0.58
25:B0:43:THR:O	25:B0:43:THR:HG23	2.03	0.58
12:AL:28:LYS:HE2	12:AL:33:ARG:HH12	1.68	0.58
39:DE:45:THR:O	39:DE:46:ALA:HB2	2.03	0.58
35:DA:2461:C:H42	35:DA:2489:G:H1	1.51	0.58
24:AY:65:ILE:O	24:AY:65:ILE:HG12	2.02	0.58
52:DT:129:ARG:O	52:DT:129:ARG:CG	2.51	0.58
1:AA:630:G:O2'	1:AA:631:G:H5''	2.03	0.58
54:DV:81:TYR:C	54:DV:82:ARG:HD2	2.24	0.58
19:AS:21:GLU:HG3	19:AS:22:LEU:HD23	1.84	0.58
12:AL:47:LYS:HD2	12:AL:48:PRO:HD3	1.85	0.58
14:AN:37:PHE:HE1	14:AN:53:LEU:HD22	1.68	0.58
22:CV:5:G:O2'	22:CV:6:G:H5'	2.02	0.58
54:BV:64:HIS:ND1	54:BV:92:THR:HG22	2.18	0.58
46:DN:18:ALA:CB	46:DN:21:LYS:HB2	2.33	0.58
20:AT:73:HIS:O	20:AT:76:ALA:HB3	2.03	0.58
51:BS:59:LYS:HG2	51:BS:60:GLY:N	2.18	0.58
24:AY:388:THR:HG23	24:AY:399:LEU:HD22	1.85	0.58
24:CY:448:GLN:HG3	24:CY:448:GLN:O	2.04	0.58
35:DA:2348:U:H2'	35:DA:2349:G:H5''	1.85	0.58
35:BA:2329:G:H2'	35:BA:2330:G:H8	1.68	0.58
13:CM:74:VAL:O	13:CM:77:ASN:HB2	2.02	0.58
57:BY:17:SER:OG	57:BY:18:GLY:N	2.36	0.58
2:AB:8:LYS:O	2:AB:11:LEU:N	2.36	0.58
34:B9:10:ILE:O	34:B9:11:CYS:HB3	2.04	0.58
35:BA:2662:A:H2'	35:BA:2663:G:O4'	2.03	0.58
35:BA:1662:C:H2'	35:BA:1663:C:C6	2.39	0.58
17:CQ:76:LEU:HD12	17:CQ:77:VAL:N	2.19	0.58
35:DA:2115:G:N3	35:DA:2117:A:N7	2.52	0.58
35:BA:2511:U:O3'	39:BE:123:ALA:HB3	2.04	0.58
40:DF:28:ILE:HG21	40:DF:116:ASP:HB2	1.85	0.58
10:AJ:78:ASN:HB2	10:AJ:81:THR:HG23	1.85	0.58
35:DA:2577:A:C5'	35:DA:2578:G:H5'	2.33	0.58
10:CJ:71:LEU:HD12	10:CJ:72:VAL:N	2.19	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:25:LYS:HB2	62:AY:703:GDP:O2B	2.04	0.58
35:DA:996:A:O3'	53:DU:92:ARG:HG2	2.04	0.58
24:AY:441:SER:O	24:AY:449:THR:HG23	2.02	0.58
31:B6:8:LYS:HE3	31:B6:25:LYS:CD	2.29	0.58
31:B6:54:ILE:CD1	35:BA:2420:C:H5'	2.33	0.58
1:AA:1004:A:H61	1:AA:1034:G:C2'	2.14	0.58
10:CJ:32:ALA:HB3	10:CJ:78:ASN:HD21	1.67	0.58
35:BA:1059:G:H4'	44:BK:115:LEU:HD23	1.86	0.58
24:CY:224:ASP:OD2	24:CY:245:ALA:HB2	2.03	0.58
37:DC:138:LEU:HD22	37:DC:139:PRO:HD2	1.85	0.58
47:BO:60:ALA:HA	47:BO:87:ILE:CD1	2.33	0.58
35:DA:946:G:H2'	35:DA:947:G:C8	2.38	0.58
46:BN:46:VAL:O	46:BN:47:ALA:HB3	2.02	0.58
35:BA:651:G:H2'	35:BA:652:C:H5'	1.85	0.58
2:CB:61:LEU:HD23	2:CB:68:ILE:HD11	1.85	0.58
30:B5:48:GLU:O	30:B5:49:CYS:SG	2.62	0.58
3:AC:86:VAL:O	3:AC:90:GLU:HG2	2.04	0.58
52:BT:125:ARG:HH11	52:BT:125:ARG:CA	2.11	0.58
19:CS:33:THR:HG22	19:CS:49:ILE:HG22	1.86	0.58
34:B9:22:ARG:HB2	34:B9:24:TYR:HE1	1.68	0.58
30:D5:48:GLU:O	30:D5:49:CYS:CB	2.50	0.58
5:CE:60:TYR:CE1	5:CE:64:ARG:NH2	2.71	0.58
36:BB:87:G:H1	36:BB:91:C:H42	1.51	0.58
25:D0:43:THR:HG22	35:DA:2331:G:O2'	2.04	0.58
46:BN:87:LEU:HD21	46:BN:98:VAL:HG13	1.85	0.58
12:CL:53:ARG:NH1	12:CL:92:ASP:OD2	2.36	0.58
38:DD:26:LYS:O	38:DD:27:THR:HG22	2.03	0.58
1:AA:1124:G:H5'	10:AJ:35:SER:HB2	1.86	0.58
9:AI:47:LEU:C	9:AI:49:PRO:HD2	2.24	0.58
20:AT:88:VAL:O	20:AT:92:LEU:HG	2.04	0.58
27:B2:16:LEU:O	27:B2:20:GLU:HB3	2.04	0.58
25:B0:73:GLY:C	25:B0:75:LEU:H	2.06	0.58
30:D5:43:HIS:HD2	35:DA:2815:C:O2'	1.86	0.58
6:CF:4:TYR:HE1	6:CF:92:LYS:HD2	1.69	0.58
35:DA:1405:U:H2'	35:DA:1406:U:C6	2.38	0.58
8:CH:12:ARG:NH1	8:CH:27:PRO:HD3	2.19	0.58
35:BA:1907:G:O2'	35:BA:1908:C:H5'	2.03	0.58
1:AA:925:G:H5'	1:AA:926:G:OP1	2.03	0.58
11:CK:21:ILE:HD12	11:CK:21:ILE:N	2.18	0.58
35:BA:2603:G:O2'	35:BA:2604:U:H5'	2.04	0.58
35:BA:1308:A:H2'	35:BA:1309:G:O4'	2.02	0.58
35:BA:78:A:O2'	35:BA:79:G:H5'	2.03	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:292:C:O2'	35:DA:293:U:H5'	2.03	0.58
15:AO:65:ARG:HH11	15:AO:65:ARG:HG2	1.67	0.58
28:D3:52:HIS:CD2	28:D3:52:HIS:H	2.19	0.58
35:DA:200:U:H2'	35:DA:201:C:H5'	1.85	0.58
35:DA:680:G:H2'	35:DA:681:G:C8	2.38	0.58
35:DA:1242:A:C6	48:DP:8:PRO:HG2	2.39	0.58
40:BF:18:ARG:HG2	40:BF:19:GLU:N	2.19	0.58
53:DU:83:LEU:HD12	53:DU:83:LEU:N	2.18	0.58
24:AY:468:ARG:C	24:AY:470:PHE:H	2.07	0.58
33:B8:10:ALA:O	33:B8:14:VAL:HG12	2.04	0.58
1:AA:264:U:O2'	17:AQ:64:PRO:HB2	2.04	0.58
39:DE:34:VAL:HG11	39:DE:78:LEU:HD22	1.84	0.58
39:BE:77:ILE:HG22	39:BE:78:LEU:CD1	2.34	0.58
19:AS:78:ARG:HB2	19:AS:81:ARG:NH1	2.18	0.58
57:DY:61:ILE:HG12	57:DY:62:GLU:N	2.19	0.58
35:DA:2742:C:C2'	35:DA:2743:C:H5'	2.33	0.58
36:BB:91:C:O2'	36:BB:92:C:H5'	2.03	0.58
35:DA:2629:A:N3	35:DA:2629:A:H2'	2.18	0.58
9:CI:79:LEU:CD1	9:CI:83:ARG:HD2	2.34	0.58
9:AI:126:SER:O	9:AI:128:ARG:HD2	2.03	0.58
19:AS:9:VAL:O	19:AS:9:VAL:CG1	2.52	0.58
40:DF:163:VAL:O	40:DF:166:ALA:HB3	2.04	0.58
55:DW:59:VAL:CG1	55:DW:59:VAL:O	2.51	0.58
1:CA:1117:G:H5'	1:CA:1117:G:H8	1.68	0.58
1:CA:191:G:H1'	20:CT:105:SER:HA	1.85	0.58
36:DB:112:U:H2'	36:DB:113:G:C8	2.35	0.58
50:DR:12:ARG:HH11	50:DR:12:ARG:HG3	1.69	0.58
38:BD:147:LEU:HD13	38:BD:155:LEU:CD1	2.33	0.58
54:DV:64:HIS:ND1	54:DV:92:THR:HG22	2.19	0.58
58:BZ:153:SER:C	58:BZ:155:LEU:HD23	2.24	0.58
3:CC:130:VAL:HG21	3:CC:157:ILE:HG23	1.86	0.58
32:D7:4:THR:HB	35:DA:788:A:O2'	2.03	0.58
35:BA:1638:C:H2'	35:BA:1639:U:O4'	2.02	0.58
3:CC:112:SER:HB3	3:CC:115:LEU:HD12	1.84	0.58
1:AA:45:U:H2'	1:AA:46:G:C8	2.38	0.58
24:AY:314:PHE:HD1	24:AY:315:LYS:HB2	1.68	0.58
24:CY:637:ARG:HH11	24:CY:637:ARG:HG3	1.69	0.58
46:DN:102:ALA:O	46:DN:106:MET:HE2	2.03	0.58
35:BA:572:A:C2	35:BA:2033:A:C2	2.92	0.58
35:BA:2303:G:N2	35:BA:2313:C:O2	2.36	0.58
24:CY:17:ILE:H	24:CY:17:ILE:CD1	2.16	0.58
35:BA:1043:C:C3'	35:BA:1044:G:H5''	2.34	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
33:B8:25:MET:O	33:B8:47:LYS:HG2	2.03	0.58
33:B8:50:LEU:O	33:B8:52:LYS:N	2.33	0.58
57:DY:88:LYS:HD2	57:DY:88:LYS:N	2.19	0.58
50:DR:99:LYS:N	50:DR:99:LYS:CD	2.58	0.58
40:DF:40:GLN:OE1	40:DF:184:TYR:HB2	2.04	0.58
1:AA:1303:C:C2'	1:AA:1304:G:H5'	2.34	0.58
35:DA:2170:A:H5''	37:DC:135:ARG:HH21	1.67	0.58
24:CY:36:THR:HB	24:CY:72:CYS:HB2	1.85	0.58
35:BA:448:U:O4	35:BA:583:G:H1'	2.03	0.58
48:DP:30:THR:O	48:DP:33:ARG:N	2.26	0.58
48:DP:97:PRO:HD3	48:DP:126:VAL:O	2.04	0.58
48:DP:91:PHE:CE2	48:DP:95:VAL:HG12	2.38	0.58
38:BD:259:THR:O	38:BD:260:ARG:C	2.41	0.58
6:CF:37:VAL:HG12	6:CF:38:GLU:O	2.04	0.58
48:BP:83:VAL:H	48:BP:115:LEU:HD21	1.69	0.58
35:DA:2745:C:H2'	35:DA:2746:U:C6	2.39	0.58
39:BE:144:ARG:O	39:BE:145:LYS:O	2.21	0.58
39:DE:52:LEU:O	39:DE:74:PRO:HA	2.03	0.58
13:AM:49:THR:HB	13:AM:52:GLU:HG3	1.85	0.58
35:BA:2815:C:H2'	35:BA:2816:C:H6	1.68	0.58
2:AB:30:ARG:HG3	2:AB:31:TYR:CD2	2.38	0.58
58:DZ:155:LEU:HD23	58:DZ:155:LEU:N	2.18	0.58
6:CF:33:TYR:HA	6:CF:71:ARG:HH21	1.69	0.58
30:D5:36:CYS:SG	30:D5:49:CYS:SG	3.01	0.58
25:D0:43:THR:O	25:D0:43:THR:HG23	2.03	0.58
35:BA:1668:A:N6	35:BA:1676:A:H61	2.01	0.58
35:BA:2629:A:N3	35:BA:2629:A:H2'	2.17	0.58
38:BD:131:LEU:N	38:BD:131:LEU:CD1	2.67	0.58
25:B0:49:LYS:O	25:B0:51:VAL:HG23	2.04	0.58
58:BZ:144:LEU:HD22	58:BZ:144:LEU:N	2.19	0.58
8:CH:89:PRO:HA	8:CH:92:ARG:HH11	1.69	0.58
35:DA:1578:U:C2'	35:DA:1579:A:H5''	2.32	0.58
36:DB:115:G:H2'	36:DB:116:G:H8	1.68	0.58
35:DA:1516:C:O2'	35:DA:1517:G:H5''	2.03	0.58
24:AY:225:GLU:O	24:AY:228:MET:HB3	2.04	0.58
55:BW:17:VAL:O	55:BW:20:VAL:HG22	2.04	0.58
24:AY:438:PHE:HB2	24:AY:452:SER:O	2.04	0.58
35:DA:850:C:O2'	35:DA:851:U:H5'	2.03	0.58
1:CA:630:G:C2'	1:CA:631:G:C5'	2.81	0.58
9:CI:47:LEU:C	9:CI:49:PRO:HD2	2.24	0.58
35:DA:175:G:O2'	35:DA:176:G:H5'	2.03	0.58
10:AJ:18:ALA:O	10:AJ:20:ALA:N	2.37	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1346:A:N6	1:AA:1374:A:H3'	2.19	0.58
35:DA:787:U:OP1	35:DA:1780:A:N6	2.37	0.58
42:BH:28:GLY:HA3	42:BH:79:VAL:CG2	2.34	0.58
40:BF:6:VAL:H	40:BF:125:LEU:HD21	1.69	0.58
1:AA:513:C:O2'	1:AA:514:C:H5'	2.04	0.58
21:CU:6:ARG:NH2	21:CU:15:ARG:NH2	2.51	0.58
57:BY:17:SER:HB2	57:BY:71:LYS:HD2	1.85	0.58
35:DA:2097:C:H2'	35:DA:2098:U:C6	2.38	0.58
35:BA:529:A:H4'	35:BA:530:G:O5'	2.04	0.58
1:CA:52:G:O2'	1:CA:53:A:H5'	2.03	0.58
35:DA:206:U:H2'	35:DA:206:U:O2	2.03	0.58
52:BT:26:ASP:OD2	52:BT:26:ASP:C	2.42	0.58
35:BA:1794:U:O2'	35:BA:1795:C:H5'	2.03	0.58
1:AA:1258:G:O2'	1:AA:1259:C:H5'	2.04	0.58
11:CK:67:ASP:OD1	11:CK:71:LYS:HE3	2.04	0.58
1:CA:405:U:H3'	1:CA:406:G:H5'	1.85	0.58
46:BN:102:ALA:O	46:BN:106:MET:HE2	2.04	0.58
49:DQ:39:PRO:HB3	49:DQ:99:PRO:HD3	1.86	0.58
35:BA:2097:C:H2'	35:BA:2098:U:H6	1.68	0.58
35:BA:2649:U:O2'	35:BA:2650:U:H5'	2.04	0.58
41:BG:119:GLY:HA3	41:BG:181:ARG:H	1.69	0.58
41:BG:141:PHE:O	41:BG:144:ILE:HG22	2.04	0.58
1:CA:1410:G:H1	1:CA:1490:C:H42	1.52	0.58
58:DZ:149:SER:HB2	58:DZ:172:ALA:O	2.04	0.58
31:B6:35:GLU:HB3	31:B6:51:GLU:HB2	1.86	0.58
31:B6:51:GLU:HG2	31:B6:52:VAL:H	1.67	0.58
57:BY:8:LYS:HE2	57:BY:72:VAL:HG23	1.85	0.58
29:D4:27:THR:O	29:D4:28:LYS:HB3	2.02	0.58
1:AA:1144:G:H21	1:AA:1146:A:H62	1.51	0.58
1:CA:1456:G:H2'	1:CA:1457:G:H5'	1.85	0.58
26:B1:80:LEU:CD2	26:B1:81:LYS:N	2.66	0.58
35:DA:624:C:H41	48:DP:107:LYS:HZ3	1.51	0.58
48:DP:84:ASN:C	48:DP:86:LYS:H	2.05	0.58
48:BP:84:ASN:C	48:BP:86:LYS:N	2.57	0.58
39:BE:64:LYS:C	39:BE:66:HIS:H	2.07	0.58
39:DE:64:LYS:C	39:DE:66:HIS:H	2.06	0.58
19:AS:31:ILE:HG23	19:AS:49:ILE:HG23	1.86	0.58
35:BA:2297:C:O2'	35:BA:2298:A:H5'	2.04	0.58
10:AJ:55:LYS:H	10:AJ:55:LYS:HE3	1.67	0.58
58:DZ:17:ALA:HA	58:DZ:20:ARG:HG2	1.85	0.58
44:BK:7:VAL:O	44:BK:7:VAL:CG1	2.46	0.58
1:AA:960:U:C5	1:AA:1225:A:C8	2.92	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AF:69:GLU:O	6:AF:72:VAL:HG12	2.04	0.58
25:D0:51:VAL:HG21	25:D0:79:VAL:O	2.03	0.58
42:DH:136:ILE:HD12	42:DH:136:ILE:N	2.19	0.58
35:BA:621:A:H2'	35:BA:622:G:C5'	2.31	0.58
50:BR:10:LEU:HD22	50:BR:17:ARG:CD	2.33	0.58
40:BF:158:THR:HG21	40:BF:163:VAL:HB	1.86	0.58
24:CY:119:GLU:C	24:CY:120:THR:HG1	2.07	0.58
35:BA:2122:U:H1'	37:BC:167:ASP:OD2	2.04	0.58
53:DU:26:GLY:O	53:DU:28:ARG:N	2.37	0.58
35:BA:2453:A:H2'	35:BA:2454:G:H8	1.69	0.58
35:BA:848:G:C2	35:BA:933:A:H1'	2.39	0.58
24:AY:605:ILE:CD1	24:AY:677:GLN:HG2	2.34	0.58
36:DB:20:C:H2'	36:DB:21:G:H5'	1.85	0.58
24:CY:415:PRO:HA	24:CY:474:ALA:HB2	1.84	0.58
5:AE:144:THR:O	5:AE:148:VAL:HG23	2.03	0.58
24:CY:296:GLY:O	24:CY:297:GLU:HB3	2.04	0.58
35:BA:443:A:H3'	40:BF:45:ARG:HH21	1.68	0.58
35:BA:784:A:H5''	38:BD:227:ASN:ND2	2.19	0.58
35:DA:1068:G:N2	35:DA:1096:A:H5'	2.19	0.58
1:AA:992:U:H4'	1:AA:993:G:O5'	2.04	0.58
45:BL:90:UNK:C	45:BL:92:UNK:H	2.16	0.58
8:AH:20:TYR:CE1	8:AH:76:PRO:HG2	2.39	0.58
35:DA:2647:U:H2'	35:DA:2648:C:C6	2.39	0.58
8:AH:6:ILE:N	8:AH:6:ILE:HD12	2.19	0.58
35:DA:529:A:H4'	35:DA:530:G:O5'	2.04	0.58
24:CY:212:TYR:HA	24:CY:215:LYS:HD2	1.84	0.58
24:AY:632:LEU:HD12	24:AY:645:ALA:HA	1.85	0.58
48:DP:135:LEU:HD13	48:DP:135:LEU:O	2.03	0.58
29:B4:25:TYR:O	29:B4:26:SER:HB3	2.03	0.57
41:BG:180:PHE:O	41:BG:181:ARG:C	2.41	0.57
24:CY:458:HIS:O	24:CY:461:ILE:HG13	2.02	0.57
24:CY:25:LYS:NZ	24:CY:86:GLY:HA2	2.19	0.57
58:DZ:151:HIS:CB	58:DZ:170:THR:HA	2.33	0.57
22:AW:7:G:H3'	22:AW:8:U:C5'	2.30	0.57
33:B8:14:VAL:CG2	33:B8:22:VAL:HG13	2.34	0.57
58:DZ:67:LEU:N	58:DZ:67:LEU:HD12	2.18	0.57
57:DY:12:THR:HG22	57:DY:75:ILE:HG21	1.86	0.57
57:DY:91:GLU:O	57:DY:92:ASN:HB2	2.04	0.57
48:DP:47:ASP:CB	48:DP:51:PHE:HB2	2.34	0.57
5:AE:101:ILE:CD1	5:AE:119:LEU:HA	2.26	0.57
30:B5:3:LYS:HZ2	30:B5:5:PRO:HB2	1.69	0.57
24:CY:156:ARG:HB2	24:CY:157:LEU:HD23	1.86	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
51:BS:34:HIS:NE2	51:BS:54:LEU:HB3	2.19	0.57
3:CC:35:GLU:OE2	3:CC:59:ARG:NH1	2.37	0.57
40:BF:9:ILE:HG23	40:BF:13:SER:O	2.03	0.57
58:DZ:109:ALA:C	58:DZ:111:VAL:H	2.05	0.57
1:AA:1392:G:N2	1:AA:1502:A:H8	2.01	0.57
39:BE:111:ARG:HA	50:BR:2:ARG:CB	2.29	0.57
39:DE:47:VAL:CG1	39:DE:48:GLN:H	2.12	0.57
51:DS:54:LEU:O	51:DS:54:LEU:HD13	2.03	0.57
1:AA:1442:G:C5	1:AA:1442(B):A:H2	2.21	0.57
9:AI:114:TYR:HE1	10:AJ:60:ARG:N	1.97	0.57
2:AB:24:TRP:CZ3	2:AB:26:PRO:HA	2.39	0.57
2:AB:220:ASP:O	2:AB:223:ILE:N	2.35	0.57
5:CE:12:LEU:CD1	5:CE:31:LEU:HB3	2.34	0.57
5:CE:33:VAL:HG12	5:CE:34:VAL:N	2.17	0.57
26:B1:5:CYS:O	26:B1:9:GLY:HA2	2.03	0.57
52:BT:55:ASN:N	52:BT:59:THR:CG2	2.66	0.57
15:CO:17:ARG:HD3	15:CO:26:GLU:HG3	1.85	0.57
15:CO:74:ASP:C	15:CO:76:GLU:H	2.08	0.57
34:D9:34:GLN:O	34:D9:35:ARG:HB2	2.04	0.57
39:DE:44:TYR:O	39:DE:45:THR:HB	2.04	0.57
35:DA:1558:A:H4'	35:DA:1559:G:O5'	2.04	0.57
4:AD:114:ARG:HG3	4:AD:114:ARG:NH1	2.18	0.57
4:CD:57:ARG:HG2	4:CD:57:ARG:HH11	1.69	0.57
3:CC:181:ASN:HD21	3:CC:204:LEU:HD12	1.68	0.57
35:BA:120:U:H5'	35:BA:121:G:OP1	2.03	0.57
58:BZ:29:TYR:CB	58:BZ:34:ASN:HB2	2.33	0.57
38:DD:77:ALA:CB	38:DD:97:TYR:HA	2.34	0.57
1:CA:1375:A:H5'	1:CA:1376:U:OP2	2.04	0.57
30:D5:43:HIS:CD2	35:DA:2815:C:O2'	2.56	0.57
35:BA:1717:G:C2'	35:BA:1718:G:H5''	2.34	0.57
35:DA:2556:C:H2'	35:DA:2557:G:O4'	2.04	0.57
39:DE:101:ARG:NE	39:DE:171:GLU:HB2	2.19	0.57
24:CY:614:GLU:HA	24:CY:617:MET:HB2	1.84	0.57
57:BY:17:SER:CB	57:BY:71:LYS:HD2	2.34	0.57
1:AA:122:G:O2'	1:AA:123:C:H5'	2.04	0.57
37:BC:57:GLN:HE21	37:BC:205:ALA:HA	1.68	0.57
45:BL:113:UNK:HA	45:BL:117:UNK:O	2.03	0.57
17:CQ:53:LEU:HD21	17:CQ:85:VAL:HG11	1.85	0.57
1:AA:677:U:H3	1:AA:713:G:H22	1.50	0.57
6:CF:9:VAL:HB	6:CF:87:ARG:HB2	1.86	0.57
35:DA:271(U):G:O2'	35:DA:271(V):G:H5'	2.03	0.57
35:DA:1473:G:H2'	35:DA:1474:C:O4'	2.04	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:CB:178:ARG:HB2	2:CB:178:ARG:HH11	1.68	0.57
24:CY:25:LYS:HZ3	24:CY:86:GLY:HA2	1.68	0.57
24:AY:112:GLN:O	24:AY:115:GLU:HB3	2.05	0.57
58:DZ:171:ILE:HG13	58:DZ:172:ALA:N	2.19	0.57
53:DU:92:ARG:NH2	54:DV:11:GLN:H	2.01	0.57
57:DY:25:GLY:HA3	57:DY:39:VAL:CG1	2.34	0.57
40:DF:148:LEU:HD23	40:DF:191:ARG:NH1	2.19	0.57
41:DG:52:ILE:HG22	41:DG:54:GLU:H	1.69	0.57
31:D6:45:LYS:HG2	35:DA:2371:G:H5''	1.86	0.57
8:CH:104:ARG:HB3	8:CH:108:GLY:H	1.69	0.57
8:CH:109:ILE:HG12	8:CH:110:ALA:H	1.68	0.57
3:CC:154:SER:O	3:CC:165:THR:HA	2.03	0.57
48:BP:114:ILE:O	48:BP:130:PHE:HA	2.03	0.57
44:BK:21:PRO:HA	44:BK:23:VAL:N	2.19	0.57
35:BA:2317:C:H2'	35:BA:2318:G:C5'	2.33	0.57
2:AB:235:SER:O	2:AB:237:ALA:N	2.31	0.57
2:CB:223:ILE:HG23	2:CB:226:ARG:NH1	2.19	0.57
18:CR:58:LEU:HD12	18:CR:58:LEU:N	2.18	0.57
36:DB:103:G:N2	58:DZ:73:GLN:HE22	1.95	0.57
26:B1:6:GLU:OE1	26:B1:61:ARG:N	2.36	0.57
46:DN:62:VAL:HG13	46:DN:62:VAL:O	2.03	0.57
42:DH:148:ILE:O	42:DH:151:ILE:HG12	2.05	0.57
47:DO:26:LYS:HB3	47:DO:30:ALA:CB	2.35	0.57
22:CW:25:U:O2'	22:CW:26:C:H5'	2.04	0.57
42:BH:19:VAL:O	42:BH:20:ALA:HB2	2.04	0.57
1:AA:1270:C:H4'	1:AA:1313:U:O2'	2.03	0.57
54:BV:81:TYR:C	54:BV:82:ARG:HD2	2.24	0.57
4:AD:159:ARG:HH11	4:AD:159:ARG:HG3	1.68	0.57
4:AD:162:LEU:CD1	4:AD:181:MET:HG2	2.34	0.57
24:AY:680:PRO:O	24:AY:682:GLN:N	2.33	0.57
35:BA:16:G:H2'	35:BA:17:G:H8	1.68	0.57
49:DQ:97:VAL:HG21	49:DQ:103:MET:HE3	1.85	0.57
32:B7:4:THR:HB	35:BA:788:A:O2'	2.03	0.57
54:BV:35:LEU:O	54:BV:37:VAL:N	2.36	0.57
40:DF:6:VAL:H	40:DF:125:LEU:HD21	1.69	0.57
37:DC:4:HIS:ND1	37:DC:8:TYR:CE2	2.72	0.57
35:DA:1036:G:OP2	42:DH:59:ARG:NH1	2.37	0.57
35:BA:1942:C:H3'	35:BA:1943:U:H5''	1.86	0.57
35:BA:1943:U:H4'	35:BA:1944:U:OP1	2.03	0.57
35:DA:1835:G:H1'	35:DA:1931:U:O2	2.04	0.57
21:AU:6:ARG:NH2	21:AU:15:ARG:NH2	2.52	0.57
41:BG:126:ASP:OD1	41:BG:130:ASN:HB2	2.04	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
53:DU:70:ARG:HA	53:DU:74:LEU:O	2.04	0.57
1:AA:1479:C:H2'	1:AA:1480:G:H8	1.69	0.57
4:CD:104:VAL:HG21	4:CD:140:VAL:HG21	1.85	0.57
35:BA:1428:C:N4	35:BA:1569:A:H3'	2.19	0.57
32:D7:35:ARG:HG2	32:D7:35:ARG:HH11	1.69	0.57
13:AM:119:GLY:HA2	22:AV:29:G:OP1	2.03	0.57
4:AD:104:VAL:HG21	4:AD:140:VAL:HG21	1.86	0.57
35:DA:2219:G:O2'	35:DA:2220:G:H5'	2.04	0.57
1:CA:219:C:H2'	1:CA:220:G:O4'	2.03	0.57
35:BA:2377:A:H2'	35:BA:2378:A:C8	2.38	0.57
40:DF:187:VAL:HG12	48:DP:7:ARG:NH2	2.19	0.57
35:BA:2312:U:H2'	35:BA:2313:C:C5'	2.34	0.57
35:BA:2011:U:H2'	35:BA:2012:G:H5'	1.87	0.57
40:BF:119:ARG:HH11	40:BF:119:ARG:HG2	1.69	0.57
53:BU:49:HIS:HA	53:BU:52:ARG:HB2	1.85	0.57
57:DY:28:LYS:O	57:DY:38:ILE:HG22	2.04	0.57
40:DF:18:ARG:HG2	40:DF:19:GLU:N	2.18	0.57
31:D6:54:ILE:CD1	35:DA:2420:C:H5'	2.34	0.57
35:BA:1840:G:H1	35:BA:1902:C:H42	1.52	0.57
30:D5:3:LYS:HZ1	35:DA:2613:U:C2'	2.17	0.57
36:BB:49:C:H2'	36:BB:50:G:C8	2.39	0.57
51:BS:30:ARG:NH2	51:BS:62:LYS:HD2	2.19	0.57
48:DP:23:PRO:C	48:DP:33:ARG:CZ	2.73	0.57
48:BP:91:PHE:HZ	48:BP:100:LEU:HD11	1.69	0.57
34:D9:17:ILE:HG22	34:D9:18:ARG:N	2.19	0.57
26:B1:76:ARG:NH2	26:B1:95:LEU:HD22	2.20	0.57
36:DB:87:G:H1	36:DB:91:C:H42	1.52	0.57
36:DB:88:C:H2'	36:DB:89:G:C8	2.39	0.57
17:CQ:44:ALA:HA	17:CQ:71:PHE:O	2.03	0.57
38:DD:145:VAL:HG12	38:DD:146:GLU:N	2.18	0.57
24:CY:99:ARG:HE	24:CY:128:TYR:CB	2.16	0.57
12:AL:53:ARG:NH1	12:AL:92:ASP:OD2	2.37	0.57
3:CC:131:ARG:NH2	3:CC:168:ALA:HB2	2.20	0.57
9:CI:8:GLY:CA	9:CI:79:LEU:HD12	2.34	0.57
1:CA:662:G:H2'	1:CA:663:A:H8	1.67	0.57
1:CA:1148:U:H2'	1:CA:1149:C:O4'	2.04	0.57
35:BA:2777:G:H5''	35:BA:2778:A:H5''	1.86	0.57
16:CP:28:ARG:HH11	16:CP:28:ARG:HG2	1.70	0.57
4:AD:162:LEU:HD11	4:AD:181:MET:CG	2.35	0.57
1:AA:1370:G:C2	1:AA:1371:G:C8	2.93	0.57
22:AW:3:C:H2'	22:AW:4:G:H5''	1.85	0.57
24:AY:496:LYS:HE2	24:AY:498:ILE:CD1	2.34	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AC:134:ILE:HD11	3:AC:153:VAL:HG23	1.85	0.57
1:CA:165:C:O2'	1:CA:166:G:H5'	2.04	0.57
24:CY:355:LEU:HB3	24:CY:369:LEU:HD11	1.85	0.57
13:AM:83:ASP:CG	13:AM:84:ILE:N	2.58	0.57
35:BA:328:U:H4'	57:BY:68:HIS:CD2	2.39	0.57
35:DA:321:G:C2	35:DA:341:G:H4'	2.39	0.57
35:BA:810:U:OP1	35:BA:1253:A:N7	2.38	0.57
1:AA:833:U:H2'	1:AA:834:C:C6	2.39	0.57
35:DA:1247:A:OP1	40:DF:95:ARG:NH2	2.37	0.57
35:BA:2115:G:N3	35:BA:2117:A:N7	2.52	0.57
1:CA:1366:C:H2'	1:CA:1367:C:H6	1.70	0.57
35:DA:2511:U:O3'	39:DE:123:ALA:HB3	2.05	0.57
35:BA:2219:G:O2'	35:BA:2220:G:H5'	2.04	0.57
35:BA:207:A:H2'	35:BA:208:C:O4'	2.02	0.57
8:CH:20:TYR:CE1	8:CH:76:PRO:HG2	2.39	0.57
32:D7:33:ARG:NH1	35:DA:467:G:OP1	2.37	0.57
28:B3:5:LYS:HE3	28:B3:34:GLU:OE1	2.04	0.57
41:DG:181:ARG:CZ	41:DG:181:ARG:HB2	2.33	0.57
25:B0:36:ILE:HG13	25:B0:36:ILE:O	2.04	0.57
37:BC:191:ARG:HH11	37:BC:191:ARG:HG3	1.68	0.57
1:CA:977:A:H2'	1:CA:978:A:H5'	1.86	0.57
29:B4:1:MET:HE2	41:BG:66:GLN:CD	2.25	0.57
46:BN:4:TYR:CD1	46:BN:4:TYR:N	2.72	0.57
31:B6:30:THR:HG22	31:B6:32:ASN:ND2	2.19	0.57
27:D2:38:GLN:HA	27:D2:41:ILE:CG2	2.34	0.57
38:BD:65:ILE:N	38:BD:65:ILE:HD13	2.19	0.57
35:BA:27:G:O2'	35:BA:28:A:H8	1.86	0.57
51:DS:28:VAL:CG1	51:DS:29:PHE:H	2.12	0.57
46:BN:46:VAL:CG1	46:BN:47:ALA:H	2.13	0.57
1:AA:1490:C:H5'	1:AA:1490:C:H6	1.69	0.57
33:B8:62:LEU:CD1	35:BA:242:G:H5''	2.33	0.57
44:BK:8:VAL:HG12	44:BK:10:LEU:HG	1.86	0.57
49:DQ:2:LEU:HG	49:DQ:69:PHE:HE1	1.70	0.57
24:CY:635:GLU:OE2	24:CY:644:ARG:NH1	2.38	0.57
1:CA:973:G:C1'	10:CJ:55:LYS:CE	2.82	0.57
6:CF:69:GLU:H	6:CF:69:GLU:CD	2.07	0.57
35:BA:1677:A:H2'	35:BA:1678:G:C8	2.40	0.57
52:BT:80:SER:CB	52:BT:81:PRO:CD	2.82	0.57
42:DH:159:GLU:HA	42:DH:159:GLU:OE1	2.04	0.57
38:BD:142:VAL:HG23	38:BD:192:THR:C	2.25	0.57
58:DZ:127:LYS:HE2	58:DZ:162:GLU:OE2	2.05	0.57
19:AS:21:GLU:HG3	19:AS:22:LEU:CD2	2.34	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AC:14:ILE:O	3:AC:15:THR:HB	2.04	0.57
2:AB:96:ARG:N	2:AB:96:ARG:HD2	2.19	0.57
35:BA:958:U:H5'	49:BQ:14:ARG:HH11	1.69	0.57
24:AY:630:GLN:HG2	24:AY:630:GLN:O	2.04	0.57
49:BQ:27:VAL:H	49:BQ:137:TYR:HD2	1.53	0.57
37:BC:117:THR:HG22	37:BC:147:GLY:O	2.04	0.57
49:DQ:76:LYS:HB3	49:DQ:91:GLU:CG	2.34	0.57
16:CP:50:LYS:O	16:CP:51:VAL:HG23	2.04	0.57
35:BA:1943:U:O2'	35:BA:1944:U:O5'	2.17	0.57
6:AF:36:ARG:NH1	6:AF:36:ARG:HB3	2.19	0.57
13:AM:74:VAL:O	13:AM:77:ASN:HB2	2.03	0.57
1:AA:1254:C:H2'	1:AA:1255:G:C8	2.40	0.57
35:BA:2097:C:H2'	35:BA:2098:U:C6	2.39	0.57
35:BA:1353:A:H2'	35:BA:1354:A:C8	2.39	0.57
11:AK:21:ILE:HG13	11:AK:30:VAL:HG12	1.87	0.57
35:BA:737:C:C2'	35:BA:738:G:H5'	2.35	0.57
35:BA:1473:G:H2'	35:BA:1474:C:O4'	2.04	0.57
35:BA:1949:G:H2'	35:BA:1950:G:C8	2.39	0.57
11:AK:79:SER:OG	11:AK:106:LYS:HD2	2.04	0.57
46:BN:82:LEU:HD23	46:BN:82:LEU:C	2.24	0.57
35:BA:2504:U:O5'	35:BA:2504:U:H6	1.87	0.57
50:DR:44:LEU:O	50:DR:44:LEU:HD13	2.04	0.57
53:BU:70:ARG:HA	53:BU:74:LEU:O	2.04	0.57
35:BA:2450:A:O2'	35:BA:2451:A:H5'	2.04	0.57
45:BL:79:UNK:C	45:BL:81:UNK:N	2.64	0.57
1:CA:415:A:H2'	1:CA:416:G:C8	2.40	0.57
40:DF:2:LYS:HG3	40:DF:25:PRO:HG2	1.86	0.57
48:DP:66:GLY:O	48:DP:67:MET:HB3	2.04	0.57
41:DG:61:ALA:HA	41:DG:64:THR:CG2	2.35	0.57
38:BD:241:PRO:C	38:BD:242:ARG:HG3	2.24	0.57
24:CY:112:GLN:HG3	24:CY:115:GLU:HB3	1.85	0.57
1:CA:1237:C:OP1	1:CA:1238:A:H1'	2.05	0.57
51:BS:64:GLU:H	51:BS:64:GLU:CD	2.07	0.57
31:D6:18:ARG:HG3	31:D6:19:ARG:H	1.69	0.57
40:BF:8:GLN:NE2	40:BF:9:ILE:HB	2.20	0.57
24:CY:589:ALA:O	24:CY:593:ALA:HB2	2.03	0.57
24:AY:409:ILE:HD11	24:AY:654:GLY:CA	2.27	0.57
5:CE:15:ARG:HG3	5:CE:28:PHE:CE2	2.39	0.57
26:B1:86:SER:HB2	26:B1:90:ILE:CD1	2.35	0.57
35:DA:2453:A:H2'	35:DA:2454:G:H8	1.69	0.57
48:BP:112:LEU:O	48:BP:128:HIS:HB2	2.04	0.57
44:BK:24:GLY:H	44:BK:25:PRO:HD2	1.68	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:DE:34:VAL:O	39:DE:35:GLN:CB	2.53	0.57
52:BT:29:ARG:CG	52:BT:85:LYS:HA	2.33	0.57
19:CS:78:ARG:HB2	19:CS:81:ARG:NH1	2.17	0.57
49:BQ:55:VAL:HG13	49:BQ:56:ARG:N	2.18	0.57
13:AM:68:GLY:H	13:AM:71:ARG:CB	2.15	0.57
29:B4:22:ILE:HG22	29:B4:23:GLU:N	2.19	0.57
1:AA:191:G:H1'	20:AT:105:SER:HA	1.86	0.57
35:DA:1374:G:H2'	35:DA:1375:C:C6	2.40	0.57
35:DA:803:U:H2'	35:DA:804:A:H5'	1.86	0.57
40:DF:75:HIS:HE1	40:DF:82:ILE:HD11	1.69	0.57
16:AP:74:LEU:O	16:AP:79:VAL:HG23	2.04	0.57
32:D7:24:THR:HG23	32:D7:27:GLY:HA3	1.87	0.57
55:BW:36:LEU:HD11	55:BW:47:VAL:HG12	1.86	0.57
35:BA:1036:G:OP2	42:BH:59:ARG:NH1	2.38	0.57
17:CQ:48:GLU:O	17:CQ:50:LYS:N	2.37	0.57
35:DA:1386:C:H2'	35:DA:1387:C:C6	2.40	0.57
38:DD:9:TYR:C	38:DD:10:THR:HG22	2.24	0.57
1:CA:957:U:H2'	1:CA:959:A:OP2	2.04	0.57
48:DP:124:LYS:CD	48:DP:143:GLY:HA3	2.35	0.57
35:DA:1274:A:N3	35:DA:1297:C:H1'	2.19	0.57
24:AY:137:ASN:HD21	24:AY:263:ALA:CB	2.18	0.57
19:AS:48:THR:HG22	19:AS:61:TYR:HA	1.86	0.57
35:BA:2647:U:H2'	35:BA:2648:C:C6	2.39	0.57
1:AA:370:C:O2'	1:AA:371:G:H5'	2.04	0.57
35:DA:1248:G:C2	53:DU:3:ARG:HD2	2.38	0.57
35:BA:1322:A:OP1	55:BW:11:ARG:HG3	2.04	0.57
51:DS:42:ASP:C	51:DS:44:LYS:H	2.08	0.57
2:CB:11:LEU:HD11	2:CB:217:ARG:NH2	2.19	0.57
35:DA:2504:U:H6	35:DA:2504:U:O5'	1.88	0.57
11:CK:79:SER:OG	11:CK:106:LYS:HD2	2.04	0.57
31:B6:27:LYS:HB3	31:B6:30:THR:HG22	1.87	0.57
57:DY:2:ARG:CD	57:DY:3:VAL:HG23	2.35	0.57
57:BY:8:LYS:H	57:BY:8:LYS:HD2	1.68	0.57
38:BD:80:ALA:HB3	38:BD:94:LEU:HB3	1.87	0.57
35:DA:2230:G:H2'	35:DA:2231:C:H6	1.70	0.57
41:BG:133:LEU:HD12	41:BG:157:ILE:HB	1.87	0.57
51:BS:106:ARG:HD2	51:BS:106:ARG:C	2.24	0.57
51:BS:54:LEU:HD13	51:BS:54:LEU:O	2.04	0.57
51:BS:98:VAL:CG1	51:BS:100:ALA:HB2	2.35	0.57
50:BR:83:ILE:O	50:BR:87:TYR:HE2	1.87	0.57
49:DQ:62:GLY:O	58:DZ:178:GLU:HB2	2.03	0.57
26:D1:93:GLU:O	26:D1:95:LEU:N	2.36	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1301:A:H4'	35:BA:1302:A:OP1	2.04	0.57
35:BA:1301:A:O2'	35:BA:1302:A:C2'	2.46	0.57
35:DA:962:G:H2'	35:DA:963:U:O4'	2.05	0.57
44:DK:109:LYS:HA	44:DK:112:MET:HE2	1.85	0.57
33:D8:62:LEU:CD1	35:DA:242:G:H5''	2.32	0.57
35:BA:271(I):G:H3'	35:BA:271(J):C:H6	1.68	0.57
44:BK:112:MET:N	44:BK:113:PRO:HD2	2.20	0.57
2:AB:155:LEU:HD13	2:AB:155:LEU:C	2.24	0.57
39:DE:111:ARG:HA	50:DR:2:ARG:CB	2.31	0.57
20:AT:26:ASN:O	20:AT:30:LYS:HB2	2.04	0.57
54:BV:18:LEU:CD1	54:BV:19:LYS:H	2.17	0.57
24:AY:13:ARG:HB2	24:AY:79:ILE:HG12	1.87	0.57
19:CS:29:ARG:O	19:CS:31:ILE:HG22	2.04	0.57
1:CA:1325:C:H2'	1:CA:1326:C:C6	2.40	0.57
15:AO:74:ASP:C	15:AO:76:GLU:H	2.06	0.57
52:DT:55:ASN:N	52:DT:59:THR:CG2	2.63	0.57
23:AX:19:U:H2'	23:AX:20:U:C6	2.40	0.57
4:CD:114:ARG:HG3	4:CD:114:ARG:NH1	2.17	0.57
57:BY:2:ARG:CD	57:BY:3:VAL:HG23	2.34	0.57
35:DA:2111:C:C2	35:DA:2147:G:N2	2.73	0.57
58:DZ:127:LYS:HZ3	58:DZ:127:LYS:HB3	1.68	0.57
35:DA:139(A):G:N2	56:DX:44:GLU:OE1	2.38	0.57
22:AV:71:C:O2	22:AV:71:C:C2'	2.53	0.57
35:BA:145:G:H2'	35:BA:146:G:C8	2.39	0.57
3:AC:119:ARG:O	3:AC:123:GLN:HG3	2.03	0.57
1:CA:260:G:H2'	1:CA:261:U:H6	1.70	0.57
49:BQ:27:VAL:O	49:BQ:28:ALA:HB3	2.04	0.57
46:BN:17:ASP:CG	46:BN:56:ASN:HB3	2.25	0.57
51:BS:59:LYS:CD	51:BS:61:ASN:HB2	2.34	0.57
40:BF:125:LEU:HD23	40:BF:125:LEU:N	2.18	0.57
49:BQ:97:VAL:HG21	49:BQ:103:MET:HE3	1.85	0.57
35:DA:35:G:O2'	35:DA:36:G:H5'	2.04	0.57
48:BP:105:LEU:HD12	48:BP:105:LEU:N	2.18	0.57
9:CI:41:VAL:HG12	9:CI:41:VAL:O	2.05	0.57
46:DN:82:LEU:HD23	46:DN:82:LEU:C	2.25	0.57
28:B3:11:SER:HB3	35:BA:988:A:P	2.45	0.57
29:B4:1:MET:HG3	41:BG:66:GLN:HG3	1.87	0.57
56:BX:12:VAL:O	56:BX:13:LEU:HB2	2.05	0.57
4:CD:11:LEU:O	4:CD:12:CYS:C	2.42	0.57
4:CD:8:VAL:HB	4:CD:21:LEU:CD1	2.34	0.57
40:BF:185:ASP:HA	40:BF:188:ARG:HG2	1.85	0.57
24:AY:171:GLU:HG3	24:AY:172:ASP:H	1.70	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
33:B8:14:VAL:HG21	33:B8:22:VAL:CG1	2.35	0.57
57:DY:96:ILE:CG2	57:DY:99:CYS:HB3	2.34	0.57
35:DA:363(B):G:H2'	35:DA:363(C):G:C8	2.38	0.57
57:BY:73:ARG:O	57:BY:74:PRO:O	2.23	0.57
33:D8:7:HIS:HB3	33:D8:10:ALA:HB3	1.87	0.57
58:BZ:154:ASP:N	58:BZ:154:ASP:OD2	2.35	0.57
3:CC:52:LEU:HD23	3:CC:52:LEU:N	2.14	0.57
30:B5:3:LYS:HZ1	35:BA:2613:U:C2'	2.18	0.57
24:CY:146:LEU:HD11	24:CY:260:LEU:HD11	1.87	0.57
31:B6:45:LYS:HG2	35:BA:2371:G:H5''	1.86	0.57
31:B6:15:GLU:CB	31:B6:47:THR:HG21	2.34	0.57
26:B1:80:LEU:HD23	26:B1:81:LYS:N	2.13	0.57
48:DP:84:ASN:C	48:DP:86:LYS:N	2.58	0.57
48:BP:91:PHE:CE2	48:BP:95:VAL:HG12	2.40	0.57
35:BA:2307:G:C2	35:BA:2308:G:H5''	2.38	0.57
26:D1:23:LYS:CE	26:D1:28:GLY:HA3	2.26	0.57
39:DE:69:LYS:N	39:DE:69:LYS:HE2	2.19	0.57
35:DA:2317:C:H2'	35:DA:2318:G:C5'	2.31	0.57
29:D4:22:ILE:HG22	29:D4:23:GLU:N	2.20	0.57
13:CM:81:LEU:HD22	13:CM:81:LEU:N	2.20	0.57
44:DK:3:LYS:HB3	44:DK:29:GLN:HB3	1.85	0.57
52:DT:53:ARG:HH11	52:DT:53:ARG:CB	2.17	0.57
42:DH:83:TYR:O	42:DH:84:SER:HB3	2.05	0.57
49:DQ:27:VAL:H	49:DQ:137:TYR:HD2	1.53	0.57
53:BU:33:ARG:C	53:BU:35:ALA:N	2.56	0.57
58:BZ:141:VAL:O	58:BZ:142:SER:HB3	2.03	0.57
35:DA:621:A:H2'	35:DA:622:G:C5'	2.33	0.57
35:DA:259:G:H21	35:DA:621:A:H8	1.51	0.57
35:DA:2464:C:HO2'	35:DA:2465:C:H6	1.52	0.57
38:BD:146:GLU:HB2	38:BD:189:CYS:HB3	1.87	0.57
35:BA:881:G:H2'	35:BA:882:G:H5'	1.86	0.57
35:BA:877:U:O2'	35:BA:878:A:H5''	2.05	0.57
4:CD:203:VAL:O	4:CD:206:PHE:HB3	2.05	0.57
42:BH:89:ILE:O	42:BH:89:ILE:HG13	2.05	0.57
1:AA:474:G:H2'	1:AA:475:G:C8	2.40	0.57
35:DA:328:U:H4'	57:DY:68:HIS:CD2	2.39	0.57
24:AY:604:PRO:HB2	24:AY:649:LEU:HD12	1.87	0.57
35:DA:1169:G:H1	35:DA:1180:C:H42	1.50	0.57
52:BT:51:ARG:O	52:BT:61:PHE:HA	2.03	0.57
11:AK:21:ILE:N	11:AK:21:ILE:HD12	2.20	0.57
35:BA:1614:A:H2'	35:BA:1615:C:H5'	1.86	0.57
35:DA:610:G:N2	35:DA:619:G:H1'	2.20	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:DP:105:LEU:HD12	48:DP:105:LEU:N	2.19	0.57
1:AA:542:G:H5'	4:AD:41:GLY:CA	2.35	0.57
24:AY:210:ARG:O	24:AY:213:HIS:N	2.34	0.57
46:DN:4:TYR:CD1	46:DN:4:TYR:N	2.72	0.57
54:DV:51:VAL:HG12	54:DV:52:VAL:N	2.14	0.57
48:BP:23:PRO:CB	48:BP:33:ARG:HG3	2.33	0.57
40:DF:167:ALA:CB	40:DF:173:VAL:HG11	2.23	0.57
10:CJ:32:ALA:N	10:CJ:78:ASN:ND2	2.53	0.57
30:B5:44:THR:O	30:B5:51:TYR:HE1	1.87	0.57
49:DQ:53:ALA:HA	49:DQ:56:ARG:HB2	1.86	0.57
1:AA:1404:C:H1'	1:AA:1499:A:N1	2.19	0.57
36:BB:7:G:C3'	36:BB:8:U:H5''	2.34	0.57
2:CB:51:LEU:HD21	2:CB:201:ILE:HG23	1.87	0.57
1:AA:1226:C:H4'	1:AA:1227:A:OP1	2.05	0.57
58:BZ:23:LYS:CD	58:BZ:38:TYR:HE1	2.12	0.57
1:CA:1324:A:H2'	1:CA:1325:C:H6	1.68	0.57
52:DT:42:ILE:HD13	52:DT:83:ILE:HD13	1.87	0.57
49:BQ:44:ALA:N	49:BQ:45:GLN:HE21	2.02	0.57
37:DC:92:ALA:HB2	37:DC:154:ILE:HD13	1.85	0.57
42:BH:45:VAL:HA	42:BH:50:VAL:HG22	1.87	0.57
52:DT:10:VAL:C	52:DT:12:SER:N	2.58	0.57
46:BN:62:VAL:HG13	46:BN:62:VAL:O	2.05	0.57
49:DQ:27:VAL:HG21	49:DQ:134:ARG:HG2	1.87	0.57
49:DQ:27:VAL:O	49:DQ:28:ALA:HB3	2.04	0.57
24:CY:487:ILE:H	24:CY:487:ILE:HD13	1.68	0.57
35:BA:1669:A:H2'	35:BA:1670:C:H5'	1.86	0.57
51:BS:42:ASP:C	51:BS:44:LYS:H	2.07	0.57
50:DR:21:TYR:HB3	50:DR:47:PHE:CE2	2.39	0.57
35:DA:226:G:O2'	35:DA:227:A:C8	2.45	0.57
1:CA:624:C:H2'	1:CA:625:G:H8	1.69	0.57
35:DA:285:C:H2'	35:DA:286:C:H5'	1.86	0.57
34:B9:34:GLN:O	34:B9:35:ARG:HB2	2.03	0.57
4:CD:162:LEU:HD11	4:CD:181:MET:CG	2.34	0.57
51:DS:20:ARG:HA	51:DS:20:ARG:NE	2.19	0.57
5:AE:36:ASP:OD1	5:AE:38:GLN:N	2.26	0.57
37:DC:215:VAL:HG23	37:DC:225:ILE:HG12	1.86	0.57
35:DA:1774:C:O2	38:DD:11:PRO:HB2	2.04	0.57
24:AY:463:VAL:O	24:AY:467:LYS:HB3	2.05	0.57
8:CH:7:ALA:HB2	8:CH:85:ARG:HD3	1.86	0.57
1:AA:1015:A:H2'	1:AA:1016:A:C8	2.40	0.57
1:AA:954:G:H2'	1:AA:955:U:C6	2.40	0.57
35:BA:1198:U:H2'	35:BA:1198:U:O2	2.03	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
17:CQ:7:THR:O	17:CQ:23:VAL:HG13	2.04	0.57
37:BC:185:LYS:HE3	37:BC:185:LYS:HA	1.87	0.57
35:BA:200:U:H2'	35:BA:201:C:H5'	1.86	0.57
1:CA:291:C:O2'	1:CA:292:G:H5'	2.04	0.57
27:B2:14:ARG:HH11	27:B2:14:ARG:HG3	1.69	0.57
35:DA:207:A:H2'	35:DA:208:C:O4'	2.03	0.57
35:BA:608:A:H2'	35:BA:609:A:C8	2.39	0.57
35:BA:764:A:N3	38:BD:213:ARG:NH1	2.53	0.57
35:BA:610:G:N2	35:BA:619:G:H1'	2.19	0.57
29:B4:37:SER:O	29:B4:38:LYS:HB2	2.05	0.57
41:BG:101:ILE:O	41:BG:104:GLU:HB3	2.05	0.57
41:BG:113:ARG:O	41:BG:140:ILE:HG22	2.04	0.57
24:CY:630:GLN:NE2	24:CY:646:PHE:CD2	2.72	0.57
46:BN:7:LYS:O	46:BN:9:VAL:N	2.37	0.57
57:BY:12:THR:HG22	57:BY:75:ILE:HG21	1.87	0.57
33:D8:32:LEU:HB3	33:D8:36:LYS:NZ	2.20	0.57
57:BY:76:CYS:HB3	57:BY:96:ILE:CD1	2.24	0.57
37:DC:139:PRO:HA	37:DC:145:THR:CG2	2.35	0.57
47:DO:60:ALA:HA	47:DO:87:ILE:HD13	1.86	0.57
31:D6:15:GLU:CD	31:D6:44:ARG:HH12	2.08	0.57
31:D6:37:ARG:O	31:D6:48:VAL:O	2.23	0.57
58:DZ:110:GLY:O	58:DZ:114:GLY:O	2.22	0.57
24:AY:273:LEU:HA	24:AY:276:VAL:HG23	1.85	0.57
27:D2:69:ARG:NH2	35:DA:111:A:H5''	2.12	0.57
35:BA:947:G:H2'	35:BA:948:G:C8	2.40	0.57
35:DA:1258:C:O4'	40:DF:84:VAL:HG21	2.05	0.57
39:BE:69:LYS:N	39:BE:69:LYS:HE2	2.20	0.57
35:DA:2850:A:H5'	35:DA:2868:A:H2	1.69	0.57
35:BA:2850:A:H5'	35:BA:2868:A:H2	1.70	0.57
22:AW:28:U:H2'	22:AW:29:C:H6	1.69	0.57
49:DQ:44:ALA:N	49:DQ:45:GLN:HE21	2.02	0.57
35:DA:6:A:N3	35:DA:6:A:H2'	2.18	0.57
52:BT:132:LYS:HG2	52:BT:133:GLU:N	2.20	0.57
19:AS:9:VAL:HG23	29:B4:53:GLU:OE2	2.04	0.57
35:BA:226:G:O2'	35:BA:227:A:C8	2.47	0.57
35:DA:621:A:C2'	35:DA:622:G:H5'	2.35	0.57
35:BA:1516:C:O2'	35:BA:1517:G:H5''	2.04	0.57
19:AS:6:LYS:H	19:AS:6:LYS:HE3	1.69	0.57
35:DA:674:G:C1'	40:DF:74:ARG:HD3	2.33	0.57
7:CG:146:GLU:HA	7:CG:149:ARG:HB2	1.86	0.57
18:CR:74:ARG:HD3	18:CR:81:PHE:HD2	1.70	0.57
24:AY:343:ASN:ND2	24:AY:345:THR:N	2.52	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
49:BQ:12:GLN:NE2	49:BQ:73:PRO:HD2	2.20	0.57
27:D2:59:ARG:O	27:D2:62:THR:N	2.38	0.57
24:CY:616:TYR:HB2	24:CY:663:THR:HG22	1.87	0.57
24:CY:680:PRO:O	24:CY:682:GLN:N	2.36	0.57
50:DR:18:LEU:HD23	50:DR:18:LEU:C	2.24	0.57
35:BA:2008:C:H2'	35:BA:2009:G:C8	2.39	0.57
38:DD:72:LYS:HB3	38:DD:75:ILE:HB	1.86	0.57
48:BP:124:LYS:CD	48:BP:143:GLY:HA3	2.35	0.57
54:BV:2:PHE:CE1	54:BV:13:ARG:NH1	2.73	0.57
8:CH:9:MET:O	8:CH:13:ILE:HG12	2.04	0.57
35:DA:455:C:N3	35:DA:472:A:H2'	2.20	0.57
6:AF:9:VAL:HB	6:AF:87:ARG:HB2	1.85	0.57
19:AS:53:ASN:O	19:AS:55:LYS:N	2.38	0.57
1:AA:67:C:H2'	1:AA:68:G:C8	2.40	0.57
43:DJ:10:UNK:O	43:DJ:11:UNK:CB	2.53	0.57
1:AA:689:C:P	11:AK:46:GLY:HA3	2.45	0.57
35:BA:1416:G:HO2'	35:BA:1417:C:H5	1.52	0.57
13:CM:33:ALA:HA	13:CM:59:TYR:HE2	1.70	0.57
26:D1:4:VAL:HG23	26:D1:10:LYS:O	2.04	0.57
24:AY:141:LYS:O	24:AY:144:ALA:HB2	2.05	0.57
24:AY:209:ALA:O	24:AY:210:ARG:C	2.43	0.57
53:BU:65:ILE:HG12	53:BU:96:ALA:HB1	1.87	0.57
57:DY:39:VAL:HG12	57:DY:40:GLU:N	2.20	0.57
58:DZ:10:ARG:NH2	58:DZ:26:GLY:O	2.38	0.57
57:BY:74:PRO:HG3	57:BY:83:THR:HG22	1.85	0.57
30:B5:3:LYS:NZ	35:BA:2613:U:H2'	2.20	0.57
5:CE:79:GLU:HB3	5:CE:93:PRO:HD2	1.87	0.57
8:CH:104:ARG:O	8:CH:106:GLY:N	2.38	0.57
35:DA:1301:A:HO2'	35:DA:1302:A:H2'	1.69	0.57
48:BP:12:ALA:HB1	48:BP:16:ARG:HB3	1.87	0.57
2:CB:101:MET:C	2:CB:102:LEU:HD12	2.25	0.57
1:AA:687:A:H62	1:AA:703:G:H1'	1.69	0.57
39:BE:34:VAL:O	39:BE:35:GLN:CB	2.52	0.57
35:DA:1141:U:H5''	46:DN:63:THR:HG23	1.85	0.57
2:CB:223:ILE:C	2:CB:225:ALA:H	2.08	0.57
25:D0:45:PHE:O	25:D0:59:LEU:HD11	2.05	0.57
6:CF:67:MET:SD	6:CF:75:LEU:HD22	2.44	0.57
5:AE:12:LEU:CD1	5:AE:31:LEU:HB3	2.35	0.57
35:DA:203:C:C3'	35:DA:204:A:H5''	2.30	0.57
44:DK:21:PRO:HA	44:DK:23:VAL:N	2.19	0.57
35:BA:622:G:O2'	35:BA:623:G:H5'	2.05	0.57
58:BZ:107:THR:HG23	58:BZ:111:VAL:CB	2.35	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:BD:26:LYS:O	38:BD:27:THR:HG22	2.05	0.57
55:DW:36:LEU:HD11	55:DW:47:VAL:HG12	1.87	0.57
24:AY:379:GLY:O	24:AY:380:LEU:HB2	2.04	0.57
19:AS:64:GLU:O	29:B4:48:ARG:NH2	2.37	0.57
24:CY:330:VAL:HG12	24:CY:331:TYR:H	1.70	0.57
1:AA:630:G:C2'	1:AA:631:G:C5'	2.82	0.57
35:DA:2199:A:H3'	35:DA:2200:C:H6	1.68	0.57
20:AT:47:GLY:O	20:AT:49:ALA:N	2.32	0.57
58:DZ:127:LYS:CB	58:DZ:127:LYS:NZ	2.68	0.57
24:AY:99:ARG:NE	24:AY:128:TYR:HB2	2.20	0.57
46:DN:17:ASP:CG	46:DN:56:ASN:HB3	2.26	0.57
24:AY:395:PRO:O	24:AY:397:VAL:HG13	2.05	0.57
49:BQ:76:LYS:HB3	49:BQ:91:GLU:CG	2.35	0.57
38:BD:76:PRO:O	38:BD:98:VAL:HG23	2.03	0.57
13:AM:63:THR:HG22	13:AM:64:TRP:H	1.67	0.57
1:AA:1478:C:O2'	1:AA:1479:C:H5'	2.04	0.57
7:CG:38:LEU:O	7:CG:41:ARG:HB2	2.05	0.57
35:BA:1809:A:H2'	35:BA:1810:A:C8	2.40	0.57
37:DC:185:LYS:HA	37:DC:185:LYS:HE3	1.86	0.57
7:CG:113:GLU:HG2	7:CG:119:ARG:HG2	1.87	0.57
35:DA:2769:C:O2'	35:DA:2770:G:H5'	2.05	0.57
35:BA:1248:G:C2	53:BU:3:ARG:HD2	2.40	0.57
35:BA:889:C:H2'	35:BA:890:A:O4'	2.04	0.57
1:CA:1416:G:H2'	1:CA:1417:G:O4'	2.05	0.57
41:BG:91:ARG:C	41:BG:91:ARG:CD	2.73	0.56
10:AJ:33:GLN:N	10:AJ:75:ILE:HD11	2.20	0.56
4:AD:17:VAL:O	4:AD:17:VAL:HG12	2.05	0.56
35:DA:1043:C:C3'	35:DA:1044:G:H5''	2.34	0.56
40:BF:152:GLU:O	40:BF:153:SER:C	2.43	0.56
53:DU:76:TYR:C	53:DU:76:TYR:CD2	2.78	0.56
35:BA:1109:C:H5'	35:BA:1110:G:OP2	2.04	0.56
33:D8:25:MET:O	33:D8:47:LYS:HG2	2.05	0.56
38:BD:71:ASP:HB2	38:BD:103:ARG:NH2	2.05	0.56
57:BY:88:LYS:HD2	57:BY:88:LYS:N	2.19	0.56
35:DA:1485:G:C1'	35:DA:1505:C:H42	2.17	0.56
35:DA:1301:A:H4'	35:DA:1302:A:OP1	2.04	0.56
1:AA:1057:G:N2	1:AA:1204:A:H1'	2.20	0.56
48:BP:115:LEU:HD23	48:BP:115:LEU:H	1.70	0.56
48:BP:146:VAL:O	48:BP:148:LEU:HD12	2.05	0.56
35:BA:2305:A:H5''	41:BG:134:GLY:HA3	1.87	0.56
44:BK:77:LEU:H	44:BK:77:LEU:CD2	2.09	0.56
35:BA:2754:U:H2'	35:BA:2755:C:H5'	1.87	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:945:A:O2'	35:BA:946:G:H4'	2.05	0.56
39:BE:47:VAL:CG1	39:BE:48:GLN:H	2.13	0.56
51:DS:88:ASP:CG	51:DS:89:ARG:H	2.07	0.56
25:D0:51:VAL:CG2	25:D0:81:VAL:HG23	2.34	0.56
37:DC:118:PRO:HB2	37:DC:148:PHE:CZ	2.41	0.56
35:BA:1374:G:H2'	35:BA:1375:C:C6	2.39	0.56
35:DA:2657:A:O2'	42:DH:160:LYS:HE3	2.05	0.56
52:BT:126:ALA:C	52:BT:128:GLU:H	2.08	0.56
35:BA:910:A:H62	49:BQ:12:GLN:HA	1.68	0.56
27:B2:25:VAL:O	27:B2:27:GLU:N	2.37	0.56
1:AA:1108:G:H5'	3:AC:176:HIS:CD2	2.40	0.56
35:DA:120:U:H5'	35:DA:121:G:OP1	2.04	0.56
42:DH:89:ILE:O	42:DH:89:ILE:HG13	2.05	0.56
24:AY:495:GLY:O	24:AY:509:HIS:HA	2.05	0.56
35:BA:2556:C:H2'	35:BA:2557:G:O4'	2.05	0.56
28:D3:4:LEU:O	28:D3:36:VAL:HA	2.04	0.56
35:DA:1718:G:H5'	35:DA:1718:G:C8	2.40	0.56
35:DA:784:A:H5''	38:DD:227:ASN:HD21	1.70	0.56
18:AR:44:LEU:CD2	18:AR:79:LEU:HD22	2.35	0.56
38:DD:210:GLY:O	38:DD:212:SER:N	2.36	0.56
47:BO:97:ARG:HH11	47:BO:97:ARG:HG3	1.70	0.56
35:BA:1847:A:H3'	35:BA:1848:A:C5'	2.35	0.56
55:BW:25:ARG:NH2	55:BW:74:ALA:O	2.38	0.56
10:CJ:90:LEU:N	10:CJ:91:PRO:CD	2.68	0.56
13:CM:121:LYS:HD3	13:CM:121:LYS:N	2.20	0.56
29:D4:37:SER:O	29:D4:38:LYS:HB2	2.04	0.56
35:BA:1093:G:H21	35:BA:1098:A:H62	1.53	0.56
38:DD:79:VAL:O	38:DD:113:VAL:HG13	2.04	0.56
43:BJ:56:UNK:CB	43:BJ:83:UNK:HA	2.34	0.56
1:CA:833:U:H2'	1:CA:834:C:C6	2.40	0.56
38:BD:23:GLU:HA	38:BD:23:GLU:OE1	2.04	0.56
1:AA:449:C:O2	16:AP:42:ARG:HD2	2.05	0.56
24:AY:113:GLY:C	24:AY:115:GLU:N	2.48	0.56
23:CX:11:U:O2	23:CX:11:U:H2'	2.03	0.56
24:AY:435:ASP:OD1	61:AY:702:FUA:H22	2.05	0.56
57:BY:39:VAL:HG12	57:BY:40:GLU:N	2.21	0.56
40:BF:167:ALA:CB	40:BF:173:VAL:HG11	2.25	0.56
25:B0:10:THR:HG21	35:BA:2277:G:OP2	2.05	0.56
24:CY:147:TRP:O	24:CY:151:ARG:HG3	2.06	0.56
1:CA:1057:G:N2	1:CA:1204:A:H1'	2.20	0.56
48:BP:127:ALA:O	48:BP:148:LEU:HD11	2.05	0.56
35:BA:2305:A:C4	41:BG:154:GLY:HA3	2.40	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:BK:106:GLU:CA	44:BK:109:LYS:HD3	2.30	0.56
19:AS:29:ARG:O	19:AS:31:ILE:HG22	2.05	0.56
2:CB:30:ARG:HG3	2:CB:31:TYR:CD2	2.40	0.56
25:D0:49:LYS:O	25:D0:51:VAL:HG23	2.04	0.56
18:CR:56:THR:O	18:CR:58:LEU:HD12	2.04	0.56
42:DH:45:VAL:HA	42:DH:50:VAL:HG22	1.87	0.56
52:DT:11:GLU:H	52:DT:11:GLU:CD	2.08	0.56
42:DH:16:SER:HB2	42:DH:27:LYS:CB	2.34	0.56
24:CY:247:ARG:HD2	24:CY:278:ASP:O	2.05	0.56
35:BA:621:A:C2'	35:BA:622:G:H5'	2.34	0.56
24:CY:191:ASP:C	24:CY:193:GLY:H	2.08	0.56
12:AL:25:PRO:C	12:AL:27:LEU:N	2.54	0.56
37:DC:29:LEU:O	37:DC:30:VAL:C	2.43	0.56
34:D9:27:CYS:SG	34:D9:29:ASN:ND2	2.78	0.56
34:D9:31:LYS:HD3	35:DA:2478:A:OP1	2.05	0.56
24:AY:92:ILE:HG23	24:AY:93:GLU:N	2.20	0.56
35:BA:2021:C:H4'	35:BA:2022:U:OP2	2.05	0.56
35:BA:884:C:H41	35:BA:886:C:H42	1.51	0.56
7:AG:153:HIS:CE1	11:AK:58:PRO:HD2	2.41	0.56
32:D7:28:ARG:HH11	32:D7:28:ARG:HG3	1.68	0.56
26:D1:6:GLU:O	26:D1:7:ILE:HD12	2.05	0.56
14:CN:37:PHE:HE1	14:CN:53:LEU:HD22	1.70	0.56
38:DD:218:ARG:HH11	38:DD:218:ARG:HG3	1.71	0.56
8:CH:120:THR:HG23	8:CH:123:GLU:OE1	2.05	0.56
35:BA:2428:G:H4'	35:BA:2429:G:O5'	2.06	0.56
24:AY:534:ILE:HG13	24:AY:570:GLY:O	2.05	0.56
35:BA:1114:G:H2'	35:BA:1115:G:H5'	1.86	0.56
5:CE:36:ASP:OD2	5:CE:40:ARG:HB2	2.05	0.56
35:BA:1386:C:H2'	35:BA:1387:C:C6	2.40	0.56
35:DA:710:G:H1	35:DA:721:C:H42	1.51	0.56
35:BA:1068:G:N2	35:BA:1096:A:H5'	2.19	0.56
17:AQ:7:THR:O	17:AQ:23:VAL:HG13	2.04	0.56
35:BA:537:C:H2'	35:BA:538:G:H8	1.69	0.56
35:DA:2649:U:O2'	35:DA:2650:U:H5'	2.04	0.56
1:AA:950:U:H2'	1:AA:951:G:H8	1.70	0.56
35:BA:1398:C:H2'	35:BA:1399:C:H6	1.70	0.56
20:AT:24:LEU:O	20:AT:24:LEU:HD13	2.05	0.56
18:CR:25:THR:O	18:CR:25:THR:HG22	2.05	0.56
13:CM:106:ASN:O	13:CM:107:ALA:HB3	2.05	0.56
40:DF:119:ARG:HH11	40:DF:119:ARG:HG2	1.68	0.56
24:AY:614:GLU:HA	24:AY:617:MET:HB2	1.87	0.56
41:BG:138:GLN:NE2	41:BG:149:VAL:HG23	2.20	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:AJ:30:SER:HA	10:AJ:80:LYS:HE2	1.86	0.56
24:CY:409:ILE:CD1	24:CY:656:ALA:HB3	2.34	0.56
24:CY:86:GLY:O	24:CY:88:VAL:HG22	2.04	0.56
35:DA:2051:A:H4'	39:DE:141:ILE:CD1	2.35	0.56
48:BP:7:ARG:HA	48:BP:7:ARG:CZ	2.35	0.56
53:DU:66:ASN:ND2	53:DU:76:TYR:H	2.04	0.56
53:DU:65:ILE:HD11	53:DU:93:LYS:HA	1.87	0.56
53:BU:62:ILE:HG23	53:BU:76:TYR:CE1	2.40	0.56
38:DD:34:VAL:CG2	38:DD:35:LYS:H	2.02	0.56
31:B6:54:ILE:O	31:B6:54:ILE:CD1	2.52	0.56
35:DA:322:A:H5'	35:DA:340:A:H1'	1.87	0.56
57:DY:2:ARG:N	57:DY:4:LYS:HG2	2.20	0.56
57:DY:8:LYS:H	57:DY:8:LYS:HD2	1.68	0.56
35:BA:2272:U:H5''	35:BA:2273:A:OP1	2.04	0.56
40:DF:185:ASP:HA	40:DF:188:ARG:CD	2.34	0.56
35:BA:2334:G:C4	51:BS:15:ARG:HD3	2.41	0.56
19:AS:5:LEU:HG	19:AS:10:PHE:CD1	2.40	0.56
24:CY:209:ALA:O	24:CY:210:ARG:C	2.43	0.56
24:CY:227:ILE:O	24:CY:227:ILE:HG22	2.05	0.56
31:B6:16:CYS:O	31:B6:17:LYS:HB2	2.06	0.56
35:BA:2287:A:N6	35:BA:2344:U:N3	2.48	0.56
51:BS:90:GLY:C	51:BS:92:TYR:H	2.08	0.56
24:CY:33:LEU:HD12	24:CY:36:THR:HG21	1.86	0.56
31:B6:48:VAL:O	31:B6:49:HIS:HB2	2.05	0.56
31:D6:37:ARG:NH2	35:DA:2286:A:N6	2.52	0.56
49:DQ:55:VAL:HG13	49:DQ:56:ARG:N	2.19	0.56
48:BP:27:HIS:C	48:BP:27:HIS:CD2	2.77	0.56
53:BU:8:VAL:HG23	53:BU:11:ARG:HH21	1.70	0.56
35:DA:947:G:H2'	35:DA:948:G:C8	2.40	0.56
18:CR:37:VAL:C	18:CR:39:VAL:H	2.08	0.56
2:CB:153:ARG:C	2:CB:155:LEU:N	2.58	0.56
46:BN:45:ASN:N	46:BN:45:ASN:HD22	1.83	0.56
27:D2:69:ARG:CG	27:D2:70:GLN:N	2.64	0.56
51:BS:36:TYR:N	51:BS:36:TYR:CD1	2.74	0.56
51:DS:88:ASP:OD2	51:DS:89:ARG:N	2.39	0.56
46:DN:58:ASP:C	46:DN:60:ILE:N	2.58	0.56
35:BA:654(L):G:H2'	35:BA:654(M):C:H4'	1.88	0.56
35:BA:676:A:H2	35:BA:802:A:H61	1.51	0.56
52:BT:42:ILE:HD13	52:BT:83:ILE:HD13	1.88	0.56
1:CA:1226:C:H5''	13:CM:103:THR:CB	2.35	0.56
6:AF:67:MET:SD	6:AF:75:LEU:HD22	2.46	0.56
39:BE:8:LYS:HG2	39:BE:192:ASN:HA	1.85	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:DG:77:ILE:HG22	41:DG:80:PHE:H	1.70	0.56
42:BH:46:GLU:OE1	42:BH:51:ARG:HB2	2.05	0.56
38:DD:131:LEU:CD1	38:DD:131:LEU:N	2.66	0.56
42:BH:16:SER:CB	42:BH:27:LYS:HB2	2.32	0.56
35:DA:1336:A:H2'	35:DA:1337:G:C8	2.39	0.56
35:DA:1336:A:P	56:DX:64:LYS:HE3	2.45	0.56
38:DD:26:LYS:HE2	38:DD:26:LYS:CA	2.35	0.56
42:DH:19:VAL:O	42:DH:20:ALA:HB2	2.05	0.56
7:AG:43:PHE:O	7:AG:46:ALA:HB3	2.05	0.56
1:AA:624:C:H2'	1:AA:625:G:H8	1.69	0.56
41:DG:5:VAL:HG12	41:DG:7:LEU:H	1.71	0.56
30:D5:58:LEU:HD13	30:D5:59:GLU:N	2.20	0.56
1:CA:1444:C:H2'	1:CA:1445:C:H6	1.67	0.56
56:BX:8:ILE:H	56:BX:8:ILE:CD1	2.16	0.56
35:DA:881:G:H2'	35:DA:882:G:H5'	1.86	0.56
54:DV:82:ARG:HD2	54:DV:82:ARG:N	2.20	0.56
18:AR:69:THR:O	18:AR:72:ARG:N	2.39	0.56
26:D1:7:ILE:CG2	26:D1:66:HIS:HD2	2.18	0.56
24:CY:488:THR:HG23	24:CY:600:VAL:HB	1.88	0.56
42:DH:105:LEU:H	42:DH:105:LEU:HD23	1.69	0.56
58:DZ:97:GLU:HA	58:DZ:126:VAL:O	2.06	0.56
46:BN:21:LYS:HD2	46:BN:26:LEU:HB3	1.86	0.56
1:AA:675:A:O2'	1:AA:676:A:H5'	2.05	0.56
56:DX:65:ARG:HH11	56:DX:65:ARG:HG2	1.70	0.56
24:AY:343:ASN:ND2	24:AY:343:ASN:C	2.59	0.56
1:AA:1423:G:H5'	47:BO:49:ARG:HH22	1.69	0.56
35:BA:850:C:O2'	35:BA:851:U:H5'	2.05	0.56
22:CV:69:C:O2'	22:CV:70:G:H5'	2.05	0.56
29:B4:12:ALA:HB1	29:B4:29:PRO:HA	1.86	0.56
35:DA:481:G:OP2	57:DY:47:LYS:HD3	2.05	0.56
24:AY:609:GLU:HA	24:AY:643:ILE:O	2.05	0.56
24:AY:652:MET:O	24:AY:652:MET:HG3	2.04	0.56
24:AY:655:TYR:HD2	24:AY:669:PHE:CE2	2.24	0.56
35:BA:2171:A:H1'	35:BA:2172:U:C5	2.40	0.56
24:AY:496:LYS:HE2	24:AY:498:ILE:HD13	1.87	0.56
26:D1:35:THR:HG23	26:D1:35:THR:O	2.04	0.56
35:BA:1035:U:H2'	35:BA:1036:G:H8	1.68	0.56
35:DA:491:G:H2'	35:DA:492:A:C8	2.41	0.56
28:D3:9:VAL:HG11	28:D3:55:ARG:HD3	1.86	0.56
39:BE:101:ARG:NE	39:BE:171:GLU:HB2	2.20	0.56
35:BA:492:A:H2'	35:BA:493:G:H5'	1.88	0.56
38:BD:72:LYS:HB3	38:BD:75:ILE:HB	1.88	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1422:G:O2'	1:CA:1423:G:H5'	2.05	0.56
19:CS:48:THR:HG22	19:CS:61:TYR:HA	1.87	0.56
35:BA:551:G:H2'	35:BA:552:G:H5'	1.87	0.56
19:AS:46:GLY:O	19:AS:48:THR:N	2.39	0.56
43:BJ:54:UNK:O	43:BJ:56:UNK:N	2.38	0.56
46:DN:97:ARG:O	46:DN:101:HIS:HB2	2.05	0.56
18:CR:40:LEU:O	18:CR:42:ARG:N	2.38	0.56
35:BA:292:C:O2'	35:BA:293:U:H5'	2.05	0.56
35:DA:1662:C:H2'	35:DA:1663:C:C6	2.39	0.56
54:BV:98:GLU:OE2	54:BV:100:ARG:HD3	2.06	0.56
35:BA:206:U:H2'	35:BA:206:U:O2	2.04	0.56
43:BJ:118:UNK:C	43:BJ:120:UNK:H	2.18	0.56
10:AJ:90:LEU:N	10:AJ:91:PRO:HD3	2.19	0.56
49:DQ:66:ILE:O	49:DQ:66:ILE:HG13	2.04	0.56
41:BG:18:GLU:HA	41:BG:18:GLU:OE2	2.06	0.56
38:BD:201:HIS:O	38:BD:204:ILE:HG12	2.06	0.56
49:BQ:135:ASP:CG	58:BZ:49:ARG:NH1	2.58	0.56
2:CB:60:ASP:O	2:CB:64:ARG:NH2	2.39	0.56
35:BA:58:G:H1	35:BA:69:C:H42	1.51	0.56
37:DC:14:LYS:HD3	37:DC:14:LYS:H	1.71	0.56
35:DA:860:U:H5	35:DA:917:A:N7	2.03	0.56
35:BA:1305:C:O2'	35:BA:1306:C:H5'	2.05	0.56
35:BA:680:G:H2'	35:BA:681:G:C8	2.40	0.56
1:CA:67:C:H2'	1:CA:68:G:C8	2.40	0.56
7:AG:38:LEU:O	7:AG:41:ARG:HB2	2.06	0.56
35:DA:2011:U:H2'	35:DA:2012:G:H5'	1.87	0.56
40:BF:157:VAL:HG12	40:BF:176:LEU:HD23	1.87	0.56
40:BF:185:ASP:HA	40:BF:188:ARG:CG	2.34	0.56
31:B6:9:LEU:HD12	31:B6:28:ARG:HG3	1.86	0.56
33:B8:33:ASN:N	33:B8:36:LYS:HD2	2.20	0.56
48:BP:23:PRO:C	48:BP:33:ARG:CZ	2.73	0.56
48:BP:55:ARG:CG	48:BP:56:SER:N	2.60	0.56
56:BX:10:ALA:HB1	56:BX:11:PRO:HD2	1.87	0.56
35:DA:2334:G:C4	51:DS:15:ARG:HD3	2.40	0.56
57:BY:25:GLY:HA3	57:BY:39:VAL:CG1	2.35	0.56
29:D4:8:LYS:O	29:D4:9:LEU:CB	2.53	0.56
41:DG:153:ARG:NH1	41:DG:153:ARG:HB3	2.20	0.56
8:AH:109:ILE:HG12	8:AH:110:ALA:H	1.70	0.56
48:DP:12:ALA:HB1	48:DP:16:ARG:HB3	1.87	0.56
2:AB:114:ARG:HD2	2:AB:118:LEU:HG	1.86	0.56
2:AB:215:LEU:O	2:AB:219:VAL:HG23	2.04	0.56
2:AB:223:ILE:C	2:AB:225:ALA:H	2.07	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:614(A):U:H5''	35:DA:614(B):G:OP2	2.05	0.56
46:DN:87:LEU:HD21	46:DN:98:VAL:HG13	1.88	0.56
24:CY:251:ILE:HG23	24:CY:281:PRO:HB3	1.87	0.56
35:DA:797:C:H2'	35:DA:798:G:H8	1.71	0.56
35:DA:1948:G:H5'	35:DA:1948:G:H8	1.68	0.56
44:BK:93:ARG:HG3	58:BZ:112:ARG:NE	2.19	0.56
51:DS:30:ARG:NH2	51:DS:62:LYS:HD2	2.20	0.56
40:BF:160:ASN:HD22	40:BF:161:GLU:N	2.04	0.56
52:DT:33:LYS:HE2	52:DT:43:GLN:CD	2.26	0.56
39:DE:95:ILE:HD13	39:DE:95:ILE:N	2.21	0.56
37:BC:29:LEU:O	37:BC:30:VAL:C	2.43	0.56
35:DA:676:A:H2	35:DA:802:A:H61	1.53	0.56
24:CY:366:VAL:HG23	24:CY:367:GLU:N	2.20	0.56
4:CD:57:ARG:H	4:CD:57:ARG:HD2	1.69	0.56
50:DR:11:ASN:O	50:DR:12:ARG:HB2	2.06	0.56
35:DA:654(G):C:H2'	35:DA:654(H):G:C8	2.38	0.56
35:DA:848:G:H5''	35:DA:928:G:H22	1.69	0.56
1:CA:631:G:H8	1:CA:631:G:H5'	1.71	0.56
15:CO:9:GLN:HB3	15:CO:13:GLN:NE2	2.20	0.56
35:BA:2030:A:H5''	35:BA:2031:A:OP1	2.05	0.56
14:AN:47:LEU:O	14:AN:50:LYS:N	2.39	0.56
31:D6:40:CYS:HB2	31:D6:46:HIS:ND1	2.20	0.56
1:CA:1133:G:N2	1:CA:1143:G:H1'	2.19	0.56
10:AJ:18:ALA:C	10:AJ:20:ALA:H	2.08	0.56
22:AW:74:A:C2'	22:AW:75:C:H5''	2.36	0.56
24:AY:534:ILE:HD11	24:AY:570:GLY:HA3	1.88	0.56
12:CL:110:VAL:HG21	12:CL:120:TYR:HD2	1.70	0.56
24:AY:309:LEU:HD12	24:AY:310:ALA:N	2.20	0.56
26:B1:26:ARG:HG3	26:B1:27:GLU:HG3	1.86	0.56
3:AC:112:SER:HB3	3:AC:115:LEU:HD12	1.86	0.56
38:DD:166:GLN:HE21	38:DD:166:GLN:CA	2.18	0.56
35:DA:1404:C:O2'	35:DA:1405:U:H5'	2.04	0.56
35:BA:573:G:O2'	35:BA:574:C:H3'	2.05	0.56
10:AJ:90:LEU:N	10:AJ:91:PRO:CD	2.69	0.56
6:AF:4:TYR:CE1	6:AF:92:LYS:HD2	2.40	0.56
1:CA:807:A:H2'	1:CA:808:C:C6	2.40	0.56
35:BA:1272:A:OP2	35:BA:1647:G:OP1	2.23	0.56
7:CG:51:GLN:OE1	7:CG:51:GLN:HA	2.06	0.56
38:BD:112:GLN:H	38:BD:115:GLN:NE2	2.03	0.56
4:AD:8:VAL:HB	4:AD:21:LEU:CD1	2.35	0.56
40:BF:25:PRO:CG	40:BF:119:ARG:HB2	2.35	0.56
46:DN:7:LYS:O	46:DN:9:VAL:N	2.38	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
53:DU:106:PHE:O	53:DU:109:LEU:N	2.39	0.56
31:D6:11:LEU:CG	31:D6:26:ASN:HD21	2.17	0.56
33:D8:14:VAL:HG21	33:D8:22:VAL:CG1	2.35	0.56
48:DP:50:ARG:O	48:DP:57:THR:HG22	2.06	0.56
31:D6:15:GLU:HB2	31:D6:47:THR:HG21	1.87	0.56
2:CB:51:LEU:HD23	2:CB:201:ILE:HD12	1.88	0.56
12:CL:70:ILE:HG21	12:CL:77:LEU:CD1	2.35	0.56
13:CM:49:THR:O	13:CM:53:VAL:HG23	2.06	0.56
39:DE:77:ILE:HG22	39:DE:78:LEU:HD12	1.86	0.56
2:AB:44:LEU:HA	2:AB:47:THR:OG1	2.05	0.56
37:DC:95:VAL:HG12	37:DC:96:GLY:N	2.21	0.56
5:AE:12:LEU:HD13	5:AE:12:LEU:C	2.25	0.56
42:DH:46:GLU:OE1	42:DH:51:ARG:HB2	2.06	0.56
49:DQ:45:GLN:H	49:DQ:45:GLN:CD	2.01	0.56
52:BT:53:ARG:HH11	52:BT:53:ARG:CB	2.17	0.56
35:BA:1336:A:H2'	35:BA:1337:G:C8	2.40	0.56
1:CA:1288:A:H2'	1:CA:1289:A:C8	2.39	0.56
35:DA:828:U:C5	35:DA:829:A:N6	2.74	0.56
35:DA:674:G:H2'	35:DA:804:A:H61	1.71	0.56
35:BA:1185:C:H5'	35:BA:1186:G:P	2.46	0.56
26:D1:7:ILE:HG22	26:D1:66:HIS:CD2	2.34	0.56
20:AT:49:ALA:CB	20:AT:99:LEU:HG	2.35	0.56
50:DR:7:GLY:C	50:DR:8:ARG:NE	2.59	0.56
26:D1:50:ARG:HG3	26:D1:59:THR:HG22	1.88	0.56
35:BA:455:C:N3	35:BA:472:A:H2'	2.21	0.56
57:DY:17:SER:HB2	57:DY:71:LYS:HD2	1.86	0.56
35:BA:2026:C:N3	35:BA:2027:G:C8	2.74	0.56
2:AB:11:LEU:HD11	2:AB:217:ARG:NH2	2.20	0.56
2:AB:178:ARG:HB2	2:AB:178:ARG:HH11	1.71	0.56
1:AA:821:G:O2'	1:AA:822:C:H5'	2.05	0.56
35:BA:1461:G:O2'	35:BA:1462:C:H5'	2.06	0.56
35:DA:845:G:OP2	35:DA:845:G:H8	1.88	0.56
42:DH:155:SER:O	42:DH:157:TYR:N	2.38	0.56
23:AX:13:A:C2'	23:AX:14:A:H5''	2.35	0.56
53:DU:65:ILE:HG12	53:DU:96:ALA:HB1	1.88	0.56
1:CA:1318:A:H2'	1:CA:1319:A:H5'	1.87	0.56
40:DF:114:VAL:HG21	40:DF:202:PHE:CE1	2.40	0.56
35:DA:2415:G:H4'	48:DP:67:MET:N	2.19	0.56
41:DG:138:GLN:O	41:DG:144:ILE:HD13	2.05	0.56
5:AE:80:ILE:HG22	8:AH:104:ARG:HH22	1.66	0.56
35:DA:1506:C:H2'	35:DA:1506:C:O2	2.06	0.56
31:D6:43:CYS:HB2	31:D6:44:ARG:NH2	2.18	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:CE:79:GLU:HB3	5:CE:92:LYS:HA	1.88	0.56
1:AA:1130:A:C2	1:AA:1146:A:C4	2.94	0.56
46:DN:120:LEU:HD11	46:DN:122:VAL:HG23	1.86	0.56
46:BN:43:THR:HB	46:BN:46:VAL:HG11	1.86	0.56
48:BP:127:ALA:HB3	48:BP:130:PHE:CZ	2.41	0.56
44:BK:58:THR:HB	44:BK:66:THR:CG2	2.35	0.56
2:AB:119:GLU:OE1	2:AB:153:ARG:NH2	2.38	0.56
35:DA:2888:C:H2'	35:DA:2889:C:H6	1.70	0.56
39:BE:89:ASP:O	39:BE:90:THR:O	2.23	0.56
24:AY:526:VAL:HB	24:AY:566:THR:HG23	1.88	0.56
1:AA:1442(B):A:N7	52:BT:118:ARG:HG2	2.20	0.56
2:AB:54:THR:HG22	2:AB:58:ILE:HD11	1.87	0.56
38:BD:161:THR:O	38:BD:162:SER:HB3	2.06	0.56
52:DT:106:SER:O	52:DT:107:ASP:CB	2.53	0.56
2:CB:12:GLU:HA	2:CB:16:HIS:CG	2.40	0.56
40:DF:174:VAL:HG21	40:DF:189:THR:HG21	1.88	0.56
9:AI:79:LEU:CD1	9:AI:83:ARG:HD2	2.35	0.56
52:DT:80:SER:CB	52:DT:81:PRO:CD	2.84	0.56
39:BE:82:ARG:HG3	39:BE:83:ASP:H	1.70	0.56
42:BH:159:GLU:OE1	42:BH:159:GLU:HA	2.06	0.56
24:CY:357:ARG:HG3	24:CY:366:VAL:HG11	1.86	0.56
35:DA:1220:A:H3'	35:DA:1221:C:C5'	2.36	0.56
35:BA:933:A:H2'	35:BA:934:G:O4'	2.06	0.56
4:CD:162:LEU:CD1	4:CD:181:MET:HG2	2.35	0.56
3:CC:119:ARG:O	3:CC:123:GLN:HG3	2.06	0.56
35:BA:1567:A:H2'	38:BD:84:TYR:CE2	2.39	0.56
46:BN:126:PRO:O	46:BN:127:ASP:HB2	2.04	0.56
28:B3:9:VAL:HG11	28:B3:55:ARG:HD3	1.88	0.56
35:BA:1774:C:O2	38:BD:11:PRO:HB2	2.05	0.56
50:BR:44:LEU:O	50:BR:44:LEU:HD13	2.04	0.56
7:AG:27:ILE:HD11	7:AG:40:ALA:HA	1.87	0.56
13:CM:77:ASN:O	13:CM:80:ARG:N	2.35	0.56
6:CF:10:LEU:HD12	6:CF:61:LEU:HD13	1.88	0.56
35:BA:406:G:O2'	35:BA:407:G:C8	2.58	0.56
35:DA:551:G:H2'	35:DA:552:G:H5'	1.88	0.56
35:DA:2681:C:H5	35:DA:2725:A:H62	1.53	0.56
1:CA:45:U:H2'	1:CA:46:G:H8	1.70	0.56
22:AV:2:G:H5''	25:B0:8:GLY:HA2	1.88	0.56
35:DA:2028:U:H2'	35:DA:2029:G:C8	2.41	0.56
18:AR:25:THR:HG22	18:AR:25:THR:O	2.05	0.56
35:DA:1306:C:H2'	35:DA:1307:A:H8	1.70	0.56
42:DH:173:PRO:C	42:DH:175:LYS:H	2.08	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:DP:7:ARG:HA	48:DP:7:ARG:CZ	2.36	0.56
41:BG:34:LEU:N	41:BG:34:LEU:HD12	2.21	0.56
37:BC:95:VAL:HG12	37:BC:96:GLY:N	2.21	0.56
53:BU:65:ILE:HD11	53:BU:93:LYS:HA	1.88	0.56
54:BV:38:LEU:H	54:BV:51:VAL:HG13	1.71	0.56
48:BP:45:LEU:HG	48:BP:46:LYS:H	1.70	0.56
58:DZ:10:ARG:HB3	58:DZ:36:LYS:CB	2.35	0.56
42:DH:12:PRO:O	42:DH:15:VAL:HG22	2.04	0.56
31:D6:27:LYS:HB3	31:D6:30:THR:HG22	1.87	0.56
31:D6:7:ILE:HD12	31:D6:7:ILE:N	2.20	0.56
35:DA:2272:U:H5''	35:DA:2273:A:OP1	2.05	0.56
24:CY:238:THR:C	24:CY:240:GLU:N	2.59	0.56
48:DP:16:ARG:HB2	48:DP:16:ARG:HH11	1.69	0.56
1:AA:1198:G:H2'	1:AA:1199:U:O4'	2.05	0.56
52:BT:1:MET:H2	52:BT:7:ILE:HD11	1.67	0.56
26:B1:58:ILE:HD11	26:B1:91:LYS:CA	2.36	0.56
26:D1:81:LYS:NZ	35:DA:271(H):G:H4'	2.20	0.56
12:CL:6:THR:OG1	12:CL:9:GLN:HG3	2.06	0.56
35:BA:82:G:H5''	35:BA:296:C:C5'	2.35	0.56
1:AA:192:U:O4'	20:AT:103:GLY:HA2	2.06	0.56
24:AY:446:THR:HG23	24:AY:448:GLN:HG2	1.88	0.56
55:BW:20:VAL:HG23	55:BW:47:VAL:HG21	1.88	0.56
10:AJ:47:PHE:CZ	14:AN:37:PHE:CE2	2.92	0.56
18:CR:44:LEU:CD2	18:CR:79:LEU:HD22	2.36	0.56
57:DY:59:GLY:O	57:DY:60:PHE:HB2	2.06	0.56
58:BZ:155:LEU:HD23	58:BZ:155:LEU:N	2.19	0.56
35:DA:688:U:H4'	35:DA:1780:A:C2	2.41	0.56
2:AB:194:PRO:HG2	2:AB:195:ASP:H	1.71	0.56
1:CA:658:G:O4'	15:CO:22:THR:HB	2.06	0.56
24:CY:498:ILE:HG22	24:CY:507:TYR:CD2	2.41	0.56
1:AA:164:U:H2'	1:AA:165:C:C6	2.40	0.56
57:DY:17:SER:CB	57:DY:71:LYS:HD2	2.36	0.56
2:CB:7:VAL:O	2:CB:11:LEU:HG	2.05	0.56
35:BA:1306:C:H2'	35:BA:1307:A:H8	1.70	0.56
6:AF:91:VAL:HG12	6:AF:92:LYS:N	2.21	0.56
54:DV:54:GLY:O	54:DV:55:ALA:HB2	2.05	0.56
32:B7:35:ARG:HH11	32:B7:35:ARG:HG2	1.70	0.56
1:AA:1009:G:N3	1:AA:1009:G:H2'	2.20	0.56
45:DL:81:UNK:O	45:DL:82:UNK:O	2.22	0.56
17:AQ:99:SER:C	17:AQ:100:LYS:HG3	2.26	0.56
54:DV:98:GLU:OE2	54:DV:100:ARG:HD3	2.06	0.56
35:BA:503:A:H4'	35:BA:504:U:C5'	2.36	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:BN:24:GLY:HA2	46:BN:27:ALA:HB3	1.88	0.56
4:CD:132:ARG:HD2	4:CD:132:ARG:O	2.05	0.56
20:CT:24:LEU:HD13	20:CT:24:LEU:O	2.05	0.56
35:DA:2512:C:H2'	35:DA:2513:G:O4'	2.05	0.56
43:DJ:130:UNK:O	43:DJ:132:UNK:N	2.39	0.56
41:BG:31:VAL:HG22	41:BG:32:PRO:HD2	1.87	0.56
41:BG:7:LEU:O	41:BG:11:TYR:N	2.37	0.56
24:AY:119:GLU:O	24:AY:120:THR:OG1	2.24	0.56
40:BF:2:LYS:HG3	40:BF:25:PRO:HG2	1.86	0.56
22:AW:60:A:C2'	22:AW:61:U:H5'	2.36	0.56
54:BV:51:VAL:HG12	54:BV:52:VAL:N	2.14	0.56
35:BA:2415:G:H4'	48:BP:67:MET:N	2.20	0.56
48:BP:50:ARG:O	48:BP:57:THR:HG22	2.06	0.56
29:D4:9:LEU:CD1	29:D4:10:VAL:H	2.19	0.56
5:AE:76:ILE:HG13	5:AE:77:PRO:HD2	1.88	0.56
24:CY:206:LEU:CD1	24:CY:210:ARG:HH12	2.19	0.56
24:CY:227:ILE:HD11	24:CY:241:GLU:O	2.05	0.56
51:BS:88:ASP:CG	51:BS:89:ARG:H	2.07	0.56
51:BS:88:ASP:OD2	51:BS:89:ARG:N	2.39	0.56
35:BA:583:G:OP2	53:BU:10:ARG:HD2	2.06	0.56
35:BA:2583:G:H2'	35:BA:2584:U:O2	2.05	0.56
2:AB:153:ARG:C	2:AB:155:LEU:N	2.57	0.56
1:AA:973:G:C1'	10:AJ:55:LYS:CE	2.83	0.56
35:DA:2110:G:HO2'	35:DA:2120:G:H5'	1.68	0.56
54:DV:18:LEU:CD1	54:DV:19:LYS:H	2.18	0.56
2:AB:238:LEU:O	2:AB:238:LEU:HG	2.06	0.56
13:CM:81:LEU:HB3	13:CM:89:GLY:HA2	1.87	0.56
35:DA:2103:C:H2'	35:DA:2103:C:O2	2.04	0.56
2:CB:21:ARG:HB3	2:CB:39:ILE:HA	1.87	0.56
44:DK:24:GLY:H	44:DK:25:PRO:HD2	1.69	0.56
1:AA:728:A:H2'	1:AA:729:A:C8	2.41	0.56
43:DJ:26:UNK:HA	43:DJ:84:UNK:CA	2.35	0.56
35:BA:1678:G:H22	35:BA:1989:G:H22	1.53	0.56
25:B0:43:THR:HG22	35:BA:2331:G:O2'	2.05	0.56
9:CI:79:LEU:CD1	9:CI:83:ARG:HB2	2.34	0.56
35:BA:2804:C:H2'	35:BA:2805:G:H8	1.71	0.56
34:D9:29:ASN:HD21	34:D9:32:HIS:CG	2.23	0.56
39:DE:82:ARG:HG3	39:DE:83:ASP:H	1.71	0.56
24:AY:381:LYS:HD2	24:AY:381:LYS:N	2.20	0.56
35:BA:2657:A:O2'	42:BH:160:LYS:HE3	2.05	0.56
4:AD:57:ARG:H	4:AD:57:ARG:HD2	1.70	0.56
35:BA:751:A:C5'	55:BW:90:ARG:HA	2.35	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:933:A:H2'	35:DA:934:G:O4'	2.06	0.56
25:D0:20:ARG:CD	25:D0:20:ARG:H	2.19	0.56
36:BB:22:U:H2'	36:BB:23:G:C8	2.41	0.56
11:CK:108:ILE:N	11:CK:108:ILE:CD1	2.69	0.56
49:DQ:97:VAL:HG11	49:DQ:103:MET:HE3	1.88	0.56
42:BH:86:GLU:HB2	42:BH:132:ARG:HB3	1.87	0.56
1:CA:255:G:O6	1:CA:266:G:O6	2.24	0.56
13:AM:10:PRO:HG3	13:AM:18:ALA:HB1	1.87	0.56
2:CB:194:PRO:HG2	2:CB:195:ASP:H	1.70	0.56
37:BC:215:VAL:HG23	37:BC:225:ILE:HG12	1.86	0.56
35:BA:1290:C:H2'	35:BA:1291:C:H6	1.71	0.56
35:BA:986:C:O2'	35:BA:987:G:H5'	2.06	0.56
35:DA:1149:G:H2'	35:DA:1150:C:C6	2.41	0.56
7:CG:91:VAL:HG12	7:CG:92:SER:N	2.21	0.56
17:CQ:80:GLY:O	17:CQ:81:ARG:HD2	2.06	0.56
41:BG:36:LYS:HA	41:BG:99:MET:SD	2.46	0.56
4:CD:25:ARG:HH12	4:CD:30:LYS:HB2	1.71	0.56
40:BF:40:GLN:OE1	40:BF:184:TYR:HB2	2.06	0.56
24:AY:415:PRO:O	24:AY:420:ASP:HB2	2.05	0.56
58:DZ:35:ARG:CZ	58:DZ:35:ARG:HB3	2.36	0.56
58:DZ:42:VAL:HG13	58:DZ:43:GLU:N	2.21	0.56
58:DZ:43:GLU:O	58:DZ:47:VAL:HG23	2.06	0.56
40:DF:157:VAL:HG22	40:DF:194:MET:HG2	1.87	0.56
31:D6:53:LYS:HG3	31:D6:54:ILE:HG23	1.88	0.56
5:AE:101:ILE:O	5:AE:101:ILE:HG12	2.06	0.56
3:CC:77:ILE:HA	3:CC:84:ILE:HB	1.88	0.56
24:CY:217:VAL:HA	24:CY:220:ALA:HB3	1.88	0.56
1:CA:1298:C:H1'	1:CA:1299:A:C6	2.41	0.56
40:DF:195:ASP:CG	40:DF:196:LEU:H	2.07	0.56
24:AY:77:HIS:NE2	24:AY:277:VAL:HG21	2.21	0.56
2:CB:119:GLU:OE1	2:CB:153:ARG:NH2	2.37	0.56
48:DP:112:LEU:O	48:DP:128:HIS:HB2	2.06	0.56
1:AA:1499:A:H1'	1:AA:1520:G:H5'	1.88	0.56
6:AF:37:VAL:CG1	6:AF:38:GLU:H	2.12	0.56
48:DP:27:HIS:CD2	48:DP:27:HIS:C	2.79	0.56
49:DQ:2:LEU:O	49:DQ:3:MET:HB3	2.06	0.56
35:BA:2746:U:O2'	35:BA:2747:G:H5'	2.06	0.56
30:B5:55:ARG:HH12	50:BR:33:ARG:CD	2.19	0.56
52:BT:120:ARG:HA	52:BT:123:GLN:HG2	1.88	0.56
3:AC:46:GLU:HB3	3:AC:83:ARG:HH22	1.71	0.56
35:BA:2103:C:H2'	35:BA:2103:C:O2	2.06	0.56
58:BZ:180:VAL:HG12	58:BZ:181:GLU:N	2.19	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:192:C:C2'	35:DA:193:U:H5'	2.31	0.56
8:CH:10:LEU:CD2	8:CH:83:ILE:HD11	2.35	0.56
44:DK:58:THR:HB	44:DK:66:THR:CG2	2.36	0.56
42:DH:140:LYS:O	42:DH:144:VAL:HG23	2.06	0.56
10:CJ:96:ILE:N	10:CJ:96:ILE:HD13	2.20	0.56
58:BZ:53:ILE:HG22	58:BZ:71:VAL:HB	1.87	0.56
1:CA:1312:G:O2'	1:CA:1313:U:H5'	2.06	0.56
50:BR:21:TYR:HB3	50:BR:47:PHE:CE2	2.41	0.56
15:CO:39:LEU:CD1	15:CO:56:LEU:HB2	2.36	0.56
35:DA:1185:C:H5'	35:DA:1186:G:P	2.45	0.56
35:DA:877:U:O2'	35:DA:878:A:H5'	2.06	0.56
35:DA:2132:U:C5	37:DC:6:LYS:HD2	2.41	0.56
1:AA:1142:G:H2'	1:AA:1143:G:O4'	2.06	0.56
1:CA:1142:G:H2'	1:CA:1143:G:O4'	2.06	0.56
24:CY:314:PHE:CE1	24:CY:327:PHE:HB3	2.41	0.56
36:DB:77:U:O2'	36:DB:78:A:H5'	2.06	0.56
24:AY:539:ILE:O	24:AY:542:VAL:HG12	2.06	0.56
35:DA:1567:A:H2'	38:DD:84:TYR:CE2	2.40	0.56
13:CM:10:PRO:HG3	13:CM:18:ALA:HB1	1.87	0.56
13:CM:83:ASP:CG	13:CM:84:ILE:N	2.60	0.56
35:DA:1847:A:H3'	35:DA:1848:A:C5'	2.36	0.56
6:CF:52:ILE:O	6:CF:53:ALA:HB3	2.06	0.56
7:CG:38:LEU:O	7:CG:42:ILE:HG13	2.06	0.56
2:CB:62:ALA:O	2:CB:64:ARG:N	2.35	0.56
1:CA:45:U:H2'	1:CA:46:G:C8	2.40	0.56
35:DA:1692:U:H2'	35:DA:1694:C:C5	2.41	0.56
35:BA:438:G:O2'	35:BA:440:G:H5'	2.05	0.56
35:BA:2845:G:O2'	35:BA:2846:G:H5'	2.06	0.56
1:CA:620:C:C2	4:CD:135:LEU:HG	2.41	0.56
35:DA:1624:G:O2'	35:DA:1625:C:H5'	2.06	0.56
1:AA:807:A:H2'	1:AA:808:C:C6	2.41	0.56
47:BO:52:VAL:O	47:BO:53:LYS:HG3	2.06	0.56
11:AK:12:ARG:O	11:AK:13:GLN:HG3	2.05	0.56
41:BG:67:LYS:HD3	41:BG:68:PRO:CD	2.36	0.56
41:BG:91:ARG:HD2	41:BG:92:VAL:CA	2.34	0.56
24:CY:605:ILE:CG2	24:CY:646:PHE:HB3	2.35	0.56
24:AY:218:GLU:O	24:AY:221:ALA:HB3	2.06	0.56
40:BF:25:PRO:HG3	40:BF:119:ARG:CB	2.34	0.56
54:DV:52:VAL:O	54:DV:52:VAL:HG13	2.06	0.56
25:D0:10:THR:HG21	35:DA:2277:G:OP2	2.06	0.56
40:DF:152:GLU:O	40:DF:153:SER:C	2.44	0.56
31:D6:11:LEU:HD23	31:D6:51:GLU:CG	2.36	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:DP:58:THR:C	48:DP:61:ARG:HE	2.06	0.56
52:BT:65:LYS:HZ2	52:BT:65:LYS:HA	1.67	0.56
1:AA:1318:A:O3'	19:AS:10:PHE:CD2	2.59	0.56
35:DA:1505:C:C5	35:DA:1506:C:H1'	2.41	0.56
37:DC:139:PRO:HA	37:DC:145:THR:HB	1.88	0.56
47:DO:115:VAL:CG1	47:DO:121:VAL:HG21	2.35	0.56
31:B6:15:GLU:OE1	31:B6:44:ARG:NH2	2.39	0.56
8:CH:103:VAL:HG12	8:CH:108:GLY:HA3	1.88	0.56
35:DA:2469:A:O3'	49:DQ:56:ARG:NH1	2.39	0.56
35:DA:2754:U:H2'	35:DA:2755:C:H5'	1.87	0.56
3:CC:79:ARG:CB	3:CC:79:ARG:HH11	2.12	0.56
35:DA:1332:G:N2	35:DA:1609:A:H3'	2.20	0.56
1:CA:299:G:H2'	1:CA:300:A:H8	1.68	0.56
37:DC:42:VAL:O	37:DC:176:VAL:HG22	2.06	0.56
1:CA:363:A:OP2	12:CL:33:ARG:HD3	2.06	0.56
35:BA:2076:U:H5'	35:BA:2238:G:N2	2.20	0.56
52:DT:126:ALA:C	52:DT:128:GLU:H	2.08	0.56
35:DA:884:C:H41	35:DA:886:C:H42	1.53	0.56
42:BH:88:LEU:HD23	42:BH:164:TYR:O	2.06	0.56
24:AY:438:PHE:C	24:AY:438:PHE:CD2	2.77	0.56
32:B7:24:THR:HG23	32:B7:27:GLY:HA3	1.87	0.56
1:AA:1133:G:N2	1:AA:1143:G:H1'	2.18	0.56
58:BZ:136:PHE:CD1	58:BZ:136:PHE:O	2.59	0.56
53:BU:26:GLY:O	53:BU:28:ARG:N	2.39	0.56
42:BH:86:GLU:HB3	42:BH:132:ARG:HB3	1.88	0.56
35:DA:1278:A:O2'	35:DA:1279:G:H5'	2.05	0.56
35:BA:2855:C:H2'	35:BA:2856:C:C6	2.41	0.56
38:BD:76:PRO:HG2	38:BD:98:VAL:CG2	2.36	0.56
44:DK:86:LYS:NZ	44:DK:86:LYS:HB3	2.21	0.56
46:DN:74:ARG:NH2	46:DN:83:LYS:HD3	2.20	0.56
1:CA:1009:G:H2'	1:CA:1009:G:N3	2.21	0.56
6:AF:52:ILE:O	6:AF:53:ALA:HB3	2.06	0.56
35:DA:246:C:H2'	35:DA:247:G:H5'	1.88	0.56
24:AY:622:GLY:O	24:AY:625:ASN:N	2.38	0.55
41:BG:29:TRP:C	41:BG:31:VAL:H	2.10	0.55
24:AY:165:GLN:HE21	24:AY:177:ILE:HG21	1.71	0.55
24:AY:20:HIS:O	24:AY:21:ILE:O	2.24	0.55
54:DV:49:THR:HB	54:DV:50:PRO:CD	2.36	0.55
24:AY:8:ASP:O	24:AY:9:LEU:HB3	2.06	0.55
53:BU:76:TYR:CD2	53:BU:76:TYR:C	2.79	0.55
58:BZ:67:LEU:HD12	58:BZ:67:LEU:H	1.71	0.55
58:BZ:67:LEU:N	58:BZ:67:LEU:HD12	2.21	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
31:D6:27:LYS:NZ	31:D6:30:THR:HB	2.22	0.55
57:BY:86:ARG:HB3	57:BY:88:LYS:NZ	2.21	0.55
35:BA:1971:A:C4	38:BD:241:PRO:HD3	2.41	0.55
30:D5:46:CYS:SG	30:D5:47:PRO:HD2	2.46	0.55
27:D2:64:LEU:O	27:D2:68:ARG:HB2	2.06	0.55
44:DK:77:LEU:HD12	44:DK:107:ILE:CG2	2.31	0.55
24:CY:389:LEU:N	24:CY:389:LEU:HD12	2.20	0.55
6:CF:37:VAL:CG1	6:CF:38:GLU:H	2.09	0.55
2:AB:97:TRP:CZ2	2:AB:102:LEU:HD13	2.35	0.55
35:DA:2713:A:C3'	35:DA:2714:G:C5'	2.84	0.55
13:AM:81:LEU:HD22	13:AM:81:LEU:N	2.22	0.55
15:AO:76:GLU:O	15:AO:78:TYR:N	2.39	0.55
26:D1:81:LYS:HZ2	35:DA:271(H):G:H4'	1.71	0.55
42:BH:83:TYR:O	42:BH:84:SER:HB3	2.05	0.55
52:BT:132:LYS:HG2	52:BT:133:GLU:H	1.71	0.55
19:CS:9:VAL:CG1	19:CS:9:VAL:O	2.54	0.55
35:BA:1654:A:H2	39:BE:113:PHE:CD1	2.24	0.55
36:BB:114:C:H2'	36:BB:115:G:C8	2.41	0.55
42:BH:20:ALA:HB1	42:BH:21:PRO:HD2	1.88	0.55
1:CA:192:U:O4'	20:CT:103:GLY:HA2	2.05	0.55
37:BC:97:GLY:O	37:BC:100:ILE:HG12	2.06	0.55
35:DA:892:G:H2'	35:DA:893:C:H6	1.71	0.55
4:AD:4:TYR:O	4:AD:5:ILE:CB	2.54	0.55
58:BZ:103:ARG:HB2	58:BZ:136:PHE:HB2	1.87	0.55
35:BA:2107:C:H42	35:BA:2182:G:H1	1.54	0.55
36:DB:20:C:H2'	36:DB:21:G:C5'	2.37	0.55
49:BQ:27:VAL:HG21	49:BQ:134:ARG:HG2	1.88	0.55
1:CA:1333:A:C2	1:CA:1334:G:H1'	2.41	0.55
35:DA:1036:G:C6	35:DA:1120:G:C6	2.94	0.55
44:BK:86:LYS:HB3	44:BK:86:LYS:NZ	2.21	0.55
35:BA:709:U:H2'	35:BA:710:G:C8	2.42	0.55
7:AG:64:GLN:CG	7:AG:128:ALA:HB1	2.36	0.55
35:BA:2769:C:O2'	35:BA:2770:G:H5'	2.06	0.55
1:AA:680:C:O2'	1:AA:681:C:H5'	2.06	0.55
11:AK:67:ASP:OD1	11:AK:71:LYS:HE3	2.06	0.55
1:AA:111:G:O6	1:AA:330:C:N4	2.39	0.55
14:CN:44:LEU:O	14:CN:44:LEU:HD12	2.06	0.55
35:DA:1796:U:OP1	38:DD:276:LYS:HE3	2.06	0.55
6:AF:62:TRP:O	6:AF:63:TYR:CG	2.60	0.55
35:BA:1247:A:OP1	40:BF:95:ARG:NH2	2.38	0.55
35:BA:1692:U:H2'	35:BA:1694:C:C5	2.41	0.55
35:BA:2050:C:O2'	35:BA:2051:A:H5'	2.07	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:250:THR:O	24:AY:252:ASP:N	2.39	0.55
53:BU:93:LYS:H	53:BU:93:LYS:HD2	1.72	0.55
48:BP:47:ASP:CB	48:BP:51:PHE:HB2	2.36	0.55
57:DY:13:VAL:HG22	57:DY:73:ARG:O	2.06	0.55
35:BA:363(B):G:H2'	35:BA:363(C):G:C8	2.38	0.55
35:DA:274:G:N3	35:DA:274:G:H2'	2.19	0.55
41:DG:141:PHE:HB2	41:DG:144:ILE:CG2	2.35	0.55
38:DD:65:ILE:N	38:DD:65:ILE:HD13	2.21	0.55
22:AV:21:A:N6	22:AV:46:G:H2'	2.05	0.55
5:AE:79:GLU:HB3	5:AE:92:LYS:HA	1.88	0.55
30:D5:7:PRO:HA	35:DA:2615:U:C2	2.41	0.55
31:B6:15:GLU:CD	31:B6:44:ARG:NH2	2.60	0.55
35:DA:1858:G:H2'	35:DA:1883:G:N2	2.21	0.55
44:DK:13:PRO:HA	44:DK:52:ILE:HG23	1.88	0.55
54:BV:19:LYS:NZ	54:BV:20:LEU:H	2.03	0.55
2:AB:189:ASP:O	2:AB:191:ASP:N	2.40	0.55
44:BK:13:PRO:HA	44:BK:52:ILE:HG23	1.88	0.55
1:CA:1391:U:H2'	1:CA:1392:G:C8	2.41	0.55
35:BA:2469:A:O3'	49:BQ:56:ARG:NH1	2.39	0.55
15:AO:74:ASP:OD2	15:AO:77:ARG:HG2	2.06	0.55
38:DD:241:PRO:O	38:DD:242:ARG:HB2	2.06	0.55
52:DT:132:LYS:HG2	52:DT:133:GLU:N	2.21	0.55
27:D2:50:ILE:CG2	27:D2:54:LYS:HE3	2.36	0.55
35:BA:8:A:H2'	35:BA:9:U:C5	2.41	0.55
35:DA:2389:G:H5''	35:DA:2390:U:C5'	2.34	0.55
1:CA:741:G:O2'	1:CA:742:G:H5'	2.06	0.55
1:AA:1298:C:H1'	1:AA:1299:A:C6	2.41	0.55
13:AM:6:GLY:C	13:AM:8:GLU:N	2.59	0.55
1:AA:1368:G:O2'	1:AA:1369:C:H5'	2.06	0.55
9:AI:73:GLN:O	9:AI:76:ALA:N	2.39	0.55
32:B7:28:ARG:HG3	32:B7:28:ARG:NH1	2.21	0.55
27:B2:25:VAL:C	27:B2:27:GLU:N	2.59	0.55
1:AA:1347:G:N2	1:AA:1373:G:H2'	2.21	0.55
7:AG:12:LEU:CD1	7:AG:25:ALA:HB2	2.37	0.55
22:AV:68:C:H2'	22:AV:69:C:C6	2.41	0.55
11:CK:48:ILE:HG22	11:CK:49:GLY:N	2.21	0.55
1:AA:1381:U:C5	1:AA:1382:C:C5	2.94	0.55
3:AC:130:VAL:HG21	3:AC:157:ILE:HG23	1.88	0.55
35:DA:2428:G:H4'	35:DA:2429:G:O5'	2.06	0.55
48:BP:122:PRO:O	48:BP:123:LEU:HB3	2.07	0.55
56:BX:18:TYR:C	56:BX:20:GLY:N	2.59	0.55
35:BA:67:U:H2'	35:BA:68:G:H8	1.70	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:CF:47:ARG:HG2	6:CF:47:ARG:HH11	1.71	0.55
52:DT:26:ASP:C	52:DT:26:ASP:OD2	2.44	0.55
42:BH:155:SER:O	42:BH:157:TYR:N	2.38	0.55
29:B4:8:LYS:O	29:B4:9:LEU:CB	2.54	0.55
24:AY:230:LYS:HZ2	24:AY:230:LYS:HB2	1.72	0.55
35:BA:993:G:OP1	53:BU:50:ARG:HD2	2.05	0.55
58:DZ:43:GLU:HG3	58:DZ:44:PHE:H	1.72	0.55
41:DG:86:MET:N	41:DG:87:PRO:CD	2.67	0.55
58:BZ:119:GLU:C	58:BZ:121:HIS:H	2.09	0.55
57:BY:84:ARG:NH1	57:BY:84:ARG:HG2	2.21	0.55
31:B6:43:CYS:HB2	31:B6:44:ARG:NH2	2.19	0.55
35:DA:945:A:O2'	35:DA:946:G:H4'	2.06	0.55
48:DP:33:ARG:O	48:DP:34:GLY:C	2.43	0.55
1:AA:1392:G:H21	1:AA:1502:A:H8	1.53	0.55
34:D9:19:ARG:HB2	35:DA:2756:U:H5'	1.87	0.55
39:DE:49:LEU:CD2	39:DE:49:LEU:N	2.68	0.55
51:DS:90:GLY:C	51:DS:92:TYR:H	2.09	0.55
1:AA:973:G:H1'	10:AJ:55:LYS:HZ1	1.66	0.55
30:B5:33:CYS:SG	30:B5:36:CYS:SG	3.04	0.55
40:BF:75:HIS:HE1	40:BF:82:ILE:HD11	1.71	0.55
1:AA:1226:C:H5'	13:AM:96:LEU:CD1	2.36	0.55
1:CA:1014:A:H4'	19:CS:14:HIS:ND1	2.20	0.55
35:DA:2247:A:O2'	35:DA:2248:C:H5'	2.06	0.55
1:AA:1364:U:C2'	1:AA:1364:U:O2	2.49	0.55
42:BH:41:MET:O	42:BH:42:ARG:CB	2.54	0.55
40:DF:113:ALA:HB1	40:DF:186:ILE:CG2	2.34	0.55
52:BT:33:LYS:HE2	52:BT:43:GLN:CD	2.26	0.55
9:CI:7:THR:O	9:CI:83:ARG:HD2	2.05	0.55
1:CA:895:G:H5''	1:CA:896:C:OP2	2.07	0.55
1:AA:630:G:H2'	1:AA:631:G:H5''	1.85	0.55
4:AD:61:LYS:CE	4:AD:62:GLN:HE21	2.19	0.55
1:AA:1369:C:H2'	1:AA:1370:G:H8	1.71	0.55
35:BA:1220:A:H3'	35:BA:1221:C:C5'	2.36	0.55
30:B5:58:LEU:HD13	30:B5:59:GLU:N	2.22	0.55
35:DA:2171:A:H1'	35:DA:2172:U:C5	2.40	0.55
1:AA:1090:U:C4'	1:AA:1170:A:H2	2.19	0.55
26:D1:60:PHE:CD1	26:D1:91:LYS:HE3	2.42	0.55
24:CY:658:ASP:O	24:CY:662:LYS:HG2	2.06	0.55
58:BZ:137:ILE:CG2	58:BZ:155:LEU:HD12	2.37	0.55
35:BA:2688:U:H1'	35:BA:2721:A:N6	2.21	0.55
35:DA:687:C:H2'	35:DA:688:U:O4'	2.07	0.55
51:DS:59:LYS:CD	51:DS:61:ASN:HB2	2.35	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:483:A:H4'	57:BY:49:VAL:HA	1.88	0.55
35:BA:1812:A:O2'	35:BA:1813:G:H5'	2.06	0.55
35:DA:2815:C:H2'	35:DA:2816:C:H6	1.69	0.55
58:DZ:139:VAL:HG12	58:DZ:141:VAL:HG23	1.88	0.55
1:AA:505:G:H2'	1:AA:506:G:C8	2.41	0.55
24:AY:176:GLY:HA3	24:AY:187:THR:HA	1.89	0.55
24:CY:218:GLU:HG2	45:DL:84:UNK:CB	2.36	0.55
13:AM:121:LYS:HD3	13:AM:121:LYS:N	2.20	0.55
32:D7:34:ARG:HH12	32:D7:39:ARG:HD2	1.71	0.55
35:BA:271(K):U:H3'	35:BA:271(L):U:H5''	1.88	0.55
1:AA:52:G:O2'	1:AA:53:A:H5'	2.06	0.55
35:BA:467:G:O2'	35:BA:468:G:H5'	2.05	0.55
7:AG:91:VAL:HG12	7:AG:92:SER:N	2.20	0.55
11:CK:12:ARG:O	11:CK:13:GLN:HG3	2.07	0.55
50:BR:103:ARG:HD2	55:BW:40:ASN:HD21	1.71	0.55
1:CA:689:C:P	11:CK:46:GLY:HA3	2.47	0.55
58:DZ:59:LEU:O	58:DZ:66:SER:HA	2.06	0.55
35:DA:41:C:H2'	35:DA:42:G:O4'	2.07	0.55
1:AA:977:A:H2'	1:AA:978:A:H5'	1.89	0.55
35:BA:1149:G:H2'	35:BA:1150:C:C6	2.41	0.55
28:D3:5:LYS:HE3	28:D3:34:GLU:OE1	2.06	0.55
24:AY:662:LYS:HZ2	42:BH:175:LYS:HD2	1.71	0.55
22:AV:17:C:C6	22:AV:17(A):U:C5	2.92	0.55
24:AY:252:ASP:OD2	24:AY:252:ASP:N	2.39	0.55
54:DV:39:LEU:HD22	54:DV:39:LEU:N	2.22	0.55
54:BV:49:THR:HB	54:BV:50:PRO:CD	2.37	0.55
35:BA:252:G:O2'	35:BA:253:C:H5'	2.06	0.55
57:BY:13:VAL:O	57:BY:24:VAL:HA	2.07	0.55
57:BY:39:VAL:HG12	57:BY:40:GLU:HG2	1.88	0.55
40:DF:157:VAL:HG22	40:DF:194:MET:HA	1.88	0.55
1:AA:1318:A:H2'	1:AA:1319:A:H5'	1.88	0.55
38:DD:259:THR:O	38:DD:260:ARG:C	2.43	0.55
3:AC:35:GLU:OE2	3:AC:59:ARG:NH1	2.39	0.55
44:DK:112:MET:N	44:DK:113:PRO:HD2	2.20	0.55
19:AS:43:GLU:HB2	19:AS:44:MET:SD	2.46	0.55
39:BE:34:VAL:HG11	39:BE:78:LEU:CD2	2.37	0.55
35:BA:1141:U:H5''	46:BN:63:THR:HG23	1.88	0.55
35:BA:2713:A:C3'	35:BA:2714:G:C5'	2.84	0.55
58:DZ:17:ALA:CA	58:DZ:20:ARG:HG2	2.36	0.55
52:BT:25:GLY:HA2	52:BT:92:GLY:HA2	1.87	0.55
52:DT:85:LYS:HZ2	52:DT:85:LYS:HB3	1.68	0.55
35:BA:2562:U:H1'	47:BO:23:ARG:NH1	2.16	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:CE:91:LEU:HD13	5:CE:120:THR:HG22	1.87	0.55
24:AY:417:THR:O	24:AY:419:ALA:N	2.40	0.55
52:DT:132:LYS:HG2	52:DT:133:GLU:H	1.71	0.55
24:AY:553:GLY:HA2	24:AY:560:VAL:HG23	1.89	0.55
58:BZ:115:GLY:HA2	58:BZ:177:PRO:HG3	1.88	0.55
1:CA:1431:C:H2'	1:CA:1432:G:O4'	2.06	0.55
38:DD:26:LYS:HE2	38:DD:26:LYS:HA	1.87	0.55
40:BF:174:VAL:HG21	40:BF:189:THR:HG21	1.88	0.55
35:BA:2170:A:H5''	37:BC:135:ARG:HH21	1.70	0.55
35:BA:2657:A:H2'	35:BA:2658:C:C5'	2.37	0.55
35:DA:936:C:H2'	35:DA:937:U:H6	1.70	0.55
34:B9:31:LYS:HD3	35:BA:2478:A:OP1	2.06	0.55
1:AA:277:C:O2'	1:AA:278:G:H5'	2.06	0.55
1:AA:275:G:H5''	17:AQ:14:LYS:CB	2.34	0.55
30:B5:27:PRO:CG	55:BW:23:LEU:HD11	2.35	0.55
10:CJ:18:ALA:O	10:CJ:20:ALA:N	2.36	0.55
4:CD:159:ARG:HH11	4:CD:159:ARG:HG3	1.71	0.55
24:AY:624:LEU:HD11	24:AY:655:TYR:OH	2.06	0.55
35:BA:962:G:H2'	35:BA:963:U:O4'	2.07	0.55
36:BB:20:C:H2'	36:BB:21:G:C5'	2.36	0.55
36:DB:22:U:H2'	36:DB:23:G:C8	2.42	0.55
3:AC:136:GLN:C	3:AC:138:VAL:N	2.58	0.55
35:BA:1115:G:H2'	35:BA:1116:C:C6	2.41	0.55
5:CE:36:ASP:O	5:CE:37:ARG:CB	2.55	0.55
58:BZ:14:LYS:O	58:BZ:18:LEU:HD13	2.06	0.55
35:BA:55:G:H2'	35:BA:56:A:C8	2.41	0.55
35:DA:1491:G:N2	35:DA:1492:G:H1'	2.21	0.55
22:AW:16:C:H3'	22:AW:17:C:O2	2.06	0.55
1:CA:505:G:H2'	1:CA:506:G:C8	2.41	0.55
19:CS:46:GLY:O	19:CS:48:THR:N	2.39	0.55
10:AJ:29:ARG:HG2	10:AJ:29:ARG:HH11	1.72	0.55
35:DA:1151:G:H5''	53:DU:81:HIS:CE1	2.41	0.55
50:DR:103:ARG:HD2	55:DW:40:ASN:HD21	1.71	0.55
7:AG:121:ALA:O	7:AG:125:MET:HG3	2.07	0.55
35:BA:1751:C:O2'	35:BA:1752:C:H5'	2.07	0.55
35:DA:510:C:OP1	35:DA:510:C:H3'	2.05	0.55
35:DA:67:U:H2'	35:DA:68:G:H8	1.71	0.55
41:BG:38:VAL:HG22	41:BG:93:THR:HG23	1.89	0.55
35:DA:1084:A:OP1	43:DJ:55:UNK:HA	2.07	0.55
4:AD:9:CYS:HB3	4:AD:32:ALA:HB2	1.89	0.55
40:BF:114:VAL:HG21	40:BF:202:PHE:CE1	2.40	0.55
40:BF:185:ASP:HA	40:BF:188:ARG:CD	2.36	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:DE:133:LYS:C	39:DE:134:ILE:HG13	2.27	0.55
9:AI:3:GLN:NE2	9:AI:20:ARG:NH2	2.55	0.55
34:B9:4:ARG:HH12	35:BA:2477:C:N4	2.04	0.55
48:BP:66:GLY:O	48:BP:67:MET:HB3	2.06	0.55
57:DY:13:VAL:O	57:DY:24:VAL:HA	2.06	0.55
57:DY:3:VAL:O	57:DY:3:VAL:HG12	2.06	0.55
58:DZ:10:ARG:CD	58:DZ:36:LYS:HE2	2.24	0.55
40:DF:206:ILE:HG22	40:DF:207:GLY:N	2.22	0.55
48:DP:47:ASP:HB2	48:DP:51:PHE:HB2	1.89	0.55
57:BY:90:LEU:HD12	57:BY:91:GLU:OE2	2.05	0.55
50:DR:83:ILE:O	50:DR:87:TYR:HE2	1.89	0.55
37:DC:128:LEU:CD2	37:DC:132:LEU:HD12	2.37	0.55
31:B6:15:GLU:OE2	31:B6:44:ARG:CZ	2.55	0.55
12:AL:70:ILE:HG21	12:AL:77:LEU:CD1	2.37	0.55
39:BE:38:THR:CB	39:BE:41:LYS:HG2	2.34	0.55
3:AC:154:SER:OG	3:AC:155:GLY:N	2.40	0.55
35:DA:941:A:H4'	48:DP:35:HIS:HE1	1.71	0.55
2:CB:97:TRP:CH2	2:CB:173:ALA:HA	2.41	0.55
35:BA:1258:C:O4'	40:BF:84:VAL:HG21	2.06	0.55
48:DP:112:LEU:H	48:DP:128:HIS:CD2	2.24	0.55
2:CB:235:SER:O	2:CB:237:ALA:N	2.29	0.55
2:AB:97:TRP:CH2	2:AB:173:ALA:HA	2.41	0.55
47:BO:47:ILE:O	47:BO:48:PRO:O	2.24	0.55
35:DA:2291:U:H2'	35:DA:2292:C:H6	1.68	0.55
20:CT:26:ASN:O	20:CT:30:LYS:HB2	2.07	0.55
35:BA:674:G:C1'	40:BF:74:ARG:HD3	2.37	0.55
13:CM:116:THR:HG22	13:CM:117:VAL:N	2.20	0.55
17:AQ:44:ALA:HA	17:AQ:71:PHE:O	2.07	0.55
1:CA:728:A:H2'	1:CA:729:A:C8	2.42	0.55
40:DF:69:HIS:CD2	40:DF:69:HIS:N	2.73	0.55
35:DA:1678:G:H22	35:DA:1989:G:H22	1.50	0.55
38:DD:146:GLU:HB2	38:DD:189:CYS:HB3	1.88	0.55
35:DA:675:A:OP1	40:DF:63:LYS:HE2	2.06	0.55
3:CC:167:TRP:O	3:CC:168:ALA:HB3	2.06	0.55
1:AA:942:G:H21	9:AI:124:GLN:HE22	1.52	0.55
1:AA:663:A:O2'	1:AA:664:G:H5'	2.07	0.55
12:CL:25:PRO:C	12:CL:27:LEU:N	2.57	0.55
39:DE:93:VAL:HG12	39:DE:175:VAL:HG21	1.89	0.55
29:B4:48:ARG:O	29:B4:49:PHE:CD1	2.59	0.55
1:AA:1116:C:H2'	1:AA:1117:G:C5'	2.35	0.55
57:BY:3:VAL:HG12	57:BY:3:VAL:O	2.07	0.55
36:BB:104:U:O3'	58:BZ:72:ARG:NH1	2.39	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:82:G:C5'	35:BA:296:C:H5'	2.35	0.55
35:BA:1992:G:N2	35:BA:1996:C:O2	2.32	0.55
38:BD:176:ARG:CG	38:BD:176:ARG:HH11	2.19	0.55
25:D0:25:ARG:HD2	25:D0:29:GLN:HE21	1.71	0.55
12:AL:47:LYS:HB3	12:AL:47:LYS:HZ2	1.70	0.55
27:B2:20:GLU:HG3	27:B2:21:LEU:N	2.22	0.55
35:DA:120:U:O2'	35:DA:149:A:C8	2.56	0.55
35:BA:271(E):U:H2'	35:BA:271(F):C:C6	2.42	0.55
6:CF:60:PHE:C	6:CF:61:LEU:HD12	2.27	0.55
10:CJ:29:ARG:HH11	10:CJ:29:ARG:HG2	1.72	0.55
43:BJ:13:UNK:C	43:BJ:15:UNK:N	2.66	0.55
24:CY:182:ARG:O	24:CY:184:LYS:N	2.40	0.55
5:CE:107:ARG:HG2	5:CE:108:ALA:N	2.19	0.55
1:AA:759:A:H2'	1:AA:760:G:H5'	1.87	0.55
35:DA:250:G:H2'	35:DA:251:A:C8	2.42	0.55
3:CC:164:ARG:NH2	3:CC:166:GLU:OE1	2.39	0.55
1:CA:651:C:H2'	1:CA:652:U:C6	2.41	0.55
19:CS:53:ASN:C	19:CS:55:LYS:H	2.10	0.55
10:CJ:56:HIS:O	10:CJ:58:ASP:N	2.40	0.55
49:DQ:116:GLU:O	49:DQ:120:ILE:HG12	2.06	0.55
1:CA:1113:C:H2'	1:CA:1114:C:H6	1.71	0.55
42:DH:173:PRO:O	42:DH:175:LYS:N	2.40	0.55
4:CD:12:CYS:SG	4:CD:19:LEU:O	2.64	0.55
24:CY:649:LEU:CD2	24:CY:671:MET:HE3	2.37	0.55
4:AD:26:CYS:O	4:AD:31:CYS:HB2	2.07	0.55
40:BF:157:VAL:HG22	40:BF:194:MET:HA	1.89	0.55
53:BU:66:ASN:ND2	53:BU:76:TYR:H	2.05	0.55
31:B6:27:LYS:NZ	31:B6:30:THR:HB	2.21	0.55
48:BP:48:PRO:O	48:BP:50:ARG:N	2.39	0.55
19:CS:5:LEU:HG	19:CS:10:PHE:CD1	2.41	0.55
35:DA:82:G:H5''	35:DA:296:C:C5'	2.33	0.55
57:DY:13:VAL:HG22	57:DY:14:LEU:H	1.71	0.55
31:D6:9:LEU:HD12	31:D6:28:ARG:CG	2.36	0.55
30:D5:3:LYS:HG2	35:DA:747:U:O4	2.06	0.55
40:DF:7:TYR:HD2	40:DF:16:GLY:CA	2.14	0.55
24:CY:77:HIS:CD2	24:CY:277:VAL:HG21	2.41	0.55
3:CC:62:ASP:O	3:CC:64:VAL:HG23	2.06	0.55
47:BO:115:VAL:CG1	47:BO:121:VAL:HG21	2.37	0.55
47:BO:60:ALA:HA	47:BO:87:ILE:HD13	1.89	0.55
35:BA:28:A:H62	35:BA:512:G:H1'	1.72	0.55
36:DB:7:G:C3'	36:DB:8:U:H5''	2.36	0.55
35:BA:624:C:H41	48:BP:107:LYS:HZ3	1.55	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
30:D5:50:GLY:HA2	30:D5:56:LYS:HB3	1.88	0.55
41:DG:37:VAL:O	41:DG:94:LEU:HB2	2.07	0.55
39:DE:34:VAL:HG12	39:DE:48:GLN:O	2.06	0.55
11:AK:122:LYS:O	11:AK:123:LYS:C	2.44	0.55
49:BQ:59:ARG:CA	58:BZ:180:VAL:HG23	2.35	0.55
52:DT:55:ASN:HD22	52:DT:58:ASN:ND2	2.04	0.55
24:AY:150:ILE:C	24:AY:152:THR:H	2.10	0.55
9:AI:82:ALA:HA	9:AI:85:LEU:HD11	1.89	0.55
35:DA:1539:G:H2'	35:DA:1540:U:O4'	2.07	0.55
1:AA:1342:C:H1'	9:AI:124:GLN:HG3	1.88	0.55
51:BS:49:VAL:HG21	51:BS:77:ALA:HB2	1.88	0.55
35:DA:1477:A:H5'	35:DA:1478:G:OP2	2.07	0.55
35:DA:883:G:O2'	35:DA:884:C:H5'	2.07	0.55
35:DA:958:U:H5'	49:DQ:14:ARG:NH1	2.21	0.55
33:B8:23:VAL:CG1	33:B8:46:ARG:HH11	2.19	0.55
24:AY:528:ALA:HB3	24:AY:567:LEU:O	2.07	0.55
33:D8:23:VAL:CG1	33:D8:46:ARG:HH11	2.19	0.55
3:CC:126:ARG:HB2	3:CC:128:PHE:CE2	2.41	0.55
47:DO:63:VAL:O	47:DO:64:ARG:HG2	2.07	0.55
42:BH:124:GLU:CG	42:BH:132:ARG:HG3	2.36	0.55
24:AY:390:VAL:HG23	24:AY:391:GLY:O	2.07	0.55
1:CA:261:U:H2'	1:CA:263:A:OP2	2.06	0.55
16:CP:74:LEU:O	16:CP:79:VAL:HG23	2.07	0.55
1:CA:1294:G:C2'	1:CA:1295:G:H5'	2.36	0.55
49:BQ:97:VAL:HG11	49:BQ:103:MET:HE3	1.87	0.55
35:DA:1669:A:H2'	35:DA:1670:C:H5'	1.88	0.55
35:BA:271(F):C:O2'	35:BA:271(G):C:H5'	2.06	0.55
1:AA:1015:A:H2'	1:AA:1016:A:O4'	2.07	0.55
41:BG:49:ASP:O	41:BG:50:ALA:HB3	2.06	0.55
41:DG:18:GLU:OE2	41:DG:18:GLU:HA	2.06	0.55
54:BV:54:GLY:O	54:BV:55:ALA:HB2	2.07	0.55
35:BA:705:A:N1	35:BA:727:A:H1'	2.22	0.55
54:DV:66:ARG:CZ	54:DV:88:ARG:HH21	2.19	0.55
13:AM:33:ALA:HA	13:AM:59:TYR:HE2	1.70	0.55
26:B1:18:ILE:CD1	26:B1:37:ILE:HG12	2.36	0.55
35:DA:1910:G:O2'	35:DA:1911:U:H5'	2.05	0.55
12:AL:111:LYS:O	12:AL:112:ASP:HB2	2.06	0.55
35:BA:790:C:H5'	35:BA:791:C:OP2	2.07	0.55
1:CA:93:G:O2'	1:CA:96:U:H5'	2.05	0.55
41:BG:109:VAL:HG11	41:BG:142:PRO:HD3	1.88	0.55
37:BC:92:ALA:HB2	37:BC:154:ILE:HD13	1.87	0.55
1:CA:693:G:C6	23:CX:13:A:H1'	2.42	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
53:BU:59:ARG:O	53:BU:62:ILE:N	2.40	0.55
33:B8:47:LYS:HZ3	33:B8:49:VAL:HG13	1.72	0.55
48:BP:67:MET:O	48:BP:68:GLN:HG3	2.07	0.55
57:BY:13:VAL:HG22	57:BY:14:LEU:H	1.71	0.55
56:DX:10:ALA:HB1	56:DX:11:PRO:HD2	1.89	0.55
41:DG:111:LEU:HB3	41:DG:117:PHE:CE2	2.41	0.55
38:BD:241:PRO:O	38:BD:242:ARG:CB	2.54	0.55
5:AE:79:GLU:HB3	5:AE:93:PRO:HD2	1.89	0.55
30:B5:3:LYS:NZ	35:BA:2613:U:C2'	2.70	0.55
35:BA:1156:A:C2'	35:BA:1157:G:OP1	2.55	0.55
48:BP:102:ARG:CB	48:BP:102:ARG:NH2	2.69	0.55
51:BS:36:TYR:O	51:BS:37:ALA:HB2	2.07	0.55
39:BE:77:ILE:HG22	39:BE:78:LEU:HD12	1.89	0.55
27:B2:38:GLN:C	27:B2:40:SER:H	2.10	0.55
54:DV:61:VAL:HG22	54:DV:63:GLY:H	1.72	0.55
52:DT:29:ARG:HG2	52:DT:85:LYS:CA	2.37	0.55
58:BZ:179:ASP:O	58:BZ:180:VAL:C	2.44	0.55
36:DB:103:G:H5''	36:DB:104:U:OP2	2.05	0.55
26:D1:86:SER:HA	26:D1:89:GLU:CD	2.27	0.55
42:DH:68:THR:O	42:DH:72:ILE:HG12	2.06	0.55
2:AB:12:GLU:HA	2:AB:16:HIS:CG	2.42	0.55
9:AI:7:THR:O	9:AI:83:ARG:HD2	2.07	0.55
37:DC:190:ILE:O	37:DC:194:ILE:HG12	2.07	0.55
1:AA:1308:U:H5''	13:AM:98:VAL:CG2	2.35	0.55
36:DB:114:C:H2'	36:DB:115:G:C8	2.42	0.55
24:CY:15:ILE:C	24:CY:15:ILE:HD12	2.27	0.55
24:AY:406:GLU:HB3	24:AY:407:PRO:CD	2.35	0.55
24:AY:687:LEU:O	24:AY:689:LYS:N	2.40	0.55
35:BA:2543:G:N3	35:BA:2765:A:H2'	2.22	0.55
35:DA:2543:G:N3	35:DA:2765:A:H2'	2.22	0.55
1:CA:1152:A:H5''	10:CJ:13:HIS:HD2	1.72	0.55
1:CA:474:G:H2'	1:CA:475:G:C8	2.40	0.55
35:DA:389:G:N1	48:DP:71:VAL:HG12	2.21	0.55
3:AC:126:ARG:HB2	3:AC:128:PHE:CE2	2.42	0.55
26:B1:68:PRO:O	26:B1:70:VAL:N	2.39	0.55
35:BA:2247:A:O2'	35:BA:2248:C:H5'	2.06	0.55
54:BV:32:THR:OG1	54:BV:60:GLU:HG3	2.07	0.55
35:DA:271(F):C:O2'	35:DA:271(G):C:H5'	2.05	0.55
7:AG:64:GLN:HG3	7:AG:128:ALA:HB1	1.88	0.55
33:D8:8:LYS:HE3	35:DA:245:G:O6	2.07	0.55
35:DA:1907:G:O2'	35:DA:1908:C:H5'	2.06	0.55
16:CP:75:ARG:O	16:CP:78:GLY:N	2.39	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1573:G:H2'	35:BA:1574:C:H5'	1.89	0.55
1:AA:936:C:O2'	1:AA:937:A:H5'	2.07	0.55
35:DA:271(B):C:O2'	35:DA:271(C):C:H5'	2.07	0.55
11:CK:105:VAL:O	11:CK:105:VAL:HG23	2.06	0.55
12:CL:76:ASN:O	12:CL:76:ASN:CG	2.44	0.55
2:AB:193:ASP:OD2	2:AB:193:ASP:O	2.25	0.55
1:CA:961:U:O2	1:CA:983:A:H2'	2.06	0.55
42:DH:157:TYR:CE1	42:DH:171:LEU:HD21	2.24	0.55
40:DF:25:PRO:HG3	40:DF:119:ARG:CB	2.36	0.55
41:BG:144:ILE:HD11	41:BG:149:VAL:HB	1.89	0.55
10:AJ:78:ASN:O	10:AJ:82:ILE:HG12	2.06	0.55
37:BC:149:ASN:HD21	37:BC:153:ILE:HD11	1.72	0.55
1:CA:509:A:C2	1:CA:510:A:C2	2.95	0.55
35:BA:768:G:H2'	35:BA:769:G:H8	1.72	0.55
35:DA:2733:A:O2'	35:DA:2734:A:H5'	2.07	0.55
35:BA:1047:G:N2	35:BA:1110:G:H1'	2.21	0.55
1:CA:1318:A:O3'	19:CS:10:PHE:CD2	2.60	0.55
57:DY:86:ARG:HB3	57:DY:88:LYS:NZ	2.21	0.55
58:BZ:56:VAL:HG12	58:BZ:57:ILE:N	2.22	0.55
35:BA:1506:C:O2	35:BA:1506:C:H2'	2.06	0.55
29:D4:9:LEU:HD13	29:D4:26:SER:O	2.07	0.55
8:AH:103:VAL:HG12	8:AH:108:GLY:HA3	1.89	0.55
40:DF:10:PRO:HG2	40:DF:13:SER:OG	2.06	0.55
40:DF:8:GLN:NE2	40:DF:9:ILE:HB	2.21	0.55
41:BG:165:THR:O	41:BG:167:GLU:N	2.40	0.55
35:BA:811:U:O2'	35:BA:812:C:H5''	2.05	0.55
35:BA:1858:G:H2'	35:BA:1883:G:H22	1.71	0.55
48:DP:107:LYS:HG3	48:DP:107:LYS:O	2.07	0.55
46:DN:46:VAL:CG1	46:DN:47:ALA:H	2.13	0.55
41:DG:37:VAL:HG22	41:DG:159:VAL:HA	1.88	0.55
51:DS:106:ARG:HD2	51:DS:106:ARG:C	2.26	0.55
35:DA:1141:U:H5''	46:DN:63:THR:CG2	2.36	0.55
39:DE:111:ARG:CZ	50:DR:2:ARG:HH21	2.20	0.55
2:CB:223:ILE:HG12	2:CB:226:ARG:NH1	2.22	0.55
2:AB:31:TYR:O	2:AB:42:ILE:HG13	2.07	0.55
19:CS:65:ASN:HA	29:D4:48:ARG:NH2	2.21	0.55
24:CY:491:VAL:HG21	24:CY:597:GLY:HA2	1.87	0.55
35:BA:1336:A:P	56:BX:64:LYS:HE3	2.46	0.55
1:AA:300:A:H2'	1:AA:301:G:O4'	2.07	0.55
29:B4:53:GLU:OE1	29:B4:55:ARG:HD3	2.06	0.55
40:DF:161:GLU:O	40:DF:165:ARG:HG3	2.06	0.55
35:BA:2512:C:H2'	35:BA:2513:G:O4'	2.07	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:179:A:H2'	1:CA:180:U:H6	1.68	0.55
35:BA:1515:G:H2'	35:BA:1516:C:C6	2.42	0.55
56:DX:8:ILE:H	56:DX:8:ILE:CD1	2.17	0.55
22:CV:1:C:H2'	22:CV:2:G:C8	2.42	0.55
35:DA:752:A:O2'	35:DA:753:C:OP2	2.21	0.55
20:CT:49:ALA:CB	20:CT:99:LEU:HG	2.36	0.55
1:CA:1166:G:H5'	1:CA:1168:A:OP2	2.07	0.55
36:DB:68:C:H2'	36:DB:69:G:O4'	2.07	0.55
35:BA:2132:U:C5	37:BC:6:LYS:HD2	2.41	0.55
1:AA:1141:C:H2'	1:AA:1142:G:C8	2.42	0.55
50:BR:7:GLY:O	50:BR:8:ARG:CB	2.54	0.55
10:AJ:92:THR:HG23	10:AJ:93:GLY:N	2.22	0.55
24:CY:427:ALA:HB1	24:CY:466:LEU:HD11	1.88	0.55
1:CA:658:G:H2'	1:CA:659:U:C6	2.42	0.55
1:AA:1248:A:H2'	1:AA:1249:C:H5'	1.89	0.55
1:CA:54:C:H2'	1:CA:352:C:N4	2.21	0.55
37:DC:213:VAL:CG1	37:DC:225:ILE:HD11	2.37	0.55
35:BA:221:A:H4'	35:BA:222:A:O5'	2.07	0.55
35:DA:1668:A:N6	35:DA:1676:A:H61	2.05	0.55
35:DA:2552:U:O2	35:DA:2554:U:H5'	2.07	0.55
35:BA:1274:A:N3	35:BA:1297:C:H1'	2.21	0.55
24:CY:111:SER:O	24:CY:113:GLY:N	2.39	0.55
35:DA:2532:G:H2'	35:DA:2533:A:O4'	2.07	0.55
35:BA:1316:U:O2'	35:BA:1317:A:H5'	2.06	0.55
18:CR:85:LEU:HD12	18:CR:86:VAL:H	1.72	0.55
35:BA:271(B):C:O2'	35:BA:271(C):C:H5'	2.07	0.55
35:BA:1759:A:H5'	35:BA:2715:C:H1'	1.89	0.55
35:DA:1809:A:H2'	35:DA:1810:A:C8	2.41	0.55
22:AW:41:C:O2'	22:AW:42:C:H5'	2.07	0.55
40:DF:140:LEU:O	40:DF:143:ALA:HB3	2.06	0.55
1:CA:796:C:O2	1:CA:796:C:H2'	2.07	0.55
35:BA:845:G:H8	35:BA:845:G:OP2	1.89	0.55
35:BA:2051:A:H4'	39:BE:141:ILE:CD1	2.37	0.55
4:CD:26:CYS:O	4:CD:31:CYS:HB2	2.07	0.55
35:BA:612:C:H2'	35:BA:613:G:C5'	2.15	0.55
40:BF:206:ILE:HG22	40:BF:207:GLY:N	2.21	0.55
39:DE:119:ARG:HG2	39:DE:160:TYR:HB2	1.88	0.55
24:AY:156:ARG:HB2	24:AY:157:LEU:HD23	1.88	0.55
24:AY:18:ALA:HA	24:AY:85:PRO:HG2	1.88	0.55
35:BA:1044:G:O2'	35:BA:1045:A:H5''	2.07	0.55
38:DD:35:LYS:HG2	38:DD:63:ARG:HG3	1.89	0.55
56:DX:12:VAL:O	56:DX:13:LEU:HB2	2.07	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:82:G:C5'	35:DA:296:C:H5'	2.34	0.55
47:BO:9:GLU:HA	47:BO:9:GLU:OE1	2.06	0.55
31:B6:16:CYS:SG	31:B6:48:VAL:CG2	2.95	0.55
24:AY:35:TYR:HE1	24:AY:269:VAL:HB	1.70	0.55
35:BA:1301:A:H2'	35:BA:1302:A:H3'	1.88	0.55
3:AC:62:ASP:O	3:AC:64:VAL:HG23	2.07	0.55
35:BA:27:G:HO2'	35:BA:28:A:H8	1.52	0.55
51:DS:36:TYR:N	51:DS:36:TYR:CD1	2.75	0.55
26:B1:80:LEU:HB3	26:B1:82:LEU:HD11	1.88	0.55
1:AA:1391:U:H2'	1:AA:1392:G:C8	2.41	0.55
34:B9:19:ARG:HB2	35:BA:2756:U:H5'	1.89	0.55
19:AS:33:THR:HG22	19:AS:49:ILE:HG22	1.87	0.55
39:DE:70:ALA:O	39:DE:71:GLY:C	2.46	0.55
5:CE:12:LEU:HD13	5:CE:12:LEU:C	2.26	0.55
19:CS:44:MET:HB3	19:CS:47:HIS:HD2	1.72	0.55
49:BQ:53:ALA:HA	49:BQ:56:ARG:HB2	1.89	0.55
13:CM:70:LEU:C	13:CM:70:LEU:HD23	2.27	0.55
42:DH:68:THR:O	42:DH:70:THR:N	2.40	0.55
52:DT:99:LEU:HB2	52:DT:101:PHE:CE1	2.42	0.55
58:BZ:80:ARG:O	58:BZ:81:ARG:O	2.25	0.55
56:BX:61:GLY:HA3	56:BX:73:ARG:O	2.07	0.55
42:DH:41:MET:O	42:DH:42:ARG:CB	2.54	0.55
1:CA:1116:C:H2'	1:CA:1117:G:C5'	2.36	0.55
1:CA:1030(C):G:H2'	1:CA:1030(D):A:H8	1.71	0.55
26:D1:61:ARG:NH1	26:D1:61:ARG:HB3	2.22	0.55
1:CA:1351:U:O4'	7:CG:33:ASP:HB3	2.07	0.55
1:CA:1141:C:H2'	1:CA:1142:G:C8	2.42	0.55
12:CL:39:VAL:HB	12:CL:57:LYS:HB2	1.89	0.55
1:AA:628:G:O2'	1:AA:629:G:H5'	2.07	0.55
42:DH:124:GLU:CG	42:DH:132:ARG:HG3	2.37	0.55
38:BD:166:GLN:HA	38:BD:166:GLN:NE2	2.21	0.55
1:CA:1248:A:H2'	1:CA:1249:C:H5'	1.88	0.55
1:CA:188:C:H2'	1:CA:189:G:C8	2.42	0.55
13:CM:10:PRO:CG	13:CM:18:ALA:HB1	2.37	0.55
35:BA:1212:G:O2'	35:BA:1236:G:N2	2.39	0.55
2:AB:33:TYR:HB2	2:AB:43:ASP:HB2	1.88	0.55
35:BA:1437:C:H2'	35:BA:1438:U:C6	2.42	0.55
55:DW:1:MET:CE	55:DW:2:GLU:H	2.20	0.55
1:AA:38:G:C2	1:AA:397:A:C2	2.94	0.55
19:AS:72:GLY:O	19:AS:74:PHE:N	2.40	0.55
52:BT:60:THR:HG22	52:BT:77:PRO:HA	1.89	0.55
46:BN:30:ILE:HG22	46:BN:34:LEU:CD2	2.37	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:105:ILE:N	24:AY:105:ILE:HD12	2.21	0.55
35:BA:2792:G:N3	35:BA:2792:G:H2'	2.22	0.55
35:DA:1047:G:N2	35:DA:1110:G:H1'	2.21	0.55
24:CY:142:THR:C	24:CY:144:ALA:H	2.10	0.55
24:AY:22:ASP:O	62:AY:703:GDP:H5'	2.07	0.55
24:AY:86:GLY:O	24:AY:88:VAL:N	2.37	0.55
46:DN:3:THR:C	46:DN:4:TYR:CG	2.80	0.55
53:BU:106:PHE:O	53:BU:109:LEU:N	2.40	0.55
48:BP:30:THR:O	48:BP:33:ARG:N	2.27	0.55
31:D6:7:ILE:O	31:D6:27:LYS:HD3	2.07	0.55
31:D6:27:LYS:HZ2	31:D6:30:THR:HB	1.70	0.55
41:DG:60:LEU:HD22	41:DG:63:ILE:CD1	2.36	0.55
10:CJ:3:LYS:NZ	10:CJ:76:ASN:HA	2.20	0.55
1:AA:945:G:C2	1:AA:946:A:C8	2.94	0.55
52:DT:27:THR:OG1	52:DT:28:VAL:N	2.39	0.55
46:DN:15:LEU:HD13	46:DN:16:ILE:N	2.22	0.55
3:AC:52:LEU:HD23	3:AC:52:LEU:N	2.10	0.55
46:BN:15:LEU:HD13	46:BN:16:ILE:N	2.21	0.55
48:DP:127:ALA:HB3	48:DP:130:PHE:CZ	2.42	0.55
48:DP:127:ALA:O	48:DP:148:LEU:HD11	2.06	0.55
48:BP:146:VAL:HG22	48:BP:147:LEU:N	2.12	0.55
2:CB:54:THR:HG22	2:CB:58:ILE:HD11	1.89	0.55
35:DA:2746:U:O2'	35:DA:2747:G:H5'	2.06	0.55
50:DR:45:ARG:CG	50:DR:46:GLY:H	2.15	0.55
35:BA:1600:C:O2'	35:BA:1601:G:H5'	2.07	0.55
2:AB:223:ILE:HG12	2:AB:226:ARG:NH1	2.22	0.55
6:AF:71:ARG:NH1	6:AF:71:ARG:HG3	2.20	0.55
52:BT:10:VAL:C	52:BT:12:SER:N	2.57	0.55
1:CA:1431:C:C2'	1:CA:1432:G:H5'	2.37	0.55
35:BA:1332:G:N2	35:BA:1609:A:H3'	2.22	0.55
40:BF:161:GLU:O	40:BF:165:ARG:HG3	2.06	0.55
1:AA:1300:G:O2'	1:AA:1301:U:P	2.64	0.55
24:AY:326:THR:O	24:AY:328:ILE:HG23	2.07	0.55
35:DA:654(L):G:H2'	35:DA:654(M):C:H4'	1.88	0.55
18:AR:74:ARG:HD3	18:AR:81:PHE:HD2	1.71	0.55
13:CM:6:GLY:O	13:CM:8:GLU:N	2.40	0.55
35:BA:15:G:O2'	35:BA:16:G:H5'	2.06	0.55
42:DH:127:GLU:HB3	42:DH:128:PRO:HD2	1.89	0.55
1:AA:1329:A:O2'	1:AA:1330:U:H5'	2.07	0.55
48:DP:108:LYS:HD2	48:DP:108:LYS:N	2.22	0.55
1:CA:1346:A:N6	1:CA:1374:A:H3'	2.21	0.55
4:AD:126:ILE:CG2	4:AD:127:THR:N	2.70	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2818:G:O2'	35:DA:2837:G:H5'	2.07	0.55
16:AP:50:LYS:HG2	16:AP:51:VAL:H	1.71	0.55
41:DG:10:LYS:HE3	41:DG:14:GLU:OE2	2.06	0.55
24:CY:309:LEU:O	24:CY:390:VAL:HG12	2.07	0.55
35:BA:1102:C:H2'	35:BA:1103:A:H8	1.72	0.55
57:BY:67:LEU:HD11	57:BY:71:LYS:HE2	1.87	0.55
6:CF:91:VAL:HG12	6:CF:92:LYS:N	2.21	0.55
35:BA:1092:C:H2'	35:BA:1093:G:H8	1.72	0.55
6:AF:4:TYR:HE1	6:AF:92:LYS:HD2	1.71	0.55
1:AA:820:U:H4'	1:AA:821:G:OP2	2.07	0.55
35:DA:438:G:O2'	35:DA:440:G:H5'	2.07	0.55
35:DA:58:G:H1	35:DA:69:C:H42	1.53	0.55
1:CA:241:C:O2'	1:CA:242:C:H5'	2.07	0.55
47:DO:52:VAL:O	47:DO:53:LYS:HG3	2.07	0.55
35:DA:2679:A:H4'	39:DE:165:VAL:HG11	1.89	0.55
3:AC:101:LEU:C	3:AC:101:LEU:HD23	2.28	0.55
24:AY:550:MET:CE	24:AY:563:ILE:HD11	2.37	0.55
24:CY:96:ARG:HG3	24:CY:403:GLU:OE2	2.07	0.55
35:BA:2336:A:N3	35:BA:2385:C:H1'	2.22	0.55
1:CA:395:C:O3'	24:CY:349:LYS:NZ	2.39	0.55
35:BA:1205:U:C5	40:BF:171:PRO:HA	2.42	0.55
24:AY:121:VAL:HA	24:AY:124:GLN:HE22	1.72	0.54
35:BA:1245:G:C5'	40:BF:34:TRP:HZ2	2.20	0.54
54:DV:38:LEU:H	54:DV:51:VAL:HG13	1.72	0.54
35:BA:272(H):C:C5'	35:BA:272(H):C:H6	2.18	0.54
57:BY:96:ILE:CG2	57:BY:99:CYS:HB3	2.37	0.54
5:AE:76:ILE:CG2	5:AE:118:ILE:HD13	2.37	0.54
5:AE:143:ARG:HH12	8:AH:77:GLU:CD	2.10	0.54
50:BR:85:PRO:C	50:BR:87:TYR:H	2.10	0.54
5:CE:76:ILE:HG13	5:CE:77:PRO:HD2	1.87	0.54
2:CB:114:ARG:HD2	2:CB:118:LEU:HG	1.89	0.54
6:AF:37:VAL:HG12	6:AF:38:GLU:O	2.07	0.54
20:AT:13:LEU:O	20:AT:16:HIS:N	2.40	0.54
35:BA:2230:G:H2'	35:BA:2231:C:H6	1.72	0.54
19:AS:13:ASP:O	19:AS:15:LEU:N	2.40	0.54
35:BA:2820:A:C8	39:BE:191:PRO:HB2	2.42	0.54
13:AM:49:THR:O	13:AM:53:VAL:HG23	2.07	0.54
35:BA:359:A:H2'	35:BA:360:G:O4'	2.07	0.54
52:BT:12:SER:O	52:BT:13:ARG:NH2	2.40	0.54
39:DE:94:GLU:OE2	39:DE:177:PRO:HB3	2.07	0.54
38:DD:241:PRO:O	38:DD:242:ARG:CB	2.55	0.54
46:DN:95:PRO:HA	46:DN:98:VAL:HG23	1.88	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:DK:6:ALA:O	44:DK:58:THR:HA	2.07	0.54
26:D1:80:LEU:HD23	26:D1:81:LYS:H	1.70	0.54
48:DP:45:LEU:HG	48:DP:46:LYS:H	1.70	0.54
12:AL:60:LEU:HD22	12:AL:60:LEU:N	2.22	0.54
39:DE:28:ALA:HB3	39:DE:93:VAL:HG22	1.90	0.54
36:BB:16:G:N2	36:BB:69:G:H1'	2.22	0.54
35:DA:1683:C:H2'	35:DA:1684:C:C6	2.41	0.54
35:BA:961:C:N4	35:BA:2031:A:H1'	2.22	0.54
25:D0:5:LYS:HB2	49:DQ:80:GLU:O	2.07	0.54
1:AA:1101:A:H4'	1:AA:1102:A:C4'	2.37	0.54
22:CW:76:C:OP1	26:D1:30:VAL:HG21	2.06	0.54
3:AC:133:ALA:O	3:AC:137:ALA:HB2	2.06	0.54
47:DO:9:GLU:OE1	47:DO:9:GLU:HA	2.07	0.54
24:CY:539:ILE:HA	24:CY:542:VAL:CG1	2.37	0.54
35:DA:1943:U:O2'	35:DA:1944:U:H3'	2.07	0.54
35:DA:1943:U:O2'	35:DA:1944:U:O5'	2.22	0.54
35:DA:2008:C:H2'	35:DA:2009:G:C8	2.42	0.54
35:BA:208:C:H2'	35:BA:209:C:H6	1.72	0.54
35:DA:1661:G:O2'	35:DA:1662:C:H5'	2.07	0.54
37:DC:14:LYS:O	37:DC:15:VAL:HG13	2.08	0.54
35:BA:1358:G:O2'	35:BA:1359:A:H5''	2.08	0.54
37:BC:11:LEU:O	37:BC:13:GLU:N	2.40	0.54
35:BA:1556:C:H2'	35:BA:1557:C:C6	2.42	0.54
6:AF:10:LEU:HD12	6:AF:61:LEU:HD13	1.88	0.54
35:BA:74:A:O2'	35:BA:75:G:OP2	2.23	0.54
5:CE:10:MET:HG3	5:CE:32:VAL:HG22	1.88	0.54
36:BB:77:U:O2'	36:BB:78:A:H5'	2.07	0.54
22:CV:37:A:H3'	22:CV:38:A:H8	1.71	0.54
55:BW:1:MET:CE	55:BW:2:GLU:H	2.19	0.54
43:DJ:72:UNK:C	43:DJ:74:UNK:N	2.69	0.54
12:CL:111:LYS:O	12:CL:112:ASP:HB2	2.07	0.54
1:AA:1082:G:O2'	1:AA:1083:U:H5'	2.07	0.54
41:BG:63:ILE:CA	41:BG:143:GLU:HG3	2.25	0.54
24:CY:603:GLU:OE1	24:CY:648:PRO:HB3	2.07	0.54
4:AD:8:VAL:O	4:AD:10:ARG:N	2.34	0.54
46:BN:9:VAL:HG12	46:BN:10:GLU:N	2.22	0.54
38:BD:61:LEU:HB3	38:BD:63:ARG:HH12	1.72	0.54
27:B2:69:ARG:HH22	35:BA:111:A:C5'	2.21	0.54
52:BT:27:THR:OG1	52:BT:28:VAL:N	2.40	0.54
35:BA:322:A:H5'	35:BA:340:A:H1'	1.89	0.54
8:AH:103:VAL:HG21	8:AH:110:ALA:HB2	1.88	0.54
24:CY:282:SER:O	24:CY:284:LEU:N	2.40	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
51:BS:70:GLY:C	51:BS:72:ALA:H	2.10	0.54
44:DK:112:MET:HE2	44:DK:120:LEU:HD21	1.89	0.54
35:DA:110:G:O2'	35:DA:111:A:H5'	2.08	0.54
2:CB:20:GLU:HB2	2:CB:190:THR:OG1	2.07	0.54
1:AA:973:G:H1'	10:AJ:55:LYS:HZ3	1.71	0.54
5:AE:51:VAL:O	5:AE:55:VAL:HG23	2.07	0.54
52:BT:3:ARG:O	52:BT:4:GLY:C	2.44	0.54
26:D1:82:LEU:C	26:D1:83:GLU:HG3	2.28	0.54
15:CO:76:GLU:O	15:CO:78:TYR:N	2.39	0.54
57:BY:44:ILE:HG22	57:BY:45:VAL:N	2.18	0.54
35:BA:1252:G:N3	53:BU:33:ARG:HD2	2.21	0.54
35:DA:1336:A:OP2	56:DX:64:LYS:HE3	2.08	0.54
38:DD:26:LYS:H	38:DD:26:LYS:HE2	1.72	0.54
42:DH:20:ALA:HB1	42:DH:21:PRO:HD2	1.89	0.54
58:BZ:71:VAL:HG13	58:BZ:86:VAL:CG1	2.37	0.54
39:BE:28:ALA:HB3	39:BE:93:VAL:HG22	1.88	0.54
24:AY:65:ILE:HD13	24:AY:65:ILE:H	1.71	0.54
35:DA:2067:G:H1	35:DA:2443:C:H42	1.55	0.54
54:BV:82:ARG:HD2	54:BV:82:ARG:N	2.23	0.54
35:BA:548:A:C3'	35:BA:549:G:H5'	2.38	0.54
24:AY:228:MET:HE2	24:AY:229:LEU:HG	1.90	0.54
35:DA:751:A:C5'	55:DW:90:ARG:HA	2.36	0.54
3:CC:15:THR:CG2	3:CC:181:ASN:HA	2.38	0.54
35:DA:848:G:C2	35:DA:933:A:H1'	2.41	0.54
9:CI:40:LEU:CD1	9:CI:70:LYS:HG2	2.35	0.54
14:AN:37:PHE:CE1	14:AN:53:LEU:HD22	2.42	0.54
35:BA:1788:C:H2'	35:BA:1789:A:H8	1.71	0.54
24:AY:610:VAL:HG12	24:AY:669:PHE:HB3	1.88	0.54
42:DH:86:GLU:HB3	42:DH:132:ARG:HB3	1.88	0.54
1:CA:1347:G:O2'	1:CA:1348:U:P	2.65	0.54
54:BV:1:MET:HA	54:BV:1:MET:HE2	1.89	0.54
58:BZ:63:ASP:OD2	58:BZ:65:GLN:NE2	2.40	0.54
35:DA:135:G:O2'	35:DA:136:G:H5'	2.07	0.54
35:DA:2839:G:H2'	35:DA:2840:C:C6	2.42	0.54
35:BA:1404:C:O2'	35:BA:1405:U:H5'	2.07	0.54
1:AA:1008:C:H2'	1:AA:1009:G:H8	1.71	0.54
1:AA:1366:C:H2'	1:AA:1367:C:H6	1.73	0.54
43:DJ:146:UNK:C	43:DJ:148:UNK:N	2.69	0.54
35:DA:426:C:O2'	35:DA:427:U:H5'	2.06	0.54
27:D2:29:LYS:HZ2	56:DX:3:THR:N	2.06	0.54
43:BJ:52:UNK:O	43:BJ:53:UNK:CB	2.54	0.54
4:CD:150:GLU:HG2	4:CD:151:LYS:N	2.22	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2532:G:H2'	35:BA:2533:A:O4'	2.07	0.54
34:D9:10:ILE:O	34:D9:11:CYS:HB3	2.06	0.54
35:DA:271(K):U:H3'	35:DA:271(L):U:H5''	1.88	0.54
1:AA:961:U:O2	1:AA:983:A:H2'	2.08	0.54
24:AY:359:HIS:O	24:AY:361:ASN:N	2.40	0.54
48:BP:135:LEU:HD13	48:BP:135:LEU:O	2.06	0.54
35:DA:1287:A:H2'	35:DA:1287:A:N3	2.20	0.54
16:AP:18:ARG:HD3	16:AP:35:LYS:HD2	1.88	0.54
9:CI:4:TYR:CE2	9:CI:59:PHE:HE2	2.26	0.54
40:BF:24:LEU:HB3	40:BF:25:PRO:CD	2.32	0.54
35:DA:993:G:OP1	53:DU:50:ARG:HD2	2.07	0.54
24:AY:286:ILE:N	24:AY:286:ILE:HD12	2.23	0.54
33:B8:32:LEU:HB3	33:B8:36:LYS:NZ	2.22	0.54
1:CA:1316:G:N2	1:CA:1318:A:H3'	2.22	0.54
57:DY:94:LYS:O	57:DY:102:CYS:HB2	2.06	0.54
57:DY:15:VAL:O	57:DY:22:GLY:N	2.40	0.54
35:BA:110:G:O2'	35:BA:111:A:H5'	2.06	0.54
41:DG:57:ALA:O	41:DG:68:PRO:HG2	2.07	0.54
57:BY:91:GLU:O	57:BY:92:ASN:HB2	2.07	0.54
35:BA:1902:C:H2'	35:BA:1903:G:O4'	2.06	0.54
5:AE:135:THR:O	5:AE:138:ALA:HB3	2.06	0.54
30:D5:4:HIS:HB3	30:D5:5:PRO:CD	2.32	0.54
48:BP:38:GLN:HG3	48:BP:39:LYS:N	2.12	0.54
8:CH:103:VAL:HG23	8:CH:110:ALA:HB2	1.89	0.54
35:DA:1301:A:H2'	35:DA:1302:A:H3'	1.88	0.54
35:DA:28:A:H62	35:DA:512:G:H1'	1.72	0.54
36:DB:7:G:H5'	51:DS:29:PHE:CD1	2.41	0.54
35:DA:941:A:H4'	48:DP:35:HIS:CE1	2.42	0.54
26:B1:85:LEU:O	26:B1:87:PRO:HD2	2.08	0.54
48:DP:100:LEU:HA	48:DP:103:ALA:HB3	1.87	0.54
48:DP:83:VAL:H	48:DP:115:LEU:HD21	1.72	0.54
48:BP:107:LYS:C	48:BP:109:GLY:H	2.09	0.54
2:CB:44:LEU:HA	2:CB:47:THR:OG1	2.07	0.54
30:D5:56:LYS:CG	30:D5:57:VAL:H	2.05	0.54
44:BK:29:GLN:O	44:BK:59:ILE:HD12	2.07	0.54
1:AA:264:U:H4'	17:AQ:63:ARG:HD3	1.89	0.54
39:DE:55:ASN:O	39:DE:57:LYS:N	2.33	0.54
35:BA:2245:U:C5'	35:BA:2246:G:H5'	2.33	0.54
1:CA:1198:G:H2'	1:CA:1199:U:O4'	2.06	0.54
29:D4:12:ALA:HB1	29:D4:29:PRO:HA	1.89	0.54
3:AC:46:GLU:O	3:AC:47:LEU:CB	2.54	0.54
1:AA:1325:C:H2'	1:AA:1326:C:C6	2.42	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:BT:10:VAL:O	52:BT:13:ARG:HG2	2.06	0.54
25:D0:40:GLN:HE22	25:D0:43:THR:CA	2.19	0.54
52:BT:106:SER:O	52:BT:107:ASP:CB	2.55	0.54
25:B0:51:VAL:HG21	25:B0:79:VAL:O	2.08	0.54
35:BA:260:G:H1'	35:BA:621:A:H1'	1.89	0.54
35:DA:2777:G:H5''	35:DA:2778:A:H5''	1.88	0.54
51:DS:98:VAL:CG1	51:DS:100:ALA:HB2	2.38	0.54
1:CA:663:A:O2'	1:CA:664:G:H5'	2.07	0.54
1:CA:665:A:H2'	1:CA:732:C:O2	2.07	0.54
1:CA:1060:C:H5'	14:CN:45:ARG:NH2	2.23	0.54
35:DA:2657:A:H2'	35:DA:2658:C:C5'	2.35	0.54
1:CA:1149:C:H2'	1:CA:1150:U:C6	2.42	0.54
35:BA:936:C:H2'	35:BA:937:U:H6	1.70	0.54
42:BH:148:ILE:O	42:BH:151:ILE:HG12	2.07	0.54
24:CY:16:GLY:O	24:CY:104:ALA:CB	2.54	0.54
46:BN:65:LYS:NZ	46:BN:65:LYS:HA	2.22	0.54
49:DQ:35:VAL:HG22	49:DQ:36:ALA:N	2.22	0.54
44:DK:78:ILE:HD13	44:DK:134:MET:SD	2.47	0.54
8:CH:119:LEU:HD12	8:CH:124:ALA:HB2	1.88	0.54
37:BC:139:PRO:HA	37:BC:145:THR:CG2	2.37	0.54
54:DV:37:VAL:HG23	54:DV:37:VAL:O	2.07	0.54
1:AA:715:A:H2'	1:AA:716:A:H8	1.71	0.54
24:CY:507:TYR:CD1	24:CY:507:TYR:C	2.80	0.54
37:BC:190:ILE:O	37:BC:194:ILE:HG12	2.06	0.54
1:AA:1005:A:H5'	1:AA:1006:C:OP2	2.07	0.54
13:AM:77:ASN:O	13:AM:80:ARG:N	2.36	0.54
26:D1:11:ARG:NH2	35:DA:1365:A:O2'	2.40	0.54
1:AA:1208:C:H2'	1:AA:1209:C:H6	1.72	0.54
56:DX:18:TYR:C	56:DX:20:GLY:N	2.59	0.54
7:AG:140:ASP:O	7:AG:144:MET:HG2	2.07	0.54
26:B1:29:GLY:C	26:B1:31:GLY:N	2.61	0.54
17:CQ:99:SER:C	17:CQ:100:LYS:HG3	2.27	0.54
51:BS:51:ALA:HB3	51:BS:73:LEU:HD12	1.89	0.54
1:AA:93:G:O2'	1:AA:96:U:H5'	2.06	0.54
46:BN:109:LYS:H	46:BN:109:LYS:CE	2.21	0.54
4:CD:153:ARG:HG2	4:CD:153:ARG:HH11	1.73	0.54
6:AF:47:ARG:HH11	6:AF:47:ARG:HG2	1.73	0.54
24:CY:609:GLU:CG	24:CY:670:VAL:HG21	2.38	0.54
35:DA:2733:A:H2'	35:DA:2734:A:O4'	2.08	0.54
35:BA:613:G:H5'	35:BA:613:G:C8	2.43	0.54
24:AY:250:THR:HA	24:AY:255:ILE:HG23	1.89	0.54
23:CX:11:U:H4'	23:CX:12:A:O5'	2.05	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:BF:39:TRP:CB	40:BF:101:LEU:HD22	2.37	0.54
31:B6:53:LYS:HG3	31:B6:54:ILE:HG23	1.89	0.54
57:BY:38:ILE:HG23	57:BY:39:VAL:N	2.23	0.54
41:DG:59:GLU:OE2	41:DG:138:GLN:NE2	2.40	0.54
1:CA:1005:A:H5'	1:CA:1006:C:OP2	2.07	0.54
3:CC:46:GLU:HB3	3:CC:83:ARG:HH22	1.71	0.54
31:D6:15:GLU:C	31:D6:16:CYS:O	2.45	0.54
5:CE:101:ILE:HD11	5:CE:119:LEU:HD22	1.89	0.54
35:DA:651:G:H2'	35:DA:652:C:H5'	1.88	0.54
50:DR:113:LEU:HD12	50:DR:114:VAL:H	1.72	0.54
35:DA:2000:G:O2'	35:DA:2001:A:H5'	2.06	0.54
1:AA:953:G:O6	1:AA:1228:C:N4	2.39	0.54
35:BA:1658:C:OP1	39:BE:132:HIS:O	2.26	0.54
17:AQ:59:ILE:HG23	17:AQ:71:PHE:CB	2.34	0.54
12:AL:41:ARG:NH1	12:AL:41:ARG:HB3	2.16	0.54
12:AL:41:ARG:HG2	12:AL:42:THR:N	2.18	0.54
37:DC:149:ASN:HD21	37:DC:153:ILE:HD11	1.73	0.54
1:CA:1517:G:H1'	35:DA:1919:A:O3'	2.06	0.54
41:DG:145:THR:HG21	41:DG:148:MET:HB2	1.89	0.54
15:CO:17:ARG:HG3	15:CO:17:ARG:HH11	1.72	0.54
29:B4:19:GLY:O	29:B4:21:VAL:HG23	2.08	0.54
38:BD:26:LYS:H	38:BD:26:LYS:HE2	1.72	0.54
35:BA:1539:G:H2'	35:BA:1540:U:O4'	2.06	0.54
35:DA:2122:U:H1'	37:DC:167:ASP:OD2	2.06	0.54
38:DD:118:VAL:HG22	38:DD:119:ALA:N	2.22	0.54
51:DS:49:VAL:HG21	51:DS:77:ALA:HB2	1.89	0.54
1:AA:631:G:H8	1:AA:631:G:H5'	1.71	0.54
35:BA:2478:A:H2'	35:BA:2479:G:O4'	2.08	0.54
32:D7:24:THR:HG23	32:D7:27:GLY:CA	2.37	0.54
20:CT:48:LYS:HB3	20:CT:51:GLU:CG	2.37	0.54
35:DA:1276:A:H1'	50:DR:16:HIS:HE1	1.73	0.54
24:AY:343:ASN:HD21	24:AY:345:THR:CB	2.20	0.54
20:CT:73:HIS:O	20:CT:74:LYS:C	2.46	0.54
1:AA:1378:C:OP1	7:AG:7:ALA:HB3	2.08	0.54
3:AC:128:PHE:O	3:AC:130:VAL:N	2.40	0.54
12:CL:119:LYS:O	12:CL:120:TYR:HB2	2.08	0.54
46:DN:55:VAL:HG22	46:DN:56:ASN:H	1.72	0.54
35:DA:2107:C:H42	35:DA:2182:G:H1	1.56	0.54
25:B0:20:ARG:CD	25:B0:20:ARG:H	2.21	0.54
35:BA:1344:G:H5'	35:BA:1384:A:C6	2.42	0.54
27:B2:55:ARG:O	27:B2:58:ALA:HB3	2.07	0.54
45:DL:15:UNK:C	45:DL:17:UNK:N	2.66	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1225:G:H2'	35:DA:1226:A:C8	2.43	0.54
2:AB:9:GLU:N	2:AB:9:GLU:OE2	2.40	0.54
24:AY:137:ASN:HD21	24:AY:263:ALA:HB3	1.73	0.54
51:DS:51:ALA:HB3	51:DS:73:LEU:HB2	1.89	0.54
11:CK:21:ILE:HG13	11:CK:30:VAL:HG12	1.89	0.54
35:BA:1196:C:O2'	35:BA:1227:G:H4'	2.07	0.54
35:DA:1040:C:C4	35:DA:1041:C:C4	2.95	0.54
47:BO:113:LYS:O	47:BO:117:LEU:HD12	2.07	0.54
24:CY:373:ASP:C	24:CY:374:LEU:HD12	2.28	0.54
24:CY:192:LEU:HD12	24:CY:194:THR:CG2	2.37	0.54
3:CC:141:VAL:HG12	3:CC:146:ALA:HB3	1.89	0.54
49:DQ:41:TRP:HE1	49:DQ:96:VAL:HG22	1.71	0.54
37:DC:11:LEU:O	37:DC:13:GLU:N	2.41	0.54
35:DA:1461:G:O2'	35:DA:1462:C:H5'	2.08	0.54
1:CA:759:A:H2'	1:CA:760:G:H5'	1.89	0.54
46:DN:109:LYS:H	46:DN:109:LYS:CE	2.20	0.54
41:DG:147:ASP:C	41:DG:149:VAL:H	2.11	0.54
26:D1:40:ARG:HH12	35:DA:2232:U:P	2.30	0.54
35:DA:495:G:H1'	55:DW:57:ASN:OD1	2.07	0.54
1:AA:261:U:H2'	1:AA:263:A:OP2	2.08	0.54
46:DN:30:ILE:HG22	46:DN:34:LEU:CD2	2.37	0.54
35:BA:2531:A:OP1	42:BH:177:GLY:C	2.46	0.54
10:AJ:33:GLN:HB2	10:AJ:75:ILE:HD13	1.89	0.54
24:CY:92:ILE:HG13	24:CY:405:PRO:HG2	1.86	0.54
24:AY:87:HIS:O	24:AY:88:VAL:C	2.45	0.54
35:BA:1240:U:O2'	35:BA:1241:A:H5'	2.08	0.54
40:BF:187:VAL:HG12	48:BP:7:ARG:NH2	2.22	0.54
9:AI:4:TYR:CE2	9:AI:88:TYR:CB	2.90	0.54
40:DF:157:VAL:HG12	40:DF:176:LEU:HD23	1.89	0.54
41:DG:46:ALA:HB2	41:DG:88:ILE:CG1	2.38	0.54
35:BA:2291:U:H2'	35:BA:2292:C:H6	1.71	0.54
51:BS:98:VAL:C	51:BS:100:ALA:N	2.60	0.54
3:CC:59:ARG:CG	3:CC:64:VAL:HA	2.37	0.54
28:B3:31:LEU:O	28:B3:32:GLN:HB2	2.06	0.54
1:AA:129(A):G:H5''	1:AA:129(A):G:C8	2.42	0.54
47:DO:47:ILE:O	47:DO:48:PRO:O	2.26	0.54
46:BN:120:LEU:CD1	46:BN:122:VAL:HG23	2.38	0.54
48:BP:100:LEU:HA	48:BP:103:ALA:HB3	1.89	0.54
2:CB:187:LEU:HD23	2:CB:214:ILE:HG21	1.90	0.54
19:AS:29:ARG:O	19:AS:31:ILE:N	2.34	0.54
35:BA:946:G:H2'	35:BA:947:G:C8	2.42	0.54
1:AA:1053:G:H4'	1:AA:1054:C:H5'	1.90	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2299:G:O2'	35:BA:2300:G:H5'	2.06	0.54
35:BA:1947:C:H2'	35:BA:1948:G:C5'	2.32	0.54
47:DO:19:ILE:HD12	47:DO:41:ALA:HB3	1.90	0.54
58:BZ:145:GLU:O	58:BZ:147:GLY:N	2.40	0.54
9:AI:81:ILE:O	9:AI:85:LEU:HG	2.08	0.54
38:DD:155:LEU:N	38:DD:155:LEU:HD12	2.22	0.54
3:AC:167:TRP:O	3:AC:168:ALA:HB3	2.07	0.54
1:AA:1148:U:O3'	9:AI:14:VAL:HG11	2.06	0.54
4:AD:57:ARG:HH11	4:AD:57:ARG:HG2	1.72	0.54
13:AM:6:GLY:O	13:AM:8:GLU:N	2.39	0.54
24:AY:601:ILE:HG21	24:AY:687:LEU:HD12	1.88	0.54
24:AY:608:VAL:HG13	24:AY:670:VAL:O	2.08	0.54
10:AJ:20:ALA:C	10:AJ:22:LYS:N	2.61	0.54
8:AH:119:LEU:HD12	8:AH:124:ALA:HB2	1.89	0.54
35:DA:1344:G:H5'	35:DA:1384:A:C6	2.43	0.54
1:AA:539:A:H2'	1:AA:540:G:H8	1.72	0.54
46:BN:55:VAL:HG22	46:BN:56:ASN:H	1.72	0.54
35:DA:2202:C:H2'	38:DD:151:LYS:HZ1	1.71	0.54
35:DA:1943:U:H4'	35:DA:1944:U:OP1	2.06	0.54
1:CA:956:U:O2'	1:CA:957:U:H5'	2.08	0.54
55:BW:9:TYR:H	55:BW:102:HIS:CD2	2.26	0.54
35:DA:16:G:O2'	35:DA:17:G:H5'	2.07	0.54
35:BA:1910:G:O2'	35:BA:1911:U:H5'	2.08	0.54
8:AH:7:ALA:HB2	8:AH:85:ARG:HD3	1.89	0.54
1:AA:189(K):U:H2'	1:AA:189(L):G:C8	2.43	0.54
1:CA:675:A:O2'	1:CA:676:A:H5'	2.07	0.54
1:CA:10:A:H2'	1:CA:11:G:H8	1.72	0.54
18:AR:85:LEU:HD12	18:AR:86:VAL:H	1.71	0.54
35:BA:71:A:H4'	35:BA:72:U:H5'	1.89	0.54
35:DA:737:C:C2'	35:DA:738:G:H5'	2.38	0.54
5:CE:100:VAL:HG23	5:CE:100:VAL:O	2.07	0.54
35:DA:2142:C:O2'	35:DA:2143:C:H5'	2.08	0.54
3:CC:101:LEU:HD23	3:CC:101:LEU:C	2.28	0.54
48:DP:9:ASN:H	48:DP:10:PRO:CD	2.21	0.54
41:BG:96:ARG:O	41:BG:97:ASP:HB2	2.08	0.54
35:BA:2577:A:C5'	35:BA:2578:G:H5'	2.37	0.54
53:BU:109:LEU:O	53:BU:112:ARG:HB2	2.07	0.54
53:BU:83:LEU:HD12	53:BU:113:ALA:HB2	1.90	0.54
9:AI:4:TYR:CE2	9:AI:59:PHE:HE2	2.26	0.54
33:D8:33:ASN:HA	33:D8:36:LYS:HG3	1.88	0.54
35:BA:322:A:H3'	40:BF:169:ASN:ND2	2.22	0.54
50:DR:85:PRO:C	50:DR:87:TYR:H	2.10	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:CY:112:GLN:HG3	24:CY:115:GLU:CB	2.37	0.54
40:DF:9:ILE:HG12	40:DF:15:SER:N	2.22	0.54
3:AC:95:THR:O	3:AC:97:LYS:N	2.41	0.54
48:DP:101:VAL:HA	48:DP:107:LYS:H	1.72	0.54
35:DA:1493:C:O2	35:DA:1493:C:H2'	2.08	0.54
26:B1:76:ARG:NH2	26:B1:95:LEU:HD13	2.23	0.54
52:DT:25:GLY:HA2	52:DT:92:GLY:HA2	1.90	0.54
35:DA:2820:A:C8	39:DE:191:PRO:HB2	2.42	0.54
1:AA:1226:C:H5''	13:AM:103:THR:CB	2.38	0.54
52:BT:29:ARG:HG2	52:BT:85:LYS:CA	2.38	0.54
35:BA:2189:U:C3'	35:BA:2190:G:H5''	2.37	0.54
19:CS:42:PRO:HB3	29:D4:50:VAL:HG21	1.89	0.54
2:CB:31:TYR:O	2:CB:42:ILE:HG13	2.08	0.54
1:CA:691:G:H2'	1:CA:692:U:C6	2.43	0.54
11:CK:122:LYS:O	11:CK:123:LYS:C	2.46	0.54
1:CA:393:A:O2'	1:CA:394:G:H5'	2.07	0.54
46:DN:66:LYS:O	46:DN:67:LEU:HD23	2.08	0.54
49:DQ:27:VAL:HG12	49:DQ:28:ALA:N	2.21	0.54
4:AD:192:GLU:O	4:AD:193:ASP:C	2.45	0.54
38:DD:27:THR:HG23	38:DD:27:THR:O	2.07	0.54
26:D1:45:ASN:HB3	26:D1:64:ALA:HB2	1.89	0.54
36:DB:66:A:N6	36:DB:108:U:H2'	2.22	0.54
20:CT:104:LEU:HD23	20:CT:104:LEU:C	2.28	0.54
1:AA:1030(C):G:H2'	1:AA:1030(D):A:H8	1.71	0.54
4:CD:61:LYS:CE	4:CD:62:GLN:HE21	2.21	0.54
35:BA:64:A:H2'	35:BA:65:C:C6	2.43	0.54
13:CM:6:GLY:C	13:CM:8:GLU:N	2.59	0.54
28:B3:45:GLY:HA3	35:BA:851:U:O2'	2.06	0.54
57:BY:59:GLY:O	57:BY:60:PHE:HB2	2.07	0.54
38:BD:77:ALA:CB	38:BD:97:TYR:HA	2.37	0.54
1:AA:1166:G:H5'	1:AA:1168:A:OP2	2.07	0.54
35:DA:2617:C:O2'	35:DA:2618:G:H5'	2.07	0.54
16:CP:4:ILE:HG13	16:CP:64:ALA:HB1	1.90	0.54
1:CA:1347:G:N2	1:CA:1373:G:H2'	2.22	0.54
35:BA:2749:A:N1	35:BA:2750:A:N6	2.56	0.54
55:DW:25:ARG:NH2	55:DW:74:ALA:O	2.40	0.54
24:AY:137:ASN:HD21	24:AY:263:ALA:H	1.55	0.54
35:DA:68:G:H2'	35:DA:69:C:C6	2.43	0.54
26:B1:29:GLY:C	26:B1:31:GLY:H	2.10	0.54
35:DA:1824:G:OP1	38:DD:52:ARG:HD3	2.08	0.54
35:DA:1972:A:H2'	35:DA:1973:G:H8	1.72	0.54
35:BA:2870:C:H2'	35:BA:2871:C:O4'	2.07	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:CY:689:LYS:HG3	24:CY:690:GLY:N	2.22	0.54
47:BO:108:GLU:OE2	47:BO:108:GLU:N	2.40	0.54
35:BA:1824:G:OP1	38:BD:52:ARG:HD3	2.07	0.54
35:DA:2336:A:N3	35:DA:2385:C:H1'	2.23	0.54
48:DP:9:ASN:N	48:DP:10:PRO:HD2	2.23	0.54
4:CD:31:CYS:O	4:CD:32:ALA:HB3	2.08	0.54
4:AD:11:LEU:O	4:AD:12:CYS:C	2.45	0.54
40:BF:176:LEU:HG	40:BF:177:ALA:O	2.07	0.54
24:AY:227:ILE:HD11	24:AY:241:GLU:C	2.28	0.54
53:BU:99:ALA:HB2	53:BU:106:PHE:CE1	2.43	0.54
48:BP:64:LYS:C	48:BP:66:GLY:H	2.10	0.54
35:DA:83:G:O2'	35:DA:84:A:C8	2.56	0.54
31:D6:27:LYS:CD	31:D6:27:LYS:O	2.54	0.54
10:CJ:33:GLN:N	10:CJ:75:ILE:HD11	2.22	0.54
37:DC:76:LEU:HD21	37:DC:104:ILE:HD11	1.89	0.54
31:D6:13:CYS:HA	31:D6:50:ARG:O	2.08	0.54
35:DA:1059:G:H4'	44:DK:115:LEU:HD23	1.88	0.54
40:BF:10:PRO:HG2	40:BF:13:SER:OG	2.08	0.54
48:BP:16:ARG:CD	48:BP:18:ARG:H	2.10	0.54
44:DK:109:LYS:HA	44:DK:112:MET:HE3	1.90	0.54
48:DP:102:ARG:HG2	48:DP:102:ARG:O	2.07	0.54
48:DP:99:LEU:HA	48:DP:102:ARG:HH12	1.72	0.54
48:DP:146:VAL:O	48:DP:148:LEU:HD12	2.08	0.54
30:D5:55:ARG:HH12	50:DR:33:ARG:CD	2.20	0.54
19:AS:44:MET:HB3	19:AS:47:HIS:HD2	1.72	0.54
13:AM:52:GLU:HA	13:AM:55:ARG:HD3	1.90	0.54
39:BE:70:ALA:O	39:BE:71:GLY:C	2.45	0.54
52:DT:117:ASP:OD2	52:DT:120:ARG:HG3	2.08	0.54
56:BX:35:THR:HG22	56:BX:37:THR:N	2.14	0.54
58:DZ:13:GLU:O	58:DZ:18:LEU:HD11	2.07	0.54
19:CS:13:ASP:O	19:CS:15:LEU:N	2.40	0.54
1:CA:1226:C:H4'	1:CA:1227:A:OP1	2.06	0.54
9:AI:95:LYS:HD3	9:AI:95:LYS:C	2.28	0.54
39:BE:94:GLU:OE2	39:BE:177:PRO:HB3	2.07	0.54
9:AI:8:GLY:CA	9:AI:79:LEU:HD12	2.36	0.54
35:DA:1654:A:P	50:DR:3:HIS:HB2	2.47	0.54
35:BA:2465:C:O2'	35:BA:2466:C:H5'	2.08	0.54
13:AM:70:LEU:HD23	13:AM:70:LEU:C	2.27	0.54
39:DE:4:ILE:HG13	39:DE:5:LEU:H	1.73	0.54
37:BC:26:ALA:O	37:BC:30:VAL:HG23	2.07	0.54
20:AT:104:LEU:C	20:AT:104:LEU:HD23	2.27	0.54
35:DA:2224:G:H4'	35:DA:2226:C:C2	2.43	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:B9:29:ASN:HD21	34:B9:32:HIS:CG	2.26	0.54
35:BA:654(G):C:H2'	35:BA:654(H):G:C8	2.38	0.54
22:AW:52:C:H3'	22:AW:53:G:H5''	1.89	0.54
7:AG:81:GLY:O	7:AG:83:ALA:N	2.40	0.54
35:BA:653:A:H5'	35:BA:654:A:OP2	2.08	0.54
15:AO:9:GLN:HB3	15:AO:13:GLN:NE2	2.21	0.54
22:AW:75:C:O2'	22:AW:76:C:H5'	2.07	0.54
13:CM:56:LEU:C	13:CM:56:LEU:HD13	2.28	0.54
13:AM:11:ARG:HG2	13:AM:12:ASN:H	1.73	0.54
36:DB:49:C:H2'	36:DB:50:G:C8	2.43	0.54
35:DA:483:A:H4'	57:DY:49:VAL:HA	1.90	0.54
35:DA:709:U:H2'	35:DA:710:G:C8	2.42	0.54
41:DG:19:LEU:CD1	41:DG:172:LEU:HD12	2.38	0.54
37:BC:73:VAL:CG1	37:BC:158:LYS:HA	2.38	0.54
35:BA:1943:U:O2'	35:BA:1944:U:H3'	2.08	0.54
38:DD:134:ARG:HG2	38:DD:187:GLY:O	2.07	0.54
24:CY:309:LEU:HD13	24:CY:334:THR:O	2.07	0.54
1:CA:1015:A:H2'	1:CA:1016:A:C8	2.43	0.54
35:BA:1197:G:H2'	35:BA:1198:U:H6	1.72	0.54
7:AG:91:VAL:HG12	7:AG:92:SER:H	1.73	0.54
19:CS:53:ASN:O	19:CS:55:LYS:N	2.37	0.54
25:D0:78:TYR:N	25:D0:78:TYR:CD1	2.75	0.54
17:AQ:45:HIS:CB	17:AQ:65:ILE:HD13	2.37	0.54
11:CK:20:TYR:HB2	11:CK:31:THR:HG22	1.90	0.54
1:CA:1258:G:O2'	1:CA:1259:C:H5'	2.07	0.54
7:CG:69:VAL:HG21	7:CG:104:LEU:HD21	1.90	0.54
17:CQ:45:HIS:CB	17:CQ:65:ILE:HD13	2.38	0.54
43:DJ:31:UNK:O	43:DJ:32:UNK:CB	2.56	0.54
35:BA:2422:A:H4'	35:BA:2423:U:OP1	2.08	0.54
35:DA:648:G:H2'	35:DA:649:G:H8	1.71	0.54
35:DA:2861:G:H2'	35:DA:2862:G:H8	1.72	0.54
35:DA:2792:G:N3	35:DA:2792:G:H2'	2.23	0.54
2:CB:137:ARG:HD3	2:CB:137:ARG:C	2.28	0.54
35:BA:1972:A:H2'	35:BA:1973:G:H8	1.73	0.54
36:BB:35:U:O2	36:BB:35:U:H2'	2.07	0.54
40:DF:25:PRO:CG	40:DF:119:ARG:HB2	2.37	0.54
41:BG:16:ARG:O	41:BG:20:ILE:HG13	2.08	0.54
35:BA:615:G:OP2	40:BF:40:GLN:NE2	2.40	0.54
40:BF:154:VAL:HG11	40:BF:193:VAL:CG2	2.38	0.54
24:AY:122:TRP:C	24:AY:124:GLN:N	2.61	0.54
1:CA:1130:A:C2	1:CA:1146:A:C4	2.96	0.54
9:CI:24:GLY:HA2	9:CI:59:PHE:O	2.07	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
53:DU:109:LEU:O	53:DU:112:ARG:HB2	2.07	0.54
56:DX:12:VAL:CG1	56:DX:27:THR:HG23	2.35	0.54
40:DF:181:LEU:HB3	40:DF:205:ARG:HH12	1.71	0.54
31:D6:54:ILE:O	31:D6:54:ILE:CD1	2.53	0.54
35:DA:2312:U:H2'	35:DA:2313:C:C5'	2.35	0.54
35:DA:1902:C:H2'	35:DA:1903:G:O4'	2.07	0.54
24:CY:272:LEU:HA	24:CY:275:ALA:HB3	1.90	0.54
37:DC:138:LEU:HD13	37:DC:139:PRO:O	2.08	0.54
31:B6:41:PRO:O	31:B6:42:TRP:C	2.47	0.54
3:CC:94:LEU:O	3:CC:94:LEU:HD12	2.08	0.54
35:DA:2469:A:H2	35:DA:2481:G:N2	2.06	0.54
53:DU:12:ARG:HB3	53:DU:16:LYS:HE3	1.90	0.54
26:B1:86:SER:HA	26:B1:89:GLU:OE2	2.08	0.54
29:D4:2:LYS:CB	36:DB:40:U:O4	2.55	0.54
40:DF:84:VAL:CG1	40:DF:85:GLY:N	2.55	0.54
35:DA:1142(A):A:O2'	35:DA:1143:A:H5''	2.06	0.54
35:BA:1599:C:H2'	35:BA:1600:C:C6	2.41	0.54
2:AB:19:HIS:HD2	2:AB:189:ASP:OD2	1.90	0.54
2:AB:207:ALA:O	2:AB:211:ILE:HG13	2.08	0.54
19:CS:41:VAL:HG23	19:CS:41:VAL:O	2.08	0.54
29:D4:48:ARG:O	29:D4:49:PHE:CD1	2.61	0.54
35:BA:545:C:H2'	35:BA:547:A:C5'	2.32	0.54
47:BO:19:ILE:HD12	47:BO:41:ALA:HB3	1.90	0.54
49:DQ:45:GLN:H	49:DQ:45:GLN:HE21	1.52	0.54
30:D5:35:GLU:O	30:D5:36:CYS:HB3	2.08	0.54
46:DN:94:HIS:N	46:DN:95:PRO:CD	2.71	0.54
26:D1:82:LEU:O	26:D1:83:GLU:HG3	2.07	0.54
58:DZ:80:ARG:O	58:DZ:81:ARG:C	2.46	0.54
16:AP:28:ARG:HG2	16:AP:28:ARG:HH11	1.72	0.54
55:DW:20:VAL:HG23	55:DW:21:VAL:N	2.23	0.54
1:CA:1368:G:OP2	9:CI:112:LYS:HD3	2.08	0.54
1:CA:1270:C:H2'	1:CA:1271:G:H8	1.71	0.54
19:CS:6:LYS:HE3	19:CS:6:LYS:H	1.72	0.54
24:CY:505:GLY:HA3	24:CY:576:ASP:CB	2.38	0.54
1:AA:179:A:H2'	1:AA:180:U:H6	1.70	0.54
1:CA:1090:U:C4'	1:CA:1170:A:H2	2.21	0.54
51:BS:20:ARG:HA	51:BS:20:ARG:NE	2.20	0.54
35:DA:2688:U:H1'	35:DA:2721:A:N6	2.23	0.54
13:AM:10:PRO:CG	13:AM:18:ALA:HB1	2.38	0.54
35:DA:2750:A:H2'	35:DA:2752:C:N4	2.22	0.54
16:AP:43:LYS:HA	16:AP:48:TRP:CB	2.37	0.54
57:DY:67:LEU:HD11	57:DY:71:LYS:HE2	1.89	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:DG:120:LEU:HD12	41:DG:180:PHE:CE2	2.43	0.54
56:DX:18:TYR:O	56:DX:20:GLY:N	2.41	0.54
1:AA:261:U:O2	1:AA:263:A:C8	2.60	0.54
4:AD:153:ARG:HG2	4:AD:153:ARG:HH11	1.71	0.54
14:CN:47:LEU:O	14:CN:50:LYS:N	2.40	0.54
3:AC:23:TYR:CG	3:AC:24:ALA:N	2.76	0.54
10:AJ:58:ASP:O	10:AJ:59:SER:C	2.45	0.54
35:BA:41:C:H2'	35:BA:42:G:O4'	2.06	0.54
35:DA:1272:A:OP2	35:DA:1647:G:OP1	2.24	0.54
1:AA:415:A:H2'	1:AA:416:G:C8	2.42	0.54
6:AF:8:ILE:HG23	6:AF:85:VAL:HG13	1.89	0.54
1:AA:174:C:O2'	1:AA:175:C:H5'	2.08	0.54
1:AA:424:G:H2'	1:AA:425:G:H8	1.72	0.54
40:DF:25:PRO:HB2	40:DF:119:ARG:HD3	1.89	0.54
29:B4:10:VAL:N	29:B4:26:SER:O	2.41	0.54
40:BF:18:ARG:C	40:BF:19:GLU:HG2	2.28	0.54
9:CI:18:PHE:O	9:CI:61:ALA:HA	2.08	0.54
57:DY:74:PRO:O	57:DY:75:ILE:HB	2.07	0.54
35:BA:1568:G:OP2	38:BD:63:ARG:NH2	2.37	0.54
48:DP:47:ASP:HB3	48:DP:48:PRO:O	2.08	0.54
35:DA:1840:G:H1	35:DA:1902:C:H42	1.56	0.54
38:BD:71:ASP:CB	38:BD:103:ARG:HH22	2.07	0.54
13:CM:124:PRO:HG2	24:CY:574:GLU:N	2.08	0.54
24:AY:546:ILE:CG2	24:AY:590:ILE:HG13	2.27	0.54
4:CD:129:ASN:N	4:CD:129:ASN:HD22	2.06	0.54
1:AA:781:A:H2'	1:AA:782:A:H5'	1.89	0.54
30:D5:55:ARG:NH2	50:DR:113:LEU:HD21	2.23	0.54
41:DG:98:ARG:HH11	41:DG:98:ARG:CG	2.20	0.54
19:AS:43:GLU:O	19:AS:45:VAL:HG13	2.08	0.54
40:DF:84:VAL:CG1	40:DF:85:GLY:H	2.12	0.54
30:B5:55:ARG:NH2	50:BR:113:LEU:HD21	2.23	0.54
35:DA:2713:A:C3'	35:DA:2714:G:H5'	2.38	0.54
11:CK:111:ASP:HA	18:CR:84:LYS:CD	2.31	0.54
2:AB:17:PHE:O	2:AB:204:ASN:HB2	2.08	0.54
2:AB:209:ARG:NH1	2:AB:239:VAL:HG11	2.23	0.54
35:BA:2818:G:O2'	35:BA:2837:G:H5'	2.08	0.54
58:DZ:95:PRO:HA	58:DZ:128:VAL:O	2.08	0.54
25:D0:40:GLN:NE2	25:D0:43:THR:CA	2.67	0.54
9:CI:128:ARG:O	13:CM:125:ARG:HD2	2.08	0.54
47:BO:26:LYS:HB3	47:BO:30:ALA:CB	2.37	0.54
1:AA:1060:C:H5'	14:AN:45:ARG:NH2	2.23	0.54
1:CA:896:C:O2'	1:CA:897:C:H5'	2.07	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BE:95:ILE:N	39:BE:95:ILE:HD13	2.23	0.54
39:DE:4:ILE:CG1	39:DE:5:LEU:N	2.71	0.54
37:BC:127:LYS:O	37:BC:128:LEU:HG	2.08	0.54
35:BA:883:G:O2'	35:BA:884:C:H5'	2.07	0.54
35:BA:892:G:H2'	35:BA:893:C:H6	1.73	0.54
36:BB:94:C:H2'	36:BB:95:C:H6	1.73	0.54
58:BZ:29:TYR:O	58:BZ:30:ASN:HB3	2.07	0.54
24:CY:322:VAL:HG23	24:CY:323:GLY:N	2.23	0.54
1:CA:264:U:H4'	17:CQ:63:ARG:HD3	1.89	0.54
37:DC:225:ILE:O	37:DC:225:ILE:HD12	2.08	0.54
46:BN:14:VAL:HG13	46:BN:137:LYS:HG3	1.90	0.54
35:DA:1441:G:H2'	35:DA:1442:G:C8	2.42	0.54
6:CF:42:GLU:C	6:CF:44:GLY:H	2.11	0.54
52:BT:98:LYS:HB3	52:BT:100:TYR:CE1	2.43	0.54
24:CY:211:GLU:HB2	24:CY:215:LYS:NZ	2.23	0.54
1:CA:977:A:C2'	1:CA:978:A:H5'	2.37	0.54
2:CB:9:GLU:OE2	2:CB:9:GLU:N	2.40	0.54
35:BA:67:U:H2'	35:BA:68:G:C8	2.43	0.54
38:BD:79:VAL:O	38:BD:113:VAL:HG13	2.08	0.54
1:AA:1459:C:H2'	1:AA:1460:A:H8	1.73	0.54
1:CA:603:U:H2'	1:CA:604:G:C8	2.43	0.54
1:CA:25:C:H2'	1:CA:26:A:C8	2.43	0.54
35:DA:1754:C:OP1	52:DT:96:ARG:NH1	2.40	0.54
35:DA:810:U:OP1	35:DA:1253:A:N7	2.40	0.54
1:CA:945:G:C2	1:CA:946:A:C8	2.96	0.54
26:D1:20:ARG:HH11	26:D1:20:ARG:HG2	1.73	0.54
55:BW:80:PRO:O	55:BW:100:THR:HG21	2.08	0.54
10:AJ:75:ILE:CG1	10:AJ:76:ASN:H	2.06	0.54
1:CA:542:G:H5'	4:CD:41:GLY:CA	2.37	0.54
35:DA:1044:G:O2'	35:DA:1045:A:H5''	2.07	0.54
40:BF:124:LEU:HD22	40:BF:191:ARG:HH21	1.73	0.54
24:AY:238:THR:HG23	24:AY:241:GLU:H	1.72	0.54
38:DD:30:GLU:HG3	38:DD:63:ARG:CZ	2.38	0.54
56:DX:55:ASN:HB2	56:DX:80:ILE:HG12	1.90	0.54
31:B6:11:LEU:CG	31:B6:26:ASN:HD21	2.21	0.54
48:BP:47:ASP:HB2	48:BP:51:PHE:HB2	1.90	0.54
1:CA:1221:G:H4'	19:CS:77:THR:CG2	2.35	0.54
35:BA:302:C:P	57:BY:73:ARG:HH12	2.31	0.54
57:BY:95:LYS:CD	57:BY:101:LYS:H	2.21	0.54
1:AA:1316:G:N2	1:AA:1318:A:H3'	2.23	0.54
8:AH:103:VAL:HG23	8:AH:110:ALA:HB2	1.88	0.54
24:CY:152:THR:HG23	24:CY:153:MET:N	2.23	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:DF:7:TYR:OH	40:DF:10:PRO:HG3	2.06	0.54
46:BN:15:LEU:HD12	46:BN:136:GLU:HG3	1.90	0.54
48:DP:115:LEU:HD23	48:DP:115:LEU:H	1.72	0.54
2:CB:204:ASN:HD21	2:CB:206:ASP:H	1.54	0.54
13:AM:116:THR:HG22	13:AM:117:VAL:N	2.23	0.54
35:BA:2469:A:H2	35:BA:2481:G:N2	2.05	0.54
52:DT:55:ASN:H	52:DT:59:THR:HG21	1.72	0.54
46:BN:96:GLU:N	46:BN:96:GLU:CD	2.57	0.54
18:AR:56:THR:O	18:AR:58:LEU:HD12	2.07	0.54
1:AA:624:C:O2'	1:AA:625:G:H5'	2.07	0.54
24:CY:232:LEU:HD22	24:CY:232:LEU:H	1.73	0.54
35:DA:863:A:O2'	36:DB:101:G:H1'	2.08	0.54
24:CY:331:TYR:O	24:CY:371:ALA:CB	2.56	0.54
24:CY:124:GLN:HA	24:CY:127:LYS:HD2	1.89	0.54
1:CA:383:A:C2'	1:CA:384:G:H5'	2.38	0.54
30:B5:27:PRO:HG3	55:BW:23:LEU:CD1	2.35	0.54
56:BX:65:ARG:HH11	56:BX:65:ARG:HG2	1.72	0.54
35:BA:1173:G:H5'	35:BA:1174:A:O5'	2.07	0.54
49:BQ:108:GLY:O	49:BQ:109:VAL:CG2	2.56	0.54
32:B7:24:THR:HG23	32:B7:27:GLY:CA	2.38	0.54
35:BA:2521:C:N4	35:BA:2544:G:H1	2.06	0.54
27:B2:15:LYS:O	27:B2:16:LEU:HD23	2.08	0.54
37:BC:138:LEU:HD13	37:BC:139:PRO:O	2.07	0.54
35:BA:2183:C:O2'	35:BA:2184:G:H5'	2.08	0.54
35:BA:1036:G:C6	35:BA:1120:G:C6	2.96	0.54
50:DR:7:GLY:HA3	50:DR:8:ARG:NH2	2.23	0.54
50:DR:7:GLY:O	50:DR:8:ARG:CB	2.56	0.54
28:B3:4:LEU:O	28:B3:36:VAL:HA	2.08	0.54
51:BS:56:LEU:O	51:BS:56:LEU:HD23	2.08	0.54
35:BA:491:G:H2'	35:BA:492:A:C8	2.42	0.54
35:DA:654(P):C:H2'	35:DA:654(Q):C:H5'	1.90	0.54
7:CG:64:GLN:HG3	7:CG:128:ALA:HB1	1.91	0.54
37:BC:57:GLN:NE2	37:BC:205:ALA:HA	2.22	0.54
6:AF:7:ASN:OD1	6:AF:62:TRP:HD1	1.91	0.54
35:DA:648:G:H2'	35:DA:649:G:C8	2.43	0.54
19:CS:72:GLY:O	19:CS:74:PHE:N	2.41	0.54
1:AA:1080:A:H5''	5:AE:16:THR:HG21	1.89	0.54
5:CE:43:LEU:HD21	5:CE:132:ALA:HB1	1.89	0.54
35:DA:1358:G:O2'	35:DA:1359:A:H5''	2.08	0.54
58:BZ:126:VAL:HG23	58:BZ:127:LYS:N	2.23	0.54
35:BA:1287:A:H2'	35:BA:1287:A:N3	2.21	0.54
8:AH:31:PHE:O	8:AH:34:GLU:HB2	2.08	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:CM:94:ARG:NE	19:CS:82:GLY:N	2.56	0.54
46:DN:24:GLY:HA2	46:DN:27:ALA:HB3	1.90	0.54
38:BD:5:LYS:HD2	38:BD:17:THR:HG22	1.89	0.54
24:AY:662:LYS:HZ2	42:BH:175:LYS:CG	2.21	0.53
41:BG:119:GLY:HA3	41:BG:181:ARG:N	2.23	0.53
10:AJ:78:ASN:C	10:AJ:79:ARG:HH11	2.11	0.53
24:CY:679:VAL:O	24:CY:681:LYS:N	2.41	0.53
4:AD:31:CYS:O	4:AD:32:ALA:HB3	2.08	0.53
53:BU:113:ALA:C	53:BU:115:ALA:N	2.61	0.53
53:BU:61:TRP:HB3	53:BU:93:LYS:HB3	1.89	0.53
31:B6:9:LEU:O	31:B6:9:LEU:HD22	2.08	0.53
30:B5:7:PRO:HA	35:BA:2615:U:C2	2.43	0.53
31:D6:15:GLU:CD	31:D6:44:ARG:NH2	2.62	0.53
3:CC:59:ARG:HD3	3:CC:64:VAL:HG22	1.90	0.53
50:BR:55:ALA:HB2	50:BR:79:LEU:HD11	1.90	0.53
8:CH:103:VAL:HG21	8:CH:110:ALA:HB2	1.90	0.53
48:BP:16:ARG:O	48:BP:18:ARG:N	2.41	0.53
26:B1:56:GLN:HA	26:B1:56:GLN:NE2	2.18	0.53
35:DA:650:C:C3'	35:DA:651:G:H5''	2.37	0.53
1:AA:781:A:H4'	1:AA:1522:U:O2'	2.09	0.53
48:BP:101:VAL:HA	48:BP:107:LYS:H	1.73	0.53
1:AA:255:G:O6	1:AA:266:G:O6	2.25	0.53
40:DF:81:PRO:O	40:DF:83:PHE:N	2.41	0.53
41:DG:34:LEU:HD11	41:DG:100:TRP:CH2	2.43	0.53
2:AB:86:GLU:C	2:AB:88:ALA:H	2.10	0.53
34:B9:22:ARG:NH2	35:BA:2741:A:OP1	2.42	0.53
1:CA:737:A:H2'	1:CA:738:C:H6	1.73	0.53
52:BT:11:GLU:O	52:BT:13:ARG:N	2.36	0.53
42:BH:46:GLU:HG3	42:BH:51:ARG:HB2	1.89	0.53
13:CM:66:LEU:O	13:CM:70:LEU:HB3	2.08	0.53
27:D2:35:LEU:HD12	27:D2:53:LEU:HD12	1.89	0.53
35:DA:1252:G:N3	53:DU:33:ARG:HD2	2.22	0.53
25:B0:40:GLN:NE2	25:B0:43:THR:CA	2.70	0.53
27:B2:48:HIS:ND1	35:BA:95:G:O2'	2.40	0.53
9:CI:84:ALA:C	9:CI:86:VAL:H	2.11	0.53
1:AA:363:A:OP2	12:AL:33:ARG:HD3	2.08	0.53
40:BF:113:ALA:HB1	40:BF:186:ILE:CG2	2.37	0.53
35:DA:2076:U:H5'	35:DA:2238:G:N2	2.21	0.53
3:AC:5:ILE:HD13	3:AC:5:ILE:O	2.08	0.53
35:BA:1107:G:OP1	43:BJ:59:UNK:N	2.41	0.53
1:AA:1312:G:O2'	1:AA:1313:U:H5'	2.08	0.53
1:CA:1307:U:H2'	1:CA:1308:U:C6	2.43	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:816:C:O2'	35:DA:817:C:H5'	2.08	0.53
35:DA:284:U:H2'	35:DA:285:C:C6	2.41	0.53
24:CY:600:VAL:O	24:CY:600:VAL:HG13	2.08	0.53
36:BB:61:G:O2'	36:BB:62:C:H5'	2.08	0.53
38:BD:218:ARG:HG3	38:BD:218:ARG:HH11	1.73	0.53
24:AY:498:ILE:HG22	24:AY:507:TYR:CD2	2.43	0.53
11:AK:108:ILE:CD1	11:AK:108:ILE:N	2.68	0.53
48:DP:122:PRO:O	48:DP:123:LEU:HB3	2.08	0.53
43:DJ:20:UNK:CB	43:DJ:88:UNK:O	2.56	0.53
16:CP:43:LYS:HA	16:CP:48:TRP:CB	2.37	0.53
35:BA:710:G:H2'	35:BA:711:G:C8	2.43	0.53
13:AM:80:ARG:O	13:AM:83:ASP:HB3	2.08	0.53
35:DA:1063:G:O2'	44:DK:87:GLY:HA3	2.07	0.53
35:DA:1291:C:H2'	35:DA:1292:U:C6	2.43	0.53
35:BA:1050:A:C5	35:BA:1051:G:H1'	2.44	0.53
56:BX:18:TYR:O	56:BX:20:GLY:N	2.41	0.53
35:DA:1092:C:H2'	35:DA:1093:G:H8	1.72	0.53
19:AS:62:ILE:HG13	19:AS:62:ILE:O	2.08	0.53
38:BD:209:ALA:C	38:BD:210:GLY:O	2.44	0.53
38:BD:210:GLY:O	38:BD:212:SER:N	2.39	0.53
35:BA:610:G:H22	35:BA:619:G:H1'	1.73	0.53
19:AS:53:ASN:C	19:AS:55:LYS:H	2.11	0.53
35:DA:1305:C:O2'	35:DA:1306:C:H5'	2.08	0.53
27:B2:32:LEU:HG	27:B2:53:LEU:HD13	1.90	0.53
49:BQ:116:GLU:O	49:BQ:120:ILE:HG12	2.08	0.53
15:CO:64:ARG:HH11	15:CO:64:ARG:HG3	1.73	0.53
54:BV:66:ARG:CZ	54:BV:88:ARG:HH21	2.21	0.53
1:AA:1516:G:H2'	1:AA:1518:A:OP2	2.08	0.53
41:BG:46:ALA:HB2	41:BG:88:ILE:HG12	1.90	0.53
10:AJ:4:ILE:HB	10:AJ:74:ILE:HD11	1.89	0.53
24:CY:601:ILE:HD12	24:CY:684:GLN:HG3	1.90	0.53
24:CY:142:THR:O	24:CY:144:ALA:N	2.40	0.53
30:B5:19:ARG:HD2	35:BA:1266:G:OP1	2.08	0.53
24:AY:213:HIS:O	24:AY:217:VAL:HG23	2.08	0.53
24:AY:227:ILE:HG12	24:AY:237:PRO:HB3	1.90	0.53
9:CI:4:TYR:CE2	9:CI:88:TYR:CB	2.91	0.53
22:AW:8:U:H1'	22:AW:49:C:H1'	1.90	0.53
56:DX:27:THR:CB	56:DX:80:ILE:HG22	2.36	0.53
31:B6:7:ILE:O	31:B6:27:LYS:HD3	2.08	0.53
57:DY:73:ARG:O	57:DY:74:PRO:O	2.26	0.53
2:CB:163:PHE:CD2	2:CB:185:ILE:HG13	2.42	0.53
40:DF:176:LEU:HG	40:DF:177:ALA:O	2.08	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
51:BS:14:VAL:O	51:BS:15:ARG:C	2.46	0.53
48:DP:64:LYS:C	48:DP:66:GLY:H	2.10	0.53
57:BY:86:ARG:HB3	57:BY:88:LYS:HZ1	1.72	0.53
58:DZ:145:GLU:C	58:DZ:147:GLY:N	2.53	0.53
48:DP:98:GLU:O	48:DP:101:VAL:HG22	2.09	0.53
48:BP:85:LEU:CD2	48:BP:85:LEU:H	2.14	0.53
2:CB:17:PHE:O	2:CB:204:ASN:HB2	2.08	0.53
35:BA:2713:A:C3'	35:BA:2714:G:H5'	2.38	0.53
54:DV:19:LYS:NZ	54:DV:20:LEU:H	2.05	0.53
13:CM:78:ILE:CA	13:CM:81:LEU:HD23	2.38	0.53
6:AF:33:TYR:HA	6:AF:71:ARG:HH21	1.73	0.53
15:AO:17:ARG:HH11	15:AO:17:ARG:HG3	1.73	0.53
15:AO:76:GLU:C	15:AO:78:TYR:N	2.61	0.53
44:DK:29:GLN:O	44:DK:59:ILE:HD12	2.08	0.53
44:DK:5:VAL:HA	44:DK:59:ILE:CG2	2.37	0.53
52:DT:3:ARG:O	52:DT:4:GLY:C	2.44	0.53
26:D1:86:SER:HB3	26:D1:89:GLU:HB2	1.90	0.53
52:DT:10:VAL:O	52:DT:13:ARG:HG2	2.08	0.53
24:CY:14:ASN:HD22	24:CY:14:ASN:N	2.04	0.53
24:CY:131:PRO:CG	24:CY:281:PRO:HG3	2.34	0.53
9:CI:81:ILE:O	9:CI:85:LEU:HG	2.07	0.53
35:DA:881:G:C2'	35:DA:882:G:H5'	2.39	0.53
1:AA:1030:C:H2'	1:AA:1030(A):G:H5'	1.91	0.53
50:BR:11:ASN:O	50:BR:12:ARG:HB2	2.07	0.53
21:CU:3:LYS:HB3	21:CU:14:TRP:CD1	2.44	0.53
47:DO:105:GLU:O	47:DO:109:LYS:CG	2.56	0.53
32:B7:24:THR:C	32:B7:26:GLY:H	2.11	0.53
35:DA:588:U:H2'	35:DA:589:C:H6	1.72	0.53
35:DA:588:U:H2'	35:DA:589:C:C6	2.42	0.53
35:DA:653:A:H5'	35:DA:654:A:OP2	2.08	0.53
35:BA:528:A:C2	35:BA:2043:C:H5'	2.44	0.53
1:CA:628:G:O2'	1:CA:629:G:H5'	2.07	0.53
24:CY:416:LYS:CG	24:CY:417:THR:H	2.19	0.53
35:DA:2688:U:H2'	35:DA:2719:G:N2	2.23	0.53
1:AA:346:G:OP2	52:BT:41:ARG:CZ	2.56	0.53
24:CY:343:ASN:HD22	24:CY:344:THR:N	2.07	0.53
6:CF:80:ARG:NH1	6:CF:88:VAL:HB	2.23	0.53
47:BO:34:THR:O	47:BO:35:VAL:C	2.45	0.53
24:AY:637:ARG:HG3	24:AY:637:ARG:NH1	2.23	0.53
35:DA:710:G:H2'	35:DA:711:G:C8	2.43	0.53
52:DT:35:LYS:HZ3	52:DT:41:ARG:NH1	2.05	0.53
1:CA:1521:G:H2'	1:CA:1522:U:C6	2.43	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:55:G:H2'	35:DA:56:A:C8	2.43	0.53
1:CA:1208:C:H2'	1:CA:1209:C:H6	1.72	0.53
1:CA:1015:A:H2'	1:CA:1016:A:O4'	2.07	0.53
52:DT:98:LYS:HB3	52:DT:100:TYR:CE1	2.43	0.53
1:CA:950:U:H2'	1:CA:951:G:C8	2.43	0.53
7:CG:64:GLN:CG	7:CG:128:ALA:HB1	2.38	0.53
1:AA:956:U:O2'	1:AA:957:U:H5'	2.08	0.53
1:CA:1258:G:H2'	1:CA:1259:C:C6	2.43	0.53
1:AA:893:C:H2'	1:AA:894:G:H8	1.74	0.53
43:BJ:48:UNK:O	43:BJ:49:UNK:O	2.27	0.53
53:BU:104:GLN:HB3	54:BV:44:LYS:NZ	2.23	0.53
24:CY:524:GLU:HG2	24:CY:524:GLU:O	2.08	0.53
7:CG:84:ASN:N	7:CG:84:ASN:HD22	2.06	0.53
29:B4:10:VAL:CG2	29:B4:11:PRO:HD2	2.34	0.53
39:BE:119:ARG:HG2	39:BE:160:TYR:HB2	1.90	0.53
24:CY:453:GLY:HA2	24:CY:458:HIS:HD2	1.72	0.53
24:CY:84:THR:HG23	61:CY:702:FUA:H152	1.89	0.53
48:BP:9:ASN:H	48:BP:10:PRO:CD	2.21	0.53
54:BV:49:THR:O	54:BV:50:PRO:C	2.46	0.53
12:AL:36:VAL:HG11	24:AY:425:SER:HB3	1.90	0.53
35:DA:322:A:H3'	40:DF:169:ASN:ND2	2.23	0.53
35:BA:1505:C:C5	35:BA:1506:C:H1'	2.42	0.53
31:D6:27:LYS:HZ2	31:D6:30:THR:CB	2.21	0.53
48:DP:58:THR:O	48:DP:58:THR:HG22	2.09	0.53
41:DG:41:GLN:O	41:DG:43:LEU:N	2.35	0.53
57:BY:95:LYS:HE2	57:BY:101:LYS:H	1.74	0.53
35:BA:1826:G:H4'	38:BD:242:ARG:NH2	2.19	0.53
41:BG:133:LEU:HD12	41:BG:133:LEU:C	2.28	0.53
24:CY:13:ARG:NH2	24:CY:282:SER:HB2	2.24	0.53
36:BB:49:C:OP1	51:BS:96:GLY:HA3	2.07	0.53
48:DP:16:ARG:O	48:DP:18:ARG:N	2.40	0.53
27:D2:14:ARG:HG3	27:D2:14:ARG:HH11	1.73	0.53
2:CB:97:TRP:HH2	2:CB:176:GLU:CD	2.12	0.53
35:DA:2030:A:H4'	35:DA:2031:A:H8	1.72	0.53
35:DA:569:U:C4	35:DA:570:G:C6	2.96	0.53
35:BA:1803:A:O3'	38:BD:259:THR:CG2	2.51	0.53
2:AB:126:GLU:HA	2:AB:129:GLU:CD	2.27	0.53
2:AB:151:GLY:O	2:AB:152:PHE:C	2.47	0.53
35:DA:2206:G:C2	35:DA:2207:G:H5'	2.43	0.53
1:CA:973:G:H1'	10:CJ:55:LYS:HZ3	1.73	0.53
30:B5:50:GLY:HA2	30:B5:56:LYS:HB3	1.89	0.53
20:CT:26:ASN:HB3	20:CT:71:THR:OG1	2.08	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:AB:204:ASN:HD22	2:AB:206:ASP:H	1.51	0.53
2:AB:221:LEU:O	2:AB:221:LEU:HD13	2.09	0.53
57:DY:62:GLU:CG	57:DY:63:LYS:N	2.71	0.53
44:DK:4:VAL:HG12	44:DK:5:VAL:N	2.20	0.53
38:DD:183:ARG:HD2	38:DD:270:ILE:HG23	1.90	0.53
46:BN:87:LEU:O	46:BN:90:MET:N	2.41	0.53
40:BF:62:ARG:NH2	40:BF:64:ILE:HA	2.24	0.53
34:D9:31:LYS:HE2	35:DA:2478:A:H5'	1.90	0.53
42:BH:144:VAL:O	42:BH:148:ILE:HG12	2.08	0.53
35:BA:2118:U:OP1	35:BA:2148:G:H4'	2.08	0.53
3:CC:5:ILE:HD13	3:CC:5:ILE:N	2.23	0.53
35:BA:2873:A:H4'	50:BR:8:ARG:NH2	2.23	0.53
35:DA:799:G:OP2	35:DA:800:A:H3'	2.09	0.53
35:BA:528:A:H2	35:BA:2043:C:H5'	1.72	0.53
37:BC:139:PRO:HA	37:BC:145:THR:HB	1.90	0.53
7:CG:120:ILE:HG22	7:CG:124:LEU:CD1	2.36	0.53
6:AF:19:LEU:HD23	6:AF:19:LEU:C	2.28	0.53
1:CA:268:C:O2	1:CA:268:C:H2'	2.08	0.53
1:AA:1152:A:H5''	10:AJ:13:HIS:HD2	1.73	0.53
35:DA:826:U:H5''	35:DA:2428:G:O3'	2.08	0.53
35:DA:2749:A:N1	35:DA:2750:A:N6	2.57	0.53
35:DA:20:C:H2'	35:DA:21:A:H8	1.73	0.53
58:DZ:56:VAL:HG22	58:DZ:91:LEU:CD1	2.38	0.53
13:CM:11:ARG:HG2	13:CM:12:ASN:H	1.73	0.53
4:CD:187:ARG:NH2	4:CD:193:ASP:OD2	2.41	0.53
37:BC:213:VAL:CG1	37:BC:225:ILE:HD11	2.39	0.53
1:CA:1008:C:H2'	1:CA:1009:G:H8	1.72	0.53
35:BA:1151:G:H5''	53:BU:81:HIS:CE1	2.43	0.53
52:DT:60:THR:HG22	52:DT:77:PRO:HA	1.90	0.53
1:CA:423:G:H2'	1:CA:424:G:H5'	1.89	0.53
35:DA:1751:C:O2'	35:DA:1752:C:H5'	2.08	0.53
1:CA:1458:G:OP1	20:CT:35:THR:HG21	2.08	0.53
1:CA:189(K):U:H2'	1:CA:189(L):G:C8	2.43	0.53
35:DA:1713:U:O2'	35:DA:1714:G:H5'	2.08	0.53
11:CK:26:ASN:O	11:CK:27:ASN:HB2	2.06	0.53
1:AA:603:U:H2'	1:AA:604:G:C8	2.42	0.53
48:BP:75:ILE:N	48:BP:75:ILE:HD12	2.23	0.53
35:BA:1839:G:N3	35:BA:1839:G:H2'	2.24	0.53
11:AK:105:VAL:HG23	11:AK:105:VAL:O	2.09	0.53
39:BE:119:ARG:HD2	39:BE:120:TRP:NE1	2.24	0.53
56:BX:27:THR:CB	56:BX:80:ILE:HG22	2.36	0.53
35:BA:2012:G:H4'	55:BW:96:ILE:CD1	2.17	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:238:THR:HG23	24:AY:240:GLU:H	1.73	0.53
46:DN:9:VAL:HG12	46:DN:10:GLU:N	2.23	0.53
48:BP:25:SER:O	48:BP:30:THR:HG23	2.09	0.53
35:DA:272(H):C:H6	35:DA:272(H):C:C5'	2.17	0.53
51:DS:15:ARG:CB	51:DS:18:ILE:HD11	2.32	0.53
57:BY:15:VAL:O	57:BY:22:GLY:N	2.41	0.53
33:D8:7:HIS:HB2	33:D8:59:LYS:HB3	1.89	0.53
29:D4:10:VAL:N	29:D4:26:SER:O	2.41	0.53
58:BZ:152:ALA:HB3	58:BZ:154:ASP:OD2	2.09	0.53
57:BY:77:PRO:O	57:BY:78:ALA:HB2	2.08	0.53
1:CA:1004:A:H5'	1:CA:1025:U:N3	2.22	0.53
24:CY:135:PHE:CD1	24:CY:272:LEU:HD22	2.42	0.53
31:B6:13:CYS:HB3	31:B6:49:HIS:HB3	1.90	0.53
35:BA:2346:A:H1'	35:BA:2383:G:N9	2.24	0.53
51:BS:106:ARG:O	51:BS:107:GLU:CB	2.56	0.53
18:AR:37:VAL:C	18:AR:39:VAL:H	2.11	0.53
35:BA:514:A:H2'	35:BA:515:A:H8	1.73	0.53
35:BA:1799:G:H8	38:BD:181:GLU:OE1	1.92	0.53
1:AA:1321:C:C5'	1:AA:1322:C:H5''	2.38	0.53
35:BA:650:C:C3'	35:BA:651:G:H5''	2.38	0.53
2:CB:209:ARG:NH1	2:CB:239:VAL:HG11	2.23	0.53
12:CL:70:ILE:CG2	12:CL:100:ILE:HD12	2.38	0.53
35:DA:359:A:H2'	35:DA:360:G:O4'	2.08	0.53
46:DN:23:LEU:CB	46:DN:60:ILE:HG21	2.37	0.53
27:B2:41:ILE:CD1	27:B2:44:LEU:HD12	2.33	0.53
54:BV:61:VAL:HG22	54:BV:63:GLY:H	1.74	0.53
13:AM:81:LEU:HB3	13:AM:89:GLY:HA2	1.89	0.53
58:DZ:163:LEU:HD23	58:DZ:163:LEU:N	2.20	0.53
13:CM:97:PRO:HA	13:CM:110:ARG:CD	2.33	0.53
47:DO:22:ILE:HG12	47:DO:41:ALA:HA	1.90	0.53
42:BH:84:SER:OG	42:BH:85:LYS:N	2.40	0.53
24:AY:486:THR:HG23	24:AY:600:VAL:CG1	2.38	0.53
52:BT:50:ILE:HA	52:BT:99:LEU:CD1	2.39	0.53
1:AA:624:C:H4'	16:AP:10:GLY:C	2.29	0.53
39:DE:2:LYS:HD3	39:DE:95:ILE:HG22	1.90	0.53
1:CA:1118:C:H1'	1:CA:1179:A:C4	2.42	0.53
24:CY:103:GLY:O	24:CY:104:ALA:CB	2.55	0.53
14:CN:37:PHE:CE1	14:CN:53:LEU:HD22	2.43	0.53
28:D3:45:GLY:HA3	35:DA:851:U:O2'	2.08	0.53
22:AW:53:G:H2'	22:AW:54:G:H8	1.74	0.53
35:BA:848:G:H5''	35:BA:928:G:H22	1.72	0.53
27:D2:40:SER:C	27:D2:42:GLY:N	2.62	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:221:A:H4'	35:DA:222:A:O5'	2.07	0.53
35:BA:1791:A:C6	35:BA:1829:A:H5'	2.43	0.53
46:BN:17:ASP:OD1	46:BN:56:ASN:HB3	2.08	0.53
35:DA:492:A:H2'	35:DA:493:G:H5'	1.90	0.53
51:DS:40:ILE:CG2	51:DS:41:ASP:N	2.72	0.53
35:DA:2347:C:H2'	35:DA:2348:U:C5	2.43	0.53
38:BD:39:LYS:HZ2	38:BD:87:ASN:HB3	1.73	0.53
4:AD:122:ARG:NH1	4:AD:134:ASP:HB2	2.23	0.53
12:AL:23:LYS:HE3	12:AL:89:ARG:HE	1.73	0.53
4:CD:192:GLU:O	4:CD:193:ASP:C	2.46	0.53
24:CY:439:ARG:O	24:CY:452:SER:HB3	2.08	0.53
35:DA:467:G:O2'	35:DA:468:G:H5'	2.09	0.53
1:AA:818:G:O2'	1:AA:819:A:H5'	2.09	0.53
35:DA:67:U:H2'	35:DA:68:G:C8	2.43	0.53
35:BA:1355:G:O2'	35:BA:1356:G:H5'	2.08	0.53
24:CY:483:TYR:O	24:CY:558:PHE:HB3	2.08	0.53
37:BC:76:LEU:HD21	37:BC:104:ILE:HD11	1.91	0.53
55:BW:12:ILE:HG13	55:BW:42:ARG:NH1	2.23	0.53
6:CF:22:GLU:O	6:CF:26:ILE:HG13	2.07	0.53
35:BA:600:G:H2'	35:BA:601:C:C6	2.44	0.53
35:DA:902:C:H2'	35:DA:903:C:C6	2.44	0.53
40:BF:25:PRO:HB2	40:BF:119:ARG:HD3	1.89	0.53
46:BN:1:MET:HE2	46:BN:2:LYS:N	2.24	0.53
53:BU:49:HIS:C	53:BU:52:ARG:HB2	2.29	0.53
57:DY:38:ILE:HG23	57:DY:39:VAL:N	2.24	0.53
57:DY:77:PRO:O	57:DY:78:ALA:HB2	2.09	0.53
58:BZ:89:PHE:HE1	58:BZ:96:VAL:HG21	1.73	0.53
41:DG:63:ILE:HG21	41:DG:141:PHE:CD2	2.44	0.53
47:DO:60:ALA:C	47:DO:87:ILE:HD11	2.29	0.53
51:BS:89:ARG:NH1	51:BS:89:ARG:HG2	2.24	0.53
31:D6:15:GLU:OE1	31:D6:44:ARG:NH2	2.42	0.53
31:D6:45:LYS:HG2	35:DA:2371:G:C5'	2.39	0.53
3:CC:154:SER:OG	3:CC:155:GLY:N	2.41	0.53
35:BA:1596:A:O2'	35:BA:1597:A:H5'	2.08	0.53
35:DA:1803:A:O3'	38:DD:259:THR:CG2	2.48	0.53
3:AC:59:ARG:HD3	3:AC:64:VAL:HG22	1.90	0.53
48:DP:85:LEU:CD2	48:DP:85:LEU:H	2.15	0.53
48:BP:112:LEU:H	48:BP:128:HIS:CD2	2.26	0.53
39:DE:34:VAL:HG11	39:DE:78:LEU:CD2	2.38	0.53
35:DA:1599:C:H2'	35:DA:1600:C:C6	2.41	0.53
52:BT:117:ASP:OD2	52:BT:120:ARG:HG3	2.08	0.53
35:DA:2189:U:C3'	35:DA:2190:G:H5''	2.39	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:D2:4:SER:O	27:D2:6:VAL:N	2.42	0.53
1:AA:1324:A:H2'	1:AA:1325:C:H6	1.71	0.53
26:B1:3:LYS:HE3	35:BA:1364:G:C8	2.43	0.53
42:DH:44:VAL:HG12	42:DH:45:VAL:H	1.74	0.53
4:CD:196:LEU:C	4:CD:198:VAL:H	2.12	0.53
35:DA:8:A:H2'	35:DA:9:U:C5	2.43	0.53
58:BZ:86:VAL:HG12	58:BZ:87:ASP:N	2.19	0.53
9:CI:69:GLY:O	9:CI:73:GLN:HG3	2.08	0.53
35:BA:558:G:H5'	46:BN:112:LEU:HD22	1.90	0.53
35:DA:1052:C:H6	35:DA:1052:C:H3'	1.74	0.53
35:DA:1107:G:OP1	43:DJ:58:UNK:HA	2.08	0.53
1:CA:275:G:H2'	1:CA:276:G:H8	1.73	0.53
24:CY:298:VAL:HG22	24:CY:299:VAL:N	2.23	0.53
42:BH:149:ARG:HA	42:BH:162:ILE:HG13	1.91	0.53
24:CY:18:ALA:O	24:CY:19:ALA:HB2	2.09	0.53
24:AY:228:MET:O	24:AY:232:LEU:HD23	2.09	0.53
36:BB:68:C:O2'	36:BB:69:G:H5'	2.09	0.53
35:BA:363(E):U:O2'	35:BA:363(F):A:O4'	2.26	0.53
49:BQ:62:GLY:HA2	58:BZ:116:VAL:CG2	2.38	0.53
10:CJ:20:ALA:C	10:CJ:22:LYS:N	2.61	0.53
35:DA:1173:G:H5'	35:DA:1174:A:O5'	2.08	0.53
56:DX:44:GLU:HB2	56:DX:49:VAL:O	2.08	0.53
1:AA:998:G:H2'	1:AA:999:C:N1	2.24	0.53
48:BP:108:LYS:N	48:BP:108:LYS:HD2	2.23	0.53
26:D1:30:VAL:N	35:DA:2396:G:H4'	2.24	0.53
20:AT:73:HIS:O	20:AT:74:LYS:C	2.47	0.53
1:CA:1329:A:O2'	1:CA:1330:U:H5'	2.09	0.53
1:CA:265:G:H2'	1:CA:267:C:H5	1.73	0.53
38:DD:13:ARG:NH1	38:DD:16:MET:SD	2.82	0.53
18:AR:44:LEU:O	18:AR:45:SER:O	2.27	0.53
35:DA:1887:C:C3'	35:DA:1888:G:H5''	2.38	0.53
1:AA:1258:G:H2'	1:AA:1259:C:C6	2.44	0.53
6:AF:60:PHE:C	6:AF:61:LEU:HD12	2.28	0.53
35:DA:402:A:C2'	35:DA:403:U:H5'	2.39	0.53
22:CV:74:C:H2'	22:CV:75:C:H5'	1.90	0.53
35:DA:503:A:H4'	35:DA:504:U:C5'	2.38	0.53
35:BA:2861:G:H2'	35:BA:2862:G:H8	1.73	0.53
1:AA:306:G:O2'	1:AA:307:C:H5'	2.08	0.53
35:BA:852:G:H2'	35:BA:853:G:H8	1.73	0.53
35:DA:2113:U:H2'	35:DA:2114:A:H8	1.73	0.53
5:AE:41:VAL:HG13	5:AE:113:ALA:HA	1.89	0.53
22:CV:23:C:H2'	22:CV:24:U:H6	1.74	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
45:DM:15:UNK:C	45:DM:17:UNK:N	3.29	0.53
42:DH:77:LYS:HA	42:DH:80:SER:OG	2.09	0.53
16:AP:2:VAL:O	16:AP:2:VAL:HG22	2.09	0.53
48:DP:75:ILE:HD12	48:DP:75:ILE:N	2.23	0.53
24:AY:186:TYR:HA	24:AY:198:GLU:HA	1.90	0.53
40:DF:25:PRO:CB	40:DF:119:ARG:HD3	2.38	0.53
10:AJ:3:LYS:HZ3	10:AJ:77:PRO:HD2	1.74	0.53
58:DZ:168:GLU:O	58:DZ:169:GLU:C	2.47	0.53
40:DF:154:VAL:HG11	40:DF:193:VAL:CG2	2.38	0.53
24:CY:35:TYR:CE1	24:CY:269:VAL:HB	2.44	0.53
31:B6:13:CYS:HA	31:B6:50:ARG:O	2.09	0.53
3:CC:95:THR:O	3:CC:97:LYS:N	2.41	0.53
2:CB:98:LEU:O	2:CB:101:MET:HB2	2.08	0.53
10:CJ:54:PHE:CD2	10:CJ:55:LYS:HE3	2.44	0.53
35:BA:1141:U:H5''	46:BN:63:THR:CG2	2.39	0.53
26:B1:76:ARG:HH22	26:B1:95:LEU:CG	2.21	0.53
10:AJ:51:ARG:H	10:AJ:60:ARG:HA	1.74	0.53
35:BA:674:G:H2'	35:BA:804:A:H61	1.74	0.53
19:CS:41:VAL:O	19:CS:43:GLU:N	2.41	0.53
15:CO:76:GLU:C	15:CO:78:TYR:N	2.61	0.53
52:BT:64:ARG:HG2	52:BT:64:ARG:HH11	1.73	0.53
29:B4:22:ILE:N	29:B4:22:ILE:HD12	2.23	0.53
35:BA:797:C:H2'	35:BA:798:G:H8	1.74	0.53
38:BD:26:LYS:CA	38:BD:26:LYS:HE2	2.38	0.53
9:AI:84:ALA:C	9:AI:86:VAL:H	2.12	0.53
1:CA:439:A:H2'	1:CA:441:A:H5'	1.91	0.53
39:BE:3:GLY:HA3	39:BE:81:ILE:HD12	1.90	0.53
35:DA:1050:A:C5	35:DA:1051:G:H1'	2.44	0.53
9:AI:104:ARG:O	9:AI:105:ASP:CB	2.57	0.53
35:BA:284:U:H2'	35:BA:285:C:C6	2.43	0.53
1:CA:1030(D):A:C2'	1:CA:1031:G:H5'	2.37	0.53
32:D7:24:THR:C	32:D7:26:GLY:H	2.11	0.53
28:D3:15:TYR:HD2	28:D3:19:GLN:HE22	1.54	0.53
35:BA:2224:G:H4'	35:BA:2226:C:C2	2.43	0.53
35:DA:482:A:H4'	57:DY:47:LYS:HG2	1.90	0.53
24:AY:609:GLU:HB2	24:AY:670:VAL:HG22	1.91	0.53
3:CC:138:VAL:O	3:CC:139:GLN:C	2.47	0.53
24:CY:296:GLY:O	24:CY:297:GLU:CB	2.56	0.53
38:BD:148:GLU:HB2	38:BD:151:LYS:CD	2.38	0.53
35:DA:1168:G:H2'	35:DA:1169:G:H8	1.74	0.53
35:DA:1197:G:H2'	35:DA:1198:U:H6	1.72	0.53
35:DA:2870:C:H2'	35:DA:2871:C:O4'	2.08	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:411:VAL:HG12	24:AY:412:ALA:N	2.22	0.53
22:AV:49:G:H1	22:AV:65:C:H42	1.55	0.53
1:CA:867:G:O2'	1:CA:868:C:H5'	2.09	0.53
35:BA:402:A:C2'	35:BA:403:U:H5'	2.38	0.53
1:AA:10:A:H2'	1:AA:11:G:H8	1.73	0.53
41:BG:111:LEU:HA	41:BG:114:ILE:HD12	1.89	0.53
4:AD:17:VAL:O	4:AD:18:LYS:O	2.26	0.53
24:CY:85:PRO:C	24:CY:87:HIS:H	2.11	0.53
24:CY:85:PRO:HA	24:CY:94:VAL:HG13	1.91	0.53
24:AY:164:MET:O	24:AY:165:GLN:HG2	2.09	0.53
24:AY:177:ILE:O	24:AY:178:ILE:HD12	2.08	0.53
1:CA:1144:G:N2	1:CA:1146:A:H62	2.07	0.53
54:BV:52:VAL:HG13	54:BV:52:VAL:O	2.08	0.53
35:DA:1568:G:OP2	38:DD:63:ARG:NH2	2.36	0.53
40:DF:124:LEU:HD22	40:DF:191:ARG:HH21	1.72	0.53
10:CJ:78:ASN:O	10:CJ:82:ILE:HG12	2.08	0.53
3:CC:73:PRO:O	3:CC:76:VAL:HG22	2.09	0.53
40:DF:127:GLU:HB2	40:DF:196:LEU:HD11	1.91	0.53
31:B6:42:TRP:CE3	31:B6:42:TRP:HA	2.44	0.53
5:CE:135:THR:O	5:CE:138:ALA:HB3	2.07	0.53
25:B0:27:GLU:HG3	25:B0:68:GLU:HA	1.91	0.53
35:DA:2470:G:C6	35:DA:2471:C:C5	2.96	0.53
49:DQ:110:THR:HG22	49:DQ:113:GLN:OE1	2.09	0.53
27:B2:3:LEU:HD12	35:BA:98:G:H5''	1.90	0.53
35:DA:948:G:H1	35:DA:969:U:H3	1.57	0.53
51:DS:36:TYR:O	51:DS:37:ALA:HB2	2.07	0.53
6:AF:37:VAL:O	6:AF:38:GLU:HG3	2.08	0.53
35:DA:281:G:N2	35:DA:358:U:C5	2.77	0.53
51:DS:25:ARG:HG3	51:DS:26:LEU:H	1.74	0.53
51:DS:70:GLY:C	51:DS:72:ALA:H	2.10	0.53
10:AJ:54:PHE:CD2	10:AJ:55:LYS:HE3	2.44	0.53
29:D4:19:GLY:O	29:D4:21:VAL:HG23	2.08	0.53
58:DZ:20:ARG:HH11	58:DZ:20:ARG:CB	2.15	0.53
3:AC:77:ILE:HA	3:AC:84:ILE:HB	1.90	0.53
35:DA:2820:A:O2'	35:DA:2821:A:OP1	2.25	0.53
35:BA:2067:G:H1	35:BA:2443:C:H42	1.57	0.53
24:AY:331:TYR:O	24:AY:371:ALA:HB1	2.08	0.53
47:BO:22:ILE:HG12	47:BO:41:ALA:HA	1.90	0.53
38:BD:161:THR:O	38:BD:196:VAL:HG23	2.07	0.53
24:CY:512:ILE:N	24:CY:512:ILE:HD13	2.23	0.53
4:AD:187:ARG:NH2	4:AD:193:ASP:OD2	2.41	0.53
29:B4:16:CYS:SG	29:B4:17:GLY:N	2.81	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:CY:31:ARG:HD2	24:CY:266:ASN:OD1	2.08	0.53
35:BA:1517:G:H5'	35:BA:1517:G:C8	2.37	0.53
1:AA:631:G:C2'	1:AA:632:A:C8	2.92	0.53
16:AP:25:ARG:NH1	16:AP:25:ARG:HG3	2.20	0.53
1:AA:275:G:H2'	1:AA:276:G:H8	1.74	0.53
36:BB:68:C:H2'	36:BB:69:G:O4'	2.08	0.53
24:AY:684:GLN:O	24:AY:688:ILE:HD13	2.09	0.53
35:BA:687:C:H2'	35:BA:688:U:O4'	2.09	0.53
35:BA:2688:U:H2'	35:BA:2719:G:N2	2.23	0.53
1:CA:261:U:O2	1:CA:263:A:C8	2.62	0.53
1:CA:936:C:O2'	1:CA:937:A:H5'	2.07	0.53
35:BA:2750:A:H2'	35:BA:2752:C:N4	2.24	0.53
35:DA:2026:C:N3	35:DA:2027:G:C8	2.77	0.53
35:BA:1225:G:H2'	35:BA:1226:A:C8	2.43	0.53
1:AA:977:A:C2'	1:AA:978:A:H5'	2.39	0.53
38:DD:108:PRO:HB3	38:DD:143:HIS:CE1	2.44	0.53
38:DD:112:GLN:H	38:DD:115:GLN:NE2	2.06	0.53
1:AA:865:A:H5'	1:AA:1078:U:O4	2.09	0.53
35:DA:1635:G:H2'	35:DA:1636:C:C6	2.43	0.53
19:AS:16:LEU:N	19:AS:16:LEU:HD12	2.24	0.53
44:DK:132:ARG:HH11	44:DK:132:ARG:HG3	1.72	0.53
1:AA:407:G:H2'	1:AA:408:A:H8	1.73	0.53
35:BA:902:C:H2'	35:BA:903:C:C6	2.43	0.53
40:BF:28:ILE:HG21	40:BF:116:ASP:HB2	1.90	0.53
16:AP:20:VAL:HG23	16:AP:34:GLU:O	2.08	0.53
35:DA:2539:C:H2'	35:DA:2539:C:O2	2.09	0.53
54:BV:47:VAL:O	54:BV:49:THR:O	2.27	0.53
31:B6:5:VAL:CG1	31:B6:6:ARG:N	2.71	0.53
31:B6:9:LEU:CD2	31:B6:26:ASN:HD22	2.21	0.53
35:BA:2394:C:P	48:BP:63:PRO:HD2	2.49	0.53
48:DP:48:PRO:O	48:DP:50:ARG:N	2.42	0.53
47:BO:64:ARG:NE	52:BT:70:VAL:HG21	2.23	0.53
30:D5:3:LYS:HD2	30:D5:5:PRO:CD	2.37	0.53
1:CA:1239:A:C2'	1:CA:1298:C:N4	2.72	0.53
58:BZ:4:ARG:O	58:BZ:5:LEU:HB2	2.07	0.53
31:B6:37:ARG:O	31:B6:48:VAL:O	2.26	0.53
31:D6:15:GLU:HB2	31:D6:49:HIS:CE1	2.44	0.53
58:DZ:109:ALA:HB3	58:DZ:145:GLU:HA	1.90	0.53
35:BA:271(H):G:H1	35:BA:271(P):C:H42	1.57	0.53
2:CB:55:PHE:HA	2:CB:58:ILE:HD12	1.90	0.53
35:BA:2888:C:H2'	35:BA:2889:C:H6	1.74	0.53
39:BE:55:ASN:O	39:BE:57:LYS:N	2.36	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2811:G:O2'	35:DA:2812:G:H5'	2.09	0.53
1:CA:1442:G:C6	1:CA:1442(B):A:C2	2.90	0.53
37:DC:88:GLU:HA	37:DC:95:VAL:HG21	1.91	0.53
35:DA:1826:G:H4'	38:DD:242:ARG:NH2	2.15	0.53
50:DR:9:LYS:O	50:DR:10:LEU:CD2	2.57	0.53
46:BN:94:HIS:N	46:BN:95:PRO:CD	2.72	0.53
24:CY:14:ASN:ND2	24:CY:14:ASN:N	2.55	0.53
12:AL:46:LYS:HB2	12:AL:92:ASP:O	2.09	0.53
38:BD:27:THR:O	38:BD:27:THR:HG23	2.07	0.53
38:DD:142:VAL:HG23	38:DD:192:THR:C	2.29	0.53
1:AA:1307:U:H2'	1:AA:1308:U:C6	2.44	0.53
35:DA:363(E):U:O2'	35:DA:363(F):A:O4'	2.27	0.53
35:BA:1052:C:H3'	35:BA:1052:C:H6	1.73	0.53
24:CY:15:ILE:O	24:CY:15:ILE:HD12	2.08	0.53
7:AG:146:GLU:HA	7:AG:149:ARG:HB2	1.90	0.53
36:DB:16:G:N2	36:DB:69:G:H1'	2.24	0.53
1:AA:353:A:H5'	1:AA:353:A:C8	2.41	0.53
24:AY:606:MET:HE3	24:AY:671:MET:HG2	1.91	0.53
35:DA:1791:A:C6	35:DA:1829:A:H5'	2.44	0.53
1:AA:1378:C:O2	7:AG:76:ARG:NH2	2.42	0.53
51:DS:17:ARG:HA	51:DS:20:ARG:NH1	2.24	0.53
1:CA:375:U:H4'	16:CP:17:TYR:CE2	2.44	0.53
1:AA:538:G:O2'	1:AA:539:A:H5'	2.08	0.53
4:CD:122:ARG:NH1	4:CD:134:ASP:HB2	2.24	0.53
1:AA:164:U:H2'	1:AA:165:C:H6	1.73	0.53
35:BA:267:C:H2'	35:BA:268:C:C6	2.44	0.53
18:AR:44:LEU:HD22	18:AR:79:LEU:HD22	1.91	0.53
33:B8:29:LYS:HD2	33:B8:44:LYS:HG2	1.91	0.53
42:BH:68:THR:O	42:BH:70:THR:N	2.42	0.53
34:D9:22:ARG:NH2	35:DA:2741:A:OP1	2.42	0.53
35:DA:1097:U:H2'	35:DA:1098:A:H5'	1.91	0.53
35:BA:2647:U:H2'	35:BA:2648:C:H6	1.74	0.53
7:AG:38:LEU:O	7:AG:42:ILE:HG13	2.08	0.53
55:BW:40:ASN:O	55:BW:41:LYS:HG2	2.09	0.53
1:CA:961:U:OP2	1:CA:1223:C:H4'	2.09	0.53
6:AF:60:PHE:O	6:AF:61:LEU:HD12	2.08	0.53
26:D1:18:ILE:HG21	26:D1:20:ARG:NE	2.23	0.53
45:DL:65:UNK:O	45:DL:66:UNK:C	2.56	0.53
11:AK:26:ASN:O	11:AK:27:ASN:HB2	2.09	0.53
7:CG:43:PHE:O	7:CG:46:ALA:HB3	2.09	0.53
35:BA:2681:C:H5	35:BA:2725:A:H62	1.57	0.53
25:B0:46:LYS:O	25:B0:78:TYR:HA	2.08	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:CH:64:LYS:HD2	8:CH:79:VAL:HG21	1.91	0.53
44:BK:74:ALA:HB2	44:BK:111:LYS:HE2	1.91	0.53
7:AG:84:ASN:HD22	7:AG:84:ASN:N	2.07	0.53
11:AK:20:TYR:HB2	11:AK:31:THR:HG22	1.91	0.53
42:BH:97:ARG:O	42:BH:98:LEU:C	2.48	0.53
35:DA:1047:G:HO2'	35:DA:1110:G:N2	2.07	0.53
35:DA:2051:A:H4'	39:DE:141:ILE:HD13	1.91	0.53
9:CI:3:GLN:NE2	9:CI:20:ARG:NH2	2.56	0.53
54:DV:47:VAL:O	54:DV:49:THR:O	2.26	0.53
22:AW:69:C:O2'	22:AW:70:C:O4'	2.22	0.53
33:B8:7:HIS:HB2	33:B8:59:LYS:HB3	1.89	0.53
35:BA:665:C:H2'	35:BA:666:G:H8	1.74	0.53
57:DY:86:ARG:H	57:DY:88:LYS:NZ	2.07	0.53
35:DA:272(I):U:C4	35:DA:363(A):A:N1	2.75	0.53
35:BA:84:A:C5'	57:BY:9:LYS:HZ2	2.19	0.53
31:D6:10:LEU:HD12	33:D8:34:TRP:HB2	1.89	0.53
31:D6:31:PRO:O	31:D6:32:ASN:OD1	2.27	0.53
33:D8:13:ARG:HB3	48:DP:63:PRO:HB3	1.90	0.53
41:DG:111:LEU:HA	41:DG:114:ILE:CD1	2.38	0.53
41:DG:41:GLN:C	41:DG:43:LEU:H	2.10	0.53
1:CA:1300:G:O2'	1:CA:1301:U:P	2.67	0.53
40:BF:7:TYR:OH	40:BF:10:PRO:HG3	2.09	0.53
53:BU:12:ARG:HB3	53:BU:16:LYS:HE3	1.91	0.53
28:D3:31:LEU:O	28:D3:32:GLN:HB2	2.09	0.53
35:BA:1858:G:HO2'	35:BA:1859:A:H8	1.55	0.53
2:CB:207:ALA:O	2:CB:211:ILE:HG13	2.09	0.53
35:DA:1819:A:H1'	35:DA:1821:A:C6	2.44	0.53
35:DA:1821:A:H2'	35:DA:1822:G:H8	1.74	0.53
41:DG:133:LEU:O	41:DG:157:ILE:HB	2.09	0.53
58:DZ:17:ALA:HA	58:DZ:20:ARG:CG	2.38	0.53
2:AB:51:LEU:HD21	2:AB:201:ILE:HG23	1.91	0.53
2:AB:55:PHE:HA	2:AB:58:ILE:HD12	1.89	0.53
5:AE:11:ILE:HG13	5:AE:33:VAL:HG23	1.91	0.53
5:CE:64:ARG:NH1	5:CE:64:ARG:CG	2.71	0.53
35:DA:271(H):G:H1	35:DA:271(P):C:H42	1.56	0.53
42:DH:144:VAL:O	42:DH:148:ILE:HG12	2.08	0.53
4:CD:107:ARG:HH21	4:CD:194:LEU:HD12	1.74	0.53
1:CA:1510:U:H2'	1:CA:1511:G:C8	2.43	0.53
35:DA:1336:A:H2'	35:DA:1337:G:H8	1.74	0.53
12:AL:6:THR:OG1	12:AL:9:GLN:HG3	2.09	0.53
39:BE:2:LYS:HD3	39:BE:95:ILE:HG22	1.91	0.53
42:DH:159:GLU:O	42:DH:160:LYS:O	2.26	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1115:C:H2'	1:CA:1116:C:H6	1.74	0.53
1:CA:624:C:O2'	1:CA:625:G:H5'	2.09	0.53
16:AP:75:ARG:O	16:AP:78:GLY:N	2.41	0.53
35:BA:1276:A:H1'	50:BR:16:HIS:HE1	1.74	0.53
15:CO:11:VAL:O	15:CO:12:ILE:C	2.48	0.53
35:BA:569:U:C4	35:BA:570:G:C6	2.97	0.53
24:AY:607:ARG:O	24:AY:671:MET:HA	2.09	0.53
36:BB:94:C:H2'	36:BB:95:C:C6	2.44	0.53
42:BH:127:GLU:HB3	42:BH:128:PRO:HD2	1.91	0.53
46:DN:17:ASP:OD1	46:DN:56:ASN:HB3	2.08	0.53
4:CD:126:ILE:CG2	4:CD:127:THR:N	2.71	0.53
38:DD:148:GLU:HB2	38:DD:151:LYS:CD	2.38	0.53
20:CT:42:GLN:HA	20:CT:42:GLN:NE2	2.24	0.53
35:DA:729:G:N7	38:DD:208:LYS:HB2	2.24	0.53
35:BA:1441:G:H2'	35:BA:1442:G:C8	2.43	0.53
35:DA:1102:C:H2'	35:DA:1103:A:H8	1.73	0.53
35:BA:1291:C:H2'	35:BA:1292:U:C6	2.44	0.53
41:DG:181:ARG:HG3	41:DG:181:ARG:HH11	1.74	0.53
45:DL:80:UNK:O	45:DL:82:UNK:N	2.42	0.53
25:D0:46:LYS:O	25:D0:78:TYR:HA	2.08	0.53
53:DU:104:GLN:HB3	54:DV:44:LYS:NZ	2.24	0.53
35:DA:705:A:N1	35:DA:727:A:H1'	2.23	0.53
1:AA:1113:C:H2'	1:AA:1114:C:H6	1.73	0.53
49:DQ:135:ASP:O	49:DQ:138:ASP:OD2	2.27	0.53
5:AE:10:MET:HG3	5:AE:32:VAL:HG22	1.91	0.53
13:AM:94:ARG:NE	19:AS:82:GLY:N	2.57	0.53
35:BA:2679:A:H4'	39:BE:165:VAL:HG11	1.90	0.53
4:AD:132:ARG:HD2	4:AD:132:ARG:O	2.08	0.53
38:BD:125:ILE:O	38:BD:125:ILE:HG22	2.09	0.53
1:AA:796:C:O2	1:AA:796:C:H2'	2.08	0.53
26:D1:52:ARG:NH1	35:DA:2218:U:O2'	2.42	0.53
40:BF:50:SER:HB2	40:BF:94:PRO:HD3	1.90	0.53
4:CD:33:MET:HG3	4:CD:37:PRO:HA	1.90	0.53
35:DA:2732:G:H3'	35:DA:2733:A:C5'	2.37	0.53
24:AY:113:GLY:O	24:AY:115:GLU:N	2.42	0.53
24:AY:90:PHE:O	24:AY:90:PHE:CG	2.62	0.53
1:CA:793:U:O2	1:CA:1516:G:H4'	2.09	0.53
38:DD:35:LYS:HZ2	38:DD:35:LYS:HB3	1.74	0.53
35:DA:2156:G:H2'	35:DA:2157:G:O4'	2.09	0.53
48:BP:47:ASP:OD1	48:BP:49:ARG:HB2	2.09	0.53
57:DY:99:CYS:O	57:DY:100:ALA:O	2.27	0.53
35:BA:272(I):U:H5	35:BA:363(A):A:H2	1.57	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:DH:13:LYS:O	42:DH:15:VAL:N	2.37	0.53
47:DO:111:PHE:O	47:DO:115:VAL:HG23	2.09	0.53
31:B6:15:GLU:C	31:B6:16:CYS:O	2.45	0.53
31:B6:15:GLU:CD	31:B6:44:ARG:CZ	2.77	0.53
31:B6:45:LYS:HG2	35:BA:2371:G:C5'	2.39	0.53
31:D6:16:CYS:O	31:D6:17:LYS:HB2	2.08	0.53
24:CY:590:ILE:HD13	24:CY:593:ALA:CB	2.39	0.53
35:DA:1156:A:C2'	35:DA:1157:G:OP1	2.57	0.53
18:CR:37:VAL:HG23	18:CR:38:GLU:HG2	1.90	0.53
1:AA:268:C:O2	1:AA:268:C:H2'	2.08	0.53
13:CM:52:GLU:HA	13:CM:55:ARG:HD3	1.91	0.53
1:CA:972:C:H4'	10:CJ:57:LYS:HB2	1.91	0.53
46:BN:23:LEU:CB	46:BN:60:ILE:HG21	2.39	0.53
50:BR:113:LEU:HD12	50:BR:114:VAL:H	1.73	0.53
1:AA:1356:G:H2'	1:AA:1357:A:H8	1.69	0.53
6:AF:67:MET:HB2	6:AF:68:PRO:CD	2.37	0.53
37:DC:92:ALA:HB3	37:DC:95:VAL:HG22	1.90	0.53
24:CY:440:VAL:HG12	24:CY:449:THR:HG21	1.91	0.53
58:BZ:111:VAL:O	58:BZ:112:ARG:HB2	2.07	0.53
35:BA:860:U:H5	35:BA:917:A:N7	2.07	0.53
22:AV:35:A:O2'	22:AV:36:U:H5'	2.09	0.53
30:D5:27:PRO:CD	55:DW:23:LEU:HD11	2.39	0.53
1:CA:1368:G:C2'	1:CA:1369:C:H5'	2.39	0.53
1:CA:1271:G:H2'	1:CA:1272:G:C8	2.44	0.53
1:CA:192:U:H2'	1:CA:193:C:H6	1.74	0.53
1:CA:1030:C:H2'	1:CA:1030(A):G:H5'	1.91	0.53
37:BC:28:ARG:HH12	37:BC:183:PRO:HB2	1.74	0.53
24:AY:446:THR:O	24:AY:448:GLN:N	2.41	0.53
20:CT:88:VAL:O	20:CT:92:LEU:HG	2.09	0.53
39:DE:3:GLY:HA3	39:DE:81:ILE:HD12	1.91	0.53
35:DA:572:A:C2	35:DA:2033:A:C2	2.97	0.53
1:CA:1202:G:C2	14:CN:42:ILE:HG21	2.44	0.53
12:AL:110:VAL:HG21	12:AL:120:TYR:HD2	1.74	0.53
1:CA:39:G:O2'	1:CA:40:C:H5'	2.08	0.53
35:DA:267:C:H2'	35:DA:268:C:C6	2.44	0.53
35:BA:493:G:H2'	35:BA:494:G:O4'	2.09	0.53
35:BA:2839:G:H2'	35:BA:2840:C:C6	2.44	0.53
35:DA:536:A:H2'	35:DA:537:C:C6	2.43	0.53
35:DA:1230:C:H2'	35:DA:1231:G:C8	2.44	0.53
1:AA:812:C:O2'	1:AA:813:U:P	2.67	0.53
35:BA:503:A:H4'	35:BA:504:U:H5'	1.91	0.53
16:AP:9:PHE:CE2	16:AP:18:ARG:CZ	2.92	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:707:C:O2'	1:CA:708:C:H5'	2.08	0.53
17:CQ:12:SER:HB3	17:CQ:20:THR:OG1	2.09	0.53
3:AC:164:ARG:NH2	3:AC:166:GLU:OE1	2.42	0.53
35:DA:1161:C:H1'	54:DV:8:GLY:O	2.09	0.53
24:AY:584:ILE:O	24:AY:588:MET:HG3	2.09	0.53
1:AA:554:C:H2'	1:AA:555:C:C6	2.44	0.53
44:DK:84:LEU:HD21	44:DK:96:VAL:HB	1.91	0.53
35:DA:1759:A:H5'	35:DA:2715:C:H1'	1.90	0.53
1:CA:284:G:H2'	1:CA:285:G:H8	1.74	0.53
3:CC:23:TYR:CG	3:CC:24:ALA:N	2.77	0.53
35:BA:1233:C:H2'	35:BA:1234:U:H6	1.74	0.53
6:CF:21:LEU:O	6:CF:25:ILE:HG12	2.09	0.53
7:CG:18:TYR:CD2	7:CG:59:LEU:HD13	2.44	0.53
35:DA:852:G:H2'	35:DA:853:G:H8	1.74	0.53
35:BA:495:G:H1'	55:BW:57:ASN:OD1	2.08	0.53
24:AY:28:THR:O	24:AY:32:ILE:HG13	2.09	0.53
35:BA:1432:C:H2'	35:BA:1433:U:O4'	2.09	0.53
37:BC:88:GLU:HA	37:BC:95:VAL:HG21	1.91	0.52
24:CY:609:GLU:HB2	24:CY:670:VAL:HG22	1.91	0.52
4:AD:33:MET:HG3	4:AD:37:PRO:HA	1.90	0.52
10:CJ:6:ILE:HG13	10:CJ:72:VAL:O	2.09	0.52
40:BF:25:PRO:CB	40:BF:119:ARG:HD3	2.39	0.52
53:DU:62:ILE:HG23	53:DU:76:TYR:CE1	2.44	0.52
46:BN:3:THR:C	46:BN:4:TYR:CG	2.81	0.52
31:D6:5:VAL:CG1	31:D6:6:ARG:N	2.72	0.52
31:D6:8:LYS:HE3	31:D6:25:LYS:CD	2.31	0.52
35:BA:212:G:H5'	35:BA:212:G:C8	2.34	0.52
3:AC:72:LYS:HA	3:AC:72:LYS:HE3	1.90	0.52
30:D5:40:LYS:HZ1	30:D5:46:CYS:H	1.56	0.52
40:DF:9:ILE:HG12	40:DF:14:PRO:C	2.28	0.52
51:BS:103:GLU:O	51:BS:104:GLY:C	2.47	0.52
49:DQ:55:VAL:HG23	58:DZ:178:GLU:CG	2.39	0.52
35:BA:813:U:H2'	35:BA:814:C:C5	2.44	0.52
1:AA:1490:C:C6	1:AA:1490:C:C5'	2.88	0.52
48:DP:102:ARG:CB	48:DP:102:ARG:NH2	2.70	0.52
2:CB:86:GLU:C	2:CB:88:ALA:H	2.11	0.52
44:BK:112:MET:N	44:BK:113:PRO:CD	2.72	0.52
19:AS:41:VAL:O	19:AS:43:GLU:N	2.42	0.52
35:DA:2205:C:O2	35:DA:2205:C:H2'	2.08	0.52
41:DG:123:ASN:O	41:DG:125:PHE:N	2.41	0.52
51:DS:103:GLU:O	51:DS:104:GLY:C	2.47	0.52
35:BA:358:U:H2'	35:BA:359:A:C8	2.28	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:AM:91:ARG:HH21	19:AS:81:ARG:HH21	1.57	0.52
19:CS:43:GLU:O	19:CS:45:VAL:HG13	2.09	0.52
1:CA:1226:C:H5'	13:CM:96:LEU:CD1	2.38	0.52
42:DH:88:LEU:HD23	42:DH:164:TYR:O	2.09	0.52
12:CL:46:LYS:HZ2	12:CL:94:PRO:HG3	1.74	0.52
24:CY:247:ARG:O	24:CY:251:ILE:HG13	2.09	0.52
1:CA:1342:C:H1'	9:CI:124:GLN:HG3	1.90	0.52
50:DR:4:LEU:C	50:DR:6:SER:H	2.12	0.52
3:AC:131:ARG:NH2	3:AC:168:ALA:HB2	2.24	0.52
39:DE:105:THR:OG1	39:DE:199:ARG:NH2	2.41	0.52
1:AA:1030(D):A:C2'	1:AA:1031:G:H5'	2.38	0.52
38:BD:118:VAL:HG22	38:BD:119:ALA:N	2.24	0.52
15:CO:43:LEU:HD12	15:CO:56:LEU:HD22	1.92	0.52
55:BW:20:VAL:HG23	55:BW:21:VAL:N	2.24	0.52
36:DB:13:A:O2'	36:DB:15:A:H5''	2.09	0.52
9:CI:48:GLU:N	9:CI:49:PRO:CD	2.72	0.52
18:CR:44:LEU:HD22	18:CR:79:LEU:HD22	1.90	0.52
1:CA:1131:G:C6	1:CA:1132:C:N4	2.78	0.52
24:AY:312:LEU:HD11	24:AY:401:SER:OG	2.09	0.52
22:AW:2:G:H2'	22:AW:3:C:C6	2.45	0.52
16:CP:7:ALA:O	16:CP:17:TYR:HA	2.09	0.52
2:CB:194:PRO:O	2:CB:196:LEU:N	2.42	0.52
1:CA:937:A:C2	1:CA:1379:G:O6	2.62	0.52
6:AF:80:ARG:NH1	6:AF:88:VAL:HB	2.23	0.52
24:CY:496:LYS:HE2	24:CY:498:ILE:CD1	2.39	0.52
1:CA:189(A):C:H2'	1:CA:189(B):C:H6	1.72	0.52
35:BA:729:G:N7	38:BD:208:LYS:HB2	2.24	0.52
35:DA:1035:U:H2'	35:DA:1036:G:H8	1.72	0.52
35:BA:784:A:HO2'	35:BA:785:G:H8	1.55	0.52
42:BH:72:ILE:O	42:BH:75:ALA:N	2.41	0.52
35:BA:134:C:H2'	35:BA:135:G:C8	2.43	0.52
35:BA:654(P):C:H2'	35:BA:654(Q):C:H5'	1.91	0.52
7:CG:91:VAL:HG12	7:CG:92:SER:H	1.74	0.52
1:CA:708:C:H2'	1:CA:709:G:H8	1.75	0.52
22:CW:2:G:H2'	22:CW:3:C:H6	1.73	0.52
35:BA:2113:U:H2'	35:BA:2114:A:H8	1.74	0.52
35:DA:2373:G:H2'	35:DA:2374:C:C6	2.44	0.52
2:AB:115:LEU:HD13	2:AB:145:LEU:HB3	1.91	0.52
7:CG:29:LYS:CB	7:CG:105:VAL:HG21	2.39	0.52
22:AW:20:G:C5	35:BA:2169:A:C2	2.97	0.52
8:CH:114:THR:HG21	8:CH:129:VAL:HG23	1.91	0.52
6:AF:22:GLU:O	6:AF:26:ILE:HG13	2.09	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:AF:24:GLU:OE2	6:AF:28:ARG:NH1	2.42	0.52
24:CY:625:ASN:C	24:CY:627:ARG:H	2.12	0.52
17:AQ:12:SER:HB3	17:AQ:20:THR:OG1	2.09	0.52
24:CY:409:ILE:CD1	24:CY:654:GLY:HA2	2.39	0.52
24:CY:138:LYS:HG2	62:CY:703:GDP:C5	2.44	0.52
24:AY:165:GLN:NE2	24:AY:177:ILE:HG21	2.25	0.52
24:AY:181:LEU:CD1	24:AY:242:LEU:HD13	2.40	0.52
24:AY:89:ASP:OD2	24:AY:89:ASP:N	2.43	0.52
54:BV:39:LEU:HD22	54:BV:39:LEU:N	2.24	0.52
24:AY:423:LYS:CB	24:AY:472:VAL:HG22	2.28	0.52
33:B8:7:HIS:HB3	33:B8:10:ALA:HB3	1.91	0.52
57:DY:84:ARG:NH1	57:DY:84:ARG:HG2	2.22	0.52
57:BY:74:PRO:O	57:BY:75:ILE:HB	2.09	0.52
41:DG:82:LEU:HD13	41:DG:87:PRO:HB3	1.90	0.52
30:D5:44:THR:HG23	50:DR:101:ALA:N	2.25	0.52
50:DR:55:ALA:HB2	50:DR:79:LEU:HD11	1.92	0.52
30:B5:46:CYS:SG	30:B5:47:PRO:HD2	2.50	0.52
51:BS:26:LEU:O	51:BS:88:ASP:HB3	2.09	0.52
50:BR:72:ASP:CG	50:BR:75:LEU:H	2.12	0.52
12:AL:84:LEU:HD23	12:AL:101:VAL:HG21	1.91	0.52
28:B3:31:LEU:HD22	28:B3:32:GLN:N	2.24	0.52
3:AC:59:ARG:CG	3:AC:64:VAL:HA	2.39	0.52
48:DP:107:LYS:C	48:DP:109:GLY:H	2.12	0.52
35:DA:637:A:OP2	48:DP:115:LEU:HB2	2.09	0.52
48:DP:83:VAL:HG11	48:DP:112:LEU:HD21	1.90	0.52
1:CA:129(A):G:C8	1:CA:129(A):G:H5"	2.45	0.52
48:BP:127:ALA:HB3	48:BP:130:PHE:CE1	2.44	0.52
44:BK:112:MET:HE1	44:BK:120:LEU:HD21	1.92	0.52
41:DG:159:VAL:O	41:DG:159:VAL:HG22	2.10	0.52
35:BA:2787:C:C2	39:BE:61:ARG:HD3	2.44	0.52
38:DD:238:GLY:O	38:DD:239:ARG:O	2.27	0.52
1:CA:1053:G:H4'	1:CA:1054:C:H5'	1.90	0.52
52:DT:120:ARG:HA	52:DT:123:GLN:HG2	1.91	0.52
29:D4:31:ILE:CG2	29:D4:33:VAL:HG23	2.39	0.52
1:CA:328:C:C2'	1:CA:328:C:O2	2.56	0.52
37:DC:88:GLU:CA	37:DC:95:VAL:HG21	2.40	0.52
58:DZ:94:GLU:O	58:DZ:130:PRO:HD3	2.09	0.52
24:CY:510:VAL:HG22	24:CY:534:ILE:HD11	1.91	0.52
35:BA:234:C:H2'	35:BA:235:U:C6	2.44	0.52
47:BO:104:ARG:NH2	52:BT:33:LYS:HE3	2.24	0.52
35:BA:675:A:H4'	40:BF:67:GLN:OE1	2.10	0.52
35:BA:2389:G:H5"	35:BA:2390:U:C5'	2.36	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:196:ILE:O	24:AY:197:ARG:CB	2.56	0.52
1:CA:1271:G:H2'	1:CA:1272:G:H8	1.74	0.52
35:BA:816:C:O2'	35:BA:817:C:H5'	2.08	0.52
20:CT:48:LYS:HD2	20:CT:51:GLU:OE2	2.08	0.52
46:BN:18:ALA:HB3	46:BN:21:LYS:HB2	1.92	0.52
36:DB:60:C:H2'	36:DB:61:G:C8	2.41	0.52
1:AA:1073:U:O2'	1:AA:1074:G:H5'	2.09	0.52
52:DT:62:THR:HG22	52:DT:75:ILE:HG13	1.90	0.52
35:BA:2105:C:C2'	35:BA:2106:G:H5'	2.39	0.52
1:AA:444:C:H42	1:AA:490:G:H1	1.57	0.52
7:CG:12:LEU:CD1	7:CG:25:ALA:HB2	2.39	0.52
2:AB:62:ALA:O	2:AB:64:ARG:N	2.34	0.52
46:DN:14:VAL:HG13	46:DN:137:LYS:HG3	1.90	0.52
6:AF:42:GLU:C	6:AF:44:GLY:H	2.12	0.52
1:CA:424:G:H2'	1:CA:425:G:H8	1.75	0.52
33:D8:15:LYS:HB2	48:DP:65:ARG:HH12	1.73	0.52
45:BM:26:UNK:HA	45:BM:30:UNK:O	2.10	0.52
35:DA:1398:C:H2'	35:DA:1399:C:H6	1.72	0.52
49:BQ:58:PHE:O	49:BQ:58:PHE:HD1	1.92	0.52
58:DZ:72:ARG:HG3	58:DZ:72:ARG:HH11	1.74	0.52
41:BG:34:LEU:HD13	41:BG:99:MET:CE	2.39	0.52
10:AJ:3:LYS:HD2	10:AJ:77:PRO:CD	2.39	0.52
10:AJ:79:ARG:HH11	10:AJ:79:ARG:N	2.07	0.52
37:BC:88:GLU:CA	37:BC:95:VAL:HG21	2.40	0.52
1:CA:407:G:H2'	1:CA:408:A:H8	1.74	0.52
35:BA:769:G:H2'	35:BA:770:G:H8	1.75	0.52
24:CY:87:HIS:O	24:CY:89:ASP:N	2.42	0.52
24:AY:177:ILE:HG22	24:AY:178:ILE:N	2.24	0.52
48:BP:9:ASN:N	48:BP:10:PRO:HD2	2.24	0.52
53:DU:61:TRP:CB	53:DU:93:LYS:HB3	2.39	0.52
35:DA:302:C:P	57:DY:73:ARG:HH12	2.32	0.52
57:DY:86:ARG:HB3	57:DY:88:LYS:HZ1	1.73	0.52
57:DY:94:LYS:HG3	57:DY:102:CYS:SG	2.49	0.52
1:AA:1038:C:H2'	1:AA:1039:C:C6	2.44	0.52
40:DF:18:ARG:C	40:DF:19:GLU:HG2	2.29	0.52
33:D8:47:LYS:HZ3	33:D8:49:VAL:HG13	1.74	0.52
5:AE:101:ILE:N	5:AE:101:ILE:HD13	2.18	0.52
47:DO:107:ARG:HA	47:DO:112:MET:CE	2.40	0.52
27:B2:3:LEU:HD22	27:B2:7:ARG:NH2	2.24	0.52
48:DP:85:LEU:HD23	48:DP:85:LEU:N	2.19	0.52
2:AB:98:LEU:O	2:AB:101:MET:HB2	2.09	0.52
35:BA:2886:G:H2'	35:BA:2887:U:H6	1.74	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:D4:16:CYS:SG	29:D4:17:GLY:N	2.83	0.52
20:CT:26:ASN:HB2	20:CT:71:THR:HG23	1.89	0.52
41:BG:76:SER:HA	41:BG:83:ARG:HB3	1.91	0.52
24:AY:517:LEU:HB3	24:AY:521:SER:HB2	1.91	0.52
42:BH:118:PRO:CG	42:BH:121:ILE:HD12	2.37	0.52
46:BN:87:LEU:O	46:BN:88:GLU:C	2.47	0.52
35:DA:234:C:H2'	35:DA:235:U:C6	2.44	0.52
5:AE:91:LEU:HD13	5:AE:120:THR:HG22	1.90	0.52
35:BA:2461:C:O2	35:BA:2461:C:C2'	2.57	0.52
58:BZ:24:LEU:HD23	58:BZ:25:PRO:O	2.09	0.52
36:BB:114:C:O2'	51:BS:46:VAL:HG13	2.09	0.52
35:DA:2478:A:H2'	35:DA:2479:G:O4'	2.09	0.52
39:BE:105:THR:OG1	39:BE:199:ARG:NH2	2.43	0.52
1:CA:1369:C:H2'	1:CA:1370:G:H8	1.67	0.52
46:BN:35:ARG:O	46:BN:37:LYS:HB2	2.09	0.52
29:B4:48:ARG:O	29:B4:48:ARG:HG2	2.09	0.52
1:AA:192:U:H2'	1:AA:193:C:H6	1.71	0.52
35:DA:285:C:O2'	35:DA:286:C:H5''	2.09	0.52
4:AD:176:LEU:HD12	4:AD:177:ASP:N	2.24	0.52
12:AL:78:GLN:O	12:AL:79:GLU:C	2.47	0.52
24:AY:689:LYS:HG3	24:AY:690:GLY:N	2.23	0.52
35:BA:1683:C:H2'	35:BA:1684:C:C6	2.44	0.52
38:BD:218:ARG:HB3	38:BD:219:PRO:HD2	1.92	0.52
35:BA:2105:C:H2'	35:BA:2106:G:H5'	1.91	0.52
54:DV:25:LEU:H	54:DV:92:THR:HG21	1.74	0.52
24:CY:292:THR:HA	24:CY:297:GLU:O	2.10	0.52
42:DH:29:PRO:HD2	42:DH:79:VAL:O	2.09	0.52
1:AA:658:G:O4'	15:AO:22:THR:HB	2.09	0.52
35:DA:2736:G:O2'	35:DA:2737:G:H5'	2.09	0.52
35:DA:2855:C:H2'	35:DA:2856:C:C6	2.42	0.52
38:DD:134:ARG:HG3	38:DD:135:PHE:HD1	1.74	0.52
35:DA:1614:A:N1	55:DW:91:GLY:HA2	2.24	0.52
32:B7:33:ARG:NH1	35:BA:467:G:OP1	2.42	0.52
24:CY:359:HIS:HB2	24:CY:362:HIS:O	2.09	0.52
6:CF:7:ASN:OD1	6:CF:62:TRP:HD1	1.91	0.52
5:CE:139:LEU:C	5:CE:141:GLN:H	2.13	0.52
54:DV:72:VAL:HG23	54:DV:85:LYS:HB2	1.92	0.52
1:CA:555:C:H2'	1:CA:556:C:C6	2.44	0.52
35:BA:2142:C:O2'	35:BA:2143:C:H5'	2.09	0.52
7:AG:51:GLN:OE1	7:AG:51:GLN:HA	2.09	0.52
46:DN:78:TYR:CD1	46:DN:78:TYR:N	2.76	0.52
48:DP:7:ARG:HA	48:DP:7:ARG:NH1	2.25	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:433:C:O2'	1:AA:434:U:H5'	2.10	0.52
4:AD:13:ARG:O	4:AD:16:GLY:N	2.36	0.52
35:BA:2732:G:H3'	35:BA:2733:A:C5'	2.38	0.52
53:DU:113:ALA:C	53:DU:115:ALA:N	2.62	0.52
53:DU:84:LYS:C	53:DU:86:ALA:H	2.12	0.52
53:DU:61:TRP:HB3	53:DU:93:LYS:HB3	1.90	0.52
48:BP:33:ARG:O	48:BP:35:HIS:O	2.26	0.52
1:CA:1314:C:H2'	1:CA:1315:U:H6	1.74	0.52
35:DA:84:A:C5'	57:DY:9:LYS:HZ2	2.22	0.52
57:BY:7:VAL:HB	57:BY:8:LYS:CE	2.39	0.52
3:AC:73:PRO:O	3:AC:76:VAL:HG22	2.09	0.52
52:BT:65:LYS:HA	52:BT:65:LYS:HZ1	1.75	0.52
5:AE:101:ILE:HD11	5:AE:119:LEU:HD22	1.92	0.52
1:CA:1321:C:C5'	1:CA:1322:C:H5''	2.39	0.52
2:CB:126:GLU:HA	2:CB:129:GLU:CD	2.29	0.52
39:DE:144:ARG:O	39:DE:145:LYS:O	2.26	0.52
1:CA:189(D):C:H2'	1:CA:189(E):U:O4'	2.10	0.52
2:CB:238:LEU:HG	2:CB:238:LEU:O	2.08	0.52
35:BA:2229:C:O2'	35:BA:2230:G:H5'	2.10	0.52
35:DA:1814:G:H4'	38:DD:51:VAL:HG21	1.91	0.52
39:DE:57:LYS:HZ3	39:DE:63:LEU:HG	1.74	0.52
35:BA:2591:C:H2'	35:BA:2592:G:H8	1.64	0.52
35:BA:1015:G:H2'	35:BA:1016:G:H8	1.74	0.52
51:DS:106:ARG:O	51:DS:107:GLU:CB	2.57	0.52
1:CA:80:G:H5''	1:CA:81:U:H5'	1.92	0.52
22:CW:65:G:H2'	22:CW:66:C:C1'	2.39	0.52
6:AF:72:VAL:HG13	6:AF:73:ASN:N	2.24	0.52
52:BT:6:LEU:O	52:BT:9:LEU:N	2.42	0.52
42:BH:46:GLU:CD	42:BH:51:ARG:HB2	2.29	0.52
1:CA:300:A:H2'	1:CA:301:G:O4'	2.08	0.52
46:BN:66:LYS:O	46:BN:67:LEU:HD23	2.08	0.52
27:D2:48:HIS:CG	27:D2:49:LYS:N	2.76	0.52
27:D2:57:ILE:O	27:D2:61:LEU:HG	2.10	0.52
51:DS:98:VAL:C	51:DS:100:ALA:N	2.61	0.52
12:CL:60:LEU:HD22	12:CL:60:LEU:N	2.23	0.52
39:BE:93:VAL:HG12	39:BE:175:VAL:HG21	1.90	0.52
24:AY:341:VAL:CG2	24:AY:350:GLU:HB2	2.39	0.52
55:BW:59:VAL:HG21	55:BW:66:GLU:HB2	1.92	0.52
35:DA:2161:C:O2'	35:DA:2162:G:H5'	2.09	0.52
3:AC:5:ILE:CD1	3:AC:5:ILE:N	2.72	0.52
54:DV:79:VAL:O	54:DV:80:GLN:HB2	2.09	0.52
34:B9:31:LYS:HE2	35:BA:2478:A:H5'	1.91	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:363(F):A:O2'	35:BA:364:C:P	2.67	0.52
36:DB:61:G:O2'	36:DB:62:C:H5'	2.09	0.52
35:DA:64:A:H2'	35:DA:65:C:C6	2.45	0.52
22:CV:3:C:N4	22:CV:70:G:H1	2.06	0.52
35:DA:1829:A:N3	38:DD:15:PHE:HZ	2.08	0.52
1:AA:1375:A:H5'	1:AA:1376:U:OP2	2.10	0.52
35:BA:528:A:C2	35:BA:2043:C:C5'	2.92	0.52
3:AC:134:ILE:O	3:AC:137:ALA:N	2.42	0.52
3:AC:138:VAL:O	3:AC:139:GLN:C	2.48	0.52
54:BV:37:VAL:HG23	54:BV:37:VAL:O	2.10	0.52
2:CB:33:TYR:HB2	2:CB:43:ASP:HB2	1.91	0.52
51:DS:56:LEU:O	51:DS:56:LEU:HD23	2.08	0.52
35:BA:230:U:O2'	35:BA:231:C:H5'	2.09	0.52
1:CA:1344:C:O2'	1:CA:1345:U:H5'	2.09	0.52
35:DA:1812:A:H2'	35:DA:1813:G:C8	2.44	0.52
41:BG:27:ASN:HB3	41:BG:30:GLU:H	1.73	0.52
16:CP:9:PHE:CE2	16:CP:18:ARG:CZ	2.92	0.52
35:BA:1278:A:O2'	35:BA:1279:G:H5'	2.09	0.52
35:BA:455:C:N3	35:BA:473:G:H5'	2.24	0.52
35:BA:1063:G:O2'	44:BK:87:GLY:HA3	2.09	0.52
24:CY:687:LEU:C	24:CY:688:ILE:HD12	2.29	0.52
58:BZ:3:TYR:HD2	58:BZ:47:VAL:HG13	1.75	0.52
1:AA:1314:C:H2'	1:AA:1315:U:H6	1.73	0.52
35:BA:135:G:O2'	35:BA:136:G:H5'	2.08	0.52
3:AC:25:GLY:O	3:AC:27:LYS:N	2.37	0.52
42:DH:92:ILE:C	42:DH:94:TYR:H	2.13	0.52
35:DA:610:G:H22	35:DA:619:G:H1'	1.75	0.52
24:AY:550:MET:HE1	24:AY:563:ILE:HD11	1.91	0.52
35:DA:1461:G:H2'	35:DA:1462:C:H6	1.74	0.52
24:AY:411:VAL:CG1	24:AY:412:ALA:N	2.71	0.52
37:DC:60:ARG:HG2	37:DC:61:GLY:N	2.25	0.52
35:BA:648:G:H2'	35:BA:649:G:H8	1.73	0.52
1:CA:824:C:H2'	1:CA:825:G:H8	1.73	0.52
22:AV:7:G:H3'	22:AV:8:U:C5'	2.37	0.52
47:BO:10:VAL:HG23	47:BO:10:VAL:O	2.10	0.52
54:BV:69:LYS:HE3	54:BV:71:LEU:HD21	1.92	0.52
48:DP:9:ASN:N	48:DP:10:PRO:CD	2.73	0.52
39:BE:133:LYS:C	39:BE:134:ILE:HG13	2.29	0.52
37:BC:118:PRO:HB2	37:BC:148:PHE:CZ	2.44	0.52
56:BX:12:VAL:CG1	56:BX:27:THR:HG23	2.38	0.52
24:CY:141:LYS:HE3	62:CY:703:GDP:N2	2.25	0.52
24:AY:121:VAL:CG2	24:AY:122:TRP:H	2.22	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
53:DU:49:HIS:C	53:DU:52:ARG:HB2	2.30	0.52
53:DU:56:ASP:O	53:DU:59:ARG:HB2	2.09	0.52
53:DU:57:PHE:C	53:DU:59:ARG:N	2.62	0.52
46:BN:3:THR:C	46:BN:4:TYR:CD1	2.83	0.52
53:BU:56:ASP:O	53:BU:59:ARG:HB2	2.10	0.52
31:B6:25:LYS:HE2	33:B8:34:TRP:HE1	1.74	0.52
31:B6:9:LEU:HD12	31:B6:28:ARG:CG	2.40	0.52
38:BD:30:GLU:HG3	38:BD:63:ARG:CZ	2.39	0.52
1:AA:1004:A:H5'	1:AA:1025:U:N3	2.25	0.52
31:D6:54:ILE:HD13	35:DA:2420:C:C4'	2.39	0.52
33:D8:28:GLY:HA2	33:D8:32:LEU:HD21	1.90	0.52
3:CC:90:GLU:HA	3:CC:93:LYS:HB3	1.92	0.52
31:B6:15:GLU:HB2	31:B6:47:THR:HG21	1.91	0.52
35:BA:1453:U:H2'	35:BA:1455:G:N7	2.24	0.52
35:DA:2572:A:C8	39:DE:144:ARG:HB3	2.44	0.52
35:DA:624:C:N4	48:DP:107:LYS:NZ	2.57	0.52
48:BP:107:LYS:C	48:BP:109:GLY:N	2.63	0.52
29:D4:3:GLU:HG3	36:DB:43:C:OP1	2.10	0.52
35:BA:2820:A:O2'	35:BA:2821:A:OP1	2.25	0.52
35:BA:1145:C:H2'	35:BA:1146:C:C6	2.45	0.52
2:AB:20:GLU:HB2	2:AB:190:THR:OG1	2.09	0.52
5:CE:11:ILE:HG13	5:CE:33:VAL:HG23	1.91	0.52
46:DN:96:GLU:CD	46:DN:96:GLU:N	2.61	0.52
26:D1:86:SER:CB	26:D1:90:ILE:HG12	2.39	0.52
18:AR:53:ARG:HH21	18:AR:59:SER:HA	1.74	0.52
52:DT:64:ARG:HH11	52:DT:64:ARG:HG2	1.74	0.52
1:AA:368:U:OP1	24:AY:351:ARG:NH1	2.41	0.52
50:BR:10:LEU:HB3	50:BR:17:ARG:NE	2.24	0.52
40:BF:66:PRO:O	40:BF:67:GLN:HB3	2.09	0.52
11:CK:33:THR:HB	11:CK:38:ASN:O	2.09	0.52
35:BA:1654:A:C2	39:BE:113:PHE:CD1	2.98	0.52
35:DA:259:G:H1'	35:DA:621:A:O2'	2.08	0.52
39:BE:4:ILE:CG1	39:BE:5:LEU:N	2.72	0.52
1:CA:1313:U:P	19:CS:6:LYS:HG3	2.50	0.52
9:CI:104:ARG:O	9:CI:105:ASP:CB	2.56	0.52
37:DC:97:GLY:O	37:DC:100:ILE:HG12	2.09	0.52
35:BA:285:C:O2'	35:BA:286:C:H5''	2.09	0.52
35:DA:2853:C:H2'	35:DA:2854:G:C8	2.44	0.52
20:AT:48:LYS:HB3	20:AT:51:GLU:CG	2.38	0.52
3:CC:15:THR:HG21	3:CC:181:ASN:HA	1.90	0.52
24:AY:438:PHE:C	24:AY:438:PHE:HD2	2.13	0.52
35:DA:909:A:O2'	35:DA:910:A:H5'	2.09	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:530:VAL:HG22	24:AY:531:GLY:H	1.73	0.52
24:AY:613:PRO:C	24:AY:615:GLU:N	2.59	0.52
15:AO:11:VAL:O	15:AO:12:ILE:C	2.48	0.52
1:CA:1112:C:O2'	3:CC:179:ARG:HG2	2.10	0.52
35:DA:2183:C:O2'	35:DA:2184:G:H5'	2.09	0.52
1:AA:346:G:H2'	1:AA:347:G:O4'	2.10	0.52
35:DA:493:G:H2'	35:DA:494:G:O4'	2.09	0.52
1:CA:1261:A:C2'	1:CA:1262:C:H5'	2.39	0.52
1:AA:188:C:H2'	1:AA:189:G:C8	2.42	0.52
39:BE:101:ARG:NH1	39:BE:169:ASN:ND2	2.56	0.52
35:DA:2348:U:C2'	35:DA:2349:G:C5'	2.87	0.52
20:CT:33:ILE:CD1	20:CT:63:ILE:HA	2.39	0.52
35:BA:246:C:H2'	35:BA:247:G:H5'	1.92	0.52
1:AA:54:C:H2'	1:AA:352:C:N4	2.25	0.52
24:CY:223:PHE:CZ	24:CY:249:GLY:HA3	2.45	0.52
35:DA:1248:G:N3	53:DU:3:ARG:HD2	2.25	0.52
22:AV:2:G:C5'	25:B0:8:GLY:HA2	2.40	0.52
6:CF:15:ASP:C	6:CF:17:SER:N	2.62	0.52
16:CP:3:LYS:HG2	16:CP:65:GLN:HB2	1.90	0.52
1:AA:1058:G:H2'	1:AA:1059:C:C6	2.45	0.52
2:AB:148:TYR:O	2:AB:149:LEU:HD23	2.10	0.52
35:BA:426:C:O2'	35:BA:427:U:H5'	2.09	0.52
7:AG:18:TYR:CD2	7:AG:59:LEU:HD13	2.44	0.52
35:DA:1204:A:H61	35:DA:1240:U:H2'	1.73	0.52
29:B4:1:MET:H1	36:BB:43:C:H4'	1.75	0.52
35:BA:2313:C:H5'	35:BA:2313:C:C6	2.41	0.52
41:BG:114:ILE:O	41:BG:114:ILE:HG22	2.10	0.52
40:BF:117:ARG:NH2	48:BP:5:ASP:N	2.58	0.52
24:AY:12:LEU:HB3	24:AY:283:PRO:CG	2.39	0.52
31:B6:27:LYS:HB3	31:B6:32:ASN:HD22	1.75	0.52
35:DA:272(I):U:H5	35:DA:363(A):A:H2	1.57	0.52
35:BA:1485:G:C1'	35:BA:1505:C:H42	2.18	0.52
33:D8:53:PRO:HA	33:D8:56:GLU:HB2	1.92	0.52
47:BO:64:ARG:HH21	47:BO:100:GLY:HA3	1.74	0.52
57:BY:77:PRO:O	57:BY:99:CYS:SG	2.61	0.52
57:BY:97:ARG:HG3	57:BY:97:ARG:NH1	2.24	0.52
35:BA:1080:C:H4'	44:BK:125:ARG:CB	2.40	0.52
1:CA:1002:G:N2	1:CA:1039:C:H2'	2.25	0.52
30:D5:10:LYS:HB2	35:DA:2017:U:O2	2.10	0.52
35:BA:1821:A:H2'	35:BA:1822:G:H8	1.74	0.52
35:DA:1782:C:H2'	35:DA:1783:A:H5'	1.92	0.52
48:DP:85:LEU:HD12	48:DP:120:ALA:CB	2.33	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:BP:85:LEU:HD23	48:BP:85:LEU:N	2.17	0.52
2:AB:101:MET:C	2:AB:102:LEU:HD12	2.30	0.52
11:AK:111:ASP:HA	18:AR:84:LYS:CD	2.31	0.52
39:DE:51:PHE:CD1	39:DE:52:LEU:N	2.78	0.52
27:B2:33:MET:O	27:B2:37:PHE:HD1	1.91	0.52
54:DV:93:GLU:O	54:DV:94:LEU:HD23	2.10	0.52
2:AB:187:LEU:HD23	2:AB:214:ILE:HG21	1.92	0.52
47:BO:69:ILE:HD13	47:BO:77:ILE:CG2	2.35	0.52
19:CS:13:ASP:C	19:CS:15:LEU:N	2.63	0.52
57:BY:62:GLU:CG	57:BY:63:LYS:N	2.73	0.52
35:DA:194:G:H2'	35:DA:195:A:O4'	2.10	0.52
12:CL:46:LYS:HB2	12:CL:92:ASP:O	2.09	0.52
35:DA:675:A:H4'	40:DF:67:GLN:OE1	2.08	0.52
47:DO:104:ARG:NH2	52:DT:33:LYS:HE3	2.24	0.52
39:BE:1:MET:HB2	39:BE:83:ASP:O	2.10	0.52
3:AC:5:ILE:HD13	3:AC:5:ILE:N	2.24	0.52
37:BC:98:GLU:O	37:BC:101:ILE:HD13	2.09	0.52
19:AS:6:LYS:N	19:AS:6:LYS:HE3	2.25	0.52
49:DQ:67:ARG:HD2	49:DQ:105:GLU:OE1	2.10	0.52
35:DA:548:A:C3'	35:DA:549:G:H5'	2.39	0.52
49:DQ:12:GLN:NE2	49:DQ:72:LYS:HG3	2.25	0.52
3:CC:5:ILE:CD1	3:CC:5:ILE:N	2.72	0.52
56:DX:63:LYS:HA	56:DX:72:LYS:HA	1.90	0.52
50:BR:7:GLY:C	50:BR:8:ARG:NE	2.63	0.52
1:CA:998:G:H2'	1:CA:999:C:N1	2.24	0.52
2:AB:194:PRO:O	2:AB:196:LEU:N	2.43	0.52
26:B1:64:ALA:C	26:B1:66:HIS:H	2.12	0.52
1:CA:1347:G:O2'	1:CA:1348:U:OP2	2.28	0.52
1:CA:1378:C:O2	7:CG:76:ARG:NH2	2.43	0.52
35:BA:2347:C:H2'	35:BA:2348:U:C5	2.44	0.52
35:BA:451:C:H41	35:BA:453:C:H3'	1.74	0.52
1:CA:956:U:H2'	1:CA:957:U:H6	1.74	0.52
38:DD:209:ALA:C	38:DD:210:GLY:O	2.46	0.52
11:AK:30:VAL:HG21	11:AK:65:ALA:HA	1.91	0.52
35:BA:737:C:H2'	35:BA:738:G:H5'	1.91	0.52
55:BW:1:MET:HE3	55:BW:2:GLU:H	1.75	0.52
1:CA:423:G:C2'	1:CA:424:G:H5'	2.40	0.52
6:CF:62:TRP:O	6:CF:63:TYR:CG	2.63	0.52
43:BJ:10:UNK:O	43:BJ:11:UNK:CB	2.58	0.52
54:BV:72:VAL:HG23	54:BV:85:LYS:HB2	1.91	0.52
35:BA:1713:U:O2'	35:BA:1714:G:H5'	2.10	0.52
35:DA:1205:U:C5	40:DF:171:PRO:HA	2.45	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1985:G:O2'	35:DA:1986:A:H5'	2.09	0.52
46:DN:49:GLY:CA	46:DN:119:ARG:HH12	2.22	0.52
35:BA:1754:C:OP1	52:BT:96:ARG:NH1	2.42	0.52
50:BR:26:LYS:CE	50:BR:71:GLN:H	2.23	0.52
35:DA:2121:G:O2'	37:DC:168:LYS:HG2	2.09	0.52
44:BK:61:ALA:C	44:BK:63:ARG:H	2.13	0.52
35:DA:2771:C:H2'	35:DA:2772:C:C6	2.45	0.52
35:DA:1839:G:N3	35:DA:1839:G:H2'	2.24	0.52
44:DK:61:ALA:C	44:DK:63:ARG:H	2.12	0.52
4:CD:9:CYS:HB3	4:CD:32:ALA:HB2	1.90	0.52
61:CY:702:FUA:O1	61:CY:702:FUA:H201	2.09	0.52
24:AY:282:SER:O	24:AY:284:LEU:N	2.43	0.52
34:D9:4:ARG:HH12	35:DA:2477:C:N4	2.07	0.52
38:DD:39:LYS:HZ2	38:DD:87:ASN:HB3	1.74	0.52
31:B6:27:LYS:O	31:B6:27:LYS:CD	2.55	0.52
48:BP:62:LEU:HD22	48:BP:62:LEU:H	1.71	0.52
35:DA:2415:G:H4'	48:DP:66:GLY:C	2.29	0.52
30:D5:45:VAL:HG22	30:D5:51:TYR:CD1	2.44	0.52
55:DW:88:ARG:HD3	55:DW:94:ASP:OD1	2.09	0.52
47:DO:61:VAL:HG21	47:DO:111:PHE:CE2	2.45	0.52
31:B6:37:ARG:NH2	35:BA:2286:A:N6	2.58	0.52
31:D6:41:PRO:O	31:D6:42:TRP:C	2.48	0.52
5:CE:142:LEU:O	5:CE:143:ARG:NE	2.43	0.52
46:DN:15:LEU:HD12	46:DN:136:GLU:HG3	1.92	0.52
27:B2:7:ARG:HG3	27:B2:7:ARG:HH11	1.73	0.52
35:BA:154(A):C:H3'	35:BA:155:U:H5"	1.92	0.52
35:BA:1819:A:H1'	35:BA:1821:A:C6	2.45	0.52
2:CB:121:LEU:HA	2:CB:124:SER:HB3	1.92	0.52
48:BP:99:LEU:HA	48:BP:102:ARG:HH12	1.74	0.52
48:BP:83:VAL:HG11	48:BP:112:LEU:HD21	1.91	0.52
48:BP:98:GLU:O	48:BP:101:VAL:HG22	2.10	0.52
41:DG:131:TYR:CE2	41:DG:133:LEU:HD23	2.39	0.52
19:AS:31:ILE:O	19:AS:31:ILE:HG23	2.10	0.52
19:AS:41:VAL:O	19:AS:41:VAL:HG23	2.09	0.52
1:CA:972:C:H4'	10:CJ:57:LYS:CB	2.40	0.52
10:CJ:55:LYS:CE	10:CJ:55:LYS:N	2.63	0.52
51:DS:26:LEU:O	51:DS:88:ASP:HB3	2.10	0.52
41:DG:101:ILE:O	41:DG:104:GLU:HB3	2.10	0.52
35:BA:2816:C:O2	35:BA:2883:A:O2'	2.28	0.52
19:CS:19:VAL:CG1	19:CS:44:MET:HG2	2.40	0.52
52:BT:56:GLY:O	52:BT:59:THR:HG23	2.10	0.52
50:DR:10:LEU:HB3	50:DR:17:ARG:NE	2.25	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:486:THR:HG23	24:AY:600:VAL:HG13	1.91	0.52
58:DZ:81:ARG:HH11	58:DZ:81:ARG:HB3	1.73	0.52
4:AD:107:ARG:HH21	4:AD:194:LEU:HD12	1.75	0.52
4:AD:196:LEU:C	4:AD:198:VAL:H	2.12	0.52
1:AA:1026:G:C3'	1:AA:1027:C:H5'	2.40	0.52
29:D4:53:GLU:OE1	29:D4:55:ARG:HD3	2.09	0.52
9:CI:95:LYS:HD3	9:CI:95:LYS:C	2.29	0.52
35:BA:1542:A:H8	35:BA:1542:A:H3'	1.74	0.52
42:BH:159:GLU:O	42:BH:160:LYS:O	2.26	0.52
9:AI:69:GLY:O	9:AI:73:GLN:HG3	2.10	0.52
28:B3:56:VAL:CG1	28:B3:57:GLU:N	2.73	0.52
1:CA:630:G:H2'	1:CA:631:G:H5''	1.85	0.52
1:AA:1351:U:O4'	7:AG:33:ASP:HB3	2.09	0.52
28:B3:15:TYR:HD2	28:B3:19:GLN:HE22	1.57	0.52
35:DA:2105:C:H2'	35:DA:2106:G:H5'	1.91	0.52
48:DP:13:ASN:O	48:DP:14:LYS:CB	2.57	0.52
35:BA:1865:G:C2'	35:BA:1866:C:H5''	2.40	0.52
26:B1:68:PRO:C	26:B1:70:VAL:H	2.13	0.52
32:B7:46:VAL:CG1	32:B7:47:ARG:N	2.73	0.52
22:CW:52:C:H2'	22:CW:53:G:H5''	1.91	0.52
1:AA:189(A):C:H2'	1:AA:189(B):C:H6	1.74	0.52
35:DA:1865:G:C2'	35:DA:1866:C:H5''	2.40	0.52
35:BA:1491:G:N2	35:BA:1492:G:H1'	2.24	0.52
16:CP:50:LYS:HG2	16:CP:51:VAL:H	1.74	0.52
1:CA:818:G:O2'	1:CA:819:A:H5'	2.10	0.52
24:CY:334:THR:CG2	24:CY:368:GLU:HB2	2.40	0.52
35:DA:134:C:H2'	35:DA:135:G:C8	2.44	0.52
35:DA:455:C:N3	35:DA:473:G:H5'	2.25	0.52
13:AM:119:GLY:O	13:AM:120:LYS:HB2	2.10	0.52
35:DA:1908:C:H2'	35:DA:1909:C:H6	1.74	0.52
1:AA:418:C:H2'	1:AA:419:C:C6	2.45	0.52
1:AA:423:G:H2'	1:AA:424:G:H5'	1.91	0.52
35:BA:402:A:O2'	35:BA:403:U:H5'	2.10	0.52
35:BA:1624:G:O2'	35:BA:1625:C:H5'	2.10	0.52
2:CB:115:LEU:HD13	2:CB:145:LEU:HB3	1.91	0.52
35:DA:1983:C:O2'	35:DA:1984:G:H5'	2.10	0.52
1:CA:452:A:O2'	1:CA:453:A:H8	1.91	0.52
1:CA:680:C:O2'	1:CA:681:C:H5'	2.10	0.52
16:AP:19:ILE:N	16:AP:37:GLY:O	2.39	0.52
35:DA:123:G:O2'	35:DA:124:G:H5'	2.10	0.52
40:DF:117:ARG:NH2	48:DP:5:ASP:N	2.58	0.52
10:AJ:82:ILE:O	10:AJ:86:MET:CB	2.58	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:CD:17:VAL:O	4:CD:18:LYS:O	2.27	0.52
40:BF:110:LEU:CD1	40:BF:206:ILE:HD11	2.31	0.52
24:AY:180:VAL:HG23	24:AY:216:LEU:CD1	2.37	0.52
46:DN:10:GLU:CD	46:DN:11:PRO:HD2	2.30	0.52
24:AY:413:ILE:HD11	24:AY:474:ALA:HB3	1.92	0.52
35:DA:1568:G:P	38:DD:63:ARG:HH22	2.32	0.52
33:B8:13:ARG:HB3	48:BP:63:PRO:HB3	1.91	0.52
31:D6:9:LEU:HD22	31:D6:9:LEU:O	2.10	0.52
41:DG:139:LEU:HA	41:DG:144:ILE:HD13	1.92	0.52
41:DG:40:ASN:ND2	41:DG:90:LEU:O	2.42	0.52
41:DG:55:LYS:C	41:DG:57:ALA:N	2.63	0.52
41:DG:82:LEU:HD13	41:DG:87:PRO:CB	2.39	0.52
10:CJ:33:GLN:HB2	10:CJ:75:ILE:HD13	1.91	0.52
47:BO:63:VAL:O	47:BO:64:ARG:HG2	2.10	0.52
55:BW:88:ARG:HD3	55:BW:94:ASP:OD1	2.09	0.52
48:DP:39:LYS:HE2	48:DP:40:SER:N	2.17	0.52
24:CY:33:LEU:CD2	24:CY:360:ALA:HB2	2.27	0.52
31:D6:24:GLU:OE2	35:DA:2346:A:H8	1.93	0.52
1:AA:1129:C:H5'	1:AA:1129:C:C6	2.44	0.52
18:AR:37:VAL:HG23	18:AR:38:GLU:HG2	1.91	0.52
40:BF:9:ILE:HG12	40:BF:15:SER:N	2.24	0.52
24:AY:35:TYR:HH	24:AY:266:ASN:HB3	1.72	0.52
39:DE:117:MET:HA	39:DE:122:PHE:N	2.13	0.52
35:DA:142(A):C:O2'	35:DA:1597:A:H5''	2.09	0.52
35:DA:2307:G:N2	35:DA:2308:G:C5'	2.72	0.52
39:BE:116:VAL:HG21	39:BE:122:PHE:CD2	2.45	0.52
48:BP:102:ARG:O	48:BP:102:ARG:HG2	2.09	0.52
41:DG:133:LEU:CD1	41:DG:157:ILE:HD12	2.39	0.52
28:B3:17:LYS:HZ2	28:B3:20:LYS:HE3	1.74	0.52
46:DN:58:ASP:O	46:DN:60:ILE:HG13	2.09	0.52
1:CA:738:C:H5''	6:CF:69:GLU:HB2	1.91	0.52
50:DR:117:VAL:O	50:DR:118:GLU:CB	2.56	0.52
9:AI:93:ARG:HA	9:AI:96:LEU:HB2	1.91	0.52
15:CO:74:ASP:OD2	15:CO:77:ARG:HG2	2.09	0.52
24:CY:509:HIS:O	24:CY:510:VAL:HG23	2.10	0.52
24:AY:340:TYR:CE1	24:AY:351:ARG:HB2	2.45	0.52
35:BA:7:G:O2'	35:BA:8:A:H5'	2.10	0.52
24:CY:441:SER:O	24:CY:449:THR:HA	2.09	0.52
35:DA:2019:A:O4'	53:DU:34:LYS:HD2	2.09	0.52
50:DR:4:LEU:C	50:DR:6:SER:N	2.63	0.52
35:BA:1654:A:P	50:BR:3:HIS:HB2	2.49	0.52
50:BR:4:LEU:C	50:BR:6:SER:H	2.13	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
55:DW:20:VAL:HG23	55:DW:47:VAL:HG21	1.91	0.52
35:DA:1516:C:C2'	35:DA:1517:G:C5'	2.87	0.52
35:BA:881:G:C2'	35:BA:882:G:H5'	2.39	0.52
35:DA:841:A:H5'	35:DA:841:A:H8	1.73	0.52
1:CA:560:U:H4'	1:CA:561:U:H5''	1.92	0.52
34:B9:29:ASN:H	34:B9:29:ASN:ND2	2.07	0.52
3:AC:15:THR:CG2	3:AC:181:ASN:HA	2.40	0.52
35:DA:65:C:H5'	56:DX:71:GLY:HA3	1.91	0.52
49:BQ:12:GLN:NE2	49:BQ:72:LYS:HG3	2.24	0.52
1:AA:1347:G:HO2'	1:AA:1373:G:H1	1.58	0.52
8:AH:41:ARG:NH2	8:AH:123:GLU:CD	2.63	0.52
22:AW:1:C:H2'	22:AW:2:G:C8	2.40	0.52
55:DW:14:PRO:HG2	55:DW:78:GLU:HB2	1.91	0.52
1:AA:187:C:OP1	20:AT:82:SER:HB2	2.08	0.52
1:AA:490:G:H2'	1:AA:491:G:C8	2.41	0.52
38:DD:248:SER:HB2	38:DD:249:PRO:HD2	1.92	0.52
4:AD:120:LEU:HB3	4:AD:126:ILE:HD11	1.92	0.52
35:DA:271(E):U:H2'	35:DA:271(F):C:C6	2.44	0.52
54:DV:2:PHE:CE1	54:DV:13:ARG:NH1	2.77	0.52
50:DR:28:LEU:HD22	50:DR:29:LEU:HD12	1.92	0.52
46:DN:137:LYS:O	46:DN:138:LEU:HD23	2.09	0.52
1:AA:1409:C:O2'	1:AA:1410:G:H5'	2.10	0.52
15:AO:65:ARG:NH1	15:AO:65:ARG:HG2	2.25	0.52
35:DA:2220:G:H2'	35:DA:2221:G:H8	1.75	0.52
51:BS:51:ALA:HB3	51:BS:73:LEU:HB2	1.92	0.52
24:CY:374:LEU:HD12	24:CY:374:LEU:N	2.25	0.52
35:DA:2870:C:O2'	35:DA:2871:C:H5'	2.08	0.52
44:DK:74:ALA:HB2	44:DK:111:LYS:HE2	1.92	0.52
1:CA:155:C:H2'	1:CA:156:G:H8	1.75	0.52
46:BN:74:ARG:NH2	46:BN:83:LYS:HD3	2.24	0.52
40:DF:50:SER:HB2	40:DF:94:PRO:HD3	1.92	0.52
32:D7:17:GLY:O	32:D7:20:ALA:HB3	2.10	0.52
22:AW:12:G:N2	22:AW:13:C:H1'	2.25	0.52
35:DA:1666:G:C2'	35:DA:1667:G:H5'	2.39	0.52
35:BA:1853:A:H2'	35:BA:1854:A:C8	2.44	0.52
25:D0:23:VAL:HG11	25:D0:69:PHE:HZ	1.75	0.52
35:BA:1400:G:H2'	35:BA:1401:G:C8	2.44	0.52
7:AG:69:VAL:HG21	7:AG:104:LEU:HD21	1.92	0.52
41:BG:62:LEU:HD12	41:BG:62:LEU:N	2.23	0.52
10:AJ:3:LYS:HG3	10:AJ:75:ILE:O	2.10	0.52
56:BX:55:ASN:HB2	56:BX:80:ILE:HG12	1.91	0.52
24:AY:19:ALA:HA	24:AY:121:VAL:HG11	1.91	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1204:A:N1	35:BA:1241:A:H2	2.07	0.52
46:DN:3:THR:C	46:DN:4:TYR:CD1	2.83	0.52
53:DU:99:ALA:HB2	53:DU:106:PHE:CE1	2.44	0.52
35:BA:941:A:H4'	48:BP:35:HIS:HE1	1.74	0.52
57:DY:7:VAL:HB	57:DY:8:LYS:CE	2.40	0.52
57:DY:96:ILE:CD1	57:DY:99:CYS:SG	2.98	0.52
56:BX:10:ALA:HB1	56:BX:11:PRO:CD	2.40	0.52
31:D6:10:LEU:HB3	33:D8:34:TRP:HD1	1.75	0.52
33:D8:51:ALA:HA	33:D8:54:GLU:OE1	2.09	0.52
1:AA:1303:C:N4	1:AA:1304:G:C6	2.78	0.52
35:DA:1453:U:H2'	35:DA:1455:G:N7	2.25	0.52
3:CC:72:LYS:HE3	3:CC:72:LYS:HA	1.92	0.52
24:CY:152:THR:CG2	24:CY:153:MET:N	2.73	0.52
30:B5:41:PRO:O	30:B5:44:THR:OG1	2.20	0.52
30:B5:45:VAL:HG22	30:B5:51:TYR:CD1	2.44	0.52
31:D6:13:CYS:HB3	31:D6:49:HIS:HB3	1.91	0.52
5:CE:76:ILE:CG2	5:CE:118:ILE:HD13	2.40	0.52
39:DE:38:THR:CB	39:DE:41:LYS:HG2	2.32	0.52
35:DA:514:A:H2'	35:DA:515:A:H8	1.73	0.52
26:B1:86:SER:O	26:B1:90:ILE:N	2.43	0.52
54:DV:16:PRO:O	54:DV:96:ILE:O	2.28	0.52
48:BP:107:LYS:HG3	48:BP:107:LYS:O	2.10	0.52
2:CB:189:ASP:O	2:CB:191:ASP:N	2.43	0.52
39:DE:77:ILE:C	39:DE:78:LEU:HG	2.30	0.52
10:AJ:55:LYS:HE3	10:AJ:55:LYS:N	2.25	0.52
27:B2:38:GLN:HA	27:B2:41:ILE:HG23	1.91	0.52
20:AT:26:ASN:HB2	20:AT:71:THR:HG23	1.92	0.52
17:CQ:66:SER:O	17:CQ:70:ARG:NH1	2.43	0.52
39:BE:10:GLY:HA2	39:BE:192:ASN:HD21	1.75	0.52
39:DE:176:ILE:CG2	39:DE:178:GLU:HB3	2.36	0.52
1:CA:297:G:H4'	1:CA:557:G:H4'	1.92	0.52
52:BT:50:ILE:CG1	52:BT:102:ILE:HD11	2.40	0.52
35:BA:259:G:H1'	35:BA:621:A:O2'	2.09	0.52
9:AI:79:LEU:HD11	9:AI:83:ARG:CD	2.40	0.52
35:DA:1654:A:H2	39:DE:113:PHE:CD1	2.28	0.52
51:DS:30:ARG:HH22	51:DS:62:LYS:HD2	1.75	0.52
35:DA:2177:C:O2	37:DC:173:HIS:HE1	1.92	0.52
35:BA:2776:A:H4'	35:BA:2777:G:H5''	1.92	0.52
46:DN:35:ARG:O	46:DN:37:LYS:HB2	2.09	0.52
6:AF:45:LEU:O	6:AF:46:ARG:CG	2.56	0.52
35:DA:2118:U:OP1	35:DA:2148:G:H4'	2.10	0.52
24:CY:15:ILE:HD12	24:CY:81:ILE:HG23	1.90	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:383:A:C2'	1:AA:384:G:H5'	2.40	0.52
1:AA:1368:G:C2'	1:AA:1369:C:H5'	2.40	0.52
9:AI:48:GLU:N	9:AI:49:PRO:CD	2.73	0.52
12:AL:86:ARG:O	12:AL:86:ARG:HG2	2.08	0.52
56:BX:63:LYS:HA	56:BX:72:LYS:HA	1.91	0.52
25:D0:74:ARG:HG2	36:DB:13:A:OP2	2.10	0.52
53:DU:26:GLY:C	53:DU:28:ARG:H	2.14	0.52
7:AG:120:ILE:HG22	7:AG:124:LEU:CD1	2.39	0.52
24:CY:68:ALA:HB3	24:CY:327:PHE:CD1	2.45	0.52
37:DC:120:VAL:O	37:DC:124:VAL:HG23	2.10	0.52
39:DE:10:GLY:HA2	39:DE:192:ASN:HD21	1.75	0.52
1:CA:263:A:OP2	20:CT:79:ARG:NH1	2.43	0.52
13:AM:54:VAL:HG12	13:AM:58:GLU:HG2	1.91	0.52
48:BP:89:ALA:HA	48:BP:121:LYS:HD3	1.91	0.52
16:AP:4:ILE:HG13	16:AP:64:ALA:HB1	1.92	0.52
1:CA:715:A:H2'	1:CA:716:A:H8	1.75	0.52
49:BQ:97:VAL:HG11	49:BQ:103:MET:HE1	1.90	0.52
37:BC:42:VAL:O	37:BC:176:VAL:HG22	2.10	0.52
1:CA:352:C:H4'	1:CA:354:G:OP1	2.08	0.52
1:CA:164:U:H2'	1:CA:165:C:C6	2.44	0.52
1:CA:781:A:H2'	1:CA:782:A:H5'	1.90	0.52
1:AA:352:C:H4'	1:AA:354:G:OP1	2.10	0.52
50:DR:53:HIS:O	50:DR:53:HIS:ND1	2.42	0.52
6:AF:44:GLY:HA2	6:AF:59:TYR:CE1	2.45	0.52
35:BA:1097:U:H2'	35:BA:1098:A:H5'	1.91	0.52
35:BA:1913:A:H4'	35:BA:1914:C:H5''	1.92	0.52
22:CW:16:C:O2	22:CW:61:U:H4'	2.10	0.52
35:BA:1040:C:C4	35:BA:1041:C:C4	2.98	0.52
22:CV:9:G:O2'	22:CV:10:G:N7	2.35	0.52
35:DA:1432:C:H2'	35:DA:1433:U:O4'	2.09	0.52
35:DA:2691:C:H6	35:DA:2691:C:H5'	1.75	0.52
54:BV:99:ILE:N	54:BV:99:ILE:HD13	2.25	0.52
24:CY:236:GLU:HG3	24:CY:236:GLU:O	2.08	0.52
10:AJ:32:ALA:N	10:AJ:78:ASN:HD21	2.06	0.52
1:CA:509:A:N1	1:CA:510:A:C2	2.78	0.52
24:AY:86:GLY:O	24:AY:88:VAL:HG22	2.09	0.52
53:DU:79:PHE:CE2	53:DU:83:LEU:HD11	2.45	0.52
24:AY:12:LEU:CB	24:AY:283:PRO:HG2	2.39	0.52
54:BV:49:THR:HB	54:BV:50:PRO:HD2	1.92	0.52
31:B6:27:LYS:HZ2	31:B6:30:THR:HB	1.75	0.52
35:DA:252:G:O2'	35:DA:253:C:H5'	2.09	0.52
48:DP:62:LEU:H	48:DP:62:LEU:HD22	1.75	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:154(A):C:N4	35:DA:172:C:H42	2.08	0.52
40:BF:9:ILE:HG12	40:BF:14:PRO:C	2.30	0.52
22:CW:20:G:H4'	22:CW:21:U:OP1	2.09	0.52
44:DK:106:GLU:CA	44:DK:109:LYS:HD3	2.30	0.52
48:BP:101:VAL:HG12	48:BP:106:LEU:CB	2.40	0.52
41:DG:133:LEU:CD1	41:DG:157:ILE:HB	2.30	0.52
41:DG:94:LEU:HD22	41:DG:98:ARG:CB	2.39	0.52
35:BA:2747:G:H21	35:BA:2757:A:H62	1.56	0.52
35:BA:2590:A:OP2	38:BD:238:GLY:HA2	2.10	0.52
58:DZ:18:LEU:O	58:DZ:21:ALA:HB3	2.10	0.52
58:DZ:17:ALA:O	58:DZ:20:ARG:HG2	2.09	0.52
50:BR:28:LEU:HD22	50:BR:29:LEU:HD12	1.91	0.52
22:CW:14:A:C2'	22:CW:15:G:H5''	2.40	0.52
35:BA:677:A:H4'	35:BA:2070:G:O2'	2.10	0.52
24:AY:373:ASP:C	24:AY:374:LEU:HD12	2.29	0.52
30:D5:48:GLU:O	30:D5:49:CYS:SG	2.68	0.52
46:DN:87:LEU:O	46:DN:90:MET:N	2.43	0.52
1:CA:1495:U:C2	1:CA:1496:C:C5	2.97	0.52
52:BT:55:ASN:HD22	52:BT:58:ASN:ND2	2.07	0.52
40:DF:66:PRO:O	40:DF:67:GLN:HB3	2.09	0.52
35:BA:2461:C:H42	35:BA:2489:G:H1	1.58	0.52
22:CV:36:U:O2	24:CY:502:GLY:HA2	2.10	0.52
1:AA:1313:U:OP2	19:AS:6:LYS:CB	2.58	0.52
44:DK:17:ALA:HB3	44:DK:38:VAL:CG2	2.38	0.52
50:BR:12:ARG:HB3	50:BR:16:HIS:CD2	2.45	0.52
13:CM:9:ILE:N	13:CM:9:ILE:HD12	2.25	0.52
29:B4:31:ILE:CG2	29:B4:33:VAL:HG23	2.39	0.52
15:AO:53:HIS:O	15:AO:56:LEU:HB3	2.10	0.52
4:CD:2:GLY:O	4:CD:4:TYR:N	2.43	0.52
37:DC:117:THR:HG22	37:DC:147:GLY:O	2.09	0.52
12:CL:23:LYS:HE3	12:CL:89:ARG:HE	1.75	0.52
35:DA:2873:A:H4'	50:DR:8:ARG:NH2	2.25	0.52
28:B3:28:LEU:CD2	28:B3:35:ARG:HD2	2.40	0.52
10:CJ:92:THR:HG23	10:CJ:93:GLY:N	2.24	0.52
1:AA:375:U:H4'	16:AP:17:TYR:CE2	2.45	0.52
35:DA:2105:C:C2'	35:DA:2106:G:H5'	2.39	0.52
25:B0:20:ARG:HG2	25:B0:20:ARG:HH11	1.75	0.52
8:AH:64:LYS:HD2	8:AH:79:VAL:HG21	1.92	0.52
1:AA:658:G:H2'	1:AA:659:U:C6	2.45	0.52
4:AD:36:ARG:HH11	4:AD:36:ARG:CG	2.23	0.52
36:BB:29:A:H3'	51:BS:32:LEU:HD11	1.92	0.52
35:DA:483:A:N3	35:DA:483:A:H2'	2.25	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
30:D5:42:PRO:HB2	30:D5:43:HIS:CD2	2.45	0.52
26:B1:30:VAL:H	35:BA:2396:G:H4'	1.73	0.52
35:BA:1930:G:N2	35:BA:1968:G:H2'	2.25	0.52
20:CT:33:ILE:HD13	20:CT:63:ILE:HA	1.90	0.52
13:CM:80:ARG:O	13:CM:83:ASP:HB3	2.10	0.52
35:DA:1231:G:H2'	35:DA:1232:G:C8	2.45	0.52
8:CH:6:ILE:H	8:CH:6:ILE:CD1	2.23	0.52
27:B2:53:LEU:O	27:B2:53:LEU:HD23	2.09	0.52
35:BA:634:C:H2'	35:BA:635:C:C6	2.45	0.52
43:BJ:6:UNK:O	43:BJ:8:UNK:N	2.43	0.52
7:CG:78:ARG:HH11	7:CG:78:ARG:HG3	1.75	0.52
44:BK:132:ARG:HG3	44:BK:132:ARG:HH11	1.74	0.52
40:BF:100:THR:O	40:BF:100:THR:HG22	2.08	0.52
30:B5:39:MET:HG3	55:BW:34:ASN:ND2	2.25	0.52
35:BA:2373:G:H2'	35:BA:2374:C:C6	2.45	0.52
41:BG:146:TYR:O	41:BG:149:VAL:HG12	2.09	0.51
41:BG:163:ALA:HB1	41:BG:168:GLU:HB2	1.91	0.51
42:DH:97:ARG:O	42:DH:98:LEU:C	2.47	0.51
35:DA:2050:C:O2'	35:DA:2051:A:H5'	2.10	0.51
24:AY:205:TYR:O	24:AY:207:ASP:N	2.43	0.51
50:BR:99:LYS:CD	50:BR:99:LYS:N	2.59	0.51
41:BG:77:ILE:HG21	41:BG:80:PHE:CB	2.40	0.51
46:BN:10:GLU:CD	46:BN:11:PRO:HD2	2.31	0.51
53:BU:57:PHE:C	53:BU:59:ARG:N	2.62	0.51
48:BP:47:ASP:HB3	48:BP:48:PRO:O	2.09	0.51
35:DA:303:U:H2'	35:DA:304:G:H8	1.74	0.51
35:BA:272(I):U:C4	35:BA:363(A):A:N1	2.74	0.51
35:BA:302:C:H2'	35:BA:303:U:C6	2.45	0.51
10:CJ:27:ALA:HB2	10:CJ:85:LEU:HD11	1.92	0.51
30:B5:40:LYS:HZ1	30:B5:46:CYS:H	1.57	0.51
47:DO:113:LYS:O	47:DO:117:LEU:HD12	2.10	0.51
31:B6:15:GLU:OE1	31:B6:41:PRO:CG	2.58	0.51
35:DA:1058:G:H21	44:DK:126:MET:CE	2.23	0.51
35:BA:154(A):C:N4	35:BA:172:C:H42	2.07	0.51
53:DU:10:ARG:O	53:DU:12:ARG:N	2.43	0.51
35:DA:1192:G:H2'	35:DA:1193:G:O4'	2.10	0.51
39:BE:116:VAL:HG22	39:BE:122:PHE:CG	2.46	0.51
2:AB:121:LEU:HA	2:AB:124:SER:HB3	1.91	0.51
35:BA:2811:G:O2'	35:BA:2812:G:H5'	2.10	0.51
35:BA:2810:A:H2'	39:BE:61:ARG:HH21	1.74	0.51
35:DA:2810:A:H2'	39:DE:61:ARG:HH21	1.74	0.51
35:DA:2296:U:C4'	35:DA:2297:C:OP1	2.52	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:D4:22:ILE:HD12	29:D4:22:ILE:N	2.25	0.51
49:BQ:2:LEU:O	49:BQ:3:MET:HB3	2.09	0.51
49:BQ:69:PHE:CD1	49:BQ:70:PRO:HD2	2.44	0.51
36:DB:87:G:O3'	36:DB:88:C:C6	2.63	0.51
24:AY:486:THR:HG21	24:AY:602:LEU:HD11	1.92	0.51
52:DT:50:ILE:HA	52:DT:99:LEU:CD1	2.40	0.51
24:CY:533:VAL:HG12	24:CY:571:SER:HA	1.92	0.51
1:AA:1512:U:H2'	1:AA:1513:A:C8	2.45	0.51
38:BD:26:LYS:HE2	38:BD:26:LYS:HA	1.91	0.51
3:CC:173:VAL:N	3:CC:174:PRO:HD3	2.25	0.51
12:AL:27:LEU:C	12:AL:29:GLY:N	2.62	0.51
42:DH:54:ARG:O	42:DH:54:ARG:HD2	2.10	0.51
35:BA:860:U:O4'	35:BA:860:U:O2	2.28	0.51
9:CI:73:GLN:O	9:CI:76:ALA:N	2.44	0.51
44:DK:17:ALA:HB1	44:DK:38:VAL:HG22	1.92	0.51
35:DA:1164:G:H1	35:DA:1185:C:H42	1.57	0.51
4:AD:159:ARG:O	4:AD:163:GLU:N	2.43	0.51
1:AA:1287:A:H2'	1:AA:1288:A:C8	2.45	0.51
35:DA:278:A:C2	35:DA:279:C:C2	2.98	0.51
55:BW:36:LEU:HD12	55:BW:48:ALA:HA	1.92	0.51
1:AA:1131:G:C6	1:AA:1132:C:N4	2.79	0.51
35:BA:2543:G:H8	35:BA:2543:G:H5'	1.75	0.51
3:CC:134:ILE:O	3:CC:137:ALA:N	2.43	0.51
47:DO:64:ARG:HH21	47:DO:100:GLY:HA3	1.75	0.51
24:CY:427:ALA:HB1	24:CY:466:LEU:CG	2.40	0.51
1:CA:346:G:H2'	1:CA:347:G:O4'	2.10	0.51
1:AA:1152:A:OP1	10:AJ:68:HIS:CD2	2.63	0.51
1:AA:1152:A:OP1	10:AJ:68:HIS:HD2	1.93	0.51
1:AA:59:A:H3'	1:AA:331:G:H22	1.75	0.51
48:BP:13:ASN:O	48:BP:14:LYS:CB	2.58	0.51
1:CA:512:U:H2'	1:CA:513:C:C6	2.45	0.51
38:DD:28:GLU:H	38:DD:29:PRO:HD2	1.75	0.51
12:AL:97:ARG:C	12:AL:98:TYR:CD1	2.83	0.51
35:BA:1887:C:C3'	35:BA:1888:G:H5''	2.39	0.51
42:BH:104:GLU:HA	42:BH:113:VAL:O	2.10	0.51
1:CA:433:C:O2'	1:CA:434:U:H5'	2.10	0.51
35:DA:1400:G:H2'	35:DA:1401:G:C8	2.45	0.51
35:DA:1310:G:H2'	35:DA:1311:G:H5'	1.92	0.51
35:BA:445:C:O2'	35:BA:446:G:H5'	2.09	0.51
55:DW:80:PRO:O	55:DW:100:THR:HG21	2.10	0.51
35:BA:1465:G:H2'	35:BA:1466:G:H8	1.75	0.51
50:BR:104:ARG:HG3	50:BR:111:LEU:HD21	1.91	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:CY:549:ALA:HB2	24:CY:587:SER:OG	2.09	0.51
35:DA:634:C:H2'	35:DA:635:C:C6	2.45	0.51
18:CR:66:LEU:HG	18:CR:70:ILE:HD11	1.91	0.51
6:CF:3:ARG:HH11	6:CF:3:ARG:HG3	1.75	0.51
36:DB:35:U:O2	36:DB:35:U:H2'	2.08	0.51
1:CA:117:G:O5'	1:CA:117:G:H8	1.92	0.51
41:BG:51:ARG:HA	41:BG:51:ARG:HE	1.74	0.51
56:BX:12:VAL:HG12	56:BX:27:THR:C	2.31	0.51
35:DA:2050:C:H1'	39:DE:156:MET:CE	2.40	0.51
53:DU:95:LEU:CD1	54:DV:11:GLN:HG3	2.39	0.51
24:AY:9:LEU:O	24:AY:11:ARG:N	2.44	0.51
31:B6:31:PRO:O	31:B6:32:ASN:OD1	2.28	0.51
31:B6:10:LEU:HD12	33:B8:34:TRP:HB2	1.93	0.51
31:B6:54:ILE:HD13	35:BA:2420:C:H5'	1.92	0.51
40:DF:168:ARG:C	40:DF:170:LEU:H	2.14	0.51
57:DY:85:VAL:HG13	57:DY:93:GLY:O	2.10	0.51
57:BY:28:LYS:HE3	57:BY:30:VAL:HG22	1.92	0.51
35:DA:2392:A:H2	35:DA:2424:C:H42	1.58	0.51
29:D4:10:VAL:CG2	29:D4:11:PRO:HD2	2.36	0.51
41:DG:71:THR:CG2	41:DG:89:GLY:HA3	2.40	0.51
10:CJ:3:LYS:HD2	10:CJ:77:PRO:CD	2.40	0.51
35:BA:943:U:OP2	48:BP:38:GLN:CD	2.48	0.51
31:D6:15:GLU:OE2	31:D6:44:ARG:CZ	2.57	0.51
49:DQ:55:VAL:HG23	58:DZ:178:GLU:HG3	1.91	0.51
47:BO:111:PHE:O	47:BO:115:VAL:HG23	2.10	0.51
39:BE:63:LEU:O	39:BE:64:LYS:C	2.48	0.51
35:BA:2572:A:C8	39:BE:144:ARG:HB3	2.45	0.51
1:CA:963:G:H21	10:CJ:55:LYS:CD	2.24	0.51
35:BA:1145:C:H2'	35:BA:1146:C:H6	1.75	0.51
35:DA:2377:A:O2'	35:DA:2378:A:H5'	2.09	0.51
3:AC:90:GLU:HA	3:AC:93:LYS:HB3	1.92	0.51
40:BF:69:HIS:N	40:BF:69:HIS:CD2	2.78	0.51
4:AD:129:ASN:N	4:AD:129:ASN:HD22	2.07	0.51
42:BH:44:VAL:HG12	42:BH:45:VAL:H	1.75	0.51
26:D1:53:VAL:CG2	26:D1:74:VAL:HG13	2.41	0.51
26:D1:73:LEU:HD23	26:D1:73:LEU:O	2.11	0.51
1:CA:814:A:H2'	1:CA:816:A:C5'	2.38	0.51
10:CJ:8:LEU:HB2	10:CJ:70:ARG:O	2.09	0.51
32:D7:48:LYS:NZ	35:DA:125:G:H21	2.06	0.51
37:DC:30:VAL:O	37:DC:33:LEU:N	2.43	0.51
1:CA:1313:U:OP2	19:CS:6:LYS:CB	2.58	0.51
35:BA:841:A:H8	35:BA:841:A:H5'	1.75	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:BH:140:LYS:O	42:BH:144:VAL:HG23	2.10	0.51
52:BT:128:GLU:O	52:BT:129:ARG:HD3	2.11	0.51
24:CY:125:ALA:C	24:CY:127:LYS:N	2.62	0.51
24:CY:95:GLU:OE2	24:CY:124:GLN:HB3	2.11	0.51
22:AV:52:G:C2	22:AV:53:G:C8	2.99	0.51
35:BA:750:A:H3'	35:BA:751:A:H5''	1.92	0.51
36:BB:60:C:H2'	36:BB:61:G:C8	2.41	0.51
24:AY:688:ILE:O	24:AY:688:ILE:HG22	2.10	0.51
35:DA:1683:C:H2'	35:DA:1684:C:H6	1.76	0.51
10:CJ:22:LYS:O	10:CJ:22:LYS:HD2	2.11	0.51
35:BA:2199:A:H3'	35:BA:2200:C:C6	2.46	0.51
35:BA:1721:G:H8	35:BA:1741:A:H62	1.58	0.51
54:BV:25:LEU:H	54:BV:92:THR:HG21	1.74	0.51
36:DB:77:U:O2'	58:DZ:78:LYS:HE2	2.10	0.51
1:CA:1478:C:O2'	1:CA:1479:C:H5'	2.10	0.51
1:CA:539:A:H2'	1:CA:540:G:H8	1.74	0.51
6:CF:19:LEU:C	6:CF:19:LEU:HD23	2.30	0.51
16:AP:60:LEU:HD21	16:AP:66:PRO:HD3	1.92	0.51
35:BA:1231:G:H2'	35:BA:1232:G:C8	2.43	0.51
1:AA:665:A:H2'	1:AA:732:C:O2	2.11	0.51
58:DZ:141:VAL:HG22	58:DZ:150:LEU:HD11	1.92	0.51
38:BD:134:ARG:HG2	38:BD:187:GLY:O	2.11	0.51
57:DY:43:ASN:HA	57:DY:64:GLU:HA	1.93	0.51
24:CY:215:LYS:HA	24:CY:218:GLU:HB3	1.92	0.51
24:AY:644:ARG:O	24:AY:645:ALA:HB2	2.10	0.51
4:AD:153:ARG:HG2	4:AD:153:ARG:NH1	2.25	0.51
35:DA:402:A:O2'	35:DA:403:U:H5'	2.08	0.51
35:BA:2373:G:O2'	35:BA:2374:C:H5'	2.10	0.51
1:CA:1058:G:H2'	1:CA:1059:C:C6	2.44	0.51
11:AK:29:ILE:HB	11:AK:44:SER:HB2	1.92	0.51
4:AD:150:GLU:HG2	4:AD:151:LYS:N	2.24	0.51
39:DE:203:LYS:HG3	39:DE:204:ALA:N	2.25	0.51
35:DA:1573:G:H2'	35:DA:1574:C:H5'	1.92	0.51
1:CA:1394:A:N6	1:CA:1501:C:H5'	2.26	0.51
1:CA:111:G:O6	1:CA:330:C:N4	2.42	0.51
44:BK:84:LEU:HD21	44:BK:96:VAL:HB	1.91	0.51
35:DA:2422:A:H4'	35:DA:2423:U:OP1	2.10	0.51
19:AS:27:GLU:O	19:AS:28:LYS:O	2.28	0.51
42:BH:173:PRO:O	42:BH:175:LYS:N	2.43	0.51
41:BG:63:ILE:HD12	41:BG:63:ILE:C	2.31	0.51
37:BC:84:ILE:HG12	37:BC:96:GLY:O	2.10	0.51
35:BA:2733:A:H2'	35:BA:2734:A:O4'	2.10	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
12:AL:59:ARG:NE	24:AY:422:GLU:OE2	2.44	0.51
33:B8:33:ASN:HA	33:B8:36:LYS:HG3	1.93	0.51
35:BA:664:C:O2'	35:BA:665:C:H5'	2.10	0.51
57:DY:97:ARG:NH1	57:DY:97:ARG:HG3	2.24	0.51
48:BP:38:GLN:CG	48:BP:39:LYS:H	2.07	0.51
47:BO:60:ALA:C	47:BO:87:ILE:HD11	2.31	0.51
44:DK:112:MET:N	44:DK:113:PRO:CD	2.72	0.51
35:DA:2308:G:H22	41:DG:79:ASN:HB2	1.73	0.51
48:DP:127:ALA:HB3	48:DP:130:PHE:CE1	2.45	0.51
33:B8:4:MET:HE1	33:B8:61:LEU:HD22	1.92	0.51
48:BP:128:HIS:ND1	48:BP:148:LEU:HD13	2.25	0.51
2:CB:51:LEU:CD2	2:CB:55:PHE:HE2	2.24	0.51
19:AS:13:ASP:C	19:AS:15:LEU:N	2.63	0.51
29:B4:51:ASP:OD2	29:B4:52:THR:N	2.43	0.51
35:BA:2206:G:C2	35:BA:2207:G:H5'	2.45	0.51
35:BA:281:G:N2	35:BA:358:U:C5	2.79	0.51
2:AB:84:GLU:HB3	2:AB:219:VAL:HG21	1.91	0.51
24:AY:33:LEU:HD11	24:AY:81:ILE:HD12	1.93	0.51
24:AY:15:ILE:CD1	24:AY:81:ILE:HG12	2.38	0.51
2:AB:223:ILE:O	2:AB:225:ALA:N	2.44	0.51
39:BE:132:HIS:CD2	39:BE:135:HIS:NE2	2.78	0.51
37:DC:153:ILE:O	37:DC:157:ILE:HG13	2.11	0.51
35:DA:2562:U:H1'	47:DO:23:ARG:NH1	2.19	0.51
26:B1:11:ARG:HB2	26:B1:12:PRO:HD2	1.92	0.51
52:BT:55:ASN:H	52:BT:59:THR:HG21	1.76	0.51
1:CA:1509:C:O2'	1:CA:1510:U:H5'	2.10	0.51
5:AE:60:TYR:HE1	5:AE:64:ARG:NH2	2.08	0.51
9:CI:79:LEU:HD11	9:CI:83:ARG:CD	2.40	0.51
1:AA:439:A:H2'	1:AA:441:A:H5'	1.92	0.51
40:DF:160:ASN:HD22	40:DF:161:GLU:N	2.07	0.51
20:CT:57:ARG:HH11	20:CT:102:GLY:HA2	1.75	0.51
1:CA:1123:A:O3'	10:CJ:36:GLY:HA3	2.09	0.51
35:BA:1516:C:C2'	35:BA:1517:G:C5'	2.88	0.51
1:AA:1271:G:H2'	1:AA:1272:G:C8	2.45	0.51
1:AA:1029:C:O2'	1:AA:1032:G:N2	2.43	0.51
2:CB:233:SER:OG	2:CB:234:PRO:HD2	2.10	0.51
12:AL:39:VAL:HB	12:AL:57:LYS:HB2	1.91	0.51
4:CD:176:LEU:HD12	4:CD:177:ASP:N	2.25	0.51
35:DA:1829:A:N3	38:DD:15:PHE:CZ	2.78	0.51
12:CL:39:VAL:HG21	12:CL:57:LYS:HD2	1.91	0.51
1:AA:779:C:O2'	11:AK:120:ARG:HD3	2.09	0.51
13:CM:56:LEU:HD13	13:CM:60:VAL:HG23	1.92	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AE:36:ASP:O	5:AE:37:ARG:CB	2.58	0.51
54:DV:5:VAL:HG23	54:DV:37:VAL:HG23	1.91	0.51
24:CY:294:PRO:HG2	24:CY:295:GLU:OE2	2.11	0.51
35:BA:389:G:N1	48:BP:71:VAL:HG12	2.23	0.51
11:AK:48:ILE:HG22	11:AK:49:GLY:N	2.25	0.51
4:AD:101:LEU:HD23	4:AD:121:VAL:HG13	1.92	0.51
38:BD:28:GLU:H	38:BD:29:PRO:HD2	1.75	0.51
18:AR:40:LEU:C	18:AR:42:ARG:N	2.64	0.51
38:BD:248:SER:HB2	38:BD:249:PRO:HD2	1.92	0.51
1:AA:1412:C:H2'	1:AA:1413:A:C8	2.45	0.51
54:DV:13:ARG:HG3	54:DV:13:ARG:HH11	1.74	0.51
54:BV:13:ARG:HG3	54:BV:13:ARG:HH11	1.75	0.51
35:DA:1210:A:H5''	35:DA:1212:G:O4'	2.11	0.51
55:DW:9:TYR:H	55:DW:102:HIS:CD2	2.28	0.51
1:CA:1365:G:O2'	1:CA:1366:C:H5'	2.09	0.51
41:DG:181:ARG:NH1	41:DG:181:ARG:HB2	2.26	0.51
38:DD:78:LYS:HG2	38:DD:79:VAL:N	2.24	0.51
35:BA:537:C:H6	35:BA:537:C:O5'	1.93	0.51
35:DA:860:U:O2	35:DA:860:U:O4'	2.29	0.51
49:DQ:41:TRP:NE1	49:DQ:96:VAL:HG22	2.24	0.51
1:AA:263:A:OP2	20:AT:79:ARG:NH1	2.43	0.51
35:BA:648:G:H2'	35:BA:649:G:C8	2.44	0.51
35:DA:338:G:H2'	35:DA:339:U:C6	2.45	0.51
35:BA:1161:C:H1'	54:BV:8:GLY:O	2.10	0.51
35:DA:2716:U:O2'	35:DA:2717:G:H5'	2.11	0.51
22:AW:44:A:H2'	22:AW:45:A:C8	2.46	0.51
1:CA:529:G:O6	12:CL:49:ASN:HA	2.10	0.51
24:AY:385:THR:HG21	24:AY:436:PRO:HG3	1.92	0.51
1:AA:622:A:C8	1:AA:623:C:C5	2.98	0.51
32:B7:17:GLY:O	32:B7:20:ALA:HB3	2.10	0.51
40:DF:24:LEU:O	40:DF:26:ALA:N	2.42	0.51
24:CY:606:MET:HE3	24:CY:671:MET:HG2	1.92	0.51
24:CY:90:PHE:HD1	24:CY:90:PHE:H	1.59	0.51
41:BG:77:ILE:CG2	41:BG:80:PHE:N	2.62	0.51
35:DA:613:G:C8	35:DA:613:G:H5'	2.44	0.51
35:BA:941:A:H4'	48:BP:35:HIS:CE1	2.45	0.51
57:DY:95:LYS:CD	57:DY:101:LYS:H	2.24	0.51
57:DY:14:LEU:HD11	57:DY:22:GLY:HA2	1.92	0.51
58:DZ:10:ARG:HD2	58:DZ:36:LYS:CE	2.25	0.51
35:DA:272(I):U:O2	35:DA:272(I):U:C3'	2.59	0.51
41:DG:58:GLN:O	41:DG:61:ALA:HB3	2.10	0.51
41:DG:57:ALA:HA	41:DG:90:LEU:CD2	2.41	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:CY:110:SER:HA	24:CY:149:VAL:HG21	1.93	0.51
24:CY:153:MET:HA	24:CY:157:LEU:CD2	2.30	0.51
30:B5:44:THR:HG23	50:BR:101:ALA:N	2.25	0.51
3:CC:32:LEU:O	3:CC:35:GLU:HB3	2.10	0.51
39:DE:38:THR:O	39:DE:42:ASP:HB2	2.11	0.51
35:DA:1596:A:O2'	35:DA:1597:A:H5'	2.10	0.51
35:DA:2307:G:H21	35:DA:2308:G:C5'	2.23	0.51
35:BA:1782:C:H2'	35:BA:1783:A:H5'	1.92	0.51
1:AA:1014:A:H5''	19:AS:14:HIS:HB2	1.92	0.51
39:DE:34:VAL:O	39:DE:34:VAL:HG22	2.11	0.51
39:BE:34:VAL:HG12	39:BE:48:GLN:O	2.10	0.51
39:BE:69:LYS:O	39:BE:70:ALA:C	2.48	0.51
26:B1:76:ARG:HH22	26:B1:95:LEU:CD2	2.24	0.51
29:D4:19:GLY:O	29:D4:20:ASN:C	2.49	0.51
54:DV:19:LYS:NZ	54:DV:22:VAL:HG13	2.25	0.51
35:DA:2820:A:O3'	50:DR:5:LYS:HE3	2.11	0.51
54:BV:19:LYS:NZ	54:BV:22:VAL:HG13	2.26	0.51
54:DV:62:LEU:N	54:DV:62:LEU:HD22	2.25	0.51
10:CJ:51:ARG:H	10:CJ:60:ARG:HA	1.75	0.51
12:CL:78:GLN:O	12:CL:79:GLU:C	2.47	0.51
6:CF:67:MET:HE1	6:CF:72:VAL:HA	1.92	0.51
36:BB:87:G:O3'	36:BB:88:C:C6	2.63	0.51
1:CA:769:G:H4'	1:CA:1513:A:H4'	1.92	0.51
35:DA:1947:C:H2'	35:DA:1948:G:C5'	2.36	0.51
58:BZ:142:SER:H	58:BZ:144:LEU:CD2	2.21	0.51
35:DA:1654:A:OP2	50:DR:3:HIS:HB2	2.10	0.51
35:DA:7:G:O2'	35:DA:8:A:H5'	2.11	0.51
1:CA:1026:G:C3'	1:CA:1027:C:H5'	2.40	0.51
35:DA:260:G:H1'	35:DA:621:A:H1'	1.92	0.51
35:DA:1576:U:H2'	35:DA:1577:C:C6	2.46	0.51
46:BN:35:ARG:HB3	46:BN:42:TRP:CH2	2.45	0.51
36:DB:94:C:H2'	36:DB:95:C:H6	1.75	0.51
35:BA:2177:C:O2	37:BC:173:HIS:HE1	1.92	0.51
3:AC:15:THR:HG21	3:AC:181:ASN:HA	1.91	0.51
35:DA:1721:G:H8	35:DA:1741:A:H62	1.58	0.51
52:BT:62:THR:HG22	52:BT:75:ILE:HG13	1.92	0.51
38:BD:153:ALA:O	38:BD:154:LYS:CG	2.58	0.51
35:BA:828:U:C5	35:BA:829:A:N6	2.79	0.51
3:CC:179:ARG:NH2	3:CC:206:GLU:OE2	2.43	0.51
13:CM:54:VAL:HG12	13:CM:58:GLU:HG2	1.91	0.51
24:CY:553:GLY:H	24:CY:557:GLY:CA	2.24	0.51
19:AS:24:ALA:O	19:AS:25:LYS:CB	2.58	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:DD:210:GLY:O	38:DD:211:ARG:HB3	2.11	0.51
37:DC:73:VAL:CG1	37:DC:158:LYS:HA	2.39	0.51
22:CW:5:G:O6	22:CW:69:C:N3	2.43	0.51
35:DA:680:G:H2'	35:DA:681:G:H8	1.75	0.51
45:BL:87:UNK:HA	45:BL:90:UNK:CB	2.40	0.51
24:CY:558:PHE:O	24:CY:559:PRO:C	2.49	0.51
28:D3:2:PRO:O	28:D3:3:ARG:O	2.29	0.51
47:DO:20:MET:HE3	47:DO:44:LYS:HE3	1.93	0.51
50:DR:104:ARG:HG3	50:DR:111:LEU:HD21	1.91	0.51
35:DA:2626:C:H2'	35:DA:2627:G:O4'	2.10	0.51
1:CA:636:U:H2'	1:CA:637:G:C8	2.45	0.51
19:CS:79:THR:HG22	19:CS:80:TYR:N	2.25	0.51
56:DX:61:GLY:HA3	56:DX:73:ARG:O	2.10	0.51
22:AW:63:C:H2'	22:AW:64:G:C8	2.45	0.51
4:AD:119:GLN:HG3	4:AD:123:HIS:CD2	2.45	0.51
2:AB:137:ARG:HD3	2:AB:137:ARG:C	2.30	0.51
35:DA:2577:A:H5'	35:DA:2578:G:C5'	2.39	0.51
1:CA:1129:C:H5'	1:CA:1129:C:H6	1.75	0.51
54:DV:49:THR:HB	54:DV:50:PRO:HD2	1.92	0.51
35:DA:211:A:C3'	35:DA:212:G:H5''	2.40	0.51
22:AW:18:U:O2	22:AW:18:U:H2'	2.10	0.51
53:BU:61:TRP:CB	53:BU:93:LYS:HB3	2.39	0.51
53:BU:92:ARG:HD3	53:BU:94:ASN:CB	2.41	0.51
35:BA:1047:G:HO2'	35:BA:1110:G:N2	2.09	0.51
31:B6:54:ILE:HD13	35:BA:2420:C:C4'	2.39	0.51
33:B8:53:PRO:HA	33:B8:56:GLU:HB2	1.93	0.51
57:DY:12:THR:HG23	57:DY:25:GLY:O	2.11	0.51
57:BY:14:LEU:HD11	57:BY:22:GLY:HA2	1.93	0.51
57:BY:94:LYS:O	57:BY:102:CYS:HB2	2.10	0.51
31:D6:9:LEU:CD2	31:D6:26:ASN:HD22	2.24	0.51
10:CJ:3:LYS:HG3	10:CJ:75:ILE:O	2.10	0.51
1:AA:1237:C:OP1	1:AA:1238:A:H1'	2.10	0.51
52:BT:112:ARG:C	52:BT:115:ARG:HD3	2.31	0.51
51:BS:101:LEU:C	51:BS:101:LEU:HD12	2.31	0.51
31:D6:42:TRP:HA	31:D6:42:TRP:CE3	2.44	0.51
54:BV:16:PRO:O	54:BV:96:ILE:O	2.28	0.51
49:DQ:108:GLY:O	49:DQ:109:VAL:HG23	2.11	0.51
49:DQ:109:VAL:HG12	49:DQ:110:THR:N	2.24	0.51
35:DA:2784:C:H1'	39:DE:37:ARG:HH12	1.75	0.51
24:AY:428:LEU:HD13	24:AY:440:VAL:CG1	2.28	0.51
5:CE:51:VAL:HB	5:CE:52:PRO:CD	2.41	0.51
2:CB:151:GLY:O	2:CB:152:PHE:C	2.48	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1858:G:H2'	35:BA:1883:G:N2	2.25	0.51
35:DA:1820:U:C2	38:DD:202:LYS:HG2	2.45	0.51
46:DN:23:LEU:HB3	46:DN:60:ILE:CG2	2.37	0.51
30:B5:55:ARG:O	30:B5:56:LYS:CB	2.51	0.51
20:AT:26:ASN:HB3	20:AT:71:THR:OG1	2.10	0.51
13:AM:96:LEU:HB3	13:AM:97:PRO:CD	2.33	0.51
13:CM:91:ARG:HH21	19:CS:81:ARG:HH21	1.57	0.51
17:CQ:59:ILE:HG23	17:CQ:71:PHE:CB	2.34	0.51
6:CF:72:VAL:HG13	6:CF:73:ASN:N	2.26	0.51
52:BT:99:LEU:HB2	52:BT:101:PHE:CE1	2.46	0.51
35:DA:796:C:H2'	35:DA:797:C:H6	1.73	0.51
35:DA:2776:A:H4'	35:DA:2777:G:H5''	1.93	0.51
35:BA:1528:A:C2	35:BA:1542:A:H2	2.29	0.51
24:CY:544:LYS:O	24:CY:548:GLU:HB3	2.10	0.51
4:CD:96:LEU:N	4:CD:96:LEU:HD22	2.23	0.51
55:DW:20:VAL:O	55:DW:23:LEU:N	2.42	0.51
24:AY:350:GLU:HA	24:AY:350:GLU:OE1	2.10	0.51
1:AA:1149:C:H2'	1:AA:1150:U:C6	2.46	0.51
24:AY:65:ILE:O	24:AY:67:ALA:N	2.44	0.51
16:CP:8:ARG:NH2	16:CP:15:PRO:HG3	2.26	0.51
37:DC:98:GLU:O	37:DC:101:ILE:HD13	2.10	0.51
35:DA:588:U:H1'	40:DF:90:PHE:CG	2.45	0.51
1:CA:986:A:H2'	1:CA:987:G:C8	2.46	0.51
35:BA:787:U:OP1	35:BA:1780:A:N6	2.43	0.51
35:DA:528:A:H2	35:DA:2043:C:H5'	1.74	0.51
50:DR:72:ASP:CG	50:DR:75:LEU:H	2.14	0.51
1:CA:375:U:C2	1:CA:376:G:C8	2.98	0.51
35:DA:782:A:C2	38:DD:226:MET:HG2	2.46	0.51
1:CA:1345:U:OP1	9:CI:120:ARG:NH1	2.43	0.51
35:BA:1230:C:H2'	35:BA:1231:G:C8	2.45	0.51
24:AY:603:GLU:HB2	24:AY:604:PRO:HD2	1.91	0.51
24:CY:335:LEU:O	24:CY:368:GLU:HA	2.09	0.51
35:DA:1248:G:C4	53:DU:3:ARG:HD2	2.45	0.51
35:DA:2860:A:C2'	35:DA:2861:G:H5'	2.40	0.51
35:BA:2859:G:H2'	35:BA:2860:A:C8	2.46	0.51
35:BA:852:G:H2'	35:BA:853:G:C8	2.45	0.51
35:DA:2870:C:H5''	50:DR:65:LEU:HD21	1.93	0.51
8:AH:114:THR:HG21	8:AH:129:VAL:HG23	1.93	0.51
42:DH:34:GLU:O	42:DH:36:PRO:HD3	2.11	0.51
24:CY:394:ALA:HB1	24:CY:395:PRO:CD	2.41	0.51
1:CA:1360:A:H2'	1:CA:1361:G:O4'	2.11	0.51
1:AA:119:A:O2'	1:AA:120:A:OP2	2.19	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
44:BK:70:LYS:HE3	44:BK:70:LYS:N	2.26	0.51
1:AA:117:G:H8	1:AA:117:G:O5'	1.94	0.51
17:AQ:40:LYS:HD3	17:AQ:42:TYR:OH	2.11	0.51
37:BC:149:ASN:HD22	37:BC:149:ASN:N	2.07	0.51
40:BF:181:LEU:HB3	40:BF:205:ARG:HH12	1.69	0.51
24:AY:216:LEU:HD23	24:AY:216:LEU:C	2.31	0.51
58:DZ:99:TYR:CE2	58:DZ:125:LEU:HB2	2.46	0.51
35:DA:1748:G:C8	35:DA:1748:G:H5'	2.40	0.51
31:B6:11:LEU:HD13	31:B6:11:LEU:O	2.11	0.51
41:DG:108:ASN:O	41:DG:109:VAL:HG23	2.10	0.51
41:DG:59:GLU:HG2	41:DG:60:LEU:N	2.26	0.51
35:BA:1899:G:O2'	35:BA:1900:A:H5''	2.11	0.51
8:AH:104:ARG:O	8:AH:105:ARG:C	2.48	0.51
24:CY:181:LEU:HD12	24:CY:242:LEU:HD13	1.93	0.51
37:DC:104:ILE:HG23	37:DC:108:TRP:O	2.11	0.51
1:AA:1129:C:H6	1:AA:1129:C:H5'	1.74	0.51
9:AI:18:PHE:O	9:AI:61:ALA:HA	2.10	0.51
2:CB:97:TRP:CH2	2:CB:176:GLU:CD	2.84	0.51
46:BN:133:GLN:O	46:BN:134:ARG:HB3	2.11	0.51
39:BE:116:VAL:O	39:BE:117:MET:CB	2.42	0.51
48:BP:146:VAL:HG13	48:BP:147:LEU:N	2.25	0.51
2:CB:236:TYR:HA	2:CB:239:VAL:HG23	1.93	0.51
2:CB:84:GLU:HB3	2:CB:219:VAL:HG21	1.92	0.51
35:DA:2747:G:H21	35:DA:2757:A:H62	1.58	0.51
38:BD:239:ARG:HH21	38:BD:239:ARG:HG2	1.75	0.51
35:DA:2298:A:N6	35:DA:2318:G:H8	2.08	0.51
35:DA:1999:C:O2'	35:DA:2000:G:H5'	2.10	0.51
22:CW:65:G:H2'	22:CW:66:C:O4'	2.11	0.51
35:DA:2502:G:H5''	35:DA:2503:A:C5'	2.37	0.51
1:CA:1512:U:H2'	1:CA:1513:A:C8	2.44	0.51
24:CY:510:VAL:HA	24:CY:570:GLY:CA	2.40	0.51
27:B2:48:HIS:CD2	35:BA:96:G:H4'	2.45	0.51
34:D9:29:ASN:H	34:D9:29:ASN:ND2	2.09	0.51
12:CL:26:ALA:O	12:CL:27:LEU:O	2.29	0.51
35:BA:1477:A:H5'	35:BA:1478:G:OP2	2.11	0.51
35:BA:2020:A:H2'	35:BA:2021:C:H5''	1.91	0.51
35:DA:2465:C:O2'	35:DA:2466:C:H5'	2.11	0.51
1:CA:1124:G:C5'	10:CJ:35:SER:HB2	2.41	0.51
53:BU:110:VAL:HG12	53:BU:114:LYS:HD2	1.91	0.51
35:DA:1515:G:H2'	35:DA:1516:C:C6	2.45	0.51
35:DA:1517:G:C8	35:DA:1517:G:H5'	2.40	0.51
35:DA:990:A:C6	35:DA:1186:G:H1'	2.45	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1073:U:O2'	1:CA:1074:G:H5'	2.11	0.51
28:D3:56:VAL:CG1	28:D3:57:GLU:N	2.74	0.51
35:BA:120:U:O2'	35:BA:149:A:C8	2.60	0.51
42:BH:103:LEU:HB2	42:BH:123:PHE:HD2	1.75	0.51
35:BA:2872:G:C2	35:BA:2873:A:N6	2.78	0.51
13:CM:3:ARG:HD3	29:D4:34:GLU:HG2	1.92	0.51
24:CY:165:GLN:HE21	24:CY:177:ILE:HG21	1.75	0.51
25:B0:25:ARG:HD2	25:B0:29:GLN:HE21	1.73	0.51
35:BA:2617:C:C2'	35:BA:2618:G:H5'	2.41	0.51
46:DN:18:ALA:HB3	46:DN:21:LYS:HB2	1.92	0.51
35:BA:1035:U:H2'	35:BA:1036:G:C8	2.44	0.51
1:CA:159:G:C2'	1:CA:160:A:H5''	2.41	0.51
9:AI:40:LEU:CD1	9:AI:70:LYS:HG2	2.40	0.51
1:CA:1378:C:OP1	7:CG:7:ALA:HB3	2.10	0.51
38:BD:9:TYR:CD2	38:BD:10:THR:HG22	2.45	0.51
20:AT:42:GLN:NE2	20:AT:42:GLN:HA	2.25	0.51
58:BZ:3:TYR:CD2	58:BZ:51:ALA:HB2	2.45	0.51
38:BD:134:ARG:HG3	38:BD:135:PHE:HD1	1.75	0.51
35:BA:1908:C:H2'	35:BA:1909:C:H6	1.75	0.51
35:BA:2377:A:O2'	35:BA:2378:A:H5'	2.10	0.51
35:BA:2220:G:H2'	35:BA:2221:G:H8	1.76	0.51
2:CB:8:LYS:O	2:CB:11:LEU:N	2.39	0.51
35:DA:208:C:H2'	35:DA:209:C:H6	1.74	0.51
35:BA:536:A:H2'	35:BA:537:C:C6	2.46	0.51
35:BA:338:G:H2'	35:BA:339:U:C6	2.46	0.51
33:B8:15:LYS:HB2	48:BP:65:ARG:HH12	1.75	0.51
39:BE:104:VAL:HG22	39:BE:198:VAL:HG22	1.91	0.51
35:BA:1450(A):C:H2'	35:BA:1451:C:C6	2.45	0.51
39:BE:152:LYS:HG3	39:BE:153:GLY:N	2.26	0.51
41:DG:103:LEU:HD23	41:DG:106:LEU:HD23	1.92	0.51
1:CA:119:A:O2'	1:CA:120:A:OP2	2.26	0.51
35:BA:685:A:C5	35:BA:774:A:C2	2.98	0.51
38:DD:4:LYS:NZ	38:DD:21:PHE:H	2.09	0.51
24:AY:616:TYR:HB3	24:AY:662:LYS:O	2.11	0.51
41:BG:82:LEU:C	41:BG:82:LEU:HD23	2.31	0.51
24:CY:609:GLU:HG3	24:CY:670:VAL:HG21	1.92	0.51
23:AX:13:A:H5'	23:AX:14:A:OP1	2.11	0.51
40:BF:24:LEU:O	40:BF:26:ALA:N	2.43	0.51
48:BP:9:ASN:N	48:BP:10:PRO:CD	2.74	0.51
46:DN:1:MET:HE2	46:DN:2:LYS:N	2.26	0.51
24:AY:282:SER:C	24:AY:284:LEU:H	2.14	0.51
9:AI:24:GLY:HA2	9:AI:59:PHE:O	2.10	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:BD:35:LYS:HG2	38:BD:63:ARG:HG3	1.92	0.51
35:BA:274:G:C2'	35:BA:274:G:N3	2.74	0.51
41:DG:105:LYS:HD3	41:DG:143:GLU:OE1	2.11	0.51
19:AS:10:PHE:HZ	19:AS:70:LYS:HZ3	1.57	0.51
35:DA:2230:G:H2'	35:DA:2231:C:C6	2.46	0.51
52:DT:112:ARG:C	52:DT:115:ARG:HD3	2.31	0.51
35:BA:943:U:OP2	48:BP:38:GLN:OE1	2.28	0.51
35:BA:644:A:C2	35:BA:2369:A:H1'	2.46	0.51
51:BS:30:ARG:HH22	51:BS:62:LYS:HD2	1.75	0.51
5:CE:78:HIS:CE1	5:CE:80:ILE:HG23	2.46	0.51
35:BA:515:A:C2	35:BA:1261:C:H1'	2.46	0.51
27:D2:10:LEU:HD22	27:D2:14:ARG:NH2	2.26	0.51
46:BN:132:ALA:O	46:BN:133:GLN:HB2	2.11	0.51
6:AF:38:GLU:HB2	6:AF:64:GLN:O	2.10	0.51
2:CB:54:THR:HG21	2:CB:201:ILE:HD11	1.93	0.51
35:DA:2590:A:OP2	38:DD:238:GLY:HA2	2.11	0.51
54:DV:19:LYS:HB3	54:DV:94:LEU:O	2.10	0.51
2:AB:236:TYR:HA	2:AB:239:VAL:HG23	1.92	0.51
24:AY:367:GLU:O	24:AY:368:GLU:HB3	2.10	0.51
6:CF:71:ARG:NH1	6:CF:71:ARG:HG3	2.25	0.51
49:BQ:54:MET:CG	49:BQ:64:ILE:HD13	2.39	0.51
12:AL:41:ARG:HH11	12:AL:41:ARG:CB	2.19	0.51
8:CH:83:ILE:CD1	8:CH:137:VAL:HG22	2.35	0.51
42:DH:84:SER:OG	42:DH:85:LYS:N	2.43	0.51
58:BZ:107:THR:HG23	58:BZ:111:VAL:CG2	2.40	0.51
40:DF:174:VAL:HG21	40:DF:189:THR:CG2	2.41	0.51
35:BA:1998:G:O2'	35:BA:1999:C:H5'	2.10	0.51
40:BF:160:ASN:ND2	40:BF:160:ASN:C	2.63	0.51
39:DE:1:MET:HB2	39:DE:83:ASP:O	2.10	0.51
4:CD:155:LEU:O	4:CD:156:GLU:C	2.49	0.51
46:DN:65:LYS:HZ2	46:DN:65:LYS:CB	2.20	0.51
1:AA:1118:C:OP1	9:AI:104:ARG:NH1	2.44	0.51
1:AA:1122:U:C2'	1:AA:1123:A:H5'	2.40	0.51
35:BA:1164:G:H1	35:BA:1185:C:H42	1.58	0.51
6:CF:45:LEU:O	6:CF:46:ARG:CG	2.58	0.51
35:DA:1992:G:N2	35:DA:1996:C:O2	2.31	0.51
50:DR:12:ARG:HB3	50:DR:16:HIS:CD2	2.46	0.51
49:BQ:109:VAL:HG12	49:BQ:110:THR:N	2.25	0.51
1:AA:1134:G:C2'	1:AA:1135:U:H5'	2.40	0.51
1:AA:460:G:O6	1:AA:470:C:H4'	2.11	0.51
3:CC:136:GLN:C	3:CC:138:VAL:N	2.59	0.51
42:BH:37:VAL:CG1	42:BH:38:SER:N	2.74	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:567:A:N1	35:BA:571:A:H8	2.09	0.51
13:AM:54:VAL:O	13:AM:56:LEU:N	2.43	0.51
1:AA:1294:G:C2'	1:AA:1295:G:H5'	2.41	0.51
24:CY:448:GLN:HE22	24:CY:480:GLN:HE21	1.59	0.51
35:BA:1718:G:C8	35:BA:1718:G:H5'	2.43	0.51
46:BN:137:LYS:O	46:BN:138:LEU:HD23	2.10	0.51
35:DA:1913:A:H4'	35:DA:1914:C:H5''	1.91	0.51
42:BH:105:LEU:HD23	42:BH:105:LEU:N	2.25	0.51
8:AH:29:SER:OG	8:AH:32:LYS:HG3	2.10	0.51
44:DK:70:LYS:HE3	44:DK:70:LYS:N	2.25	0.51
1:CA:719:C:C2	18:CR:50:ILE:HG12	2.45	0.51
35:DA:1450(A):C:H2'	35:DA:1451:C:C6	2.46	0.51
1:CA:771:G:H2'	1:CA:772:U:C6	2.45	0.51
7:AG:29:LYS:HB2	7:AG:105:VAL:HG21	1.93	0.51
11:CK:17:GLY:O	11:CK:80:VAL:HA	2.10	0.51
35:DA:1204:A:N1	35:DA:1241:A:H2	2.07	0.51
24:AY:616:TYR:CD2	24:AY:663:THR:HA	2.46	0.51
10:AJ:37:PRO:CA	10:AJ:72:VAL:HG22	2.36	0.51
1:CA:980:C:H2'	1:CA:981:U:H5'	1.93	0.51
1:AA:509:A:C2	1:AA:510:A:C2	2.98	0.51
4:AD:12:CYS:SG	4:AD:19:LEU:O	2.69	0.51
10:CJ:4:ILE:HB	10:CJ:74:ILE:CD1	2.40	0.51
24:AY:122:TRP:CD1	24:AY:123:ARG:N	2.79	0.51
53:DU:79:PHE:O	53:DU:83:LEU:HD13	2.11	0.51
31:B6:11:LEU:CD2	31:B6:51:GLU:HG3	2.40	0.51
31:B6:8:LYS:NZ	35:BA:2285:C:C5	2.77	0.51
48:DP:47:ASP:OD1	48:DP:49:ARG:HB2	2.10	0.51
27:D2:37:PHE:HE2	56:DX:11:PRO:HB3	1.76	0.51
10:CJ:78:ASN:C	10:CJ:79:ARG:HH11	2.15	0.51
58:BZ:152:ALA:CA	58:BZ:167:PRO:HB2	2.41	0.51
24:CY:162:VAL:HG11	24:CY:216:LEU:HD12	1.92	0.51
31:B6:15:GLU:HB2	31:B6:49:HIS:CE1	2.45	0.51
31:D6:17:LYS:O	31:D6:20:ASN:ND2	2.44	0.51
58:DZ:179:ASP:HB3	58:DZ:182:LYS:CE	2.29	0.51
39:DE:116:VAL:O	39:DE:117:MET:CB	2.47	0.51
39:DE:116:VAL:HG21	39:DE:122:PHE:CD2	2.45	0.51
1:CA:129(A):G:C6	1:CA:189(E):U:H4'	2.46	0.51
1:AA:703:G:O2'	1:AA:704:A:OP2	2.29	0.51
1:AA:265:G:H2'	1:AA:267:C:H5	1.76	0.51
2:AB:97:TRP:HH2	2:AB:176:GLU:CD	2.13	0.51
1:AA:1452:C:H1'	1:AA:1456:G:C2	2.44	0.51
38:BD:267:SER:C	38:BD:269:PHE:H	2.14	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:AB:51:LEU:HD23	2:AB:201:ILE:HD12	1.91	0.51
13:CM:96:LEU:HB3	13:CM:97:PRO:CD	2.36	0.51
57:DY:10:GLY:O	57:DY:27:VAL:HG22	2.10	0.51
35:BA:2875:C:O2'	52:BT:5:ALA:HB3	2.11	0.51
42:DH:46:GLU:HG3	42:DH:51:ARG:HB2	1.92	0.51
24:AY:573:HIS:CD2	24:AY:575:VAL:H	2.28	0.51
1:CA:276:G:O2'	1:CA:277:C:H5'	2.10	0.51
46:DN:35:ARG:HB3	46:DN:42:TRP:CH2	2.46	0.51
36:DB:94:C:H2'	36:DB:95:C:C6	2.46	0.51
35:BA:346:A:N3	35:BA:346:A:H2'	2.26	0.51
35:DA:802:A:H2'	35:DA:803:U:C6	2.45	0.51
35:BA:990:A:C6	35:BA:1186:G:H1'	2.45	0.51
24:CY:106:VAL:HG23	24:CY:132:ARG:HG3	1.93	0.51
20:AT:48:LYS:HD2	20:AT:51:GLU:OE2	2.11	0.51
13:AM:9:ILE:N	13:AM:9:ILE:HD12	2.25	0.51
3:AC:181:ASN:HD21	3:AC:204:LEU:HD12	1.75	0.51
35:BA:958:U:H6	35:BA:958:U:H3'	1.76	0.51
24:AY:519:ARG:NH1	24:AY:678:GLU:CB	2.74	0.51
1:CA:1134:G:C2'	1:CA:1135:U:H5'	2.41	0.51
1:CA:59:A:H3'	1:CA:331:G:H22	1.75	0.51
24:CY:68:ALA:HB3	24:CY:327:PHE:CE1	2.46	0.51
20:AT:74:LYS:H	20:AT:74:LYS:HD3	1.76	0.51
35:DA:1719:G:C2'	35:DA:1720:U:H5'	2.40	0.51
54:DV:35:LEU:C	54:DV:37:VAL:N	2.63	0.51
47:DO:34:THR:O	47:DO:35:VAL:C	2.49	0.51
49:DQ:75:THR:CG2	49:DQ:76:LYS:N	2.74	0.51
35:BA:658:C:H2'	35:BA:659:C:C6	2.46	0.51
35:BA:2395:C:C2	35:BA:2396:G:C8	2.99	0.51
35:DA:1063:G:O2'	35:DA:1064:C:H5'	2.10	0.51
22:AV:73:A:O3'	22:AV:74:C:H6	1.94	0.51
1:AA:956:U:H2'	1:AA:957:U:H6	1.76	0.51
15:AO:65:ARG:HD2	15:AO:65:ARG:H	1.76	0.51
13:CM:119:GLY:O	13:CM:120:LYS:HB2	2.11	0.51
1:CA:771:G:H2'	1:CA:772:U:H6	1.76	0.51
46:BN:89:LYS:O	46:BN:93:THR:HG22	2.10	0.51
35:DA:86:C:H4'	35:DA:104:U:H1'	1.92	0.51
58:DZ:185:GLU:O	58:DZ:187:ALA:N	2.43	0.51
35:BA:2771:C:H2'	35:BA:2772:C:C6	2.46	0.51
52:BT:48:ILE:HD12	52:BT:48:ILE:N	2.25	0.51
35:BA:1420:U:H2'	35:BA:1421:G:H5'	1.92	0.51
29:B4:1:MET:SD	41:BG:98:ARG:CG	2.99	0.51
35:DA:2050:C:H2'	35:DA:2051:A:O4'	2.11	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:768:G:H2'	35:DA:769:G:H8	1.76	0.51
31:B6:9:LEU:O	31:B6:9:LEU:HD13	2.11	0.51
33:B8:28:GLY:HA2	33:B8:32:LEU:HD21	1.92	0.51
41:DG:109:VAL:C	41:DG:112:PRO:HD2	2.31	0.51
41:DG:55:LYS:HG2	41:DG:58:GLN:NE2	2.24	0.51
5:CE:77:PRO:HG2	5:CE:78:HIS:H	1.76	0.51
49:DQ:56:ARG:NH2	58:DZ:180:VAL:HG21	2.17	0.51
40:BF:127:GLU:HB2	40:BF:196:LEU:HD11	1.93	0.51
39:DE:145:LYS:O	39:DE:148:GLY:N	2.44	0.51
35:BA:650:C:C2'	35:BA:651:G:H5''	2.41	0.51
35:BA:2306:C:C5	35:BA:2307:G:O2'	2.63	0.51
35:BA:2810:A:H2'	39:BE:61:ARG:NH2	2.26	0.51
39:BE:111:ARG:CZ	50:BR:2:ARG:HH21	2.24	0.51
35:BA:2820:A:O3'	50:BR:5:LYS:HE3	2.11	0.51
24:CY:631:ILE:HG23	24:CY:632:LEU:N	2.26	0.51
39:BE:87:GLU:O	39:BE:89:ASP:N	2.44	0.51
1:AA:972:C:H4'	10:AJ:57:LYS:HB2	1.93	0.51
41:DG:100:TRP:O	41:DG:104:GLU:HB2	2.10	0.51
49:BQ:2:LEU:HG	49:BQ:69:PHE:CE1	2.46	0.51
20:CT:13:LEU:O	20:CT:16:HIS:N	2.44	0.51
54:BV:93:GLU:O	54:BV:94:LEU:HD23	2.11	0.51
24:AY:15:ILE:O	24:AY:15:ILE:HD12	2.11	0.51
27:D2:3:LEU:HD22	27:D2:7:ARG:NH2	2.25	0.51
54:BV:62:LEU:N	54:BV:62:LEU:HD22	2.26	0.51
13:CM:116:THR:CG2	13:CM:117:VAL:N	2.74	0.51
52:DT:82:LEU:HD23	52:DT:85:LYS:HD2	1.93	0.51
57:BY:10:GLY:O	57:BY:27:VAL:HG22	2.11	0.51
38:DD:270:ILE:O	38:DD:270:ILE:HD12	2.11	0.51
36:BB:87:G:C2'	36:BB:88:C:H5''	2.40	0.51
42:BH:83:TYR:CB	42:BH:134:SER:HA	2.37	0.51
46:BN:95:PRO:HA	46:BN:98:VAL:HG23	1.93	0.51
42:BH:16:SER:HB2	42:BH:27:LYS:CB	2.35	0.51
52:DT:106:SER:C	52:DT:107:ASP:OD1	2.49	0.51
50:BR:117:VAL:O	50:BR:118:GLU:CB	2.57	0.51
3:CC:151:VAL:HG12	3:CC:152:ILE:N	2.25	0.51
9:CI:5:TYR:O	9:CI:84:ALA:HA	2.10	0.51
1:CA:878:G:H5'	8:CH:89:PRO:HG2	1.92	0.51
32:D7:48:LYS:HZ3	35:DA:125:G:H21	1.58	0.51
58:BZ:40:ASP:HB3	58:BZ:43:GLU:HG2	1.92	0.51
24:CY:191:ASP:O	24:CY:193:GLY:N	2.44	0.51
7:CG:5:ARG:HD2	7:CG:5:ARG:N	2.26	0.51
20:AT:57:ARG:HH11	20:AT:102:GLY:HA2	1.76	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:CY:330:VAL:HG12	24:CY:331:TYR:N	2.25	0.51
1:AA:1270:C:H2'	1:AA:1271:G:H8	1.74	0.51
36:DB:81:G:H5'	36:DB:81:G:N3	2.26	0.51
37:DC:101:ILE:N	37:DC:101:ILE:HD12	2.26	0.51
24:CY:106:VAL:HG12	24:CY:108:PHE:CE1	2.46	0.51
1:CA:1029:C:O2'	1:CA:1032:G:N2	2.44	0.51
35:DA:753:C:H2'	35:DA:754:C:H6	1.75	0.51
56:BX:70:LEU:C	56:BX:70:LEU:HD23	2.31	0.51
36:DB:68:C:O2'	36:DB:69:G:H5'	2.11	0.51
2:CB:95:GLN:HE21	2:CB:147:LYS:HE3	1.75	0.51
1:CA:353:A:H5'	1:CA:353:A:C8	2.41	0.51
25:D0:77:ARG:NH2	35:DA:857:C:H5'	2.23	0.51
1:CA:1202:G:C2'	1:CA:1203:C:H5'	2.40	0.51
35:DA:528:A:C2	35:DA:2043:C:C5'	2.94	0.51
35:BA:20:C:H2'	35:BA:21:A:H8	1.76	0.51
3:AC:207:VAL:HG12	3:AC:207:VAL:O	2.10	0.51
1:AA:1261:A:C2'	1:AA:1262:C:H5'	2.39	0.51
38:DD:148:GLU:HB2	38:DD:151:LYS:CG	2.41	0.51
1:AA:1006:C:H2'	1:AA:1007:C:C5	2.46	0.51
1:AA:514:C:H2'	1:AA:515:G:H8	1.76	0.51
46:BN:102:ALA:O	46:BN:106:MET:CE	2.58	0.51
1:CA:1366:C:H2'	1:CA:1367:C:C6	2.46	0.51
38:BD:210:GLY:O	38:BD:211:ARG:HB3	2.11	0.51
35:BA:2870:C:O2'	35:BA:2871:C:H5'	2.11	0.51
1:AA:296:U:O2'	1:AA:297:G:H5'	2.11	0.51
6:CF:24:GLU:OE2	6:CF:28:ARG:NH1	2.44	0.51
16:AP:3:LYS:HG2	16:AP:65:GLN:HB2	1.92	0.51
35:DA:1216:G:N2	35:DA:1234:U:H1'	2.26	0.51
1:AA:651:C:H2'	1:AA:652:U:C6	2.46	0.51
6:AF:15:ASP:C	6:AF:17:SER:N	2.61	0.51
35:BA:2705:A:H2'	35:BA:2706:G:O4'	2.11	0.51
58:DZ:167:PRO:HG2	58:DZ:167:PRO:O	2.11	0.51
52:DT:36:GLU:O	52:DT:36:GLU:HG2	2.11	0.51
1:AA:1430:C:C2	1:AA:1471:G:N2	2.79	0.51
37:BC:60:ARG:HG2	37:BC:61:GLY:H	1.75	0.51
3:AC:141:VAL:HG12	3:AC:146:ALA:HB3	1.92	0.51
1:CA:229:U:O2'	1:CA:230:G:H5'	2.10	0.51
29:B4:3:GLU:HG3	36:BB:43:C:P	2.51	0.51
41:BG:102:PHE:O	41:BG:103:LEU:C	2.48	0.51
56:BX:14:SER:H	56:BX:17:ALA:HB3	1.76	0.51
24:AY:170:ARG:C	24:AY:171:GLU:HG2	2.30	0.51
46:DN:2:LYS:NZ	54:DV:12:TYR:HA	2.25	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
54:DV:49:THR:O	54:DV:50:PRO:C	2.47	0.51
31:B6:12:GLU:HB3	31:B6:23:THR:HG22	1.93	0.51
57:DY:95:LYS:HE2	57:DY:101:LYS:H	1.76	0.51
35:DA:363(A):A:H2'	35:DA:363(B):G:C8	2.45	0.51
40:DF:192:LEU:HD23	40:DF:193:VAL:N	2.25	0.51
57:BY:99:CYS:O	57:BY:100:ALA:O	2.27	0.51
57:BY:86:ARG:H	57:BY:88:LYS:NZ	2.08	0.51
24:CY:201:ILE:H	24:CY:201:ILE:CD1	2.15	0.51
24:CY:238:THR:O	24:CY:240:GLU:N	2.44	0.51
37:DC:135:ARG:HD2	37:DC:135:ARG:N	2.25	0.51
35:DA:2470:G:P	49:DQ:56:ARG:NH1	2.83	0.51
35:BA:1192:G:H2'	35:BA:1193:G:O4'	2.11	0.51
28:D3:31:LEU:HD22	28:D3:32:GLN:N	2.25	0.51
44:DK:120:LEU:HA	44:DK:123:ALA:HB3	1.93	0.51
35:DA:2307:G:N3	35:DA:2307:G:H3'	2.26	0.51
39:DE:63:LEU:O	39:DE:64:LYS:C	2.49	0.51
38:BD:238:GLY:O	38:BD:239:ARG:O	2.29	0.51
39:BE:51:PHE:CD1	39:BE:52:LEU:N	2.79	0.51
46:BN:58:ASP:O	46:BN:60:ILE:HG13	2.11	0.51
41:DG:123:ASN:C	41:DG:125:PHE:N	2.64	0.51
41:DG:107:LEU:HD22	41:DG:177:GLY:O	2.10	0.51
56:BX:35:THR:HG22	56:BX:36:LYS:N	2.26	0.51
35:DA:1019:U:H3	35:DA:1142(A):A:N6	2.09	0.51
35:BA:190:A:H2'	35:BA:191:A:C8	2.46	0.51
2:AB:223:ILE:HG23	2:AB:226:ARG:HD2	1.93	0.51
50:BR:45:ARG:CG	50:BR:46:GLY:H	2.16	0.51
1:CA:1392:G:N2	1:CA:1502:A:C8	2.78	0.51
12:AL:41:ARG:CG	12:AL:42:THR:N	2.71	0.51
37:DC:149:ASN:N	37:DC:149:ASN:HD22	2.08	0.51
54:DV:21:ARG:HB3	54:DV:91:TYR:HD1	1.71	0.51
53:DU:33:ARG:C	53:DU:35:ALA:N	2.59	0.51
35:BA:917:A:H2'	35:BA:918:A:O4'	2.11	0.51
13:AM:65:LYS:C	13:AM:66:LEU:HD12	2.30	0.51
46:DN:65:LYS:NZ	46:DN:65:LYS:HA	2.25	0.51
35:BA:1052:C:N3	35:BA:1107:G:N2	2.58	0.51
35:BA:65:C:H5'	56:BX:71:GLY:HA3	1.93	0.51
7:CG:81:GLY:O	7:CG:83:ALA:N	2.40	0.51
35:BA:909:A:O2'	35:BA:910:A:H5'	2.10	0.51
1:AA:1089:G:O2'	1:AA:1090:U:H5'	2.11	0.51
1:CA:444:C:H42	1:CA:490:G:H1	1.58	0.51
35:DA:2617:C:C2'	35:DA:2618:G:H5'	2.41	0.51
24:AY:510:VAL:HG12	24:AY:511:LYS:N	2.25	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1780:A:H5'	35:DA:1781:C:OP2	2.11	0.51
9:AI:40:LEU:C	9:AI:42:ARG:H	2.14	0.51
1:CA:1292:U:H2'	1:CA:1293:G:H8	1.75	0.51
20:CT:86:ARG:HG3	20:CT:86:ARG:HH11	1.76	0.51
35:DA:2348:U:H2'	35:DA:2349:G:H5'	1.92	0.51
35:BA:1063:G:O2'	35:BA:1064:C:H5'	2.11	0.51
33:B8:29:LYS:HD2	33:B8:44:LYS:CB	2.41	0.51
35:BA:1095:A:H2'	35:BA:1096:A:C8	2.46	0.51
24:CY:355:LEU:HD22	24:CY:355:LEU:N	2.25	0.51
38:DD:166:GLN:NE2	38:DD:166:GLN:HA	2.26	0.51
1:CA:445:G:H2'	1:CA:446:G:C8	2.45	0.51
15:CO:65:ARG:NH1	15:CO:65:ARG:HG2	2.25	0.51
35:DA:1692:U:H2'	35:DA:1694:C:C4	2.46	0.51
1:CA:707:C:H4'	11:CK:20:TYR:CD1	2.46	0.51
7:CG:69:VAL:HG21	7:CG:104:LEU:CD2	2.40	0.51
35:DA:503:A:H4'	35:DA:504:U:H5'	1.93	0.51
7:CG:105:VAL:O	7:CG:108:ALA:HB3	2.11	0.51
35:DA:2367:G:H2'	35:DA:2368:C:H6	1.76	0.51
19:CS:27:GLU:O	19:CS:28:LYS:O	2.29	0.51
1:AA:229:U:O2'	1:AA:230:G:H5'	2.11	0.51
6:AF:3:ARG:HH11	6:AF:3:ARG:HG3	1.76	0.51
19:CS:16:LEU:N	19:CS:16:LEU:HD12	2.26	0.51
35:DA:1218:C:H2'	35:DA:1219:G:H8	1.76	0.51
41:BG:46:ALA:HA	41:BG:51:ARG:CB	2.41	0.50
35:BA:1378:A:HO2'	35:BA:1379:A:H5''	1.69	0.50
10:CJ:4:ILE:H	10:CJ:4:ILE:HD12	1.77	0.50
24:AY:177:ILE:HG21	24:AY:260:LEU:HD21	1.93	0.50
58:DZ:151:HIS:HA	58:DZ:171:ILE:CG2	2.33	0.50
35:DA:1708:C:O2'	35:DA:1709:U:H5'	2.11	0.50
33:D8:10:ALA:O	33:D8:14:VAL:HG12	2.10	0.50
48:DP:55:ARG:CG	48:DP:56:SER:N	2.64	0.50
48:DP:67:MET:O	48:DP:68:GLN:HG3	2.10	0.50
41:DG:116:ASP:O	41:DG:117:PHE:CB	2.56	0.50
41:BG:133:LEU:HD11	41:BG:157:ILE:CD1	2.29	0.50
24:CY:36:THR:OG1	24:CY:37:GLY:N	2.44	0.50
24:CY:77:HIS:NE2	24:CY:277:VAL:HG21	2.27	0.50
31:D6:15:GLU:OE1	31:D6:41:PRO:CG	2.59	0.50
35:DA:2346:A:H1'	35:DA:2383:G:N9	2.25	0.50
5:CE:101:ILE:HG12	5:CE:101:ILE:O	2.10	0.50
53:BU:8:VAL:CG2	53:BU:12:ARG:HE	2.24	0.50
58:DZ:109:ALA:HB3	58:DZ:145:GLU:CA	2.42	0.50
3:AC:155:GLY:O	3:AC:156:ARG:HB2	2.10	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:CB:121:LEU:HD21	2:CB:126:GLU:OE2	2.11	0.50
27:D2:67:LYS:O	27:D2:70:GLN:HG3	2.11	0.50
48:DP:128:HIS:ND1	48:DP:148:LEU:HD13	2.25	0.50
2:CB:19:HIS:HD2	2:CB:189:ASP:OD2	1.94	0.50
41:DG:131:TYR:HB3	41:DG:159:VAL:CG1	2.41	0.50
39:BE:59:VAL:HG21	39:BE:63:LEU:HA	1.92	0.50
35:DA:2787:C:C2	39:DE:61:ARG:HD3	2.46	0.50
35:BA:654(M):C:O2'	35:BA:654(N):G:C8	2.58	0.50
33:D8:39:LYS:HG3	33:D8:43:GLN:NE2	2.26	0.50
42:DH:33:LEU:HD12	42:DH:75:ALA:O	2.11	0.50
52:DT:99:LEU:HB2	52:DT:101:PHE:HE1	1.76	0.50
35:BA:1784:A:H4'	35:BA:1785:A:O5'	2.11	0.50
37:DC:29:LEU:O	37:DC:31:LYS:N	2.44	0.50
1:CA:893:C:H2'	1:CA:894:G:H8	1.76	0.50
10:CJ:61:GLU:HG3	14:CN:58:LYS:CE	2.41	0.50
39:BE:4:ILE:HG13	39:BE:5:LEU:H	1.75	0.50
39:BE:81:ILE:O	39:BE:81:ILE:CG2	2.58	0.50
4:AD:155:LEU:O	4:AD:156:GLU:C	2.49	0.50
1:AA:1298:C:C2'	1:AA:1298:C:O2	2.60	0.50
35:DA:558:G:H5'	46:DN:112:LEU:HD22	1.91	0.50
50:BR:12:ARG:CG	50:BR:12:ARG:HH11	2.23	0.50
35:BA:750:A:C2	35:BA:753:C:C6	2.99	0.50
18:CR:69:THR:O	18:CR:72:ARG:N	2.43	0.50
54:BV:79:VAL:O	54:BV:80:GLN:HB2	2.09	0.50
19:CS:24:ALA:O	19:CS:25:LYS:CB	2.59	0.50
56:BX:44:GLU:HB2	56:BX:49:VAL:O	2.11	0.50
49:BQ:35:VAL:HG22	49:BQ:36:ALA:N	2.26	0.50
27:B2:15:LYS:O	27:B2:15:LYS:HG3	2.10	0.50
27:B2:8:LYS:O	27:B2:12:GLU:N	2.29	0.50
16:CP:19:ILE:N	16:CP:37:GLY:O	2.41	0.50
35:DA:657:U:H2'	35:DA:658:C:H6	1.73	0.50
35:BA:1917:U:H2'	35:BA:1918:A:H5'	1.93	0.50
28:B3:54:VAL:HG12	28:B3:55:ARG:N	2.26	0.50
42:DH:40:GLU:HG3	42:DH:64:LEU:CD1	2.41	0.50
4:CD:120:LEU:HB3	4:CD:126:ILE:HD11	1.93	0.50
49:BQ:75:THR:CG2	49:BQ:76:LYS:N	2.74	0.50
49:DQ:60:ARG:HB2	49:DQ:60:ARG:CZ	2.41	0.50
1:AA:1333:A:C2	1:AA:1334:G:H1'	2.46	0.50
1:CA:22:G:H4'	1:CA:885:G:C8	2.46	0.50
57:BY:43:ASN:HA	57:BY:64:GLU:HA	1.93	0.50
35:DA:2647:U:H2'	35:DA:2648:C:H6	1.74	0.50
24:CY:211:GLU:HB2	24:CY:215:LYS:HZ1	1.76	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:635:GLU:OE1	24:AY:644:ARG:HD2	2.11	0.50
54:DV:66:ARG:NH1	54:DV:88:ARG:HE	2.09	0.50
58:BZ:129:SER:C	58:BZ:131:ARG:H	2.14	0.50
35:BA:1216:G:N2	35:BA:1234:U:H1'	2.26	0.50
37:DC:60:ARG:HG2	37:DC:61:GLY:H	1.75	0.50
26:D1:69:LYS:NZ	35:DA:372:G:OP1	2.42	0.50
46:BN:78:TYR:N	46:BN:78:TYR:CD1	2.79	0.50
5:AE:139:LEU:C	5:AE:141:GLN:H	2.14	0.50
5:CE:59:GLY:O	5:CE:62:ALA:HB3	2.11	0.50
46:BN:49:GLY:CA	46:BN:119:ARG:HH12	2.23	0.50
1:AA:1493:A:H8	1:AA:1493:A:OP2	1.93	0.50
53:BU:39:LEU:O	53:BU:40:PHE:C	2.48	0.50
24:AY:236:GLU:HG3	24:AY:236:GLU:O	2.10	0.50
15:CO:31:LEU:CD2	15:CO:31:LEU:H	2.23	0.50
26:B1:92:LYS:HE2	35:BA:153:C:OP1	2.11	0.50
10:AJ:4:ILE:CD1	10:AJ:74:ILE:HG13	2.40	0.50
35:BA:2577:A:H5'	35:BA:2578:G:C5'	2.41	0.50
35:BA:768:G:H2'	35:BA:769:G:C8	2.47	0.50
24:CY:606:MET:HE3	24:CY:671:MET:CG	2.41	0.50
1:AA:542:G:O2'	1:AA:543:C:H5'	2.10	0.50
24:AY:181:LEU:HB2	24:AY:216:LEU:HD11	1.93	0.50
35:BA:1204:A:H61	35:BA:1240:U:H2'	1.76	0.50
53:DU:83:LEU:HD12	53:DU:113:ALA:HB2	1.92	0.50
53:DU:92:ARG:HD3	53:DU:94:ASN:CB	2.41	0.50
53:BU:95:LEU:CD1	54:BV:11:GLN:HG3	2.41	0.50
33:B8:48:PHE:O	33:B8:49:VAL:CG1	2.58	0.50
58:DZ:64:GLY:O	58:DZ:65:GLN:C	2.49	0.50
1:CA:1220:G:H2'	1:CA:1221:G:C8	2.46	0.50
5:AE:77:PRO:HG2	5:AE:78:HIS:H	1.75	0.50
30:B5:2:ALA:O	30:B5:3:LYS:HB3	2.11	0.50
31:B6:17:LYS:O	31:B6:20:ASN:ND2	2.44	0.50
51:BS:85:VAL:HG23	51:BS:106:ARG:CG	2.41	0.50
51:BS:25:ARG:HG3	51:BS:26:LEU:H	1.77	0.50
5:CE:101:ILE:CD1	5:CE:119:LEU:HA	2.29	0.50
3:AC:61:ALA:O	3:AC:62:ASP:HB2	2.10	0.50
2:CB:91:PRO:HG2	2:CB:155:LEU:HD23	1.92	0.50
35:BA:651:G:C2'	35:BA:652:C:H5'	2.41	0.50
35:BA:2298:A:N6	35:BA:2318:G:H8	2.09	0.50
51:DS:101:LEU:HD12	51:DS:101:LEU:C	2.30	0.50
26:B1:76:ARG:HH22	26:B1:95:LEU:CD1	2.24	0.50
35:DA:2723:C:H5''	50:DR:2:ARG:NH1	2.15	0.50
54:BV:19:LYS:HB3	54:BV:94:LEU:O	2.11	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:D2:3:LEU:HD12	35:DA:98:G:C5'	2.41	0.50
26:D1:90:ILE:HG22	26:D1:94:LEU:HD11	1.92	0.50
3:CC:173:VAL:HG12	3:CC:175:LEU:CD1	2.41	0.50
35:DA:1542:A:H3'	35:DA:1542:A:H8	1.75	0.50
24:CY:191:ASP:C	24:CY:193:GLY:N	2.65	0.50
13:AM:66:LEU:O	13:AM:70:LEU:HB3	2.11	0.50
1:CA:1287:A:H2'	1:CA:1288:A:C8	2.46	0.50
1:CA:1268:A:H2'	1:CA:1269:A:C8	2.46	0.50
1:AA:1190:G:OP1	3:AC:4:LYS:HA	2.11	0.50
24:AY:64:THR:C	24:AY:66:THR:H	2.14	0.50
1:CA:190:U:C2	20:CT:105:SER:HB2	2.46	0.50
37:BC:101:ILE:N	37:BC:101:ILE:HD12	2.26	0.50
42:DH:105:LEU:N	42:DH:105:LEU:HD23	2.27	0.50
4:CD:58:LEU:O	4:CD:58:LEU:HD23	2.11	0.50
4:CD:61:LYS:NZ	4:CD:72:GLU:OE2	2.40	0.50
24:AY:407:PRO:HB3	24:AY:452:SER:OG	2.11	0.50
25:B0:74:ARG:HG2	36:BB:13:A:OP2	2.12	0.50
47:BO:105:GLU:O	47:BO:109:LYS:CG	2.57	0.50
44:BK:136:VAL:HG13	44:BK:136:VAL:O	2.11	0.50
44:BK:78:ILE:HD13	44:BK:134:MET:SD	2.51	0.50
49:DQ:79:LEU:HD23	49:DQ:80:GLU:N	2.24	0.50
1:AA:999:C:H2'	1:AA:1000:U:C4	2.45	0.50
35:BA:482:A:H4'	57:BY:47:LYS:HG2	1.93	0.50
36:BB:81:G:N3	36:BB:81:G:H5'	2.26	0.50
44:DK:136:VAL:O	44:DK:136:VAL:HG13	2.11	0.50
8:CH:41:ARG:NH2	8:CH:123:GLU:CD	2.64	0.50
35:DA:567:A:N1	35:DA:571:A:H8	2.08	0.50
50:DR:7:GLY:C	50:DR:8:ARG:HE	2.14	0.50
35:BA:2688:U:H3'	35:BA:2688:U:O2	2.11	0.50
1:AA:1161:C:O2'	1:AA:1162:C:H5'	2.11	0.50
1:AA:1112:C:O2'	3:AC:179:ARG:HG2	2.11	0.50
35:DA:658:C:H2'	35:DA:659:C:C6	2.47	0.50
35:BA:2735:G:H2'	35:BA:2736:G:C8	2.44	0.50
1:CA:821:G:O2'	1:CA:822:C:H5'	2.11	0.50
24:CY:369:LEU:N	24:CY:369:LEU:HD12	2.25	0.50
30:B5:16:ARG:NH1	30:B5:17:ASP:OD1	2.44	0.50
3:CC:10:PHE:CE1	3:CC:178:LEU:HD11	2.46	0.50
1:CA:418:C:H2'	1:CA:419:C:C6	2.46	0.50
1:CA:892:A:O2'	1:CA:1415:G:H4'	2.11	0.50
35:DA:1040:C:H2'	35:DA:1041:C:C6	2.46	0.50
1:AA:260:G:H2'	1:AA:261:U:H6	1.75	0.50
35:BA:2870:C:H5''	50:BR:65:LEU:HD21	1.92	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2860:A:H2'	35:DA:2861:G:H5'	1.93	0.50
35:DA:705:A:C2	35:DA:727:A:H1'	2.46	0.50
7:CG:78:ARG:HE	7:CG:156:TRP:HB3	1.75	0.50
5:CE:41:VAL:HG13	5:CE:113:ALA:HA	1.91	0.50
35:DA:1891:G:H2'	35:DA:1892:C:O4'	2.11	0.50
35:BA:2121:G:O2'	37:BC:168:LYS:HG2	2.10	0.50
35:BA:2337:G:H2'	35:BA:2338:G:H8	1.75	0.50
41:BG:152:LEU:CD2	41:BG:152:LEU:H	2.23	0.50
42:DH:172:LYS:HG3	42:DH:175:LYS:CE	2.42	0.50
37:BC:92:ALA:HB3	37:BC:95:VAL:HG22	1.92	0.50
40:BF:192:LEU:CD2	40:BF:194:MET:HG3	2.30	0.50
24:AY:252:ASP:HB2	24:AY:254:LYS:CG	2.40	0.50
53:BU:79:PHE:O	53:BU:83:LEU:HD13	2.11	0.50
24:AY:415:PRO:CB	24:AY:421:GLN:HA	2.42	0.50
1:AA:980:C:H2'	1:AA:981:U:H5'	1.93	0.50
48:BP:58:THR:O	48:BP:58:THR:HG22	2.11	0.50
40:DF:123:LEU:HD12	40:DF:124:LEU:H	1.74	0.50
31:D6:9:LEU:HD22	31:D6:9:LEU:C	2.32	0.50
35:DA:665:C:H2'	35:DA:666:G:H8	1.76	0.50
1:CA:1006:C:H2'	1:CA:1007:C:C5	2.47	0.50
35:DA:2053:G:H1	35:DA:2616:C:H42	1.59	0.50
31:B6:47:THR:CG2	31:B6:48:VAL:H	2.19	0.50
24:AY:35:TYR:CE1	24:AY:269:VAL:HB	2.45	0.50
35:BA:1814:G:H4'	38:BD:51:VAL:HG21	1.92	0.50
35:DA:1858:G:HO2'	35:DA:1859:A:H8	1.59	0.50
35:DA:2306:C:C5	35:DA:2307:G:O2'	2.61	0.50
35:DA:624:C:H41	48:DP:107:LYS:HZ2	1.59	0.50
1:AA:1505:G:H4'	1:AA:1506:U:H5''	1.93	0.50
35:BA:2307:G:N2	35:BA:2308:G:C5'	2.74	0.50
39:BE:61:ARG:HG2	39:BE:62:PRO:CD	2.41	0.50
19:AS:19:VAL:HG12	19:AS:20:LEU:HG	1.94	0.50
39:BE:32:PRO:N	39:BE:90:THR:HG23	2.27	0.50
51:DS:93:LYS:O	51:DS:94:TYR:C	2.49	0.50
35:BA:2712:U:C2'	35:BA:2712(A):A:O5'	2.60	0.50
35:DA:1145:C:H2'	35:DA:1146:C:C6	2.46	0.50
29:D4:14:ILE:HG22	29:D4:15:ILE:N	2.25	0.50
35:BA:2867:G:N7	52:BT:23:ARG:NH1	2.58	0.50
24:AY:71:THR:HG21	24:AY:357:ARG:CD	2.41	0.50
2:CB:172:ILE:CD1	2:CB:172:ILE:H	2.04	0.50
36:DB:87:G:C2'	36:DB:88:C:H5''	2.41	0.50
42:BH:54:ARG:HD2	42:BH:54:ARG:O	2.11	0.50
52:DT:12:SER:O	52:DT:13:ARG:NH2	2.44	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:485:GLU:OE1	24:AY:555:LEU:HB2	2.12	0.50
15:CO:17:ARG:NH1	15:CO:77:ARG:CZ	2.74	0.50
24:CY:526:VAL:HG11	24:CY:566:THR:HG23	1.94	0.50
27:D2:48:HIS:CG	27:D2:49:LYS:H	2.29	0.50
35:BA:1610:A:H4'	35:BA:1611:C:OP2	2.11	0.50
39:DE:24:THR:CG2	39:DE:184:VAL:HG23	2.39	0.50
9:AI:79:LEU:O	9:AI:80:GLY:C	2.49	0.50
35:BA:1542:A:C8	35:BA:1542:A:H3'	2.46	0.50
1:CA:664:G:O2'	1:CA:666:G:OP2	2.28	0.50
12:CL:27:LEU:C	12:CL:29:GLY:N	2.64	0.50
10:CJ:63:PHE:HA	14:CN:59:ALA:CB	2.40	0.50
12:CL:6:THR:HG23	12:CL:9:GLN:NE2	2.24	0.50
38:BD:145:VAL:CG1	38:BD:146:GLU:N	2.75	0.50
1:CA:193:C:H2'	1:CA:194:C:C6	2.47	0.50
1:AA:190:U:C2	20:AT:105:SER:HB2	2.46	0.50
24:CY:82:ILE:HD12	24:CY:101:LEU:CD2	2.41	0.50
35:BA:2130:U:OP1	37:BC:6:LYS:HB2	2.11	0.50
35:BA:588:U:H1'	40:BF:90:PHE:CG	2.47	0.50
1:CA:1507:A:C2	1:CA:1508:G:C4	2.99	0.50
35:BA:958:U:H3'	35:BA:958:U:C6	2.46	0.50
12:CL:38:THR:HG23	12:CL:57:LYS:CB	2.42	0.50
2:AB:233:SER:OG	2:AB:234:PRO:HD2	2.11	0.50
35:DA:572:A:OP2	54:DV:78:LYS:NZ	2.38	0.50
1:CA:779:C:O2'	11:CK:120:ARG:HD3	2.10	0.50
12:CL:97:ARG:C	12:CL:98:TYR:CD1	2.84	0.50
1:CA:260:G:H2'	1:CA:261:U:C6	2.46	0.50
1:CA:264:U:O2'	17:CQ:64:PRO:HB2	2.11	0.50
13:AM:56:LEU:HD13	13:AM:56:LEU:C	2.31	0.50
35:DA:1567:A:C5'	38:DD:58:HIS:CD2	2.94	0.50
48:DP:121:LYS:O	48:DP:123:LEU:HD23	2.11	0.50
47:BO:107:ARG:HA	47:BO:112:MET:CE	2.41	0.50
38:BD:62:TYR:CE1	38:BD:64:ILE:HA	2.45	0.50
35:DA:2816:C:O2	35:DA:2883:A:O2'	2.30	0.50
39:DE:101:ARG:NH1	39:DE:169:ASN:ND2	2.59	0.50
24:AY:634:MET:O	24:AY:634:MET:HG2	2.10	0.50
1:AA:445:G:H2'	1:AA:446:G:C8	2.46	0.50
49:BQ:135:ASP:O	49:BQ:138:ASP:OD2	2.30	0.50
58:BZ:45:ASP:OD2	58:BZ:49:ARG:HG2	2.11	0.50
10:CJ:58:ASP:O	10:CJ:59:SER:C	2.50	0.50
35:DA:2678:C:O2'	35:DA:2679:A:H5'	2.11	0.50
51:BS:73:LEU:O	51:BS:73:LEU:HD23	2.12	0.50
4:CD:153:ARG:HG2	4:CD:153:ARG:NH1	2.26	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2192:G:C3'	35:BA:2193:G:H5''	2.42	0.50
24:AY:114:VAL:O	24:AY:116:PRO:HD3	2.11	0.50
30:D5:22:HIS:CE1	35:DA:2624:G:H1'	2.46	0.50
45:BL:14:UNK:HA	45:BM:13:UNK:O	26.78	0.50
46:DN:89:LYS:O	46:DN:93:THR:HG22	2.12	0.50
35:BA:1680:U:O2'	35:BA:1681:G:H5'	2.12	0.50
38:BD:108:PRO:HG2	38:BD:111:LEU:HB2	1.92	0.50
47:DO:10:VAL:HG23	47:DO:10:VAL:O	2.11	0.50
24:CY:142:THR:CG2	24:CY:143:GLY:N	2.75	0.50
61:CY:702:FUA:O1	61:CY:702:FUA:C1	2.57	0.50
24:AY:214:GLU:O	24:AY:218:GLU:N	2.42	0.50
24:AY:427:ALA:O	24:AY:431:LEU:HB2	2.12	0.50
38:DD:35:LYS:CD	38:DD:36:PRO:N	2.63	0.50
35:BA:2392:A:H2	35:BA:2424:C:H42	1.60	0.50
38:BD:35:LYS:CG	38:BD:63:ARG:HA	2.34	0.50
1:AA:1002:G:N2	1:AA:1039:C:H2'	2.25	0.50
58:BZ:58:VAL:HA	58:BZ:67:LEU:O	2.12	0.50
41:DG:59:GLU:O	41:DG:62:LEU:HD13	2.11	0.50
35:BA:1058:G:H21	44:BK:126:MET:CE	2.24	0.50
24:CY:227:ILE:CD1	24:CY:242:LEU:HA	2.41	0.50
31:B6:42:TRP:NE1	35:BA:643:A:OP1	2.44	0.50
51:BS:93:LYS:O	51:BS:94:TYR:C	2.49	0.50
35:DA:154(A):C:H3'	35:DA:155:U:H5''	1.93	0.50
25:D0:27:GLU:HG3	25:D0:68:GLU:HA	1.93	0.50
38:DD:43:ARG:HB3	38:DD:54:ARG:CB	2.40	0.50
38:BD:43:ARG:CB	38:BD:54:ARG:HB2	2.41	0.50
24:AY:428:LEU:N	24:AY:428:LEU:HD23	2.25	0.50
35:BA:154(A):C:C5	35:BA:155:U:H1'	2.47	0.50
26:B1:80:LEU:HD13	26:B1:82:LEU:HD11	1.94	0.50
46:DN:48:MET:HE2	46:DN:48:MET:N	2.10	0.50
24:CY:399:LEU:CD1	24:CY:399:LEU:N	2.74	0.50
6:CF:38:GLU:HB2	6:CF:64:GLN:O	2.11	0.50
35:BA:624:C:N4	48:BP:107:LYS:NZ	2.60	0.50
40:DF:81:PRO:C	40:DF:83:PHE:H	2.15	0.50
35:BA:1493:C:O2	35:BA:1493:C:H2'	2.10	0.50
52:DT:118:ARG:HA	52:DT:121:ILE:HD12	1.93	0.50
1:CA:1226:C:H5''	13:CM:103:THR:OG1	2.11	0.50
1:AA:691:G:H2'	1:AA:692:U:C6	2.46	0.50
26:D1:84:GLY:O	26:D1:85:LEU:C	2.49	0.50
25:D0:19:LYS:HD3	25:D0:41:ARG:NH2	2.26	0.50
18:AR:56:THR:CB	18:AR:58:LEU:HD13	2.37	0.50
24:CY:492:ASP:OD1	24:CY:513:LYS:HD2	2.12	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:CY:413:ILE:HG23	24:CY:413:ILE:O	2.10	0.50
25:B0:40:GLN:HE22	25:B0:43:THR:CA	2.22	0.50
40:DF:160:ASN:HD21	40:DF:162:LEU:HD13	1.75	0.50
55:BW:66:GLU:HA	55:BW:69:LEU:CD1	2.41	0.50
35:BA:2853:C:H2'	35:BA:2854:G:H8	1.77	0.50
38:BD:142:VAL:HG23	38:BD:193:VAL:HA	1.93	0.50
1:AA:1202:G:C2	14:AN:42:ILE:HG21	2.47	0.50
12:AL:80:HIS:O	12:AL:81:SER:CB	2.58	0.50
1:CA:1089:G:O2'	1:CA:1090:U:H5'	2.11	0.50
1:CA:1190:G:OP1	3:CC:4:LYS:HA	2.11	0.50
22:AW:53:G:H2'	22:AW:54:G:C8	2.47	0.50
35:BA:568:U:H2'	35:BA:570:G:OP2	2.11	0.50
24:CY:165:GLN:NE2	24:CY:177:ILE:HG21	2.25	0.50
1:CA:999:C:H2'	1:CA:1000:U:C4	2.47	0.50
35:DA:1367:A:C2'	35:DA:1368:G:H5'	2.40	0.50
35:BA:1567:A:H5'	38:BD:58:HIS:CD2	2.46	0.50
35:DA:825:C:H2'	35:DA:826:U:O4'	2.12	0.50
24:AY:293:THR:HA	24:AY:397:VAL:HG12	1.94	0.50
26:B1:64:ALA:HA	26:B1:67:ILE:CG1	2.41	0.50
1:CA:187:C:OP1	20:CT:82:SER:HB2	2.10	0.50
58:DZ:56:VAL:HA	58:DZ:70:LEU:CD2	2.41	0.50
35:DA:443:A:H3'	40:DF:45:ARG:NH2	2.26	0.50
35:BA:2736:G:O2'	35:BA:2737:G:H5'	2.12	0.50
41:DG:179:PRO:O	41:DG:180:PHE:CD2	2.65	0.50
8:AH:9:MET:O	8:AH:13:ILE:HG12	2.11	0.50
54:BV:66:ARG:NH1	54:BV:88:ARG:HE	2.10	0.50
37:BC:104:ILE:HG23	37:BC:108:TRP:O	2.11	0.50
1:AA:708:C:H2'	1:AA:709:G:H8	1.77	0.50
1:AA:707:C:O2'	1:AA:708:C:H5'	2.11	0.50
7:AG:78:ARG:HG3	7:AG:78:ARG:HH11	1.76	0.50
4:CD:119:GLN:HG3	4:CD:123:HIS:CD2	2.46	0.50
1:CA:1525:G:O2'	1:CA:1526:G:H5'	2.12	0.50
8:CH:34:GLU:HB3	8:CH:118:VAL:HG21	1.92	0.50
35:BA:381:G:O2'	35:BA:382:G:H5'	2.12	0.50
42:BH:77:LYS:HA	42:BH:80:SER:OG	2.10	0.50
35:DA:1465:G:H2'	35:DA:1466:G:H8	1.75	0.50
52:BT:36:GLU:HG2	52:BT:36:GLU:O	2.11	0.50
5:CE:29:GLY:HA2	5:CE:46:GLY:O	2.11	0.50
11:AK:17:GLY:O	11:AK:80:VAL:HA	2.12	0.50
35:BA:2626:C:H2'	35:BA:2627:G:O4'	2.11	0.50
61:CY:702:FUA:C20	61:CY:702:FUA:H5	2.12	0.50
24:AY:20:HIS:N	24:AY:121:VAL:HG11	2.27	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:255:ILE:CG1	24:AY:256:THR:N	2.74	0.50
1:CA:1129:C:C6	1:CA:1129:C:H5'	2.45	0.50
53:BU:79:PHE:CE2	53:BU:83:LEU:HD11	2.46	0.50
33:B8:51:ALA:HA	33:B8:54:GLU:OE1	2.10	0.50
35:DA:302:C:H2'	35:DA:303:U:C6	2.47	0.50
35:BA:83:G:O2'	35:BA:84:A:C8	2.57	0.50
1:CA:1038:C:H2'	1:CA:1039:C:C6	2.47	0.50
3:CC:90:GLU:HA	3:CC:93:LYS:CB	2.41	0.50
1:CA:1301:U:H3'	1:CA:1302:U:H5''	1.93	0.50
31:D6:15:GLU:CD	31:D6:44:ARG:CZ	2.80	0.50
24:CY:590:ILE:HD13	24:CY:593:ALA:HB2	1.94	0.50
12:AL:70:ILE:CG2	12:AL:100:ILE:HD12	2.41	0.50
28:B3:31:LEU:HD22	28:B3:32:GLN:H	1.77	0.50
48:DP:25:SER:O	48:DP:30:THR:HG23	2.11	0.50
40:BF:81:PRO:O	40:BF:83:PHE:N	2.45	0.50
35:BA:637:A:OP2	48:BP:115:LEU:HB2	2.12	0.50
48:BP:102:ARG:HH21	48:BP:102:ARG:CB	2.25	0.50
20:AT:11:SER:HA	20:AT:13:LEU:CD1	2.42	0.50
35:BA:2228:G:H2'	35:BA:2229:C:H6	1.77	0.50
2:AB:97:TRP:CH2	2:AB:176:GLU:CD	2.85	0.50
35:DA:2886:G:H2'	35:DA:2887:U:H6	1.76	0.50
29:B4:51:ASP:OD2	29:B4:52:THR:HG23	2.11	0.50
35:DA:1600:C:O2'	35:DA:1601:G:H5'	2.12	0.50
39:BE:77:ILE:C	39:BE:78:LEU:HG	2.31	0.50
35:DA:1015:G:H2'	35:DA:1016:G:H8	1.74	0.50
30:B5:34:PRO:HG3	35:BA:2885:C:O2'	2.12	0.50
19:CS:15:LEU:O	19:CS:19:VAL:HB	2.12	0.50
36:DB:85:G:O2'	36:DB:86:G:H5'	2.11	0.50
35:DA:1610:A:H4'	35:DA:1611:C:OP2	2.11	0.50
52:DT:6:LEU:O	52:DT:9:LEU:N	2.45	0.50
38:DD:26:LYS:N	38:DD:26:LYS:HE2	2.26	0.50
44:BK:93:ARG:HB2	58:BZ:112:ARG:CZ	2.42	0.50
35:BA:1336:A:H2'	35:BA:1337:G:H8	1.76	0.50
35:DA:1528:A:H2'	35:DA:1528:A:N3	2.26	0.50
9:AI:128:ARG:O	13:AM:125:ARG:HD2	2.11	0.50
35:DA:259:G:N2	35:DA:621:A:H8	2.10	0.50
24:CY:66:THR:O	24:CY:67:ALA:CB	2.60	0.50
10:AJ:96:ILE:N	10:AJ:96:ILE:HD13	2.21	0.50
24:AY:66:THR:O	24:AY:67:ALA:HB3	2.10	0.50
35:BA:298:G:H8	35:BA:298:G:O5'	1.94	0.50
15:CO:55:GLY:HA2	15:CO:58:MET:CE	2.40	0.50
35:BA:817:C:H2'	35:BA:818:G:O4'	2.12	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2020:A:H2'	35:DA:2021:C:H5''	1.92	0.50
35:DA:532:A:H2'	35:DA:532:A:N3	2.27	0.50
1:CA:559:A:OP2	5:CE:126:ARG:NH2	2.44	0.50
10:CJ:47:PHE:CE2	14:CN:37:PHE:CE2	2.99	0.50
4:AD:2:GLY:O	4:AD:4:TYR:N	2.45	0.50
57:BY:47:LYS:O	57:BY:48:ALA:O	2.30	0.50
1:AA:1348:U:H2'	1:AA:1349:A:C8	2.46	0.50
35:BA:2617:C:O2'	35:BA:2618:G:H5'	2.11	0.50
43:DJ:13:UNK:C	43:DJ:15:UNK:N	2.73	0.50
20:AT:86:ARG:HH11	20:AT:86:ARG:HG3	1.77	0.50
1:CA:1293:G:O2'	1:CA:1294:G:H5'	2.12	0.50
1:AA:489:C:H2'	1:AA:490:G:C8	2.46	0.50
26:B1:67:ILE:N	26:B1:68:PRO:HD2	2.26	0.50
22:CW:52:C:H2'	22:CW:53:G:C4'	2.42	0.50
24:CY:400:GLU:HG2	24:CY:401:SER:N	2.26	0.50
20:CT:84:LEU:O	20:CT:86:ARG:N	2.44	0.50
55:DW:107:LEU:N	55:DW:107:LEU:HD22	2.26	0.50
35:DA:1035:U:O5'	42:DH:59:ARG:NH1	2.45	0.50
1:AA:39:G:O2'	1:AA:40:C:H5'	2.11	0.50
22:AV:29:G:C6	22:AV:30:G:N7	2.79	0.50
35:BA:705:A:C2	35:BA:727:A:H1'	2.47	0.50
39:DE:188:VAL:HG23	39:DE:189:PRO:HD2	1.93	0.50
35:DA:809:G:O2'	35:DA:810:U:H5'	2.12	0.50
22:AW:20:G:H4'	22:AW:21:U:OP1	2.10	0.50
1:AA:637:G:O2'	1:AA:638:G:H5'	2.12	0.50
1:AA:284:G:H2'	1:AA:285:G:H8	1.76	0.50
35:DA:1420:U:H2'	35:DA:1421:G:H5'	1.93	0.50
35:BA:1288:U:H4'	35:BA:1289:C:OP2	2.11	0.50
35:DA:342:G:O2'	35:DA:343:C:H5'	2.12	0.50
1:AA:867:G:O2'	1:AA:868:C:H5'	2.12	0.50
1:AA:78:G:H1	1:AA:91:C:H42	1.60	0.50
54:DV:99:ILE:HD13	54:DV:99:ILE:N	2.25	0.50
1:CA:1497:G:C2'	1:CA:1498:U:H5'	2.40	0.50
22:CW:39:A:H2'	22:CW:40:C:O4'	2.12	0.50
24:AY:121:VAL:CA	24:AY:124:GLN:NE2	2.75	0.50
24:AY:203:GLU:O	24:AY:204:GLU:O	2.28	0.50
24:AY:132:ARG:O	24:AY:256:THR:HG23	2.11	0.50
58:DZ:171:ILE:HG13	58:DZ:172:ALA:H	1.76	0.50
48:BP:7:ARG:HA	48:BP:7:ARG:NH1	2.26	0.50
38:DD:39:LYS:HZ1	38:DD:87:ASN:HB3	1.74	0.50
33:B8:31:HIS:HE1	35:BA:2392:A:OP2	1.94	0.50
35:DA:346:A:N3	35:DA:346:A:H2'	2.25	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
58:DZ:12:GLY:HA2	58:DZ:36:LYS:HZ3	1.77	0.50
35:DA:2415:G:H2'	35:DA:2416:C:C6	2.47	0.50
41:DG:114:ILE:O	41:DG:114:ILE:HG22	2.12	0.50
58:BZ:54:HIS:CE1	58:BZ:123:ASP:OD2	2.63	0.50
1:CA:1303:C:N4	1:CA:1304:G:C6	2.80	0.50
51:BS:74:ALA:HB2	51:BS:101:LEU:CD2	2.41	0.50
49:DQ:110:THR:CG2	49:DQ:113:GLN:HG3	2.42	0.50
38:DD:43:ARG:CB	38:DD:54:ARG:HB2	2.39	0.50
35:BA:1156:A:O2'	35:BA:1157:G:OP1	2.30	0.50
35:DA:945:A:C2	35:DA:2448:A:N1	2.80	0.50
1:CA:703:G:O2'	1:CA:704:A:OP2	2.29	0.50
46:BN:133:GLN:CG	46:BN:134:ARG:N	2.75	0.50
1:AA:80:G:H5''	1:AA:81:U:H5'	1.93	0.50
48:DP:132:LYS:O	48:DP:136:GLU:HG2	2.11	0.50
1:AA:1402:C:C5	1:AA:1403:C:C5	2.99	0.50
48:BP:132:LYS:O	48:BP:136:GLU:HG2	2.10	0.50
35:DA:2810:A:H2'	39:DE:61:ARG:NH2	2.26	0.50
39:BE:69:LYS:HG2	39:BE:90:THR:OG1	2.11	0.50
38:BD:270:ILE:HD12	38:BD:270:ILE:O	2.11	0.50
20:AT:23:ARG:HA	20:AT:26:ASN:HD21	1.76	0.50
5:CE:8:GLU:CA	5:CE:34:VAL:HG23	2.42	0.50
25:B0:14:ARG:NH1	35:BA:2279:G:O6	2.45	0.50
35:BA:2161:C:O2'	35:BA:2162:G:H5'	2.12	0.50
27:B2:50:ILE:O	27:B2:52:ASP:N	2.41	0.50
10:AJ:61:GLU:OE1	14:AN:49:HIS:CE1	2.61	0.50
39:BE:93:VAL:C	39:BE:95:ILE:N	2.63	0.50
35:BA:532:A:N3	35:BA:532:A:H2'	2.26	0.50
1:CA:1118:C:H42	1:CA:1155:G:H1	1.59	0.50
36:DB:81:G:H2'	36:DB:82:G:H5'	1.93	0.50
35:BA:756:C:C2'	35:BA:757:U:H5'	2.40	0.50
1:AA:177:C:C2	1:AA:178:C:C5	3.00	0.50
1:AA:177:C:H2'	1:AA:178:C:H6	1.77	0.50
47:BO:32:TYR:N	47:BO:32:TYR:CD1	2.80	0.50
35:DA:750:A:H3'	35:DA:751:A:H5''	1.94	0.50
29:B4:12:ALA:HB2	29:B4:29:PRO:HA	1.94	0.50
1:AA:1346:A:H1'	1:AA:1348:U:C5	2.47	0.50
37:BC:138:LEU:HD13	37:BC:138:LEU:C	2.32	0.50
24:CY:415:PRO:O	24:CY:416:LYS:C	2.50	0.50
16:CP:60:LEU:HD21	16:CP:66:PRO:HD3	1.92	0.50
35:DA:1719:G:H2'	35:DA:1720:U:H5'	1.94	0.50
38:BD:14:ARG:HG3	38:BD:15:PHE:N	2.26	0.50
1:AA:159:G:H2'	1:AA:160:A:H5''	1.94	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1567:A:H5'	38:DD:58:HIS:CD2	2.46	0.50
35:DA:1669:A:H4'	35:DA:2549:G:H4'	1.94	0.50
42:BH:68:THR:C	42:BH:70:THR:H	2.15	0.50
8:CH:6:ILE:H	8:CH:6:ILE:HD12	1.77	0.50
6:CF:44:GLY:HA2	6:CF:59:TYR:CE1	2.46	0.50
24:CY:439:ARG:O	24:CY:452:SER:CB	2.60	0.50
8:CH:86:ILE:HG13	8:CH:133:LEU:HD22	1.92	0.50
35:BA:1614:A:N1	55:BW:91:GLY:HA2	2.27	0.50
1:AA:423:G:C2'	1:AA:424:G:H5'	2.41	0.50
1:AA:1459:C:H2'	1:AA:1460:A:C8	2.47	0.50
6:AF:21:LEU:O	6:AF:25:ILE:HG12	2.11	0.50
54:BV:99:ILE:H	54:BV:99:ILE:HD13	1.77	0.50
35:DA:1316:U:O2'	35:DA:1317:A:H5'	2.11	0.50
58:DZ:154:ASP:N	58:DZ:154:ASP:OD2	2.44	0.50
1:AA:452:A:O2'	1:AA:453:A:H8	1.94	0.50
35:DA:600:G:H2'	35:DA:601:C:C6	2.47	0.50
50:BR:48:VAL:O	50:BR:49:ASP:C	2.49	0.50
56:DX:57:LEU:HD13	56:DX:57:LEU:N	2.27	0.50
1:AA:1205:U:O2'	3:AC:195:VAL:HG23	2.10	0.50
22:AV:39:C:H2'	22:AV:40:C:H6	1.76	0.50
35:DA:1536:C:H2'	35:DA:1537:G:H4'	1.93	0.50
14:AN:25:VAL:HG23	14:AN:38:GLY:O	2.11	0.50
17:AQ:94:ASN:O	17:AQ:96:GLU:N	2.45	0.50
1:CA:306:G:O2'	1:CA:307:C:H5'	2.12	0.50
1:CA:1473:A:O2'	1:CA:1474:G:H5'	2.11	0.50
47:BO:20:MET:HE3	47:BO:44:LYS:HE3	1.93	0.50
35:DA:1853:A:H2'	35:DA:1854:A:C8	2.47	0.50
56:BX:57:LEU:HD13	56:BX:57:LEU:N	2.26	0.50
35:DA:1240:U:O2'	35:DA:1241:A:H5'	2.10	0.50
41:BG:61:ALA:HB2	41:BG:68:PRO:HD3	1.94	0.50
1:CA:429:U:H4'	1:CA:430:A:O5'	2.11	0.50
35:DA:1043:C:H2'	35:DA:1044:G:C5'	2.19	0.50
24:AY:204:GLU:H	24:AY:204:GLU:CD	2.14	0.50
35:BA:2733:A:O2'	35:BA:2734:A:H5'	2.12	0.50
24:AY:415:PRO:HG3	24:AY:421:GLN:HG2	1.94	0.50
58:BZ:67:LEU:HD23	58:BZ:90:VAL:HG11	1.93	0.50
56:DX:10:ALA:HB1	56:DX:11:PRO:CD	2.41	0.50
1:AA:6:G:H2'	5:AE:119:LEU:CD1	2.42	0.50
46:DN:15:LEU:HD23	46:DN:53:VAL:HB	1.94	0.50
35:BA:1301:A:HO2'	35:BA:1302:A:P	2.34	0.50
27:D2:21:LEU:O	27:D2:25:VAL:HG23	2.11	0.50
35:DA:582:G:C6	35:DA:1259:G:N1	2.80	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
53:DU:13:LYS:O	53:DU:16:LYS:HB2	2.12	0.50
48:DP:101:VAL:HB	48:DP:107:LYS:HA	1.94	0.50
35:DA:636:G:H2'	48:DP:115:LEU:HD12	1.93	0.50
2:CB:211:ILE:HG22	2:CB:215:LEU:HD23	1.93	0.50
26:D1:23:LYS:HE2	26:D1:28:GLY:CA	2.30	0.50
26:D1:26:ARG:HG3	26:D1:27:GLU:N	2.26	0.50
2:AB:91:PRO:HG2	2:AB:155:LEU:HD23	1.94	0.50
46:BN:23:LEU:HB3	46:BN:60:ILE:CG2	2.39	0.50
3:AC:90:GLU:HA	3:AC:93:LYS:CB	2.41	0.50
35:BA:803:U:H2'	35:BA:804:A:H5'	1.92	0.50
2:CB:223:ILE:HG23	2:CB:226:ARG:HD2	1.93	0.50
39:BE:14:ILE:HG13	39:BE:21:VAL:CG2	2.41	0.50
58:DZ:128:VAL:CG2	58:DZ:129:SER:N	2.73	0.50
52:DT:56:GLY:O	52:DT:59:THR:HG23	2.11	0.50
49:BQ:17:LEU:O	49:BQ:18:LYS:HD2	2.12	0.50
22:CW:11:A:H61	22:CW:25:U:H3	1.59	0.50
1:CA:1277:C:H6	1:CA:1277:C:H3'	1.77	0.50
38:BD:26:LYS:O	38:BD:27:THR:CB	2.60	0.50
35:DA:1528:A:C2	35:DA:1542:A:H2	2.29	0.50
35:DA:1052:C:N3	35:DA:1107:G:N2	2.58	0.50
4:AD:61:LYS:NZ	4:AD:72:GLU:OE2	2.42	0.50
24:CY:122:TRP:O	24:CY:125:ALA:N	2.31	0.50
35:DA:2853:C:H2'	35:DA:2854:G:H8	1.76	0.50
36:BB:13:A:O2'	36:BB:15:A:H5''	2.11	0.50
24:AY:679:VAL:HB	24:AY:683:VAL:HB	1.94	0.50
49:BQ:110:THR:HG22	49:BQ:113:GLN:OE1	2.11	0.50
10:AJ:47:PHE:CE2	14:AN:37:PHE:CE2	3.00	0.50
24:CY:177:ILE:C	24:CY:178:ILE:HD12	2.32	0.50
24:AY:655:TYR:CZ	24:AY:659:LEU:HD23	2.47	0.50
15:AO:43:LEU:HD12	15:AO:56:LEU:HD22	1.93	0.50
27:D2:59:ARG:HA	35:DA:76:C:O2'	2.11	0.50
35:DA:1344:G:H1	35:DA:1403:C:H42	1.60	0.50
54:BV:5:VAL:HG23	54:BV:37:VAL:HG23	1.93	0.50
1:CA:538:G:OP2	12:CL:115:LYS:HG3	2.11	0.50
37:BC:4:HIS:HB3	37:BC:8:TYR:HD2	1.77	0.50
12:AL:115:LYS:O	12:AL:117:ARG:N	2.45	0.50
35:BA:1829:A:N3	38:BD:15:PHE:CZ	2.80	0.50
14:CN:12:ARG:O	14:CN:14:PRO:CD	2.59	0.50
42:BH:29:PRO:HD2	42:BH:79:VAL:O	2.12	0.50
22:CW:53:G:O6	22:CW:63:C:N3	2.45	0.50
42:DH:37:VAL:CG1	42:DH:38:SER:N	2.75	0.50
24:AY:388:THR:CG2	24:AY:399:LEU:HD13	2.42	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1064:C:H4'	44:BK:89:HIS:CD2	2.46	0.50
35:DA:1930:G:N2	35:DA:1968:G:H2'	2.27	0.50
35:BA:1168:G:H2'	35:BA:1169:G:O4'	2.12	0.50
1:AA:404:U:H2'	1:AA:405:U:C6	2.47	0.50
1:AA:957:U:H2'	1:AA:959:A:OP2	2.12	0.50
1:AA:950:U:H2'	1:AA:951:G:C8	2.45	0.50
38:BD:200:ASP:O	38:BD:201:HIS:C	2.50	0.50
1:CA:1222:G:O2'	1:CA:1223:C:H5'	2.11	0.50
27:D2:29:LYS:NZ	56:DX:6:ASP:OD2	2.41	0.50
35:DA:737:C:H2'	35:DA:738:G:H5'	1.93	0.50
35:DA:2337:G:H2'	35:DA:2338:G:H8	1.77	0.50
1:AA:895:G:H5''	1:AA:896:C:OP2	2.11	0.50
1:AA:1430:C:H6	1:AA:1430:C:O5'	1.95	0.50
44:DK:95:LYS:HG2	44:DK:137:GLU:OE1	2.11	0.50
1:CA:622:A:C8	1:CA:623:C:C5	2.99	0.50
1:CA:1147:C:O2'	9:CI:16:ARG:HD2	2.11	0.50
49:BQ:41:TRP:HE1	49:BQ:96:VAL:HG22	1.76	0.50
3:CC:54:ARG:HH11	3:CC:54:ARG:HG2	1.76	0.50
40:BF:41:LEU:HD23	40:BF:44:ARG:HE	1.77	0.50
24:AY:481:VAL:HG23	24:AY:483:TYR:CE2	2.47	0.50
41:BG:98:ARG:H	41:BG:98:ARG:NH1	2.07	0.50
24:AY:177:ILE:HG22	24:AY:178:ILE:H	1.77	0.50
24:AY:181:LEU:HD12	24:AY:242:LEU:HD13	1.94	0.50
46:DN:2:LYS:O	46:DN:4:TYR:CZ	2.64	0.50
53:DU:47:TYR:CA	53:DU:50:ARG:NH2	2.73	0.50
46:BN:2:LYS:O	46:BN:4:TYR:CZ	2.65	0.50
53:BU:83:LEU:N	53:BU:83:LEU:CD1	2.72	0.50
31:B6:6:ARG:C	31:B6:8:LYS:H	2.15	0.50
58:DZ:35:ARG:HH11	58:DZ:35:ARG:CG	2.25	0.50
35:DA:274:G:N3	35:DA:274:G:C2'	2.74	0.50
31:D6:27:LYS:HB3	31:D6:32:ASN:HD22	1.75	0.50
35:DA:664:C:O2'	35:DA:665:C:H5'	2.10	0.50
41:DG:88:ILE:HG23	41:DG:89:GLY:N	2.27	0.50
22:AV:20:U:C3'	22:AV:21:A:C5'	2.90	0.50
40:BF:170:LEU:N	40:BF:170:LEU:HD22	2.27	0.50
35:BA:1827:C:H2'	35:BA:1828:G:O4'	2.11	0.50
5:AE:142:LEU:O	5:AE:143:ARG:NE	2.42	0.50
31:D6:47:THR:CG2	31:D6:48:VAL:H	2.19	0.50
49:DQ:109:VAL:HG12	49:DQ:113:GLN:HB2	1.94	0.50
27:B2:3:LEU:HD22	27:B2:7:ARG:HH22	1.76	0.50
24:AY:74:TRP:CH2	24:AY:270:GLN:HG2	2.47	0.50
35:DA:811:U:H3'	35:DA:812:C:C5'	2.41	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:DP:112:LEU:N	48:DP:128:HIS:HD2	2.09	0.50
35:BA:2307:G:H3'	35:BA:2307:G:N3	2.27	0.50
56:DX:35:THR:HG22	56:DX:36:LYS:N	2.27	0.50
35:BA:2892:A:H62	35:BA:2893:G:H21	1.59	0.50
19:AS:41:VAL:CG2	19:AS:44:MET:HB2	2.35	0.50
39:DE:69:LYS:HG2	39:DE:90:THR:OG1	2.12	0.50
35:BA:1142(A):A:C5	35:BA:1144:G:C5	3.00	0.50
50:DR:100:LEU:HD13	50:DR:100:LEU:N	2.26	0.50
35:DA:1998:G:O2'	35:DA:1999:C:H5'	2.12	0.50
6:CF:67:MET:HB2	6:CF:68:PRO:CD	2.37	0.50
39:BE:9:VAL:HG22	39:BE:10:GLY:N	2.26	0.50
42:BH:50:VAL:HG12	42:BH:51:ARG:N	2.26	0.50
30:D5:48:GLU:O	30:D5:49:CYS:HB3	2.12	0.50
35:DA:1784:A:H4'	35:DA:1785:A:O5'	2.10	0.50
50:DR:10:LEU:CD2	50:DR:17:ARG:HD3	2.42	0.50
42:DH:149:ARG:HA	42:DH:162:ILE:HG13	1.92	0.50
35:DA:71:A:H4'	35:DA:72:U:H5''	1.93	0.50
29:B4:14:ILE:HG22	29:B4:15:ILE:N	2.27	0.50
58:BZ:143:GLY:C	58:BZ:144:LEU:HD22	2.32	0.50
9:CI:93:ARG:HA	9:CI:96:LEU:HB2	1.94	0.50
9:CI:5:TYR:HD2	9:CI:17:VAL:O	1.94	0.50
38:DD:24:ILE:CG1	38:DD:25:THR:N	2.75	0.50
40:BF:160:ASN:HD21	40:BF:162:LEU:HD13	1.76	0.50
1:AA:141:A:H1'	1:AA:182:U:C2	2.47	0.50
1:CA:1122:U:C2'	1:CA:1123:A:H5'	2.42	0.50
35:DA:827:U:H2'	35:DA:2068:U:O2	2.12	0.50
1:AA:1202:G:C2'	1:AA:1203:C:H5'	2.42	0.50
36:BB:15:A:C3'	36:BB:16:G:H5'	2.42	0.50
24:AY:628:ARG:HH11	24:AY:628:ARG:HG2	1.77	0.50
35:BA:760:G:C2'	35:BA:761:A:H5'	2.41	0.50
35:BA:781:A:H2'	35:BA:1777:U:O2'	2.11	0.50
54:BV:35:LEU:C	54:BV:37:VAL:N	2.64	0.50
3:CC:128:PHE:O	3:CC:130:VAL:N	2.45	0.50
13:CM:54:VAL:O	13:CM:56:LEU:N	2.45	0.50
18:AR:87:ARG:CB	18:AR:87:ARG:HH11	2.25	0.50
28:D3:54:VAL:HG12	28:D3:55:ARG:N	2.27	0.50
48:BP:140:ALA:O	48:BP:141:ALA:HB3	2.12	0.50
48:DP:89:ALA:HA	48:DP:121:LYS:HD3	1.93	0.50
4:CD:101:LEU:HD23	4:CD:121:VAL:HG13	1.94	0.50
35:BA:2348:U:C2'	35:BA:2349:G:C5'	2.88	0.50
35:DA:1437:C:H2'	35:DA:1438:U:C6	2.46	0.50
5:AE:43:LEU:CD2	5:AE:132:ALA:HB1	2.41	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:264:LEU:HD23	24:AY:264:LEU:C	2.33	0.50
1:AA:174:C:H2'	1:AA:175:C:H6	1.75	0.50
1:AA:555:C:H2'	1:AA:556:C:C6	2.47	0.50
35:DA:852:G:H2'	35:DA:853:G:C8	2.46	0.50
35:BA:1623:G:H2'	35:BA:1624:G:H8	1.77	0.50
37:BC:60:ARG:HG2	37:BC:61:GLY:N	2.26	0.50
35:DA:1317:A:H2'	35:DA:1318:C:C6	2.47	0.50
35:DA:2705:A:H2'	35:DA:2706:G:O4'	2.12	0.50
3:AC:28:GLN:O	3:AC:29:TYR:C	2.50	0.50
58:BZ:9:TYR:HB3	58:BZ:35:ARG:HH22	1.77	0.50
35:DA:2695:C:H2'	35:DA:2696:U:C6	2.47	0.50
50:DR:26:LYS:CE	50:DR:71:GLN:H	2.25	0.50
40:DF:100:THR:O	40:DF:100:THR:HG22	2.12	0.50
1:AA:620:C:C2	4:AD:135:LEU:HG	2.47	0.50
44:BK:95:LYS:HG2	44:BK:137:GLU:OE1	2.11	0.50
1:CA:509:A:H5'	1:CA:510:A:P	2.50	0.50
1:CA:1490:C:H2'	1:CA:1491:G:C5'	2.41	0.50
40:BF:180:GLY:O	40:BF:182:ASN:N	2.45	0.50
24:AY:115:GLU:HG3	24:AY:115:GLU:O	2.12	0.50
53:DU:112:ARG:CG	53:DU:112:ARG:HH11	2.25	0.50
54:BV:46:VAL:HG13	54:BV:47:VAL:N	2.27	0.50
51:DS:14:VAL:O	51:DS:15:ARG:C	2.47	0.50
29:D4:25:TYR:O	41:DG:105:LYS:NZ	2.45	0.50
47:BO:64:ARG:NH1	47:BO:83:ALA:HB2	2.27	0.50
24:CY:137:ASN:ND2	24:CY:263:ALA:H	2.10	0.50
5:CE:72:GLN:O	5:CE:73:ASN:HB2	2.11	0.50
49:DQ:62:GLY:HA2	58:DZ:116:VAL:CG2	2.41	0.50
35:DA:999:U:H5''	35:DA:1154:G:O6	2.12	0.50
3:AC:94:LEU:O	3:AC:94:LEU:HD12	2.11	0.50
35:DA:2453:A:H2'	35:DA:2454:G:C8	2.46	0.50
48:BP:101:VAL:HB	48:BP:107:LYS:HA	1.93	0.50
35:BA:2307:G:H21	35:BA:2308:G:C5'	2.25	0.50
44:BK:100:THR:OG1	44:BK:103:GLN:HG3	2.12	0.50
39:DE:32:PRO:N	39:DE:90:THR:HG23	2.27	0.50
39:DE:50:GLY:CA	39:DE:78:LEU:HB3	2.40	0.50
26:B1:76:ARG:CZ	26:B1:95:LEU:HD22	2.41	0.50
35:DA:1142(A):A:C5	35:DA:1144:G:C5	3.00	0.50
35:DA:1145:C:H2'	35:DA:1146:C:H6	1.77	0.50
20:CT:26:ASN:N	20:CT:26:ASN:ND2	2.59	0.50
2:AB:189:ASP:C	2:AB:191:ASP:H	2.15	0.50
2:AB:51:LEU:CD2	2:AB:55:PHE:HE2	2.24	0.50
10:CJ:50:ILE:N	10:CJ:50:ILE:HD13	2.16	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:CE:12:LEU:HD13	5:CE:12:LEU:O	2.12	0.50
44:BK:13:PRO:HA	44:BK:52:ILE:HA	1.94	0.50
12:CL:79:GLU:HB2	24:CY:442:THR:CG2	2.35	0.50
41:DG:77:ILE:CG2	41:DG:80:PHE:N	2.74	0.50
13:CM:65:LYS:C	13:CM:66:LEU:HD12	2.32	0.50
18:AR:53:ARG:C	18:AR:55:ARG:N	2.63	0.50
35:BA:2019:A:O4'	53:BU:34:LYS:HD2	2.12	0.50
24:CY:441:SER:O	24:CY:449:THR:HG23	2.12	0.50
1:AA:1511:G:O2'	1:AA:1512:U:H5'	2.11	0.50
35:BA:259:G:N2	35:BA:621:A:H8	2.09	0.50
58:DZ:142:SER:N	58:DZ:144:LEU:HD23	2.26	0.50
24:CY:65:ILE:H	24:CY:65:ILE:HD13	1.77	0.50
1:CA:1286:A:H2'	1:CA:1287:A:H4'	1.94	0.50
22:CV:35:A:HO2'	22:CV:36:U:H5'	1.75	0.50
35:BA:1052:C:O2'	35:BA:1053:C:O5'	2.30	0.50
35:BA:2853:C:H2'	35:BA:2854:G:C8	2.46	0.50
35:BA:1186:G:C2'	35:BA:1187:G:H5'	2.42	0.50
24:CY:119:GLU:O	24:CY:121:VAL:N	2.43	0.50
1:AA:1288:A:H2'	1:AA:1289:A:C8	2.47	0.50
58:DZ:102:LEU:HD11	58:DZ:124:ILE:HG21	1.93	0.50
55:BW:14:PRO:HG2	55:BW:78:GLU:HB2	1.94	0.50
50:BR:7:GLY:HA3	50:BR:8:ARG:NH2	2.27	0.50
35:DA:1722:A:H2	35:DA:1740:G:H2'	1.77	0.50
35:DA:2521:C:N4	35:DA:2544:G:H1	2.07	0.50
1:CA:1125:U:H2'	1:CA:1126:U:H2'	1.94	0.50
4:CD:4:TYR:O	4:CD:5:ILE:CB	2.59	0.50
39:DE:81:ILE:CG2	39:DE:81:ILE:O	2.59	0.50
51:BS:17:ARG:HA	51:BS:20:ARG:NH1	2.27	0.50
38:DD:176:ARG:CG	38:DD:176:ARG:HH11	2.24	0.50
39:DE:9:VAL:HG22	39:DE:10:GLY:N	2.25	0.50
1:AA:375:U:C2	1:AA:376:G:C8	2.99	0.50
14:CN:15:LYS:O	14:CN:16:PHE:C	2.50	0.50
1:AA:489:C:H2'	1:AA:490:G:H8	1.76	0.50
35:BA:483:A:N3	35:BA:483:A:H2'	2.26	0.50
37:DC:4:HIS:HB3	37:DC:8:TYR:HD2	1.77	0.50
30:D5:16:ARG:HD2	30:D5:20:ARG:HH12	1.77	0.50
58:DZ:70:LEU:HG	58:DZ:91:LEU:CD1	2.42	0.50
40:BF:42:ALA:O	40:BF:45:ARG:HG3	2.12	0.50
35:DA:1491:G:O2'	38:DD:101:GLU:HB2	2.12	0.50
38:DD:210:GLY:O	38:DD:211:ARG:CB	2.60	0.50
1:AA:505:G:H5'	1:AA:534:U:H2'	1.94	0.50
35:DA:1623:G:H2'	35:DA:1624:G:H8	1.77	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1972:A:H2'	35:DA:1973:G:C8	2.46	0.50
38:BD:78:LYS:HG2	38:BD:79:VAL:N	2.27	0.50
7:CG:29:LYS:HB2	7:CG:105:VAL:HG21	1.94	0.50
22:AW:20:G:C5	35:BA:2169:A:H2	2.29	0.50
58:DZ:152:ALA:HB3	58:DZ:154:ASP:OD2	2.12	0.50
35:BA:1071:G:N2	35:BA:1090:U:C5	2.80	0.50
1:AA:940:C:O2'	1:AA:941:G:H5'	2.12	0.50
1:CA:1205:U:O2'	3:CC:195:VAL:HG23	2.12	0.50
35:DA:74:A:O2'	35:DA:75:G:OP2	2.28	0.50
1:CA:238:G:C6	1:CA:239:U:C4	3.00	0.50
42:DH:173:PRO:C	42:DH:175:LYS:N	2.65	0.49
24:CY:678:GLU:CG	24:CY:679:VAL:N	2.74	0.49
1:AA:429:U:H4'	1:AA:430:A:O5'	2.11	0.49
24:AY:223:PHE:CE2	24:AY:249:GLY:HA3	2.47	0.49
53:BU:92:ARG:CD	53:BU:94:ASN:HB3	2.41	0.49
31:B6:28:ARG:O	31:B6:32:ASN:HB2	2.11	0.49
35:BA:302:C:H2'	35:BA:303:U:H6	1.77	0.49
40:DF:192:LEU:CD2	40:DF:194:MET:HG3	2.26	0.49
35:DA:1899:G:O2'	35:DA:1900:A:H5''	2.12	0.49
40:BF:168:ARG:C	40:BF:170:LEU:H	2.16	0.49
35:DA:1264:G:O3'	35:DA:2615:U:H5'	2.12	0.49
31:B6:43:CYS:O	31:B6:44:ARG:NE	2.45	0.49
48:DP:16:ARG:CZ	48:DP:18:ARG:HB2	2.42	0.49
48:BP:16:ARG:HD3	48:BP:18:ARG:N	2.11	0.49
39:DE:69:LYS:O	39:DE:70:ALA:C	2.49	0.49
39:BE:36:ARG:NH2	39:BE:88:GLY:CA	2.74	0.49
24:AY:525:PHE:N	24:AY:525:PHE:CD1	2.80	0.49
44:DK:13:PRO:HA	44:DK:52:ILE:HA	1.94	0.49
35:BA:802:A:H2'	35:BA:803:U:C6	2.47	0.49
13:AM:78:ILE:CA	13:AM:81:LEU:HD23	2.40	0.49
24:AY:337:SER:HA	24:AY:355:LEU:CD2	2.42	0.49
30:B5:42:PRO:HB2	30:B5:43:HIS:CD2	2.47	0.49
36:DB:87:G:H2'	36:DB:88:C:H5''	1.94	0.49
1:AA:737:A:H2'	1:AA:738:C:H6	1.74	0.49
37:DC:84:ILE:HG12	37:DC:96:GLY:O	2.11	0.49
5:AE:12:LEU:HD13	5:AE:12:LEU:O	2.12	0.49
42:DH:46:GLU:HG3	42:DH:51:ARG:H	1.77	0.49
35:BA:2502:G:H5''	35:BA:2503:A:C5'	2.37	0.49
35:BA:1668:A:H61	35:BA:1676:A:H61	1.59	0.49
29:B4:19:GLY:O	29:B4:20:ASN:C	2.51	0.49
12:AL:92:ASP:O	12:AL:94:PRO:HD3	2.12	0.49
27:B2:2:LYS:HB3	35:BA:97:C:H5''	1.94	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:B2:47:ASN:HD22	35:BA:94(A):G:H21	1.59	0.49
35:BA:1336:A:OP2	56:BX:64:LYS:HE3	2.11	0.49
35:DA:1542:A:C8	35:DA:1542:A:H3'	2.47	0.49
50:BR:4:LEU:C	50:BR:6:SER:N	2.64	0.49
9:CI:83:ARG:O	9:CI:86:VAL:HG12	2.12	0.49
55:DW:59:VAL:HG21	55:DW:66:GLU:HB2	1.93	0.49
24:AY:92:ILE:CG2	24:AY:93:GLU:N	2.74	0.49
37:BC:135:ARG:HD2	37:BC:135:ARG:N	2.27	0.49
35:BA:1558:A:O2'	35:BA:1559:G:OP2	2.29	0.49
22:CV:19:G:H3'	22:CV:20:U:O2	2.12	0.49
3:AC:5:ILE:CD1	3:AC:5:ILE:H	2.25	0.49
49:BQ:67:ARG:HD2	49:BQ:105:GLU:OE1	2.12	0.49
1:AA:193:C:H2'	1:AA:194:C:C6	2.47	0.49
42:DH:103:LEU:HB2	42:DH:123:PHE:HD2	1.77	0.49
58:DZ:102:LEU:HD11	58:DZ:124:ILE:CG2	2.41	0.49
12:AL:47:LYS:CB	12:AL:48:PRO:CD	2.89	0.49
53:BU:26:GLY:C	53:BU:28:ARG:H	2.16	0.49
35:DA:2543:G:H5'	35:DA:2543:G:H8	1.77	0.49
48:BP:108:LYS:C	48:BP:110:TYR:N	2.64	0.49
38:DD:77:ALA:HB2	38:DD:97:TYR:HA	1.93	0.49
1:AA:1346:A:N6	1:AA:1375:A:OP2	2.41	0.49
1:CA:66:G:C4'	1:CA:173:U:C5	2.95	0.49
37:DC:79:ALA:O	37:DC:120:VAL:HG11	2.12	0.49
36:DB:20:C:C2'	36:DB:21:G:H5''	2.42	0.49
1:AA:376:G:OP2	16:AP:67:THR:HG21	2.12	0.49
1:CA:318:G:H2'	1:CA:319:G:H8	1.76	0.49
35:BA:1567:A:C5'	38:BD:58:HIS:CD2	2.95	0.49
9:AI:40:LEU:O	9:AI:42:ARG:N	2.41	0.49
1:CA:1377:A:H2'	7:CG:7:ALA:HB2	1.94	0.49
48:DP:140:ALA:O	48:DP:141:ALA:HB3	2.12	0.49
43:BJ:26:UNK:CB	43:BJ:84:UNK:HA	2.41	0.49
32:D7:46:VAL:CG1	32:D7:47:ARG:N	2.73	0.49
38:BD:227:ASN:HB3	38:BD:228:PRO:HD2	1.93	0.49
38:BD:73:VAL:O	38:BD:75:ILE:HG12	2.11	0.49
35:BA:342:G:O2'	35:BA:343:C:H5'	2.12	0.49
54:BV:2:PHE:O	54:BV:14:VAL:O	2.30	0.49
7:CG:65:ALA:HA	7:CG:128:ALA:HA	1.94	0.49
1:AA:765:G:H22	1:AA:812:C:HO2'	1.58	0.49
22:AV:28:C:H2'	22:AV:29:G:C8	2.47	0.49
35:DA:917:A:H2'	35:DA:918:A:O4'	2.12	0.49
22:CV:23:C:H2'	22:CV:24:U:C6	2.46	0.49
1:CA:719:C:O2'	18:CR:49:LYS:HB3	2.12	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2028:U:H2'	35:BA:2029:G:C8	2.47	0.49
35:DA:667:U:H2'	35:DA:668:G:O4'	2.12	0.49
50:DR:48:VAL:O	50:DR:49:ASP:C	2.50	0.49
4:CD:170:VAL:O	4:CD:171:GLY:O	2.30	0.49
35:BA:2062:A:N3	35:BA:2062:A:O4'	2.45	0.49
24:AY:616:TYR:CE2	24:AY:664:GLN:HG3	2.47	0.49
10:AJ:27:ALA:HB2	10:AJ:85:LEU:HD11	1.92	0.49
35:BA:2051:A:H2'	35:BA:2578:G:O5'	2.12	0.49
37:BC:153:ILE:O	37:BC:157:ILE:HG13	2.12	0.49
24:CY:601:ILE:O	24:CY:678:GLU:HA	2.12	0.49
24:AY:121:VAL:CA	24:AY:124:GLN:HE22	2.25	0.49
38:DD:62:TYR:CE1	38:DD:64:ILE:HA	2.47	0.49
56:DX:14:SER:H	56:DX:17:ALA:HB3	1.76	0.49
58:DZ:43:GLU:O	58:DZ:47:VAL:N	2.45	0.49
58:DZ:63:ASP:C	58:DZ:65:GLN:H	2.16	0.49
38:BD:35:LYS:NZ	38:BD:35:LYS:HB3	2.27	0.49
57:BY:12:THR:HG23	57:BY:25:GLY:O	2.12	0.49
40:DF:204:ASN:C	40:DF:206:ILE:H	2.16	0.49
31:D6:10:LEU:HB3	33:D8:34:TRP:CD1	2.47	0.49
35:DA:2313:C:H5'	35:DA:2313:C:C6	2.39	0.49
58:BZ:151:HIS:HA	58:BZ:171:ILE:CG2	2.26	0.49
57:BY:76:CYS:SG	57:BY:77:PRO:CD	2.86	0.49
35:BA:2056:G:N2	35:BA:2057:A:N9	2.60	0.49
55:DW:88:ARG:CB	55:DW:92:ARG:HB3	2.42	0.49
51:BS:35:ILE:CD1	51:BS:99:LYS:HE3	2.42	0.49
39:DE:116:VAL:HG22	39:DE:122:PHE:CG	2.47	0.49
44:DK:100:THR:OG1	44:DK:103:GLN:HG3	2.11	0.49
46:BN:132:ALA:O	46:BN:133:GLN:CB	2.60	0.49
2:CB:17:PHE:CD2	2:CB:18:GLY:N	2.80	0.49
1:AA:254:G:HO2'	1:AA:255:G:H5'	1.77	0.49
12:CL:70:ILE:HD12	12:CL:75:HIS:NE2	2.27	0.49
12:CL:75:HIS:CD2	12:CL:77:LEU:HD12	2.43	0.49
35:BA:948:G:H1	35:BA:969:U:H3	1.60	0.49
35:DA:2206:G:N3	35:DA:2206:G:H3'	2.27	0.49
39:BE:34:VAL:O	39:BE:34:VAL:HG22	2.11	0.49
41:DG:125:PHE:CZ	41:DG:170:ARG:HA	2.47	0.49
30:B5:55:ARG:NH1	50:BR:33:ARG:HD2	2.26	0.49
35:DA:2712:U:C2'	35:DA:2712(A):A:O5'	2.60	0.49
20:CT:23:ARG:HA	20:CT:26:ASN:HD21	1.77	0.49
14:AN:41:ARG:HG2	14:AN:41:ARG:NH1	2.19	0.49
2:AB:204:ASN:ND2	2:AB:204:ASN:C	2.65	0.49
14:CN:41:ARG:NH1	14:CN:41:ARG:HG2	2.24	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
25:D0:70:GLN:NE2	25:D0:80:HIS:NE2	2.60	0.49
30:D5:36:CYS:O	30:D5:36:CYS:SG	2.69	0.49
36:BB:85:G:O2'	36:BB:86:G:H5'	2.11	0.49
36:BB:87:G:H2'	36:BB:88:C:H5''	1.94	0.49
52:DT:1:MET:H2	52:DT:7:ILE:HD11	1.76	0.49
42:DH:118:PRO:CG	42:DH:121:ILE:HD12	2.38	0.49
24:CY:528:ALA:O	24:CY:568:TYR:HA	2.12	0.49
1:CA:665:A:H2'	1:CA:725:G:N2	2.27	0.49
24:CY:329:ARG:HG2	24:CY:331:TYR:OH	2.12	0.49
4:AD:58:LEU:HD23	4:AD:58:LEU:O	2.12	0.49
9:AI:11:LYS:HG2	9:AI:11:LYS:O	2.11	0.49
32:D7:27:GLY:HA2	32:D7:30:VAL:HG23	1.94	0.49
35:BA:2030:A:H4'	35:BA:2031:A:H8	1.77	0.49
4:CD:158:ILE:CG2	4:CD:162:LEU:HD12	2.43	0.49
8:CH:17:THR:CG2	8:CH:63:LEU:HD12	2.42	0.49
36:BB:20:C:C2'	36:BB:21:G:H5''	2.41	0.49
35:DA:528:A:C2	35:DA:2043:C:H5'	2.47	0.49
47:DO:63:VAL:HG23	47:DO:64:ARG:HG3	1.93	0.49
42:BH:40:GLU:HG3	42:BH:64:LEU:HD13	1.94	0.49
1:CA:159:G:H2'	1:CA:160:A:H5''	1.93	0.49
54:DV:5:VAL:HG23	54:DV:37:VAL:O	2.11	0.49
46:BN:125:GLY:HA3	46:BN:126:PRO:C	2.32	0.49
43:BJ:69:UNK:O	43:BJ:71:UNK:N	2.45	0.49
57:BY:52:SER:N	57:BY:53:PRO:CD	2.75	0.49
3:AC:51:GLY:O	3:AC:115:LEU:HD21	2.11	0.49
35:DA:52:A:C2'	35:DA:53:A:H5'	2.42	0.49
1:CA:1081:G:O2'	1:CA:1082:G:H5'	2.12	0.49
35:BA:654(P):C:H2'	35:BA:654(Q):C:O4'	2.12	0.49
35:DA:2115:G:H3'	35:DA:2116:G:C5'	2.42	0.49
37:BC:185:LYS:O	37:BC:186:LEU:C	2.50	0.49
37:DC:185:LYS:O	37:DC:186:LEU:C	2.50	0.49
55:DW:40:ASN:O	55:DW:41:LYS:HG2	2.12	0.49
19:CS:72:GLY:C	19:CS:74:PHE:H	2.15	0.49
6:AF:22:GLU:HA	6:AF:22:GLU:OE2	2.12	0.49
2:AB:137:ARG:HG2	2:AB:137:ARG:HH11	1.77	0.49
7:AG:29:LYS:CB	7:AG:105:VAL:HG21	2.42	0.49
54:DV:99:ILE:H	54:DV:99:ILE:HD13	1.77	0.49
35:BA:350:U:H2'	35:BA:351:G:O4'	2.12	0.49
1:AA:1388:C:H2'	1:AA:1389:C:H6	1.77	0.49
35:BA:1666:G:C2'	35:BA:1667:G:H5'	2.41	0.49
41:BG:7:LEU:HB3	41:BG:100:TRP:HE3	1.76	0.49
1:CA:509:A:H2	1:CA:543:C:H1'	1.76	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:210:ARG:O	24:AY:214:GLU:HG2	2.12	0.49
22:AW:5:G:C6	22:AW:70:C:N4	2.77	0.49
53:BU:47:TYR:CA	53:BU:50:ARG:NH2	2.74	0.49
40:DF:168:ARG:HG3	40:DF:175:THR:HB	1.93	0.49
2:AB:163:PHE:CD2	2:AB:185:ILE:HG13	2.47	0.49
31:D6:54:ILE:HD13	35:DA:2420:C:C5'	2.42	0.49
41:DG:39:ILE:CG1	41:DG:92:VAL:HG23	2.42	0.49
41:DG:57:ALA:O	41:DG:60:LEU:HB3	2.11	0.49
57:BY:84:ARG:HB2	57:BY:97:ARG:HB2	1.92	0.49
24:CY:227:ILE:HG23	24:CY:237:PRO:CG	2.37	0.49
52:DT:66:VAL:HA	52:DT:71:GLY:HA2	1.94	0.49
24:CY:32:ILE:HG23	24:CY:273:LEU:HD21	1.94	0.49
51:BS:74:ALA:HB3	51:BS:103:GLU:HG3	1.95	0.49
31:D6:15:GLU:O	31:D6:16:CYS:O	2.30	0.49
1:AA:1144:G:N2	1:AA:1146:A:H62	2.10	0.49
38:BD:48:ARG:HH11	38:BD:48:ARG:HG3	1.76	0.49
35:BA:811:U:H3'	35:BA:812:C:C5'	2.42	0.49
44:DK:93:ARG:HB2	58:DZ:112:ARG:HH21	1.76	0.49
35:DA:2308:G:N2	41:DG:79:ASN:CB	2.74	0.49
35:DA:2454:G:H2'	35:DA:2455:G:H5'	1.94	0.49
48:DP:144:GLU:HG2	48:DP:144:GLU:O	2.12	0.49
39:DE:59:VAL:HG21	39:DE:63:LEU:HA	1.93	0.49
51:DS:85:VAL:O	51:DS:106:ARG:HG2	2.13	0.49
1:AA:972:C:H4'	10:AJ:57:LYS:CB	2.42	0.49
2:AB:215:LEU:O	2:AB:218:ALA:HB3	2.12	0.49
17:CQ:67:LYS:O	17:CQ:69:LYS:N	2.44	0.49
35:DA:1827:C:H2'	35:DA:1828:G:O4'	2.12	0.49
26:D1:90:ILE:HG22	26:D1:94:LEU:CD1	2.42	0.49
24:CY:510:VAL:HA	24:CY:570:GLY:HA3	1.94	0.49
58:BZ:79:ARG:O	58:BZ:79:ARG:HG3	2.12	0.49
38:DD:26:LYS:O	38:DD:27:THR:CB	2.61	0.49
35:DA:2019:A:O3'	53:DU:27:LEU:HD12	2.12	0.49
51:BS:49:VAL:HG22	51:BS:80:LEU:HD12	1.95	0.49
10:AJ:69:ASN:O	10:AJ:70:ARG:HG3	2.12	0.49
1:CA:177:C:C2	1:CA:178:C:C5	3.00	0.49
24:CY:506:GLN:HA	24:CY:506:GLN:OE1	2.11	0.49
37:BC:34:ALA:CB	37:BC:179:ALA:HB2	2.43	0.49
37:BC:34:ALA:HA	37:BC:40:GLU:OE2	2.12	0.49
46:BN:65:LYS:CB	46:BN:65:LYS:NZ	2.76	0.49
35:BA:753:C:H2'	35:BA:754:C:H6	1.77	0.49
4:CD:57:ARG:NH1	4:CD:205:GLU:OE2	2.45	0.49
24:AY:681:LYS:HD2	24:AY:682:GLN:N	2.27	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1404:C:H1'	1:CA:1499:A:N1	2.26	0.49
57:DY:47:LYS:O	57:DY:48:ALA:O	2.30	0.49
1:AA:1094:G:O2'	1:AA:1095:U:OP2	2.28	0.49
37:BC:120:VAL:O	37:BC:124:VAL:HG23	2.12	0.49
18:AR:87:ARG:CB	18:AR:87:ARG:NH1	2.74	0.49
3:AC:179:ARG:NH2	3:AC:206:GLU:OE2	2.45	0.49
50:DR:18:LEU:HD23	50:DR:19:ALA:N	2.27	0.49
27:B2:61:LEU:HA	27:B2:64:LEU:HB3	1.94	0.49
50:BR:53:HIS:O	50:BR:53:HIS:ND1	2.43	0.49
35:BA:1248:G:N3	53:BU:3:ARG:HD2	2.26	0.49
35:BA:1750:G:O2'	35:BA:1751:C:H5'	2.11	0.49
16:AP:9:PHE:HE2	16:AP:18:ARG:HD2	1.76	0.49
1:AA:636:U:H2'	1:AA:637:G:C8	2.47	0.49
41:BG:5:VAL:O	41:BG:6:ALA:C	2.49	0.49
24:CY:336:THR:HG22	24:CY:337:SER:N	2.27	0.49
27:B2:18:PRO:O	27:B2:19:VAL:C	2.50	0.49
1:CA:1466:C:H2'	1:CA:1467:G:O4'	2.12	0.49
35:BA:86:C:H4'	35:BA:104:U:H1'	1.93	0.49
35:DA:1556:C:H2'	35:DA:1557:C:C6	2.47	0.49
35:BA:123:G:O2'	35:BA:124:G:H5'	2.12	0.49
22:CV:76:A:H4'	22:CV:76:A:OP1	2.12	0.49
45:BL:70:UNK:HA	45:BL:73:UNK:CB	2.43	0.49
3:AC:54:ARG:HG2	3:AC:54:ARG:HH11	1.77	0.49
41:DG:129:GLY:O	41:DG:130:ASN:CG	2.51	0.49
1:AA:719:C:C2	18:AR:50:ILE:HG12	2.47	0.49
35:BA:2050:C:H1'	39:BE:156:MET:CE	2.43	0.49
4:AD:8:VAL:C	4:AD:10:ARG:H	2.14	0.49
24:CY:138:LYS:HE2	62:CY:703:GDP:N9	2.27	0.49
7:AG:82:GLY:HA3	23:AX:13:A:C2	2.47	0.49
39:DE:119:ARG:HD2	39:DE:120:TRP:NE1	2.27	0.49
24:AY:125:ALA:C	24:AY:127:LYS:N	2.66	0.49
53:DU:92:ARG:CD	53:DU:94:ASN:HB3	2.41	0.49
35:DA:769:G:H4'	35:DA:1379:A:N1	2.27	0.49
35:DA:769:G:H2'	35:DA:770:G:H8	1.77	0.49
24:AY:8:ASP:O	24:AY:10:LYS:N	2.44	0.49
46:BN:2:LYS:NZ	54:BV:12:TYR:HA	2.27	0.49
57:DY:84:ARG:HB2	57:DY:97:ARG:HB2	1.94	0.49
35:BA:363(A):A:H2'	35:BA:363(B):G:C8	2.46	0.49
33:D8:31:HIS:HE1	35:DA:2392:A:OP2	1.94	0.49
8:AH:104:ARG:O	8:AH:107:LEU:N	2.46	0.49
30:B5:4:HIS:CB	30:B5:5:PRO:CD	2.89	0.49
3:CC:35:GLU:O	3:CC:39:ILE:HG13	2.12	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:DN:120:LEU:CD1	46:DN:122:VAL:HG23	2.41	0.49
5:AE:127:ASN:O	5:AE:131:ILE:HG12	2.12	0.49
1:AA:189(D):C:H2'	1:AA:189(E):U:O4'	2.11	0.49
35:DA:515:A:C2	35:DA:1261:C:H1'	2.48	0.49
35:DA:650:C:C2'	35:DA:651:G:H5''	2.42	0.49
48:BP:147:LEU:O	48:BP:148:LEU:HB2	2.12	0.49
2:CB:82:ARG:HH11	2:CB:82:ARG:HG3	1.77	0.49
35:BA:2787:C:O2	39:BE:61:ARG:HD3	2.12	0.49
39:BE:69:LYS:O	39:BE:71:GLY:N	2.45	0.49
56:BX:34:ALA:HA	56:BX:38:GLU:OE2	2.13	0.49
35:BA:614(A):U:O2'	35:BA:614(B):G:H5'	2.12	0.49
24:AY:16:GLY:N	24:AY:101:LEU:HD13	2.27	0.49
5:AE:28:PHE:CD2	5:AE:51:VAL:HG22	2.48	0.49
52:BT:82:LEU:HD23	52:BT:85:LYS:HD2	1.92	0.49
1:CA:1225:A:H3'	1:CA:1226:C:C6	2.47	0.49
13:CM:91:ARG:HH21	19:CS:81:ARG:NH2	2.10	0.49
35:DA:545:C:H2'	35:DA:547:A:C5'	2.32	0.49
35:BA:2470:G:P	49:BQ:56:ARG:NH1	2.82	0.49
35:DA:478:A:C6	35:DA:480:A:C6	3.01	0.49
35:DA:2875:C:O2'	52:DT:5:ALA:HB3	2.12	0.49
42:DH:68:THR:C	42:DH:70:THR:H	2.15	0.49
24:CY:491:VAL:HG21	24:CY:597:GLY:CA	2.42	0.49
24:AY:340:TYR:CE2	24:AY:351:ARG:HD3	2.47	0.49
35:BA:1669:A:H4'	35:BA:2549:G:H4'	1.94	0.49
25:B0:45:PHE:O	25:B0:59:LEU:HD11	2.12	0.49
35:BA:796:C:H2'	35:BA:797:C:H6	1.75	0.49
35:DA:2075:U:C2'	35:DA:2076:U:H5''	2.42	0.49
38:DD:142:VAL:HG23	38:DD:193:VAL:HA	1.95	0.49
37:BC:30:VAL:O	37:BC:33:LEU:N	2.45	0.49
1:AA:308:C:H2'	1:AA:309:G:H8	1.78	0.49
15:CO:50:HIS:O	15:CO:53:HIS:HB3	2.12	0.49
35:BA:876:C:H2'	35:BA:877:U:O4'	2.12	0.49
26:D1:61:ARG:CB	26:D1:61:ARG:HH11	2.23	0.49
22:CV:2:G:H5'	25:D0:8:GLY:HA2	1.95	0.49
42:DH:104:GLU:HA	42:DH:113:VAL:O	2.11	0.49
58:DZ:127:LYS:HB3	58:DZ:127:LYS:NZ	2.26	0.49
4:CD:62:GLN:O	4:CD:66:ARG:HB2	2.12	0.49
1:AA:1133:G:C4	1:AA:1142:G:N2	2.80	0.49
25:D0:20:ARG:HG2	25:D0:20:ARG:HH11	1.77	0.49
1:CA:460:G:O6	1:CA:470:C:H4'	2.11	0.49
35:DA:1368:G:O2'	35:DA:1369:G:H5'	2.13	0.49
27:D2:65:ASN:HD21	35:DA:112:U:H5'	1.76	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AC:140:ARG:HH11	3:AC:140:ARG:HG3	1.76	0.49
3:CC:123:GLN:HB3	3:CC:128:PHE:CD2	2.45	0.49
16:AP:7:ALA:O	16:AP:17:TYR:HA	2.11	0.49
18:CR:87:ARG:NH1	18:CR:87:ARG:CB	2.76	0.49
48:DP:108:LYS:C	48:DP:110:TYR:N	2.65	0.49
1:AA:159:G:C2'	1:AA:160:A:H5''	2.42	0.49
44:BK:41:PHE:C	44:BK:43:ALA:H	2.16	0.49
35:DA:2653:U:O2'	42:DH:110:SER:HB3	2.12	0.49
1:CA:936:C:H2'	1:CA:937:A:O4'	2.12	0.49
44:DK:41:PHE:C	44:DK:43:ALA:H	2.16	0.49
22:CV:59:A:C2'	22:CV:60:U:H5'	2.41	0.49
35:BA:1719:G:C2'	35:BA:1720:U:H5'	2.41	0.49
24:CY:439:ARG:HB2	24:CY:452:SER:CB	2.43	0.49
19:CS:62:ILE:HG13	19:CS:62:ILE:O	2.12	0.49
35:DA:654(O):G:H2'	35:DA:654(P):C:C6	2.48	0.49
35:DA:180:G:N2	35:DA:214:G:O6	2.45	0.49
35:DA:2564:A:OP1	35:DA:2648:C:H4'	2.12	0.49
38:BD:213:ARG:C	38:BD:215:LEU:H	2.16	0.49
35:BA:1248:G:C4	53:BU:3:ARG:HD2	2.47	0.49
38:DD:108:PRO:HG2	38:DD:111:LEU:HB2	1.93	0.49
45:DL:64:UNK:O	45:DL:65:UNK:C	2.59	0.49
15:CO:31:LEU:N	15:CO:31:LEU:CD2	2.76	0.49
1:AA:719:C:O2'	18:AR:49:LYS:HB3	2.12	0.49
35:BA:1536:C:H2'	35:BA:1537:G:H4'	1.94	0.49
1:CA:174:C:H2'	1:CA:175:C:H6	1.77	0.49
35:BA:2653:U:O2'	42:BH:110:SER:HB3	2.12	0.49
35:DA:244:A:H1'	35:DA:255:A:N6	2.28	0.49
21:CU:10:ARG:O	21:CU:13:ILE:N	2.45	0.49
15:AO:33:THR:HG23	15:AO:63:ARG:HH12	1.78	0.49
4:CD:199:ASN:OD1	4:CD:201:GLN:HB2	2.13	0.49
24:CY:630:GLN:NE2	24:CY:646:PHE:HB2	2.28	0.49
40:BF:107:LYS:O	40:BF:108:LYS:C	2.50	0.49
40:BF:179:GLU:C	40:BF:181:LEU:H	2.16	0.49
24:AY:122:TRP:CZ3	24:AY:132:ARG:HD2	2.48	0.49
24:AY:181:LEU:HD23	24:AY:182:ARG:HH12	1.77	0.49
24:AY:18:ALA:O	24:AY:19:ALA:CB	2.59	0.49
24:AY:21:ILE:H	24:AY:21:ILE:CD1	2.20	0.49
24:AY:252:ASP:O	24:AY:253:LEU:HB2	2.12	0.49
22:CW:37:U:H2'	22:CW:38:A:C8	2.47	0.49
41:BG:77:ILE:CG2	41:BG:80:PHE:HB2	2.42	0.49
31:B6:10:LEU:HD23	31:B6:10:LEU:N	2.27	0.49
40:DF:185:ASP:HA	40:DF:188:ARG:HD3	1.94	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
30:D5:40:LYS:HE2	30:D5:46:CYS:CB	2.42	0.49
3:CC:46:GLU:O	3:CC:47:LEU:CB	2.55	0.49
30:B5:40:LYS:HE2	30:B5:46:CYS:CB	2.42	0.49
35:DA:644:A:C2	35:DA:2369:A:H1'	2.47	0.49
35:DA:154(A):C:C5	35:DA:155:U:H1'	2.47	0.49
35:DA:2481:G:O2'	35:DA:2482:G:P	2.70	0.49
40:BF:10:PRO:HG2	40:BF:11:VAL:H	1.77	0.49
40:BF:9:ILE:HG12	40:BF:14:PRO:HA	1.93	0.49
33:D8:62:LEU:N	33:D8:63:PRO:CD	2.76	0.49
35:BA:1858:G:O2'	35:BA:1884:A:N6	2.45	0.49
48:DP:147:LEU:O	48:DP:148:LEU:HB2	2.11	0.49
33:B8:4:MET:CE	33:B8:61:LEU:HD22	2.42	0.49
33:B8:62:LEU:N	33:B8:63:PRO:CD	2.75	0.49
44:BK:120:LEU:HA	44:BK:123:ALA:HB3	1.95	0.49
39:BE:57:LYS:HZ3	39:BE:63:LEU:HG	1.77	0.49
51:DS:89:ARG:CG	51:DS:92:TYR:CA	2.87	0.49
26:B1:76:ARG:HH12	26:B1:95:LEU:CD2	2.15	0.49
26:B1:76:ARG:HH22	26:B1:95:LEU:CB	2.24	0.49
1:AA:392:G:H2'	1:AA:393:A:H8	1.77	0.49
1:AA:392:G:H2'	1:AA:393:A:C8	2.48	0.49
52:BT:91:ARG:O	52:BT:117:ASP:CB	2.61	0.49
1:CA:323:U:H5'	20:CT:23:ARG:HB2	1.95	0.49
38:BD:183:ARG:HD2	38:BD:270:ILE:HG23	1.94	0.49
2:CB:223:ILE:O	2:CB:226:ARG:N	2.45	0.49
29:D4:48:ARG:O	29:D4:48:ARG:HG2	2.11	0.49
52:DT:83:ILE:CG1	52:DT:84:GLN:N	2.74	0.49
1:CA:1399:C:C2	1:CA:1502:A:N6	2.80	0.49
49:BQ:1:MET:HE1	49:BQ:45:GLN:N	2.27	0.49
52:BT:10:VAL:O	52:BT:11:GLU:C	2.51	0.49
35:DA:979:G:H2'	35:DA:982:C:N4	2.28	0.49
42:DH:50:VAL:HG12	42:DH:51:ARG:N	2.26	0.49
42:DH:46:GLU:CD	42:DH:51:ARG:HB2	2.32	0.49
52:BT:106:SER:C	52:BT:107:ASP:OD1	2.51	0.49
42:DH:121:ILE:HA	42:DH:134:SER:O	2.13	0.49
52:DT:102:ILE:HB	52:DT:110:ILE:HD12	1.94	0.49
24:CY:533:VAL:HB	24:CY:570:GLY:O	2.12	0.49
25:D0:12:ASN:O	25:D0:14:ARG:N	2.41	0.49
24:CY:440:VAL:HG12	24:CY:449:THR:CG2	2.42	0.49
38:BD:24:ILE:CG1	38:BD:25:THR:N	2.74	0.49
35:DA:1654:A:C2	39:DE:113:PHE:CD1	3.01	0.49
12:AL:26:ALA:O	12:AL:27:LEU:O	2.31	0.49
37:DC:34:ALA:HA	37:DC:40:GLU:OE2	2.13	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
34:D9:26:ILE:HG22	34:D9:27:CYS:N	2.27	0.49
35:DA:408:G:O2'	35:DA:409:C:H5'	2.12	0.49
24:CY:250:THR:HA	24:CY:255:ILE:HG23	1.95	0.49
1:CA:559:A:P	5:CE:126:ARG:HH22	2.35	0.49
34:B9:27:CYS:SG	34:B9:29:ASN:ND2	2.84	0.49
18:CR:31:LEU:HD23	18:CR:31:LEU:N	2.24	0.49
35:DA:2130:U:OP1	37:DC:6:LYS:HB2	2.13	0.49
35:DA:1996:C:OP1	47:DO:31:LYS:HE2	2.13	0.49
28:B3:38:GLU:HB3	28:B3:43:ILE:HG13	1.93	0.49
57:BY:47:LYS:HG3	57:BY:60:PHE:CE2	2.42	0.49
35:BA:1722:A:H2	35:BA:1740:G:H2'	1.76	0.49
27:B2:13:ALA:C	27:B2:15:LYS:H	2.16	0.49
24:AY:510:VAL:CG1	24:AY:567:LEU:HD13	2.42	0.49
35:BA:1035:U:O5'	42:BH:59:ARG:NH1	2.46	0.49
35:DA:2872:G:C2	35:DA:2873:A:N6	2.81	0.49
42:BH:40:GLU:HG3	42:BH:64:LEU:CD1	2.43	0.49
35:DA:1028:A:H61	35:DA:1125:G:H2'	1.75	0.49
1:CA:619:U:N3	4:CD:134:ASP:OD2	2.39	0.49
42:BH:33:LEU:HD12	42:BH:75:ALA:O	2.13	0.49
35:BA:552:G:O2'	35:BA:553:G:H5'	2.12	0.49
53:BU:70:ARG:NH2	53:BU:75:ASN:HB2	2.27	0.49
24:CY:182:ARG:HG2	24:CY:239:GLU:OE2	2.12	0.49
19:AS:72:GLY:C	19:AS:74:PHE:H	2.14	0.49
35:DA:1750:G:O2'	35:DA:1751:C:H5'	2.13	0.49
42:BH:34:GLU:O	42:BH:36:PRO:HD3	2.11	0.49
35:DA:1132:A:H2'	35:DA:1133:U:H6	1.77	0.49
25:B0:23:VAL:HG11	25:B0:69:PHE:HZ	1.77	0.49
1:AA:678:U:H2'	1:AA:679:C:C6	2.47	0.49
1:AA:1216:G:OP1	14:AN:2:ALA:HA	2.13	0.49
6:AF:29:ALA:O	6:AF:31:GLU:N	2.45	0.49
1:CA:948:C:H2'	1:CA:949:A:H8	1.77	0.49
56:BX:68:ARG:O	56:BX:68:ARG:HD3	2.12	0.49
1:CA:15:G:H4'	5:CE:24:ARG:NH1	2.27	0.49
24:AY:298:VAL:HG13	24:AY:299:VAL:N	2.26	0.49
42:DH:172:LYS:HB3	42:DH:175:LYS:HB3	1.94	0.49
41:BG:35:GLU:O	41:BG:36:LYS:HB3	2.10	0.49
10:AJ:33:GLN:H	10:AJ:75:ILE:HD11	1.77	0.49
4:AD:8:VAL:C	4:AD:10:ARG:N	2.66	0.49
24:AY:168:ILE:HD11	24:AY:178:ILE:CD1	2.43	0.49
48:BP:7:ARG:HG3	48:BP:7:ARG:HH11	1.77	0.49
54:DV:46:VAL:HG13	54:DV:47:VAL:N	2.27	0.49
53:DU:112:ARG:CZ	54:DV:46:VAL:HG21	2.42	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
54:BV:46:VAL:O	54:BV:47:VAL:HG13	2.13	0.49
24:AY:466:LEU:O	24:AY:470:PHE:HB2	2.12	0.49
31:B6:54:ILE:HD13	35:BA:2420:C:C5'	2.41	0.49
40:DF:176:LEU:HD11	40:DF:180:GLY:HA3	1.94	0.49
40:DF:206:ILE:HG22	40:DF:207:GLY:H	1.78	0.49
35:BA:211:A:C3'	35:BA:212:G:H5''	2.41	0.49
35:BA:1081:U:O3'	44:BK:117:THR:HG22	2.13	0.49
3:CC:43:LEU:HD22	3:CC:47:LEU:HD22	1.95	0.49
24:CY:34:TYR:CD2	24:CY:35:TYR:CE2	3.01	0.49
31:B6:24:GLU:OE2	35:BA:2346:A:H8	1.95	0.49
51:BS:89:ARG:HE	51:BS:91:PRO:HG2	1.78	0.49
3:CC:156:ARG:NH2	3:CC:160:ALA:O	2.45	0.49
35:DA:1058:G:H21	44:DK:126:MET:HE1	1.77	0.49
46:DN:132:ALA:O	46:DN:133:GLN:HB2	2.12	0.49
35:BA:585:G:H2'	35:BA:1251:C:H42	1.77	0.49
39:BE:38:THR:O	39:BE:42:ASP:HB2	2.12	0.49
2:CB:101:MET:HG2	2:CB:152:PHE:CE2	2.48	0.49
26:B1:81:LYS:HZ1	35:BA:271(I):G:P	2.34	0.49
26:B1:81:LYS:CE	35:BA:271(H):G:H4'	2.33	0.49
2:CB:221:LEU:O	2:CB:221:LEU:HD13	2.12	0.49
50:DR:97:VAL:O	50:DR:98:LEU:HD23	2.12	0.49
39:DE:55:ASN:C	39:DE:57:LYS:H	2.16	0.49
30:B5:35:GLU:O	30:B5:36:CYS:HB3	2.12	0.49
54:DV:28:GLU:CB	54:DV:31:ALA:HB2	2.36	0.49
2:AB:54:THR:HG21	2:AB:201:ILE:HD11	1.94	0.49
47:BO:69:ILE:HB	47:BO:77:ILE:HG22	1.95	0.49
29:B4:43:TYR:CD2	29:B4:44:THR:HG23	2.47	0.49
35:DA:190:A:H2'	35:DA:191:A:C8	2.47	0.49
41:DG:77:ILE:O	41:DG:78:SER:C	2.49	0.49
58:DZ:130:PRO:CA	58:DZ:133:ILE:HD11	2.38	0.49
57:BY:46:LYS:HB2	57:BY:62:GLU:HB2	1.95	0.49
24:CY:441:SER:C	24:CY:449:THR:HG23	2.33	0.49
58:BZ:79:ARG:O	58:BZ:80:ARG:CB	2.53	0.49
35:DA:598:G:C5'	48:DP:15:ARG:HB2	2.38	0.49
2:CB:15:VAL:H	2:CB:16:HIS:CE1	2.31	0.49
32:D7:41:ARG:NH2	35:DA:460:A:OP1	2.46	0.49
40:BF:156:LEU:HD21	40:BF:163:VAL:HG12	1.95	0.49
39:BE:93:VAL:C	39:BE:95:ILE:H	2.15	0.49
1:CA:1371:G:O3'	9:CI:69:GLY:HA3	2.12	0.49
35:DA:363(F):A:O2'	35:DA:364:C:P	2.70	0.49
44:BK:17:ALA:HB3	44:BK:38:VAL:CG2	2.38	0.49
35:DA:876:C:H2'	35:DA:877:U:O4'	2.13	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1064:G:H21	1:CA:1190:G:H2'	1.77	0.49
3:CC:5:ILE:H	3:CC:5:ILE:CD1	2.26	0.49
30:B5:24:ALA:HB2	35:BA:15:G:OP2	2.12	0.49
36:BB:81:G:H2'	36:BB:82:G:H5'	1.94	0.49
8:CH:63:LEU:N	8:CH:63:LEU:HD22	2.26	0.49
26:D1:56:GLN:HE22	26:D1:87:PRO:CB	2.24	0.49
35:BA:825:C:C2'	35:BA:826:U:H5'	2.43	0.49
24:AY:539:ILE:HD12	24:AY:567:LEU:CD2	2.42	0.49
35:DA:428:A:H3'	35:DA:429:A:C8	2.47	0.49
3:CC:126:ARG:HD2	3:CC:128:PHE:CZ	2.47	0.49
1:CA:344:A:H5''	1:CA:345:C:OP1	2.12	0.49
1:CA:1348:U:H2'	1:CA:1349:A:C8	2.45	0.49
50:BR:18:LEU:HD23	50:BR:19:ALA:N	2.28	0.49
38:DD:11:PRO:C	38:DD:13:ARG:N	2.66	0.49
38:DD:73:VAL:O	38:DD:75:ILE:HG12	2.11	0.49
35:DA:1095:A:H2'	35:DA:1096:A:C8	2.47	0.49
38:DD:213:ARG:C	38:DD:215:LEU:H	2.15	0.49
35:BA:1169:G:N2	35:BA:1181:C:N3	2.61	0.49
15:CO:65:ARG:H	15:CO:65:ARG:HD2	1.77	0.49
35:BA:680:G:H2'	35:BA:681:G:H8	1.77	0.49
35:DA:246:C:C2'	35:DA:247:G:H5'	2.42	0.49
1:AA:297:G:H4'	1:AA:557:G:H4'	1.95	0.49
2:AB:149:LEU:O	2:AB:150:SER:C	2.50	0.49
1:CA:719:C:O2	18:CR:50:ILE:HG12	2.13	0.49
15:CO:31:LEU:HD22	15:CO:31:LEU:N	2.28	0.49
8:CH:35:ILE:HG22	8:CH:39:LEU:HD21	1.95	0.49
39:DE:104:VAL:HG22	39:DE:198:VAL:HG22	1.92	0.49
2:CB:149:LEU:O	2:CB:150:SER:C	2.50	0.49
35:DA:2062:A:O4'	35:DA:2062:A:N3	2.45	0.49
49:DQ:58:PHE:HD1	49:DQ:58:PHE:O	1.96	0.49
1:AA:995:C:O2'	1:AA:996:A:H5'	2.13	0.49
35:BA:1891:G:H2'	35:BA:1892:C:O4'	2.12	0.49
22:CW:43:G:N2	22:CW:44:A:H1'	2.27	0.49
1:CA:78:G:H1	1:CA:91:C:H42	1.59	0.49
31:B6:33:LYS:HG2	31:B6:34:LEU:N	2.28	0.49
41:BG:102:PHE:O	41:BG:104:GLU:N	2.46	0.49
41:BG:29:TRP:C	41:BG:31:VAL:N	2.64	0.49
1:CA:979:C:C3'	1:CA:980:C:C5'	2.78	0.49
24:CY:25:LYS:HG3	62:CY:703:GDP:O1B	2.12	0.49
40:BF:192:LEU:HD23	40:BF:193:VAL:N	2.26	0.49
24:AY:85:PRO:HG3	24:AY:94:VAL:HG13	1.95	0.49
9:CI:26:VAL:CG2	9:CI:61:ALA:HB3	2.40	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:925:C:C3'	35:DA:926:A:H5''	2.42	0.49
58:DZ:61:LEU:HD12	58:DZ:65:GLN:CB	2.42	0.49
31:D6:22:ALA:C	31:D6:23:THR:HG23	2.33	0.49
31:D6:25:LYS:HE2	33:D8:34:TRP:HE1	1.77	0.49
31:D6:54:ILE:HD13	35:DA:2420:C:H5'	1.94	0.49
3:AC:72:LYS:CA	3:AC:72:LYS:HE3	2.43	0.49
47:BO:63:VAL:HG23	47:BO:64:ARG:HG3	1.94	0.49
25:B0:10:THR:HG22	25:B0:11:ARG:N	2.27	0.49
35:DA:2016:U:O2'	35:DA:2017:U:H5'	2.13	0.49
37:DC:128:LEU:CD1	37:DC:132:LEU:HG	2.41	0.49
31:B6:17:LYS:HB2	31:B6:44:ARG:NH1	2.27	0.49
35:DA:1081:U:O3'	44:DK:117:THR:HG22	2.12	0.49
35:BA:142(A):C:O2'	35:BA:1597:A:H5''	2.13	0.49
12:CL:17:LYS:HD3	12:CL:18:VAL:N	2.28	0.49
27:B2:7:ARG:HG3	27:B2:7:ARG:NH1	2.27	0.49
44:DK:77:LEU:CD2	44:DK:77:LEU:H	2.08	0.49
26:B1:86:SER:HA	26:B1:89:GLU:CD	2.33	0.49
35:DA:2308:G:N7	35:DA:2310:A:C5'	2.69	0.49
1:AA:686:U:O2'	1:AA:687:A:H8	1.79	0.49
49:DQ:2:LEU:HG	49:DQ:69:PHE:CE1	2.48	0.49
12:CL:70:ILE:HG21	12:CL:77:LEU:HD12	1.95	0.49
10:CJ:55:LYS:N	10:CJ:55:LYS:HE3	2.26	0.49
41:DG:107:LEU:HD21	41:DG:178:PHE:CE1	2.48	0.49
49:BQ:3:MET:HG3	49:BQ:4:PRO:O	2.12	0.49
13:AM:91:ARG:HH21	19:AS:81:ARG:NH2	2.10	0.49
2:AB:17:PHE:CD2	2:AB:18:GLY:N	2.81	0.49
1:CA:738:C:H2'	1:CA:739:C:H6	1.78	0.49
26:B1:4:VAL:HG21	26:B1:11:ARG:NH1	2.27	0.49
35:DA:1678:G:N2	35:DA:1989:G:N2	2.53	0.49
18:AR:59:SER:N	18:AR:62:GLU:HB2	2.24	0.49
39:BE:176:ILE:CG2	39:BE:178:GLU:HB3	2.37	0.49
52:BT:102:ILE:O	52:BT:106:SER:HB3	2.12	0.49
39:DE:14:ILE:HG13	39:DE:21:VAL:CG2	2.43	0.49
27:B2:50:ILE:C	27:B2:52:ASP:N	2.65	0.49
35:BA:1654:A:OP2	50:BR:3:HIS:HB2	2.12	0.49
35:DA:1188:U:C2'	35:DA:1189:A:H5'	2.43	0.49
9:CI:10:ARG:CZ	9:CI:105:ASP:OD2	2.61	0.49
1:AA:560:U:H4'	1:AA:561:U:H5''	1.94	0.49
1:AA:1271:G:H2'	1:AA:1272:G:H8	1.77	0.49
36:DB:95:C:O2'	36:DB:96:U:H5'	2.12	0.49
1:AA:190:U:O2'	1:AA:191:G:H5'	2.12	0.49
35:DA:884:C:N4	35:DA:886:C:H42	2.11	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:884:C:N4	35:BA:886:C:H42	2.10	0.49
35:BA:991:C:C6	35:BA:991:C:H5'	2.40	0.49
26:D1:63:ALA:O	26:D1:67:ILE:HG13	2.13	0.49
53:DU:26:GLY:C	53:DU:28:ARG:N	2.66	0.49
1:AA:1281:U:H5'	1:AA:1282:C:OP2	2.13	0.49
35:BA:848:G:C4	35:BA:933:A:H8	2.31	0.49
15:AO:9:GLN:O	15:AO:10:LYS:C	2.51	0.49
35:DA:112:U:H2'	35:DA:113:G:H5'	1.95	0.49
1:CA:489:C:H2'	1:CA:490:G:C8	2.48	0.49
1:CA:490:G:H2'	1:CA:491:G:C8	2.42	0.49
16:CP:67:THR:N	16:CP:70:ALA:HB3	2.28	0.49
12:AL:115:LYS:O	12:AL:117:ARG:HG3	2.13	0.49
13:AM:56:LEU:HD13	13:AM:60:VAL:HG23	1.94	0.49
44:BK:39:LYS:O	44:BK:43:ALA:HB2	2.13	0.49
1:CA:1376:U:H2'	1:CA:1377:A:C8	2.47	0.49
41:DG:19:LEU:HD11	41:DG:172:LEU:HD12	1.95	0.49
35:DA:1064:C:H42	35:DA:1074:G:H1	1.60	0.49
6:AF:62:TRP:CD1	18:AR:35:ARG:NH1	2.81	0.49
1:CA:946:A:H3'	1:CA:947:G:H8	1.77	0.49
38:BD:224:ALA:O	38:BD:225:ALA:HB2	2.13	0.49
1:CA:995:C:O2'	1:CA:996:A:H5'	2.12	0.49
5:CE:150:ARG:HB2	5:CE:150:ARG:NH1	2.28	0.49
19:AS:79:THR:HG22	19:AS:80:TYR:N	2.27	0.49
36:DB:53:A:H2'	36:DB:53:A:N3	2.27	0.49
38:BD:99:ASP:OD2	38:BD:99:ASP:C	2.51	0.49
56:DX:68:ARG:HD3	56:DX:68:ARG:O	2.13	0.49
58:DZ:103:ARG:HD2	58:DZ:136:PHE:CE1	2.48	0.49
1:CA:502:G:OP1	12:CL:118:SER:HB3	2.12	0.49
41:BG:31:VAL:HG23	41:BG:32:PRO:HD2	1.95	0.49
41:BG:55:LYS:C	41:BG:57:ALA:N	2.66	0.49
24:AY:122:TRP:O	24:AY:125:ALA:N	2.29	0.49
24:AY:84:THR:O	24:AY:85:PRO:O	2.30	0.49
35:BA:2156:G:H2'	35:BA:2157:G:O4'	2.13	0.49
58:BZ:89:PHE:CE1	58:BZ:96:VAL:HG21	2.47	0.49
58:BZ:120:ILE:O	58:BZ:120:ILE:CG2	2.60	0.49
1:CA:1300:G:HO2'	1:CA:1301:U:P	2.36	0.49
31:B6:42:TRP:HA	31:B6:42:TRP:HE3	1.77	0.49
26:D1:76:ARG:HH22	26:D1:95:LEU:HB2	1.77	0.49
24:AY:451:ILE:HG23	24:AY:459:LEU:HD23	1.95	0.49
30:D5:55:ARG:NH1	50:DR:33:ARG:CD	2.76	0.49
2:AB:121:LEU:HD21	2:AB:126:GLU:OE2	2.13	0.49
39:DE:89:ASP:O	39:DE:90:THR:O	2.30	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1141:U:OP2	46:BN:63:THR:OG1	2.24	0.49
35:DA:2317:C:O2'	35:DA:2318:G:H5'	2.11	0.49
1:CA:324:G:N2	1:CA:326:G:H3'	2.27	0.49
1:AA:1226:C:H5''	13:AM:103:THR:OG1	2.13	0.49
2:CB:223:ILE:O	2:CB:225:ALA:N	2.45	0.49
57:DY:46:LYS:HB2	57:DY:62:GLU:HB2	1.94	0.49
42:BH:46:GLU:HG3	42:BH:51:ARG:H	1.78	0.49
46:DN:96:GLU:O	46:DN:100:GLU:HG3	2.13	0.49
58:BZ:115:GLY:HA2	58:BZ:177:PRO:CD	2.43	0.49
24:CY:513:LYS:CB	24:CY:566:THR:HB	2.43	0.49
35:DA:1528:A:O2'	35:DA:1528(A):A:O5'	2.30	0.49
10:CJ:63:PHE:CD2	10:CJ:63:PHE:N	2.81	0.49
1:CA:184:G:O2'	1:CA:185:A:H5'	2.13	0.49
3:AC:151:VAL:HG12	3:AC:152:ILE:N	2.26	0.49
22:CV:36:U:H1'	24:CY:503:GLY:H	1.78	0.49
24:AY:232:LEU:HD22	24:AY:232:LEU:N	2.26	0.49
24:AY:406:GLU:CB	24:AY:407:PRO:HD2	2.42	0.49
12:CL:47:LYS:CB	12:CL:48:PRO:CD	2.89	0.49
7:AG:116:ALA:O	7:AG:120:ILE:HG12	2.12	0.49
52:DT:62:THR:HA	52:DT:74:ARG:O	2.13	0.49
1:AA:1104:G:P	2:AB:111:ARG:HD2	2.53	0.49
5:AE:144:THR:O	5:AE:146:ALA:N	2.45	0.49
1:AA:344:A:H5''	1:AA:345:C:OP1	2.13	0.49
35:BA:657:U:H2'	35:BA:658:C:H6	1.74	0.49
23:AX:11:U:O2	23:AX:11:U:C2'	2.60	0.49
35:BA:1344:G:H1	35:BA:1403:C:H42	1.60	0.49
35:BA:52:A:C2'	35:BA:53:A:H5'	2.43	0.49
35:DA:1168:G:H2'	35:DA:1169:G:O4'	2.13	0.49
35:BA:1168:G:H2'	35:BA:1169:G:H8	1.74	0.49
35:DA:2116:G:N7	35:DA:2117:A:C5	2.81	0.49
1:AA:1258:G:C6	1:AA:1259:C:N4	2.81	0.49
1:CA:64:G:N2	1:CA:67:C:C4	2.81	0.49
1:CA:46:G:O2'	1:CA:365:U:H1'	2.13	0.49
35:BA:1692:U:H2'	35:BA:1694:C:C4	2.48	0.49
35:BA:2860:A:C2'	35:BA:2861:G:H5'	2.43	0.49
17:AQ:94:ASN:O	17:AQ:95:TYR:C	2.49	0.49
58:BZ:9:TYR:HB3	58:BZ:35:ARG:NH2	2.27	0.49
2:CB:148:TYR:O	2:CB:149:LEU:HD23	2.12	0.49
46:BN:115:ARG:HA	46:BN:118:LYS:HE2	1.94	0.49
35:BA:250:G:H2'	35:BA:251:A:C8	2.47	0.49
20:CT:96:GLY:O	20:CT:97:ALA:O	2.31	0.49
1:AA:1468:A:H2'	1:AA:1469:G:O4'	2.12	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1065:U:C2'	1:AA:1066:C:OP2	2.61	0.49
31:D6:33:LYS:HG2	31:D6:34:LEU:N	2.28	0.49
35:DA:2192:G:C3'	35:DA:2193:G:H5''	2.42	0.49
1:AA:529:G:O6	12:AL:49:ASN:HA	2.13	0.49
35:DA:2845:G:O2'	35:DA:2846:G:H5'	2.13	0.49
58:DZ:54:HIS:HE1	58:DZ:123:ASP:OD2	1.96	0.49
1:CA:1447:A:H2'	1:CA:1447:A:N3	2.26	0.49
1:AA:170:U:O2'	1:AA:171:A:H5'	2.13	0.49
35:DA:685:A:C5	35:DA:774:A:C2	3.00	0.49
41:BG:103:LEU:HA	41:BG:106:LEU:HB3	1.94	0.49
35:DA:2012:G:C4'	55:DW:96:ILE:HD11	2.18	0.49
4:CD:31:CYS:O	4:CD:32:ALA:CB	2.60	0.49
24:CY:670:VAL:O	24:CY:671:MET:HB3	2.12	0.49
24:CY:456:GLU:O	24:CY:460:GLU:HB2	2.12	0.49
24:CY:92:ILE:HG21	24:CY:454:MET:HE1	1.95	0.49
24:AY:230:LYS:HB2	24:AY:230:LYS:NZ	2.28	0.49
53:DU:55:ARG:HA	53:DU:58:ARG:HB2	1.95	0.49
53:DU:59:ARG:O	53:DU:62:ILE:N	2.42	0.49
54:DV:38:LEU:C	54:DV:39:LEU:HD13	2.33	0.49
35:BA:1568:G:P	38:BD:63:ARG:HH22	2.34	0.49
40:DF:107:LYS:O	40:DF:108:LYS:C	2.51	0.49
33:D8:21:LYS:HD3	33:D8:48:PHE:CE2	2.48	0.49
24:CY:272:LEU:HD12	24:CY:275:ALA:HB3	1.95	0.49
37:DC:138:LEU:HD13	37:DC:138:LEU:C	2.33	0.49
24:CY:34:TYR:CD2	24:CY:35:TYR:HE2	2.30	0.49
8:CH:104:ARG:O	8:CH:105:ARG:C	2.51	0.49
46:DN:133:GLN:O	46:DN:134:ARG:HB3	2.13	0.49
12:AL:70:ILE:HD12	12:AL:75:HIS:NE2	2.27	0.49
44:DK:93:ARG:CG	58:DZ:112:ARG:HE	2.26	0.49
1:AA:1402:C:O2	1:AA:1500:A:N1	2.46	0.49
48:BP:85:LEU:HD12	48:BP:120:ALA:CB	2.32	0.49
36:BB:8:U:H5'	36:BB:8:U:H6	1.78	0.49
35:BA:2305:A:O2'	41:BG:136:ARG:HG2	2.13	0.49
1:AA:265:G:O2'	1:AA:266:G:H5'	2.13	0.49
2:AB:101:MET:HG2	2:AB:152:PHE:CE2	2.48	0.49
35:DA:2892:A:H62	35:DA:2893:G:H21	1.59	0.49
39:DE:69:LYS:O	39:DE:71:GLY:N	2.45	0.49
35:BA:1019:U:H3	35:BA:1142(A):A:N6	2.11	0.49
35:DA:2320:A:C2	35:DA:2333:A:C8	3.01	0.49
1:AA:1442:G:H2'	52:BT:118:ARG:HH12	1.77	0.49
24:AY:289:ILE:O	24:AY:301:ILE:HG12	2.13	0.49
19:CS:31:ILE:O	19:CS:31:ILE:HG23	2.12	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1226:C:H5''	13:CM:103:THR:HB	1.94	0.49
36:DB:86:G:C6	36:DB:92:C:N3	2.81	0.49
57:BY:29:GLU:N	57:BY:29:GLU:OE1	2.46	0.49
6:CF:33:TYR:O	6:CF:34:GLY:C	2.51	0.49
18:CR:53:ARG:C	18:CR:55:ARG:N	2.66	0.49
57:DY:46:LYS:H	57:DY:62:GLU:CB	2.19	0.49
15:AO:17:ARG:NH1	15:AO:77:ARG:CZ	2.76	0.49
42:BH:17:VAL:HB	42:BH:45:VAL:HG13	1.93	0.49
58:DZ:128:VAL:CG2	58:DZ:129:SER:H	2.23	0.49
35:BA:979:G:H2'	35:BA:982:C:N4	2.27	0.49
52:DT:50:ILE:CG1	52:DT:102:ILE:HD11	2.42	0.49
35:BA:2019:A:O3'	53:BU:27:LEU:HD12	2.12	0.49
24:CY:102:ASP:O	24:CY:130:VAL:HG22	2.12	0.49
12:AL:46:LYS:HZ2	12:AL:94:PRO:HG3	1.78	0.49
3:CC:173:VAL:O	3:CC:175:LEU:HD12	2.12	0.49
23:AX:16:A:H2'	23:AX:17:U:H6	1.78	0.49
1:CA:190:U:O2'	1:CA:191:G:H5'	2.13	0.49
1:CA:624:C:H2'	1:CA:625:G:C8	2.48	0.49
44:BK:17:ALA:HB1	44:BK:38:VAL:HG22	1.91	0.49
35:DA:2020:A:C6	35:DA:2022:U:N3	2.81	0.49
18:AR:32:ARG:HA	18:AR:69:THR:HG21	1.95	0.49
35:DA:2223:G:C2'	35:DA:2224:G:H5'	2.43	0.49
34:B9:26:ILE:HG22	34:B9:27:CYS:N	2.27	0.49
35:BA:272(D):G:H1	35:BA:364:C:H42	1.61	0.49
55:BW:82:LEU:N	55:BW:82:LEU:CD1	2.76	0.49
1:CA:218:C:H5'	1:CA:470:C:H41	1.78	0.49
38:DD:14:ARG:HG3	38:DD:15:PHE:N	2.28	0.49
10:AJ:22:LYS:O	10:AJ:22:LYS:HD2	2.12	0.49
27:B2:20:GLU:O	27:B2:21:LEU:C	2.51	0.49
24:CY:326:THR:OG1	24:CY:377:VAL:HG22	2.13	0.49
26:D1:30:VAL:CG2	26:D1:31:GLY:H	2.24	0.49
35:BA:825:C:H2'	35:BA:826:U:O4'	2.13	0.49
24:AY:507:TYR:CD1	24:AY:507:TYR:C	2.86	0.49
14:AN:12:ARG:O	14:AN:14:PRO:CD	2.61	0.49
14:AN:15:LYS:O	14:AN:16:PHE:C	2.50	0.49
1:AA:1158:C:N3	1:AA:1181:G:N2	2.56	0.49
23:AX:11:U:H4'	23:AX:12:A:O5'	2.11	0.49
57:DY:49:VAL:O	57:DY:51:VAL:HG23	2.12	0.49
27:B2:57:ILE:HG22	27:B2:61:LEU:HD12	1.94	0.49
35:BA:1499:C:O2'	35:BA:1500:G:H5'	2.13	0.49
18:AR:40:LEU:C	18:AR:42:ARG:H	2.15	0.49
20:AT:33:ILE:CD1	20:AT:63:ILE:HA	2.43	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:29:U:O2'	35:DA:30:G:H5'	2.12	0.49
30:D5:24:ALA:HB2	35:DA:15:G:OP2	2.12	0.49
38:DD:200:ASP:O	38:DD:201:HIS:C	2.51	0.49
8:AH:86:ILE:HG13	8:AH:133:LEU:HD22	1.93	0.49
35:BA:1169:G:C2	35:BA:1181:C:N3	2.81	0.49
1:CA:409:G:H1	1:CA:433:C:H42	1.61	0.49
10:AJ:94:VAL:CG1	10:AJ:95:GLU:N	2.76	0.49
1:AA:142:G:H1	1:AA:221:C:H42	1.61	0.49
2:AB:178:ARG:CG	2:AB:178:ARG:HH11	2.26	0.49
35:BA:1461:G:H2'	35:BA:1462:C:H6	1.77	0.49
26:B1:29:GLY:O	26:B1:31:GLY:N	2.46	0.49
25:B0:78:TYR:N	25:B0:78:TYR:CD1	2.78	0.49
35:DA:324:A:OP2	35:DA:1205:U:N3	2.46	0.49
7:AG:78:ARG:HE	7:AG:156:TRP:HB3	1.78	0.49
1:AA:1360:A:H2'	1:AA:1361:G:O4'	2.12	0.49
35:DA:325:G:H2'	35:DA:326:G:H8	1.78	0.49
21:AU:9:ARG:HH11	21:AU:22:ARG:HG3	1.78	0.49
1:CA:1216:G:H2'	1:CA:1217:C:C6	2.48	0.49
16:AP:23:ASP:OD1	16:AP:24:ALA:N	2.45	0.49
2:CB:109:SER:O	2:CB:112:VAL:HB	2.13	0.49
1:CA:858:G:O2'	1:CA:859:A:H5''	2.13	0.49
22:CW:18:U:H2'	22:CW:18:U:O2	2.13	0.49
24:AY:292:THR:HG23	24:AY:297:GLU:H	1.77	0.49
29:B4:2:LYS:HG2	36:BB:44:G:P	2.52	0.49
41:BG:56:ALA:CB	41:BG:153:ARG:NH2	2.76	0.49
4:AD:31:CYS:O	4:AD:32:ALA:CB	2.60	0.49
35:BA:1326:U:H5''	35:BA:2011:U:H1'	1.93	0.49
53:BU:112:ARG:CZ	54:BV:46:VAL:HG21	2.43	0.49
9:AI:59:PHE:CD1	9:AI:59:PHE:N	2.81	0.49
24:AY:413:ILE:O	24:AY:413:ILE:HG23	2.13	0.49
25:D0:10:THR:HG22	25:D0:11:ARG:N	2.28	0.49
35:BA:194:G:H2'	35:BA:195:A:O4'	2.11	0.49
35:BA:2415:G:H4'	48:BP:66:GLY:C	2.33	0.49
35:BA:272(I):U:O2	35:BA:272(I):U:C3'	2.59	0.49
41:DG:40:ASN:O	41:DG:156:ASP:N	2.40	0.49
41:DG:46:ALA:O	41:DG:47:LYS:O	2.31	0.49
19:AS:35:SER:C	19:AS:37:ARG:N	2.66	0.49
50:DR:63:ARG:HA	50:DR:80:PHE:CZ	2.48	0.49
24:CY:146:LEU:HD12	24:CY:167:PRO:HD3	1.95	0.49
3:CC:61:ALA:O	3:CC:62:ASP:HB2	2.12	0.49
46:DN:133:GLN:CG	46:DN:134:ARG:N	2.75	0.49
58:DZ:109:ALA:C	58:DZ:111:VAL:N	2.66	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
28:D3:31:LEU:HD22	28:D3:32:GLN:H	1.77	0.49
27:D2:16:LEU:O	27:D2:20:GLU:HB3	2.13	0.49
35:DA:2453:A:OP1	35:DA:2573:C:H5	1.96	0.49
35:DA:961:C:N4	35:DA:2031:A:H1'	2.27	0.49
48:BP:107:LYS:O	48:BP:109:GLY:N	2.45	0.49
30:D5:55:ARG:O	30:D5:56:LYS:CB	2.52	0.49
1:AA:253:U:H2'	1:AA:254:G:H8	1.77	0.49
35:DA:2747:G:O2'	42:DH:67:LEU:HD12	2.13	0.49
35:BA:821:A:O2'	35:BA:945:A:H3'	2.13	0.49
39:BE:51:PHE:N	39:BE:74:PRO:HG3	2.28	0.49
46:BN:58:ASP:C	46:BN:60:ILE:N	2.60	0.49
51:DS:89:ARG:HG3	51:DS:92:TYR:HB3	1.95	0.49
1:AA:1225:A:H3'	1:AA:1226:C:C6	2.48	0.49
5:AE:51:VAL:HB	5:AE:52:PRO:CD	2.41	0.49
52:DT:82:LEU:CD2	52:DT:85:LYS:HD2	2.43	0.49
1:CA:1511:G:O2'	1:CA:1512:U:H5'	2.13	0.49
24:CY:513:LYS:HB2	24:CY:566:THR:HB	1.95	0.49
24:CY:529:ILE:HD11	24:CY:534:ILE:HD12	1.95	0.49
35:BA:478:A:C6	35:BA:480:A:C6	3.00	0.49
27:D2:53:LEU:O	27:D2:57:ILE:HG12	2.11	0.49
25:B0:47:PRO:HB3	25:B0:51:VAL:O	2.12	0.49
58:BZ:109:ALA:HB1	58:BZ:145:GLU:OE2	2.13	0.49
1:AA:1277:C:H3'	1:AA:1277:C:H6	1.77	0.49
2:AB:15:VAL:H	2:AB:16:HIS:CE1	2.31	0.49
35:DA:2804:C:H2'	35:DA:2805:G:H8	1.69	0.49
35:BA:408:G:O2'	35:BA:409:C:H5'	2.13	0.49
35:BA:345:A:O2'	35:BA:346:A:N7	2.46	0.49
1:AA:1301:U:H3'	1:AA:1302:U:H5''	1.94	0.49
24:CY:105:ILE:N	24:CY:105:ILE:HD12	2.28	0.49
32:D7:28:ARG:NH1	32:D7:28:ARG:HG3	2.28	0.49
50:BR:12:ARG:HB3	50:BR:16:HIS:HD2	1.78	0.49
37:BC:23:ILE:CB	37:BC:229:SER:OXT	2.60	0.49
35:DA:756:C:C2'	35:DA:757:U:H5'	2.43	0.49
24:AY:679:VAL:HG23	24:AY:684:GLN:NE2	2.28	0.49
35:DA:48:G:N2	35:DA:177:G:N2	2.61	0.49
35:BA:958:U:H5'	49:BQ:14:ARG:NH1	2.27	0.49
24:AY:519:ARG:HH21	24:AY:677:GLN:HB2	1.78	0.49
35:BA:1582:C:H2'	35:BA:1583:A:C8	2.43	0.49
35:DA:90:U:H3'	35:DA:90:U:O2	2.13	0.49
1:CA:60:A:C5'	1:CA:331:G:H22	2.23	0.49
35:DA:76:C:O2'	35:DA:77:C:H5'	2.13	0.49
37:BC:115:VAL:HG12	37:BC:145:THR:CG2	2.40	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:DN:18:ALA:O	46:DN:21:LYS:HB2	2.12	0.49
1:CA:1346:A:N6	1:CA:1375:A:OP2	2.40	0.49
3:AC:10:PHE:CE1	3:AC:178:LEU:HD11	2.48	0.49
35:BA:729:G:OP2	38:BD:13:ARG:NH1	2.46	0.49
35:DA:1035:U:H2'	35:DA:1036:G:C8	2.47	0.49
40:DF:42:ALA:O	40:DF:45:ARG:HG3	2.12	0.49
35:BA:1441:G:O2'	35:BA:1442:G:H5'	2.13	0.49
51:BS:40:ILE:CG2	51:BS:41:ASP:N	2.76	0.49
35:BA:29:U:O2'	35:BA:30:G:H5'	2.13	0.49
35:DA:537:C:H2'	35:DA:538:G:C8	2.48	0.49
35:DA:618:C:H2'	35:DA:619:G:O4'	2.13	0.49
38:DD:81:ALA:HA	38:DD:113:VAL:CG2	2.43	0.49
35:BA:1462:C:H4'	35:BA:2703:C:H5'	1.94	0.49
6:CF:22:GLU:HA	6:CF:22:GLU:OE2	2.12	0.49
35:BA:1040:C:H2'	35:BA:1041:C:C6	2.47	0.49
8:CH:31:PHE:O	8:CH:34:GLU:HB2	2.13	0.49
1:CA:1497:G:O2'	1:CA:1498:U:H5'	2.13	0.49
36:DB:74:U:H2'	36:DB:75:G:H5'	1.95	0.49
1:AA:63:C:O2'	1:AA:380:G:H4'	2.13	0.49
7:AG:134:ALA:O	7:AG:137:LYS:N	2.42	0.49
35:DA:938:G:H2'	35:DA:939:G:H8	1.77	0.49
35:DA:718:A:H2'	35:DA:719:C:O4'	2.13	0.49
1:AA:318:G:H2'	1:AA:319:G:H8	1.77	0.49
39:DE:152:LYS:HG3	39:DE:153:GLY:N	2.27	0.49
5:AE:68:GLU:O	5:AE:68:GLU:HG3	2.13	0.49
24:CY:451:ILE:O	24:CY:451:ILE:HG23	2.13	0.49
28:B3:2:PRO:O	28:B3:3:ARG:O	2.31	0.49
58:DZ:96:VAL:O	58:DZ:96:VAL:HG13	2.11	0.49
14:CN:25:VAL:HG23	14:CN:38:GLY:O	2.12	0.49
35:DA:777:A:H2'	35:DA:778:G:C8	2.48	0.49
41:BG:110:ALA:HA	41:BG:140:ILE:O	2.13	0.48
41:BG:97:ASP:O	41:BG:101:ILE:N	2.42	0.48
1:AA:509:A:H2	1:AA:543:C:H1'	1.78	0.48
35:DA:1047:G:O2'	35:DA:1110:G:N2	2.45	0.48
24:AY:139:MET:CE	24:AY:167:PRO:HG3	2.42	0.48
31:B6:27:LYS:CD	31:B6:30:THR:HB	2.43	0.48
48:BP:64:LYS:O	48:BP:64:LYS:HD3	2.13	0.48
57:BY:31:LEU:HD22	57:BY:31:LEU:H	1.77	0.48
1:CA:1296:C:O2'	1:CA:1302:U:C5	2.60	0.48
41:BG:165:THR:O	41:BG:166:ASP:C	2.50	0.48
24:CY:35:TYR:O	24:CY:36:THR:C	2.50	0.48
31:B6:47:THR:OG1	31:B6:48:VAL:N	2.46	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
51:BS:33:LYS:HG2	51:BS:34:HIS:CD2	2.48	0.48
48:BP:16:ARG:CZ	48:BP:18:ARG:HB2	2.43	0.48
48:DP:95:VAL:CG2	48:DP:125:VAL:HG23	2.42	0.48
48:DP:112:LEU:H	48:DP:128:HIS:HD2	1.58	0.48
35:BA:2230:G:H2'	35:BA:2231:C:C6	2.48	0.48
1:CA:973:G:O4'	10:CJ:55:LYS:HE2	2.13	0.48
39:BE:36:ARG:HH21	39:BE:88:GLY:HA2	1.77	0.48
29:D4:22:ILE:CG2	29:D4:23:GLU:N	2.76	0.48
30:B5:55:ARG:NH1	50:BR:33:ARG:CD	2.75	0.48
13:AM:79:LYS:HA	13:AM:82:MET:HG3	1.95	0.48
19:CS:19:VAL:HG12	19:CS:20:LEU:HG	1.95	0.48
1:CA:965:A:C2	1:CA:969:A:C2	3.01	0.48
30:D5:35:GLU:O	30:D5:36:CYS:CB	2.60	0.48
29:B4:22:ILE:CG2	29:B4:23:GLU:N	2.76	0.48
27:B2:48:HIS:HD1	35:BA:95:G:HO2'	1.58	0.48
9:AI:83:ARG:O	9:AI:86:VAL:HG12	2.13	0.48
35:BA:409:C:O2'	35:BA:410:G:H5'	2.13	0.48
24:AY:341:VAL:HG23	24:AY:350:GLU:HB2	1.95	0.48
35:DA:1558:A:O2'	35:DA:1559:G:OP2	2.30	0.48
24:CY:122:TRP:HH2	24:CY:256:THR:OG1	1.96	0.48
35:DA:2656:U:N3	35:DA:2665:A:H2	2.11	0.48
30:B5:27:PRO:CD	55:BW:23:LEU:HD11	2.43	0.48
35:DA:1175:U:H4'	35:DA:1176:G:H5'	1.95	0.48
35:BA:910:A:C6	49:BQ:13:GLN:HG3	2.48	0.48
10:AJ:22:LYS:NZ	10:AJ:88:LEU:HD23	2.29	0.48
49:BQ:11:LYS:NZ	49:BQ:88:GLY:O	2.40	0.48
1:CA:986:A:H2'	1:CA:987:G:H8	1.78	0.48
52:BT:62:THR:HA	52:BT:74:ARG:O	2.13	0.48
10:CJ:42:THR:HG23	10:CJ:67:THR:O	2.12	0.48
35:DA:2794:C:H42	35:DA:2801(A):A:N6	2.11	0.48
49:BQ:134:ARG:HG3	49:BQ:134:ARG:HH11	1.78	0.48
30:D5:19:ARG:HD2	35:DA:1266:G:OP1	2.13	0.48
43:DJ:18:UNK:O	43:DJ:88:UNK:CB	2.61	0.48
35:BA:2348:U:H2'	35:BA:2349:G:H5'	1.95	0.48
8:AH:85:ARG:HG3	8:AH:85:ARG:HH11	1.77	0.48
35:BA:1353:A:H4'	38:BD:38:LYS:HE3	1.95	0.48
24:CY:192:LEU:HD12	24:CY:194:THR:HG23	1.94	0.48
8:AH:32:LYS:O	8:AH:34:GLU:N	2.46	0.48
41:DG:126:ASP:CB	41:DG:130:ASN:HB2	2.42	0.48
1:AA:908:A:H2'	1:AA:909:A:C8	2.48	0.48
47:BO:98:VAL:CG2	47:BO:118:ALA:HA	2.43	0.48
24:CY:423:LYS:NZ	24:CY:470:PHE:O	2.38	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AD:170:VAL:O	4:AD:171:GLY:O	2.31	0.48
1:AA:238:G:C6	1:AA:239:U:C4	3.00	0.48
8:AH:30:ARG:CB	8:AH:30:ARG:HH11	2.26	0.48
35:BA:2367:G:H2'	35:BA:2368:C:H6	1.77	0.48
1:AA:532:A:H61	3:AC:193:TYR:HB3	1.78	0.48
22:CV:57:A:H2'	22:CV:58:A:H5'	1.95	0.48
39:BE:203:LYS:HG3	39:BE:204:ALA:N	2.27	0.48
42:BH:171:LEU:HD23	42:BH:172:LYS:N	2.28	0.48
10:AJ:27:ALA:CB	10:AJ:85:LEU:HD11	2.43	0.48
1:CA:542:G:H5'	4:CD:41:GLY:HA2	1.95	0.48
1:AA:409:G:H1	1:AA:433:C:H42	1.60	0.48
10:CJ:4:ILE:CD1	10:CJ:74:ILE:HG13	2.39	0.48
22:CW:36:A:O2'	22:CW:37:U:H5'	2.14	0.48
58:DZ:165:VAL:HG12	58:DZ:166:SER:N	2.29	0.48
40:DF:199:TRP:O	40:DF:202:PHE:HB3	2.13	0.48
31:D6:6:ARG:O	31:D6:7:ILE:CB	2.61	0.48
19:CS:51:VAL:HG22	19:CS:71:LEU:HD13	1.94	0.48
30:B5:2:ALA:CA	35:BA:2015:A:C1'	2.86	0.48
35:BA:2053:G:H1	35:BA:2616:C:H42	1.60	0.48
1:CA:1298:C:H5''	7:CG:114:ARG:NH2	2.28	0.48
24:CY:9:LEU:CD2	24:CY:284:LEU:HB2	2.43	0.48
3:CC:59:ARG:HG2	3:CC:64:VAL:HA	1.95	0.48
1:CA:6:G:H2'	5:CE:119:LEU:CD1	2.44	0.48
46:DN:132:ALA:O	46:DN:133:GLN:CB	2.61	0.48
27:D2:16:LEU:O	27:D2:20:GLU:CB	2.61	0.48
36:DB:8:U:H5'	36:DB:8:U:H6	1.78	0.48
48:DP:107:LYS:C	48:DP:109:GLY:N	2.66	0.48
48:DP:146:VAL:HG13	48:DP:147:LEU:N	2.27	0.48
30:D5:55:ARG:NH1	50:DR:33:ARG:HD2	2.28	0.48
19:AS:42:PRO:C	19:AS:43:GLU:HG3	2.33	0.48
39:DE:87:GLU:O	39:DE:89:ASP:N	2.46	0.48
39:DE:36:ARG:NH2	39:DE:88:GLY:CA	2.75	0.48
35:DA:2293:C:OP1	51:DS:92:TYR:OH	2.31	0.48
51:DS:35:ILE:CD1	51:DS:99:LYS:HE3	2.42	0.48
52:DT:91:ARG:O	52:DT:117:ASP:CB	2.61	0.48
20:AT:26:ASN:ND2	20:AT:26:ASN:N	2.61	0.48
19:CS:41:VAL:C	19:CS:43:GLU:N	2.66	0.48
35:BA:2470:G:C6	35:BA:2471:C:C5	3.01	0.48
52:BT:6:LEU:O	52:BT:7:ILE:C	2.51	0.48
42:DH:17:VAL:O	42:DH:45:VAL:CG2	2.60	0.48
38:DD:267:SER:C	38:DD:269:PHE:H	2.17	0.48
46:BN:67:LEU:HB3	46:BN:88:GLU:HG2	1.93	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:DH:146:ALA:O	42:DH:149:ARG:N	2.46	0.48
1:CA:814:A:H5'	1:CA:1511:G:H4'	1.95	0.48
40:DF:62:ARG:NH2	40:DF:64:ILE:HA	2.28	0.48
13:CM:45:VAL:HA	13:CM:48:LEU:CD1	2.44	0.48
38:BD:4:LYS:NZ	38:BD:21:PHE:H	2.11	0.48
24:CY:231:TYR:HE2	45:DL:87:UNK:CB	2.26	0.48
4:AD:96:LEU:N	4:AD:96:LEU:HD22	2.23	0.48
42:BH:156:ALA:C	42:BH:158:HIS:H	2.16	0.48
16:CP:13:HIS:C	16:CP:15:PRO:HD3	2.33	0.48
1:AA:1300:G:HO2'	1:AA:1301:U:P	2.34	0.48
15:CO:53:HIS:O	15:CO:56:LEU:HB3	2.13	0.48
16:CP:54:GLU:OE2	16:CP:54:GLU:HA	2.13	0.48
32:B7:8:ASN:HD22	32:B7:9:ARG:H	1.60	0.48
36:DB:68:C:H2'	36:DB:69:G:C8	2.48	0.48
1:CA:1485:U:O2'	1:CA:1486:G:H5'	2.12	0.48
20:CT:74:LYS:H	20:CT:74:LYS:HD3	1.77	0.48
1:AA:1377:A:H2'	7:AG:7:ALA:HB2	1.95	0.48
8:CH:123:GLU:O	8:CH:126:LYS:HB3	2.12	0.48
26:D1:29:GLY:O	26:D1:31:GLY:N	2.46	0.48
49:DQ:68:ILE:HG23	49:DQ:103:MET:HA	1.94	0.48
46:DN:126:PRO:O	46:DN:127:ASP:CB	2.60	0.48
25:B0:5:LYS:HB3	25:B0:5:LYS:NZ	2.29	0.48
35:BA:229:A:H8	35:BA:229:A:OP1	1.96	0.48
57:DY:52:SER:N	57:DY:53:PRO:CD	2.76	0.48
1:CA:201:C:C2'	1:CA:202:U:H5''	2.43	0.48
53:BU:84:LYS:C	53:BU:86:ALA:H	2.15	0.48
35:BA:247:G:H4'	35:BA:386:G:C5	2.48	0.48
48:BP:124:LYS:HD3	48:BP:143:GLY:CA	2.43	0.48
54:DV:2:PHE:O	54:DV:14:VAL:O	2.31	0.48
32:B7:34:ARG:HH12	32:B7:39:ARG:CD	2.26	0.48
1:AA:1479:C:O2'	1:AA:1480:G:H5'	2.13	0.48
35:BA:2115:G:H3'	35:BA:2116:G:C5'	2.43	0.48
35:BA:618:C:H2'	35:BA:619:G:O4'	2.13	0.48
35:BA:68:G:H2'	35:BA:69:C:C6	2.47	0.48
37:BC:11:LEU:C	37:BC:13:GLU:N	2.66	0.48
1:AA:1366:C:H2'	1:AA:1367:C:C6	2.49	0.48
1:AA:1222:G:O2'	1:AA:1223:C:H5'	2.13	0.48
2:CB:137:ARG:HH11	2:CB:137:ARG:HG2	1.77	0.48
22:CW:2:G:H2'	22:CW:3:C:C6	2.48	0.48
49:BQ:58:PHE:CD1	49:BQ:58:PHE:O	2.66	0.48
35:DA:1233:C:H2'	35:DA:1234:U:H6	1.76	0.48
1:CA:1216:G:OP1	14:CN:2:ALA:HA	2.12	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1270:C:H5''	35:BA:1271:G:O5'	2.13	0.48
1:CA:908:A:H2'	1:CA:909:A:C8	2.48	0.48
35:BA:2135:A:H2'	35:BA:2136:C:O4'	2.13	0.48
35:BA:1767:C:H2'	35:BA:1768:U:O4'	2.13	0.48
1:CA:63:C:O2'	1:CA:380:G:H4'	2.13	0.48
52:BT:113:LYS:O	52:BT:114:LEU:HD23	2.13	0.48
58:BZ:26:GLY:O	58:BZ:27:VAL:HB	2.13	0.48
44:BK:2:LYS:HB2	44:BK:2:LYS:NZ	2.28	0.48
35:DA:1767:C:H2'	35:DA:1768:U:O4'	2.13	0.48
17:CQ:94:ASN:O	17:CQ:96:GLU:N	2.46	0.48
41:BG:46:ALA:C	41:BG:51:ARG:HG3	2.34	0.48
1:CA:509:A:H2'	1:CA:509:A:N3	2.27	0.48
24:CY:92:ILE:CB	24:CY:405:PRO:HG2	2.43	0.48
24:AY:122:TRP:CZ2	24:AY:159:ALA:HB2	2.49	0.48
24:AY:25:LYS:NZ	24:AY:86:GLY:HA2	2.27	0.48
46:DN:2:LYS:HZ3	54:DV:12:TYR:HA	1.77	0.48
35:BA:1047:G:O2'	35:BA:1110:G:N2	2.46	0.48
31:B6:11:LEU:HD22	31:B6:11:LEU:C	2.33	0.48
35:DA:295:G:O2'	35:DA:296:C:H5'	2.13	0.48
31:D6:8:LYS:HZ1	35:DA:2285:C:H5	1.53	0.48
33:D8:50:LEU:O	33:D8:52:LYS:N	2.34	0.48
48:DP:64:LYS:O	48:DP:66:GLY:N	2.40	0.48
58:BZ:151:HIS:O	58:BZ:152:ALA:C	2.51	0.48
44:BK:121:GLU:O	44:BK:125:ARG:HG3	2.13	0.48
3:CC:78:GLY:HA3	3:CC:83:ARG:HB3	1.96	0.48
24:CY:208:GLN:O	24:CY:209:ALA:O	2.31	0.48
24:CY:137:ASN:ND2	24:CY:263:ALA:CB	2.76	0.48
24:CY:13:ARG:NH1	24:CY:277:VAL:HG23	2.27	0.48
31:D6:42:TRP:CH2	35:DA:643:A:N7	2.81	0.48
38:BD:43:ARG:HB3	38:BD:54:ARG:CB	2.42	0.48
24:AY:77:HIS:CD2	24:AY:277:VAL:HG21	2.48	0.48
35:DA:821:A:O2'	35:DA:945:A:H3'	2.13	0.48
5:CE:28:PHE:CD2	5:CE:51:VAL:HG22	2.48	0.48
38:BD:259:THR:O	38:BD:260:ARG:O	2.32	0.48
2:CB:187:LEU:HD22	2:CB:201:ILE:O	2.14	0.48
35:BA:2754:U:H2'	35:BA:2756:U:OP1	2.12	0.48
35:BA:2205:C:O2	35:BA:2205:C:H2'	2.12	0.48
35:DA:1141:U:H1'	35:DA:1142(A):A:C2	2.48	0.48
58:DZ:17:ALA:HA	58:DZ:20:ARG:HD3	1.95	0.48
38:BD:183:ARG:CG	38:BD:183:ARG:HH11	2.14	0.48
55:DW:6:ILE:HG13	55:DW:104:THR:HG23	1.95	0.48
24:AY:303:PRO:HA	24:AY:331:TYR:O	2.12	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
49:BQ:45:GLN:H	49:BQ:45:GLN:HE21	1.54	0.48
12:CL:41:ARG:HG2	12:CL:42:THR:N	2.23	0.48
42:DH:17:VAL:HB	42:DH:45:VAL:HG13	1.95	0.48
24:AY:518:PRO:HD2	24:AY:521:SER:OG	2.13	0.48
42:DH:83:TYR:CB	42:DH:134:SER:HA	2.38	0.48
24:CY:264:LEU:HD22	24:CY:265:LYS:HZ3	1.79	0.48
10:AJ:40:LEU:CB	10:AJ:41:PRO:HD2	2.44	0.48
35:DA:363(F):A:H1'	35:DA:364:C:H5	1.78	0.48
1:CA:1444:C:O5'	1:CA:1444:C:H6	1.96	0.48
56:BX:7:VAL:HB	56:BX:8:ILE:HD12	1.95	0.48
35:BA:295:G:O2'	35:BA:296:C:H5'	2.13	0.48
35:DA:557:U:H2'	35:DA:558:G:H8	1.77	0.48
26:D1:67:ILE:N	26:D1:68:PRO:CD	2.71	0.48
35:DA:755:C:H2'	35:DA:756:C:C6	2.49	0.48
1:CA:1405:G:H21	1:CA:1518:A:H1'	1.77	0.48
40:DF:89:VAL:O	40:DF:91:GLY:N	2.43	0.48
35:DA:1721:G:O6	35:DA:1739:U:H5'	2.14	0.48
38:BD:77:ALA:O	38:BD:116:GLN:HG3	2.12	0.48
35:DA:1788:C:H2'	35:DA:1789:A:H8	1.77	0.48
35:DA:112:U:C2'	35:DA:113:G:H5'	2.44	0.48
1:AA:1344:C:O2'	1:AA:1345:U:H5'	2.12	0.48
1:CA:779:C:H2'	1:CA:780:A:O4'	2.14	0.48
35:BA:90:U:H3'	35:BA:90:U:O2	2.13	0.48
35:BA:2182:G:H2'	35:BA:2183:C:C6	2.48	0.48
24:AY:510:VAL:HG11	24:AY:567:LEU:HD13	1.96	0.48
35:BA:688:U:C4'	35:BA:1780:A:C2	2.97	0.48
35:DA:760:G:C2'	35:DA:761:A:H5'	2.44	0.48
3:AC:126:ARG:HD2	3:AC:128:PHE:CZ	2.48	0.48
35:DA:739:G:HO2'	35:DA:740:U:H6	1.60	0.48
32:D7:11:LYS:HE2	35:DA:686:G:H5''	1.95	0.48
35:DA:786:C:C2'	35:DA:787:U:H5'	2.43	0.48
20:AT:84:LEU:O	20:AT:86:ARG:N	2.46	0.48
35:BA:1028:A:H61	35:BA:1125:G:H2'	1.77	0.48
35:BA:999:U:OP2	35:BA:1153:C:OP2	2.31	0.48
35:DA:230:U:O2'	35:DA:231:C:H5'	2.12	0.48
24:CY:312:LEU:HD11	24:CY:401:SER:OG	2.13	0.48
35:BA:443:A:H3'	40:BF:45:ARG:NH2	2.27	0.48
35:BA:428:A:H3'	35:BA:429:A:C8	2.47	0.48
35:DA:729:G:OP2	38:DD:13:ARG:NH1	2.46	0.48
35:DA:1491:G:H21	35:DA:1492:G:H1'	1.77	0.48
58:DZ:55:HIS:CE1	58:DZ:135:GLU:OE2	2.65	0.48
2:AB:60:ASP:O	2:AB:64:ARG:NE	2.46	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:314:PHE:CD1	24:AY:315:LYS:HB2	2.48	0.48
2:AB:7:VAL:C	2:AB:11:LEU:HG	2.33	0.48
55:BW:41:LYS:C	55:BW:43:GLY:N	2.66	0.48
24:AY:561:VAL:O	24:AY:562:ASP:HB2	2.13	0.48
35:BA:2678:C:O2'	35:BA:2679:A:H5'	2.14	0.48
58:BZ:9:TYR:HE2	58:BZ:61:LEU:HD13	1.77	0.48
1:CA:174:C:O2'	1:CA:175:C:H5'	2.13	0.48
35:DA:777:A:H2'	35:DA:778:G:H8	1.77	0.48
1:CA:1047:G:H5''	14:CN:4:LYS:HD3	1.96	0.48
24:CY:610:VAL:O	24:CY:610:VAL:HG23	2.12	0.48
35:BA:938:G:H2'	35:BA:939:G:H8	1.78	0.48
40:BF:150:GLY:HA2	40:BF:172:TRP:CE3	2.49	0.48
58:BZ:92:SER:HB2	58:BZ:93:ASP:H	1.36	0.48
47:DO:108:GLU:N	47:DO:108:GLU:OE2	2.44	0.48
3:AC:127:ARG:HH11	3:AC:127:ARG:HG2	1.78	0.48
41:BG:153:ARG:HB3	41:BG:153:ARG:HH11	1.79	0.48
24:CY:519:ARG:NH1	24:CY:678:GLU:N	2.54	0.48
40:BF:206:ILE:HG22	40:BF:207:GLY:H	1.78	0.48
46:DN:3:THR:CG2	46:DN:5:VAL:HG23	2.42	0.48
46:DN:9:VAL:HG12	46:DN:10:GLU:H	1.77	0.48
38:DD:39:LYS:HB2	38:DD:62:TYR:HB2	1.95	0.48
31:B6:10:LEU:HB3	33:B8:34:TRP:HD1	1.78	0.48
40:DF:170:LEU:HD22	40:DF:170:LEU:N	2.28	0.48
35:BA:322:A:P	40:BF:169:ASN:HD22	2.37	0.48
35:BA:1899:G:N2	35:BA:1902:C:C4	2.80	0.48
35:BA:1081:U:H4'	44:BK:117:THR:CG2	2.44	0.48
35:DA:2229:C:O2'	35:DA:2230:G:H5'	2.13	0.48
41:BG:133:LEU:CD1	41:BG:157:ILE:HB	2.43	0.48
24:CY:74:TRP:CD1	24:CY:273:LEU:HB3	2.49	0.48
31:B6:15:GLU:O	31:B6:16:CYS:O	2.30	0.48
31:D6:42:TRP:NE1	35:DA:643:A:OP1	2.46	0.48
9:AI:26:VAL:CG2	9:AI:61:ALA:HB3	2.39	0.48
35:DA:1081:U:H4'	44:DK:117:THR:CG2	2.42	0.48
44:DK:121:GLU:O	44:DK:125:ARG:HG3	2.14	0.48
53:BU:10:ARG:O	53:BU:12:ARG:N	2.47	0.48
35:DA:25:U:H2'	35:DA:26:G:O4'	2.13	0.48
46:BN:15:LEU:HD23	46:BN:53:VAL:HB	1.94	0.48
35:DA:2309:A:C2'	35:DA:2310:A:H5''	2.43	0.48
48:DP:101:VAL:HG12	48:DP:106:LEU:CB	2.41	0.48
35:BA:636:G:H2'	48:BP:115:LEU:HD12	1.95	0.48
35:DA:1799:G:H5'	35:DA:1819:A:N6	2.28	0.48
29:D4:2:LYS:HB2	36:DB:40:U:C4	2.47	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2320:A:C2	35:BA:2333:A:C8	3.01	0.48
35:DA:2137:C:H2'	35:DA:2138:C:C6	2.49	0.48
58:DZ:16:SER:OG	58:DZ:17:ALA:N	2.46	0.48
50:BR:38:VAL:CB	50:BR:39:PRO:HD3	2.36	0.48
2:AB:44:LEU:CD1	2:AB:44:LEU:H	2.12	0.48
6:AF:33:TYR:O	6:AF:34:GLY:C	2.52	0.48
18:CR:56:THR:CB	18:CR:58:LEU:HD13	2.35	0.48
35:BA:1285:G:C2'	35:BA:1286:A:H5'	2.38	0.48
42:BH:41:MET:SD	42:BH:53:GLU:N	2.86	0.48
49:DQ:134:ARG:HG3	49:DQ:134:ARG:HH11	1.77	0.48
52:DT:108:ARG:HH11	52:DT:108:ARG:HB2	1.78	0.48
40:BF:174:VAL:HG21	40:BF:189:THR:CG2	2.42	0.48
1:AA:878:G:H5'	8:AH:89:PRO:HG2	1.95	0.48
12:AL:27:LEU:CG	12:AL:62:SER:HB2	2.43	0.48
50:DR:21:TYR:OH	50:DR:43:GLU:HG2	2.13	0.48
37:BC:90:ALA:HA	37:BC:155:ARG:HH12	1.77	0.48
1:AA:1124:G:C5'	10:AJ:35:SER:HB2	2.43	0.48
1:CA:624:C:H4'	16:CP:10:GLY:C	2.33	0.48
1:AA:1030:C:N4	1:AA:1032:G:C2	2.82	0.48
42:BH:144:VAL:HA	42:BH:147:ASN:HB2	1.94	0.48
35:BA:278:A:C2	35:BA:279:C:C2	3.01	0.48
35:BA:1275:A:C4	50:BR:16:HIS:ND1	2.81	0.48
56:DX:70:LEU:C	56:DX:70:LEU:HD23	2.33	0.48
35:BA:588:U:H2'	35:BA:589:C:C6	2.47	0.48
4:CD:159:ARG:O	4:CD:163:GLU:N	2.46	0.48
12:CL:8:ASN:O	12:CL:12:ARG:HG3	2.13	0.48
24:AY:646:PHE:O	24:AY:647:VAL:HG13	2.13	0.48
58:BZ:29:TYR:HA	58:BZ:33:LEU:O	2.13	0.48
1:AA:779:C:H2'	1:AA:780:A:O4'	2.13	0.48
24:CY:315:LYS:NZ	24:CY:317:MET:HG2	2.27	0.48
37:DC:74:ARG:N	37:DC:112:ASP:HB2	2.27	0.48
1:CA:1152:A:OP1	10:CJ:68:HIS:CD2	2.65	0.48
35:BA:177:G:H3'	35:BA:178:G:H8	1.78	0.48
35:DA:900:A:C8	35:DA:900:A:H5'	2.44	0.48
35:DA:465:G:H2'	35:DA:466:A:C8	2.49	0.48
58:BZ:17:ALA:HA	58:BZ:20:ARG:HG2	1.94	0.48
35:DA:229:A:OP1	35:DA:229:A:H8	1.95	0.48
35:BA:1719:G:O2'	35:BA:1720:U:H5'	2.13	0.48
35:BA:1210:A:H5''	35:BA:1212:G:O4'	2.13	0.48
35:BA:453:C:H4'	35:BA:472:A:N6	2.29	0.48
37:DC:65:LEU:HD11	37:DC:162:ILE:HD13	1.96	0.48
20:AT:33:ILE:HD13	20:AT:63:ILE:HA	1.94	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:CY:580:MET:O	24:CY:580:MET:HG2	2.12	0.48
35:DA:1930:G:C2'	35:DA:1931:U:OP2	2.61	0.48
35:DA:537:C:O5'	35:DA:537:C:H6	1.96	0.48
1:CA:505:G:H5'	1:CA:534:U:H2'	1.96	0.48
10:CJ:94:VAL:CG1	10:CJ:95:GLU:N	2.76	0.48
11:CK:30:VAL:HG21	11:CK:65:ALA:HA	1.94	0.48
35:DA:2208:A:H1'	35:DA:2219:G:C4	2.48	0.48
1:AA:819:A:H4'	1:AA:820:U:OP2	2.13	0.48
58:BZ:129:SER:C	58:BZ:131:ARG:N	2.64	0.48
1:AA:603:U:H2'	1:AA:604:G:H8	1.77	0.48
1:CA:554:C:H2'	1:CA:555:C:C6	2.49	0.48
35:DA:1666:G:O3'	47:DO:6:THR:HG23	2.13	0.48
36:DB:57:A:C4	41:DG:29:TRP:HB2	2.49	0.48
9:AI:56:LEU:HD23	9:AI:56:LEU:C	2.33	0.48
40:DF:41:LEU:HD23	40:DF:44:ARG:HE	1.79	0.48
38:BD:165:ILE:HD13	38:BD:175:LEU:HD21	1.95	0.48
1:AA:858:G:O2'	1:AA:859:A:H5''	2.13	0.48
12:CL:51:ALA:O	12:CL:52:LEU:HD23	2.13	0.48
35:BA:2352:A:H2'	35:BA:2353:G:H5'	1.95	0.48
3:CC:69:HIS:HA	3:CC:104:GLN:HB2	1.95	0.48
41:BG:34:LEU:HD13	41:BG:99:MET:HE2	1.95	0.48
10:AJ:78:ASN:C	10:AJ:79:ARG:NH1	2.67	0.48
40:BF:123:LEU:HD12	40:BF:124:LEU:H	1.76	0.48
40:BF:18:ARG:CZ	40:BF:199:TRP:CZ3	2.97	0.48
10:CJ:4:ILE:HB	10:CJ:74:ILE:HG13	1.95	0.48
53:DU:47:TYR:O	53:DU:51:LYS:HG2	2.13	0.48
53:DU:82:GLY:O	53:DU:84:LYS:N	2.46	0.48
53:BU:52:ARG:O	53:BU:55:ARG:HG2	2.13	0.48
61:AY:702:FUA:C1	61:AY:702:FUA:O1	2.60	0.48
38:DD:35:LYS:NZ	38:DD:35:LYS:HB3	2.28	0.48
31:B6:11:LEU:HD23	31:B6:51:GLU:CG	2.44	0.48
19:AS:51:VAL:HG22	19:AS:71:LEU:HD13	1.95	0.48
33:D8:55:ALA:O	33:D8:59:LYS:HE2	2.12	0.48
24:CY:164:MET:HG3	24:CY:259:PHE:CZ	2.49	0.48
1:AA:1147:C:O2'	9:AI:16:ARG:HD2	2.14	0.48
1:CA:703:G:C2'	1:CA:704:A:OP2	2.61	0.48
33:D8:4:MET:CE	33:D8:61:LEU:HD22	2.44	0.48
48:BP:85:LEU:HA	48:BP:88:LEU:HB3	1.96	0.48
39:DE:51:PHE:CD1	39:DE:52:LEU:HD12	2.48	0.48
39:DE:76:ARG:O	39:DE:77:ILE:O	2.32	0.48
35:DA:1141:U:OP2	46:DN:63:THR:OG1	2.22	0.48
13:AM:116:THR:CG2	13:AM:117:VAL:N	2.76	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
57:DY:29:GLU:N	57:DY:29:GLU:OE1	2.46	0.48
49:BQ:60:ARG:CZ	49:BQ:60:ARG:HB2	2.43	0.48
24:AY:518:PRO:O	24:AY:520:GLY:N	2.46	0.48
1:CA:1343:G:H1'	9:CI:121:ARG:NH1	2.28	0.48
9:AI:5:TYR:HD2	9:AI:17:VAL:O	1.96	0.48
10:AJ:63:PHE:HA	14:AN:59:ALA:CB	2.43	0.48
35:BA:2389:G:C5'	35:BA:2390:U:H5'	2.41	0.48
55:DW:36:LEU:HD12	55:DW:48:ALA:HA	1.96	0.48
7:AG:5:ARG:N	7:AG:5:ARG:HD2	2.28	0.48
1:AA:1118:C:H1'	1:AA:1179:A:C4	2.49	0.48
14:AN:60:SER:O	14:AN:61:TRP:HB3	2.14	0.48
1:AA:1286:A:H2'	1:AA:1287:A:H4'	1.95	0.48
50:DR:12:ARG:HB3	50:DR:16:HIS:HD2	1.79	0.48
36:DB:15:A:C3'	36:DB:16:G:H5'	2.42	0.48
49:BQ:62:GLY:CA	58:BZ:116:VAL:HG21	2.43	0.48
15:AO:55:GLY:HA2	15:AO:58:MET:CE	2.41	0.48
1:AA:1345:U:OP1	9:AI:120:ARG:NH1	2.46	0.48
52:BT:75:ILE:N	52:BT:75:ILE:CD1	2.76	0.48
36:BB:20:C:C2'	36:BB:21:G:C5'	2.91	0.48
47:DO:9:GLU:O	47:DO:83:ALA:HA	2.13	0.48
39:DE:170:LEU:H	39:DE:170:LEU:CD1	2.25	0.48
1:CA:1459:C:H2'	1:CA:1460:A:H8	1.75	0.48
51:BS:58:LEU:CD1	51:BS:59:LYS:H	2.26	0.48
38:DD:227:ASN:HB3	38:DD:228:PRO:HD2	1.94	0.48
35:DA:271(Z):C:H1'	35:DA:272(C):G:H1'	1.96	0.48
24:CY:539:ILE:O	24:CY:540:PRO:C	2.52	0.48
3:AC:115:LEU:O	3:AC:116:VAL:C	2.51	0.48
35:DA:1169:G:C2	35:DA:1181:C:N3	2.81	0.48
35:DA:453:C:H4'	35:DA:472:A:N6	2.28	0.48
35:BA:654(O):G:H2'	35:BA:654(P):C:C6	2.48	0.48
35:BA:654(P):C:H2'	35:BA:654(Q):C:C5'	2.44	0.48
1:CA:404:U:H2'	1:CA:405:U:C6	2.48	0.48
41:DG:181:ARG:HH11	41:DG:181:ARG:CG	2.26	0.48
35:BA:1972:A:H2'	35:BA:1973:G:C8	2.47	0.48
11:AK:29:ILE:HB	11:AK:44:SER:CB	2.44	0.48
35:DA:445:C:O2'	35:DA:446:G:H5'	2.13	0.48
1:CA:78:G:H1	1:CA:91:C:N4	2.11	0.48
58:BZ:10:ARG:NH2	58:BZ:26:GLY:O	2.45	0.48
24:AY:549:ALA:HB2	24:AY:587:SER:OG	2.13	0.48
21:AU:10:ARG:O	21:AU:13:ILE:N	2.46	0.48
38:DD:96:HIS:CE1	38:DD:102:LYS:HE2	2.48	0.48
44:DK:88:ALA:O	44:DK:90:LYS:N	2.44	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2135:A:H2'	35:DA:2136:C:O4'	2.13	0.48
1:AA:948:C:H2'	1:AA:949:A:H8	1.78	0.48
35:BA:2716:U:O2'	35:BA:2717:G:H5'	2.13	0.48
6:AF:50:TYR:CE1	18:AR:77:GLY:HA2	2.47	0.48
1:CA:1388:C:H2'	1:CA:1389:C:H6	1.79	0.48
35:BA:2539:C:O2	35:BA:2539:C:H2'	2.12	0.48
5:CE:68:GLU:O	5:CE:68:GLU:HG3	2.11	0.48
18:AR:88:LYS:C	18:AR:88:LYS:HD3	2.34	0.48
37:DC:196:ALA:O	37:DC:199:ALA:HB3	2.13	0.48
41:BG:7:LEU:HB3	41:BG:100:TRP:CE3	2.48	0.48
35:BA:2050:C:H2'	35:BA:2051:A:O4'	2.13	0.48
4:CD:8:VAL:C	4:CD:10:ARG:H	2.14	0.48
35:DA:1045:A:N3	35:DA:1047:G:N2	2.61	0.48
24:CY:453:GLY:HA3	24:CY:459:LEU:CD2	2.43	0.48
24:AY:250:THR:O	24:AY:253:LEU:N	2.35	0.48
53:BU:112:ARG:CG	53:BU:112:ARG:HH11	2.26	0.48
35:BA:1748:G:C8	35:BA:1748:G:H5'	2.40	0.48
48:BP:67:MET:C	48:BP:68:GLN:HG3	2.33	0.48
1:CA:1316:G:H4'	14:CN:18:VAL:HG12	1.95	0.48
38:BD:35:LYS:HD2	38:BD:36:PRO:HA	1.93	0.48
40:DF:179:GLU:C	40:DF:181:LEU:H	2.16	0.48
51:BS:12:PHE:CD1	51:BS:12:PHE:C	2.87	0.48
41:DG:51:ARG:NH1	41:DG:53:LEU:HD21	2.28	0.48
58:BZ:5:LEU:HB3	58:BZ:59:LEU:HD23	1.95	0.48
40:DF:9:ILE:HG12	40:DF:14:PRO:HA	1.94	0.48
52:DT:28:VAL:HG13	52:DT:46:GLU:CA	2.41	0.48
58:DZ:109:ALA:O	58:DZ:111:VAL:N	2.47	0.48
35:BA:1799:G:H5'	35:BA:1819:A:N6	2.29	0.48
3:AC:155:GLY:O	3:AC:156:ARG:CB	2.61	0.48
33:D8:4:MET:HE1	33:D8:61:LEU:HD22	1.95	0.48
2:CB:51:LEU:CD2	2:CB:201:ILE:HG23	2.43	0.48
30:D5:56:LYS:O	30:D5:57:VAL:O	2.31	0.48
1:AA:963:G:H21	10:AJ:55:LYS:CD	2.27	0.48
27:B2:39:ALA:HA	27:B2:45:SER:HB3	1.95	0.48
13:AM:97:PRO:HA	13:AM:110:ARG:CD	2.35	0.48
54:BV:19:LYS:HE2	54:BV:19:LYS:HA	1.96	0.48
1:CA:1325:C:C2	1:CA:1326:C:C5	3.01	0.48
55:BW:6:ILE:HG13	55:BW:104:THR:HG23	1.95	0.48
50:BR:100:LEU:N	50:BR:100:LEU:HD13	2.28	0.48
52:BT:57:PHE:O	52:BT:58:ASN:C	2.50	0.48
42:DH:144:VAL:HA	42:DH:147:ASN:HB2	1.95	0.48
48:DP:46:LYS:HG2	48:DP:52:GLU:HG2	1.96	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1525:G:O2'	1:AA:1526:G:H5'	2.13	0.48
35:BA:2464:C:O2'	35:BA:2465:C:O5'	2.32	0.48
48:BP:77:ARG:HB2	48:BP:78:PRO:CD	2.40	0.48
12:CL:27:LEU:CG	12:CL:62:SER:HB2	2.43	0.48
14:CN:60:SER:O	14:CN:61:TRP:HB3	2.14	0.48
12:CL:6:THR:H	12:CL:9:GLN:NE2	2.12	0.48
35:DA:1052:C:O2'	35:DA:1053:C:O5'	2.32	0.48
1:AA:1122:U:O2'	1:AA:1123:A:H5'	2.13	0.48
1:AA:1123:A:O3'	10:AJ:36:GLY:HA3	2.14	0.48
1:CA:177:C:H2'	1:CA:178:C:H6	1.79	0.48
15:CO:43:LEU:CD1	15:CO:56:LEU:HD22	2.44	0.48
24:CY:73:PHE:HZ	24:CY:78:ARG:NH2	2.11	0.48
1:CA:1030(C):G:H2'	1:CA:1030(D):A:C8	2.47	0.48
26:D1:6:GLU:OE1	26:D1:61:ARG:N	2.46	0.48
20:CT:50:GLU:HG3	20:CT:51:GLU:H	1.77	0.48
49:DQ:37:LEU:HD12	49:DQ:128:LYS:HB3	1.96	0.48
49:DQ:12:GLN:HE21	49:DQ:73:PRO:CD	2.22	0.48
3:CC:5:ILE:O	3:CC:5:ILE:HD13	2.14	0.48
28:D3:46:ASN:O	28:D3:49:LYS:N	2.47	0.48
36:BB:81:G:C2	36:BB:82:G:N7	2.82	0.48
35:DA:781:A:H2'	35:DA:1777:U:O2'	2.13	0.48
35:DA:1100:C:O2	35:DA:1100:C:H2'	2.14	0.48
35:DA:733:G:C6	35:DA:761:A:N7	2.81	0.48
35:BA:900:A:H5'	35:BA:900:A:C8	2.44	0.48
39:BE:170:LEU:H	39:BE:170:LEU:CD1	2.24	0.48
18:CR:87:ARG:CB	18:CR:87:ARG:HH11	2.26	0.48
16:CP:67:THR:HB	16:CP:70:ALA:HB2	1.96	0.48
28:D3:28:LEU:CD2	28:D3:35:ARG:HD2	2.44	0.48
1:AA:60:A:C5'	1:AA:331:G:H22	2.26	0.48
1:AA:538:G:OP2	12:AL:115:LYS:HG3	2.13	0.48
24:CY:652:MET:HE2	24:CY:655:TYR:HB2	1.96	0.48
35:BA:2328:A:H2'	35:BA:2329:G:C8	2.48	0.48
35:BA:1362:C:H2'	35:BA:1363:C:H6	1.78	0.48
36:DB:54:G:H2'	36:DB:55:U:H6	1.78	0.48
24:CY:538:TYR:CD1	24:CY:579:GLU:HA	2.49	0.48
38:DD:213:ARG:C	38:DD:215:LEU:N	2.66	0.48
13:CM:74:VAL:CA	13:CM:77:ASN:HD22	2.27	0.48
54:DV:2:PHE:O	54:DV:3:ALA:CB	2.62	0.48
6:CF:42:GLU:C	6:CF:44:GLY:N	2.67	0.48
35:DA:552:G:O2'	35:DA:553:G:H5'	2.13	0.48
35:DA:245:G:H5'	48:DP:73:GLY:HA2	1.94	0.48
10:AJ:56:HIS:O	10:AJ:58:ASP:N	2.46	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
7:AG:105:VAL:O	7:AG:108:ALA:HB3	2.13	0.48
50:DR:51:LEU:HD12	50:DR:51:LEU:H	1.78	0.48
27:B2:17:SER:HB2	27:B2:18:PRO:HD2	1.96	0.48
35:BA:1630:G:C2	35:BA:1637:A:C2	3.01	0.48
1:AA:155:C:H2'	1:AA:156:G:H8	1.78	0.48
35:DA:487:C:H1'	55:DW:53:SER:HA	1.96	0.48
47:BO:88:ASN:C	47:BO:90:GLN:H	2.17	0.48
35:DA:350:U:H2'	35:DA:351:G:O4'	2.14	0.48
1:AA:771:G:H2'	1:AA:772:U:C6	2.48	0.48
35:DA:1270:C:H5''	35:DA:1271:G:O5'	2.14	0.48
40:DF:150:GLY:HA2	40:DF:172:TRP:CE3	2.48	0.48
1:AA:967:C:H2'	1:AA:968:A:C8	2.48	0.48
35:BA:325:G:O2'	35:BA:326:G:H5'	2.13	0.48
1:CA:967:C:H2'	1:CA:968:A:C8	2.49	0.48
41:BG:53:LEU:HD22	41:BG:53:LEU:N	2.29	0.48
41:BG:82:LEU:HD21	41:BG:87:PRO:HG3	1.95	0.48
35:BA:769:G:H5'	35:BA:1379:A:N6	2.28	0.48
1:AA:542:G:H5'	4:AD:41:GLY:HA2	1.96	0.48
1:AA:430:A:OP2	4:AD:8:VAL:HG22	2.13	0.48
24:AY:170:ARG:HH22	24:AY:208:GLN:HE22	1.62	0.48
24:AY:17:ILE:N	24:AY:17:ILE:CD1	2.77	0.48
53:BU:113:ALA:O	53:BU:115:ALA:N	2.46	0.48
53:BU:49:HIS:O	53:BU:52:ARG:HB2	2.14	0.48
53:BU:95:LEU:O	53:BU:98:LEU:HG	2.13	0.48
33:B8:33:ASN:ND2	33:B8:33:ASN:N	2.41	0.48
33:B8:50:LEU:C	33:B8:53:PRO:CD	2.82	0.48
19:CS:5:LEU:HD12	19:CS:8:GLY:C	2.34	0.48
35:DA:272(G):C:C3'	35:DA:272(H):C:H5''	2.44	0.48
57:BY:31:LEU:HD23	57:BY:36:ALA:H	1.79	0.48
33:D8:51:ALA:HA	33:D8:54:GLU:CD	2.34	0.48
48:DP:64:LYS:C	48:DP:66:GLY:N	2.66	0.48
41:DG:55:LYS:C	41:DG:57:ALA:H	2.16	0.48
57:BY:95:LYS:HD3	57:BY:100:ALA:CB	2.44	0.48
50:DR:87:TYR:C	50:DR:89:ASP:N	2.65	0.48
35:BA:2293:C:OP1	51:BS:92:TYR:OH	2.31	0.48
51:BS:106:ARG:O	51:BS:107:GLU:HB2	2.13	0.48
51:BS:70:GLY:C	51:BS:72:ALA:N	2.67	0.48
35:DA:2369:A:H2'	35:DA:2370:G:H8	1.79	0.48
49:DQ:52:VAL:HG12	49:DQ:53:ALA:N	2.28	0.48
12:AL:75:HIS:CD2	12:AL:77:LEU:HD12	2.47	0.48
35:BA:2585:U:HO2'	35:BA:2586:C:H5'	1.75	0.48
48:DP:106:LEU:HD11	48:DP:112:LEU:HD23	1.94	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:BP:112:LEU:N	48:BP:128:HIS:HD2	2.12	0.48
2:CB:48:MET:HA	2:CB:51:LEU:HD12	1.95	0.48
35:DA:2754:U:H2'	35:DA:2756:U:OP1	2.14	0.48
39:BE:108:SER:O	39:BE:162:ALA:HA	2.14	0.48
35:BA:1141:U:H1'	35:BA:1142(A):A:C2	2.48	0.48
3:AC:84:ILE:O	3:AC:84:ILE:HG12	2.14	0.48
27:D2:7:ARG:HG3	27:D2:7:ARG:HH11	1.79	0.48
24:AY:416:LYS:NZ	24:AY:417:THR:HG23	2.29	0.48
36:BB:91:C:H5'	49:BQ:17:LEU:O	2.13	0.48
49:BQ:17:LEU:C	49:BQ:18:LYS:HD2	2.34	0.48
52:DT:11:GLU:O	52:DT:13:ARG:N	2.37	0.48
39:BE:177:PRO:HG2	39:BE:178:GLU:H	1.78	0.48
52:DT:102:ILE:HG13	52:DT:103:ARG:N	2.28	0.48
24:AY:351:ARG:O	24:AY:351:ARG:HG3	2.13	0.48
27:D2:52:ASP:O	27:D2:53:LEU:C	2.52	0.48
22:CW:11:A:O2'	22:CW:12:G:H5'	2.14	0.48
38:BD:26:LYS:N	38:BD:26:LYS:HE2	2.27	0.48
38:BD:91:ARG:O	38:BD:107:ALA:HB3	2.14	0.48
58:BZ:71:VAL:CG1	58:BZ:74:VAL:HG23	2.43	0.48
10:AJ:8:LEU:HB2	10:AJ:70:ARG:O	2.13	0.48
35:BA:654(S):G:C5	35:BA:654(T):C:H1'	2.48	0.48
35:DA:1186:G:C2'	35:DA:1187:G:H5'	2.43	0.48
24:AY:512:ILE:N	24:AY:512:ILE:CD1	2.74	0.48
55:BW:24:ILE:HG21	55:BW:36:LEU:HD21	1.96	0.48
2:CB:233:SER:CB	2:CB:234:PRO:HD2	2.44	0.48
24:AY:128:TYR:O	24:AY:129:LYS:CB	2.60	0.48
28:D3:44:ARG:O	28:D3:48:GLU:HG2	2.14	0.48
32:B7:27:GLY:HA2	32:B7:30:VAL:HG23	1.96	0.48
13:AM:3:ARG:HB2	29:B4:34:GLU:HG2	1.94	0.48
12:CL:86:ARG:O	12:CL:86:ARG:HG2	2.14	0.48
35:DA:578:A:H5'	35:DA:1254:A:OP1	2.14	0.48
25:D0:5:LYS:HB3	25:D0:5:LYS:NZ	2.28	0.48
35:BA:849:A:C8	35:BA:850:C:C5	3.02	0.48
35:BA:958:U:C3'	35:BA:958:U:C6	2.96	0.48
27:D2:65:ASN:HD21	35:DA:112:U:C5'	2.27	0.48
1:CA:1161:C:O2'	1:CA:1162:C:H5'	2.13	0.48
37:BC:115:VAL:CG1	37:BC:145:THR:HG23	2.42	0.48
24:AY:539:ILE:HD12	24:AY:567:LEU:HD21	1.96	0.48
35:DA:385:C:O2	48:DP:71:VAL:HG21	2.14	0.48
35:DA:2182:G:H2'	35:DA:2183:C:C6	2.49	0.48
1:CA:255:G:O3'	17:CQ:17:LYS:HD2	2.13	0.48
58:BZ:130:PRO:O	58:BZ:133:ILE:CD1	2.61	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1328:G:H2'	35:BA:1330:C:C4	2.49	0.48
49:BQ:68:ILE:HG23	49:BQ:103:MET:HA	1.94	0.48
35:BA:709:U:H2'	35:BA:710:G:H8	1.77	0.48
1:CA:819:A:H4'	1:CA:820:U:OP2	2.14	0.48
8:CH:85:ARG:HH12	8:CH:134:ILE:HG23	1.79	0.48
35:DA:2097:C:O2'	35:DA:2098:U:H5'	2.13	0.48
35:BA:1909:C:O2'	35:BA:1910:G:H5'	2.14	0.48
35:BA:1472:A:O2'	35:BA:1473:G:H5'	2.13	0.48
1:CA:1010:G:N1	1:CA:1020:U:H1'	2.28	0.48
35:DA:1909:C:O2'	35:DA:1910:G:H5'	2.13	0.48
1:AA:424:G:O2'	1:AA:425:G:H5'	2.13	0.48
1:CA:1497:G:H2'	1:CA:1498:U:H5'	1.95	0.48
35:BA:1666:G:O3'	47:BO:6:THR:HG23	2.14	0.48
39:DE:108:SER:O	39:DE:162:ALA:HA	2.13	0.48
35:BA:640:C:C4	35:BA:641:C:N4	2.82	0.48
11:CK:15:ALA:HA	11:CK:76:GLY:O	2.12	0.48
4:AD:43:HIS:O	4:AD:45:GLN:N	2.47	0.48
4:AD:23:GLY:HA3	4:AD:112:VAL:HG22	1.95	0.48
48:BP:17:LYS:HG2	48:BP:17:LYS:O	2.13	0.48
42:DH:156:ALA:C	42:DH:158:HIS:H	2.17	0.48
40:DF:25:PRO:HB3	40:DF:119:ARG:HB2	1.96	0.48
41:BG:100:TRP:O	41:BG:104:GLU:HB2	2.12	0.48
1:AA:509:A:N1	1:AA:510:A:C2	2.82	0.48
22:AW:15:G:H2'	22:AW:60:A:N1	2.28	0.48
31:B6:7:ILE:N	31:B6:7:ILE:CD1	2.77	0.48
48:BP:64:LYS:C	48:BP:66:GLY:N	2.67	0.48
58:DZ:7:ALA:HA	58:DZ:39:VAL:HG12	1.95	0.48
35:DA:272(H):C:C2'	35:DA:272(I):U:H5''	2.43	0.48
58:BZ:56:VAL:C	58:BZ:57:ILE:HD12	2.34	0.48
35:BA:303:U:H2'	35:BA:304:G:H8	1.76	0.48
31:D6:12:GLU:HB3	31:D6:23:THR:HG22	1.96	0.48
10:CJ:27:ALA:CB	10:CJ:85:LEU:HD11	2.44	0.48
10:CJ:82:ILE:O	10:CJ:86:MET:CB	2.61	0.48
52:BT:66:VAL:HA	52:BT:71:GLY:HA2	1.94	0.48
40:BF:168:ARG:HG3	40:BF:175:THR:HB	1.95	0.48
24:CY:112:GLN:HG3	24:CY:115:GLU:HA	1.96	0.48
24:CY:181:LEU:CD1	24:CY:242:LEU:HD13	2.44	0.48
31:B6:19:ARG:O	31:B6:20:ASN:C	2.51	0.48
35:DA:661:C:H4'	48:DP:18:ARG:HG2	1.95	0.48
49:DQ:108:GLY:O	49:DQ:109:VAL:CG2	2.62	0.48
48:BP:16:ARG:CB	48:BP:16:ARG:HH11	2.25	0.48
28:B3:31:LEU:O	28:B3:32:GLN:CB	2.62	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2784:C:H1'	39:DE:37:ARG:NH1	2.29	0.48
47:BO:114:ILE:H	47:BO:114:ILE:CD1	2.21	0.48
24:AY:451:ILE:O	24:AY:451:ILE:HG23	2.13	0.48
2:CB:77:ALA:O	2:CB:81:VAL:HG23	2.14	0.48
20:AT:16:HIS:O	20:AT:19:SER:HB3	2.13	0.48
1:AA:703:G:C2'	1:AA:704:A:OP2	2.61	0.48
3:AC:79:ARG:NH1	3:AC:79:ARG:HB2	2.14	0.48
52:DT:89:VAL:C	52:DT:91:ARG:H	2.17	0.48
1:AA:973:G:O4'	10:AJ:55:LYS:HE2	2.13	0.48
30:B5:36:CYS:SG	30:B5:36:CYS:O	2.72	0.48
3:AC:82:GLU:OE2	3:AC:82:GLU:N	2.47	0.48
35:BA:1598:C:H2'	35:BA:1599:C:C6	2.49	0.48
2:AB:211:ILE:HG22	2:AB:215:LEU:HD23	1.95	0.48
27:D2:7:ARG:HG3	27:D2:7:ARG:NH1	2.27	0.48
29:D4:51:ASP:OD2	29:D4:52:THR:N	2.47	0.48
35:BA:544:G:H21	35:BA:547:A:H2'	1.79	0.48
25:D0:47:PRO:HB3	25:D0:51:VAL:O	2.13	0.48
35:DA:614(A):U:O2'	35:DA:614(B):G:H5'	2.13	0.48
42:BH:17:VAL:CG1	42:BH:50:VAL:HG21	2.38	0.48
52:DT:57:PHE:O	52:DT:58:ASN:C	2.51	0.48
52:DT:6:LEU:O	52:DT:7:ILE:C	2.51	0.48
42:DH:70:THR:HG22	42:DH:74:ASN:ND2	2.29	0.48
24:AY:504:ARG:O	24:AY:506:GLN:N	2.47	0.48
42:DH:41:MET:SD	42:DH:53:GLU:N	2.86	0.48
35:BA:2779:U:H5'	35:BA:2780:G:O5'	2.14	0.48
16:CP:28:ARG:NH1	16:CP:28:ARG:HG2	2.28	0.48
20:AT:103:GLY:O	20:AT:104:LEU:C	2.52	0.48
1:AA:1239:A:C2'	1:AA:1298:C:N4	2.74	0.48
15:CO:43:LEU:C	15:CO:45:VAL:H	2.17	0.48
4:AD:62:GLN:O	4:AD:66:ARG:HB2	2.13	0.48
47:DO:32:TYR:CD1	47:DO:32:TYR:N	2.80	0.48
28:D3:38:GLU:HB3	28:D3:43:ILE:HG13	1.94	0.48
1:AA:986:A:H2'	1:AA:987:G:C8	2.48	0.48
9:CI:40:LEU:C	9:CI:42:ARG:H	2.16	0.48
21:AU:3:LYS:HB3	21:AU:14:TRP:CD1	2.49	0.48
53:BU:26:GLY:C	53:BU:28:ARG:N	2.67	0.48
1:CA:1133:G:C4	1:CA:1142:G:N2	2.81	0.48
27:B2:24:LEU:HD23	27:B2:24:LEU:C	2.34	0.48
22:AV:3:C:N4	22:AV:70:G:H1	2.11	0.48
3:CC:207:VAL:HG12	3:CC:207:VAL:O	2.13	0.48
32:B7:5:TRP:CH2	35:BA:686:G:N7	2.81	0.48
35:DA:2406:U:N3	48:DP:72:PRO:HB2	2.28	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:CC:140:ARG:HG3	3:CC:140:ARG:HH11	1.78	0.48
52:BT:35:LYS:HZ3	52:BT:41:ARG:NH1	2.10	0.48
35:BA:484:C:O2'	35:BA:485:C:H5'	2.14	0.48
44:DK:39:LYS:O	44:DK:43:ALA:HB2	2.13	0.48
38:BD:13:ARG:NH1	38:BD:16:MET:SD	2.87	0.48
38:BD:227:ASN:O	38:BD:230:ASP:N	2.44	0.48
35:DA:1675:C:O2	39:DE:129:HIS:HA	2.13	0.48
39:DE:16:ARG:NH1	39:DE:171:GLU:OE2	2.47	0.48
54:DV:2:PHE:HB3	54:DV:41:GLY:C	2.34	0.48
35:BA:180:G:N2	35:BA:214:G:O6	2.47	0.48
4:AD:108:LEU:HD23	4:AD:110:PHE:CZ	2.49	0.48
35:BA:2097:C:O2'	35:BA:2098:U:H5'	2.13	0.48
8:AH:6:ILE:CD1	8:AH:6:ILE:H	2.27	0.48
43:DJ:148:UNK:C	43:DJ:150:UNK:N	2.73	0.48
58:DZ:72:ARG:HD3	58:DZ:72:ARG:HA	1.72	0.48
7:AG:69:VAL:HG21	7:AG:104:LEU:CD2	2.43	0.48
14:AN:36:PHE:CD1	14:AN:36:PHE:C	2.86	0.48
35:DA:2694:G:O2'	35:DA:2695:C:H5'	2.14	0.48
1:AA:1065:U:O2'	1:AA:1066:C:P	2.71	0.48
34:D9:2:LYS:HD3	35:DA:2526:G:N3	2.29	0.48
38:DD:125:ILE:O	38:DD:125:ILE:HG22	2.13	0.48
35:BA:667:U:H2'	35:BA:668:G:O4'	2.13	0.48
35:DA:1945:G:H2'	35:DA:1945:G:N3	2.29	0.48
51:BS:11:LYS:HD2	51:BS:11:LYS:N	2.29	0.48
35:BA:2691:C:H6	35:BA:2691:C:H5'	1.78	0.48
35:BA:1983:C:O2'	35:BA:1984:G:H5'	2.13	0.48
35:DA:1956:U:C2'	35:DA:1957:C:H5'	2.44	0.48
35:DA:2531:A:H5''	42:DH:157:TYR:CZ	2.49	0.48
41:BG:100:TRP:O	41:BG:101:ILE:C	2.52	0.48
41:BG:109:VAL:CG1	41:BG:142:PRO:HD3	2.42	0.48
37:BC:150:ILE:O	37:BC:154:ILE:HG13	2.14	0.48
1:CA:1489:G:C3'	1:CA:1490:C:H5''	2.42	0.48
35:BA:1266:G:O2'	35:BA:2012:G:O6	2.27	0.48
24:AY:21:ILE:HG13	35:BA:2661:G:C5'	2.40	0.48
9:CI:59:PHE:N	9:CI:59:PHE:CD1	2.81	0.48
9:CI:88:TYR:O	9:CI:89:ASN:CB	2.53	0.48
40:BF:25:PRO:HB3	40:BF:119:ARG:HB2	1.95	0.48
53:DU:52:ARG:O	53:DU:55:ARG:HG2	2.13	0.48
46:BN:3:THR:CG2	46:BN:5:VAL:HG23	2.44	0.48
9:AI:20:ARG:O	9:AI:59:PHE:HA	2.14	0.48
48:BP:29:LYS:HB3	48:BP:34:GLY:H	1.79	0.48
58:DZ:41:LEU:O	58:DZ:43:GLU:N	2.47	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:DG:85:GLY:C	41:DG:87:PRO:CD	2.81	0.48
24:CY:282:SER:C	24:CY:284:LEU:H	2.17	0.48
31:B6:15:GLU:HG2	31:B6:16:CYS:O	2.13	0.48
51:BS:85:VAL:O	51:BS:106:ARG:HG2	2.14	0.48
9:AI:63:ILE:HG22	9:AI:64:THR:N	2.29	0.48
3:AC:62:ASP:O	3:AC:64:VAL:N	2.45	0.48
35:DA:946:G:H2'	35:DA:947:G:H8	1.75	0.48
44:DK:98:ARG:HD2	44:DK:139:VAL:HG22	1.96	0.48
40:BF:81:PRO:C	40:BF:83:PHE:H	2.17	0.48
48:DP:146:VAL:CG2	48:DP:147:LEU:H	2.11	0.48
35:BA:2886:G:H2'	35:BA:2887:U:C6	2.49	0.48
39:DE:30:PRO:O	39:DE:32:PRO:HD3	2.14	0.48
35:DA:2260:C:H2'	35:DA:2261:C:C6	2.49	0.48
39:BE:36:ARG:NH2	39:BE:88:GLY:N	2.61	0.48
51:DS:25:ARG:CG	51:DS:26:LEU:N	2.77	0.48
35:DA:2867:G:N7	52:DT:23:ARG:NH1	2.62	0.48
41:DG:102:PHE:C	41:DG:104:GLU:N	2.67	0.48
24:AY:334:THR:CG2	24:AY:370:LYS:HG2	2.42	0.48
29:D4:56:VAL:CG1	29:D4:56:VAL:O	2.56	0.48
35:DA:2245:U:C5'	35:DA:2246:G:H5'	2.35	0.48
25:D0:43:THR:N	35:DA:2331:G:H4'	2.23	0.48
41:DG:83:ARG:HD2	41:DG:83:ARG:H	1.79	0.48
29:B4:22:ILE:H	29:B4:22:ILE:HD12	1.79	0.48
35:BA:1609:A:H1'	35:BA:1616:A:H1'	1.96	0.48
9:AI:5:TYR:O	9:AI:84:ALA:HA	2.14	0.48
35:BA:1654:A:C2	39:BE:113:PHE:HD1	2.32	0.48
38:DD:24:ILE:CD1	38:DD:25:THR:H	2.24	0.48
39:DE:15:PHE:CE2	52:DT:80:SER:HB2	2.49	0.48
51:BS:44:LYS:O	51:BS:46:VAL:HG23	2.14	0.48
35:BA:859:G:N2	35:BA:917:A:OP2	2.27	0.48
35:DA:391:G:O2'	35:DA:392:C:H5'	2.14	0.48
1:AA:1030(C):G:H2'	1:AA:1030(D):A:C8	2.48	0.48
4:CD:58:LEU:HD22	4:CD:59:ARG:NH1	2.28	0.48
24:AY:406:GLU:CB	24:AY:407:PRO:CD	2.92	0.48
1:AA:1134:G:N2	1:AA:1141:C:C2	2.82	0.48
35:DA:588:U:H1'	40:DF:90:PHE:HB3	1.95	0.48
52:DT:62:THR:CG2	52:DT:75:ILE:HG13	2.44	0.48
1:CA:489:C:H2'	1:CA:490:G:H8	1.79	0.48
32:B7:4:THR:O	35:BA:687:C:H5'	2.14	0.48
16:AP:67:THR:HG22	16:AP:68:ASP:N	2.28	0.48
12:CL:115:LYS:O	12:CL:117:ARG:HG3	2.14	0.48
46:DN:125:GLY:HA3	46:DN:126:PRO:C	2.33	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2328:A:H2'	35:DA:2329:G:C8	2.48	0.48
42:DH:40:GLU:HG3	42:DH:64:LEU:HD13	1.94	0.48
44:DK:37:PHE:C	44:DK:39:LYS:H	2.17	0.48
35:DA:2836:U:H2'	35:DA:2837:G:C8	2.49	0.48
35:BA:492:A:O2'	35:BA:493:G:H5'	2.14	0.48
35:DA:1169:G:N2	35:DA:1181:C:N3	2.62	0.48
36:DB:106:G:H5''	58:DZ:31:ARG:HB3	1.94	0.48
34:B9:11:CYS:O	34:B9:11:CYS:SG	2.72	0.48
37:BC:202:PRO:HB2	37:BC:205:ALA:HB2	1.95	0.48
35:DA:619:G:H3'	35:DA:620:G:H21	1.79	0.48
1:AA:961:U:OP2	1:AA:1223:C:H4'	2.13	0.48
38:BD:81:ALA:HA	38:BD:113:VAL:CG2	2.44	0.48
35:DA:1161:C:H2'	35:DA:1162:G:H8	1.79	0.48
4:AD:119:GLN:HG3	4:AD:123:HIS:NE2	2.29	0.48
35:BA:2704:C:H2'	35:BA:2705:A:O4'	2.14	0.48
49:BQ:41:TRP:NE1	49:BQ:96:VAL:HG22	2.28	0.48
17:CQ:94:ASN:O	17:CQ:95:TYR:C	2.52	0.48
35:BA:1629:U:H2'	35:BA:1630:G:C8	2.48	0.48
35:BA:182:A:O2'	35:BA:183:C:H5'	2.13	0.48
57:DY:42:VAL:O	57:DY:65:ALA:N	2.39	0.48
46:DN:115:ARG:HA	46:DN:118:LYS:HE2	1.94	0.48
3:CC:28:GLN:O	3:CC:29:TYR:C	2.51	0.48
24:AY:346:LYS:O	24:AY:347:GLY:C	2.52	0.48
24:CY:97:SER:O	24:CY:100:VAL:HG12	2.12	0.48
38:BD:46:GLN:OE1	38:BD:46:GLN:N	2.46	0.48
37:DC:164:PHE:HB2	37:DC:172:ILE:HD11	1.96	0.48
58:DZ:8:TYR:CD1	58:DZ:8:TYR:N	2.81	0.48
35:BA:2531:A:H5''	42:BH:157:TYR:CZ	2.49	0.48
41:BG:40:ASN:ND2	41:BG:41:GLN:H	2.12	0.48
41:BG:53:LEU:HD22	41:BG:53:LEU:H	1.79	0.48
41:BG:67:LYS:HD3	41:BG:68:PRO:HD2	1.95	0.48
41:BG:71:THR:HG23	41:BG:90:LEU:N	2.29	0.48
24:CY:409:ILE:HD12	24:CY:654:GLY:HA2	1.96	0.48
35:DA:2051:A:H2'	35:DA:2578:G:O5'	2.13	0.48
24:AY:122:TRP:HD1	24:AY:123:ARG:N	2.12	0.48
53:DU:106:PHE:HA	53:DU:109:LEU:HD12	1.96	0.48
53:DU:79:PHE:HE2	53:DU:83:LEU:HD11	1.79	0.48
34:D9:3:VAL:O	34:D9:4:ARG:HB3	2.14	0.48
22:AW:60:A:H2'	22:AW:61:U:C5'	2.44	0.48
33:B8:21:LYS:HD3	33:B8:48:PHE:CE2	2.49	0.48
16:CP:59:TRP:O	16:CP:62:VAL:HG22	2.13	0.48
35:BA:84:A:H5''	57:BY:9:LYS:HZ3	1.75	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
57:BY:13:VAL:HG22	57:BY:73:ARG:O	2.14	0.48
38:BD:94:LEU:HD23	38:BD:95:LEU:N	2.29	0.48
24:CY:210:ARG:HG2	24:CY:210:ARG:NH1	2.25	0.48
37:DC:111:PHE:CE1	37:DC:137:LEU:HD13	2.37	0.48
1:CA:1237:C:H5''	1:CA:1238:A:C8	2.49	0.48
47:DO:61:VAL:N	47:DO:87:ILE:HD11	2.29	0.48
39:DE:117:MET:CA	39:DE:122:PHE:H	2.16	0.48
48:DP:83:VAL:HG13	48:DP:83:VAL:O	2.14	0.48
36:DB:40:U:H5''	36:DB:41:U:OP2	2.14	0.48
19:AS:19:VAL:CG1	19:AS:44:MET:HG2	2.43	0.48
35:BA:2723:C:H5''	50:BR:2:ARG:NH1	2.17	0.48
39:BE:51:PHE:CD1	39:BE:52:LEU:HD12	2.48	0.48
3:AC:82:GLU:N	3:AC:82:GLU:CD	2.68	0.48
2:AB:223:ILE:O	2:AB:226:ARG:N	2.44	0.48
1:AA:1325:C:C2	1:AA:1326:C:C5	3.02	0.48
18:CR:53:ARG:HH21	18:CR:59:SER:HA	1.79	0.48
46:DN:62:VAL:HG22	46:DN:66:LYS:CG	2.39	0.48
35:DA:1607:C:H5'	35:DA:1608:A:C8	2.49	0.48
52:DT:102:ILE:O	52:DT:106:SER:HB3	2.14	0.48
4:AD:187:ARG:HH11	4:AD:187:ARG:HG2	1.79	0.48
29:B4:21:VAL:O	29:B4:21:VAL:HG12	2.14	0.48
24:AY:154:GLN:CA	24:AY:158:GLY:HA2	2.43	0.48
1:AA:182:U:H3'	1:AA:183:G:C5'	2.44	0.48
1:CA:182:U:H3'	1:CA:183:G:C5'	2.44	0.48
55:DW:24:ILE:HG21	55:DW:36:LEU:HD21	1.95	0.48
35:DA:2463:C:C2'	35:DA:2464:C:H5'	2.43	0.48
35:BA:1576:U:H2'	35:BA:1577:C:C6	2.49	0.48
24:CY:573:HIS:HD2	24:CY:576:ASP:H	1.61	0.48
6:AF:97:PHE:O	18:AR:31:LEU:HD23	2.14	0.48
4:AD:165:MET:HE2	4:AD:176:LEU:CD2	2.44	0.48
18:CR:32:ARG:HA	18:CR:69:THR:HG21	1.95	0.48
50:DR:12:ARG:HH11	50:DR:12:ARG:CG	2.27	0.48
35:BA:64:A:H2'	35:BA:65:C:O4'	2.14	0.48
1:CA:1164:G:O2'	1:CA:1165:C:H5'	2.14	0.48
35:DA:64:A:H2'	35:DA:65:C:O4'	2.14	0.48
1:CA:1101:A:H4'	1:CA:1102:A:H4'	1.95	0.48
15:AO:39:LEU:CD1	15:AO:56:LEU:HB2	2.43	0.48
15:CO:23:GLY:O	15:CO:24:SER:O	2.32	0.48
42:BH:92:ILE:C	42:BH:94:TYR:H	2.12	0.48
1:AA:1376:U:H2'	1:AA:1377:A:C8	2.49	0.48
54:BV:5:VAL:HG23	54:BV:37:VAL:O	2.13	0.48
1:CA:265:G:H5'	17:CQ:64:PRO:O	2.14	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1829:A:N3	38:BD:15:PHE:HZ	2.10	0.48
35:BA:1367:A:C2'	35:BA:1368:G:H5'	2.42	0.48
35:BA:999:U:H5''	35:BA:1154:G:O6	2.14	0.48
18:AR:26:LEU:HD21	18:AR:42:ARG:NH1	2.29	0.48
13:CM:63:THR:CG2	13:CM:64:TRP:H	2.24	0.48
38:DD:211:ARG:O	38:DD:215:LEU:HG	2.13	0.48
35:DA:2602:A:H4'	35:DA:2603:G:C5'	2.43	0.48
35:DA:1441:G:O2'	35:DA:1442:G:H5'	2.14	0.48
48:DP:124:LYS:HD3	48:DP:143:GLY:CA	2.44	0.48
8:CH:6:ILE:N	8:CH:6:ILE:CD1	2.77	0.48
35:DA:654(P):C:H2'	35:DA:654(Q):C:O4'	2.13	0.48
1:AA:937:A:C2	1:AA:1379:G:O6	2.66	0.48
35:DA:1810:A:H2'	35:DA:1811:G:O4'	2.14	0.48
24:AY:523:PHE:CE1	24:AY:550:MET:SD	3.07	0.48
6:AF:15:ASP:C	6:AF:17:SER:H	2.17	0.48
7:AG:72:ARG:HG3	7:AG:73:MET:HG3	1.95	0.48
24:AY:73:PHE:CE2	24:AY:78:ARG:HB2	2.49	0.48
43:DJ:139:UNK:C	43:DJ:141:UNK:N	2.77	0.48
44:BK:18:THR:C	44:BK:20:ALA:H	2.18	0.48
1:CA:170:U:O2'	1:CA:171:A:H5'	2.14	0.48
1:CA:678:U:H2'	1:CA:679:C:C6	2.48	0.48
39:BE:201:THR:C	39:BE:202:LYS:HD2	2.35	0.48
1:AA:582:U:OP1	15:AO:68:ARG:NH2	2.47	0.48
16:CP:23:ASP:OD1	16:CP:24:ALA:N	2.47	0.48
42:DH:152:ARG:O	42:DH:153:LYS:C	2.53	0.47
48:DP:7:ARG:HG3	48:DP:7:ARG:HH11	1.79	0.47
41:BG:138:GLN:O	41:BG:144:ILE:HD13	2.14	0.47
35:BA:2051:A:H4'	39:BE:141:ILE:HD13	1.96	0.47
1:CA:430:A:OP2	4:CD:8:VAL:HG22	2.14	0.47
24:CY:609:GLU:HB2	24:CY:670:VAL:CG2	2.44	0.47
1:AA:408:A:OP1	4:AD:113:SER:OG	2.29	0.47
39:DE:132:HIS:CD2	39:DE:135:HIS:NE2	2.82	0.47
35:BA:1045:A:N3	35:BA:1047:G:N2	2.62	0.47
24:AY:420:ASP:OD2	24:AY:420:ASP:N	2.45	0.47
24:AY:422:GLU:O	24:AY:425:SER:N	2.47	0.47
35:BA:1484:G:H2'	35:BA:1485:G:H5''	1.95	0.47
48:DP:64:LYS:O	48:DP:64:LYS:HD3	2.14	0.47
58:BZ:151:HIS:CB	58:BZ:170:THR:HA	2.39	0.47
1:AA:1318:A:C2'	1:AA:1319:A:H5'	2.43	0.47
24:CY:181:LEU:HD13	24:CY:216:LEU:HD21	1.96	0.47
1:CA:1237:C:H3'	1:CA:1336:C:H41	1.79	0.47
12:AL:17:LYS:HD3	12:AL:18:VAL:N	2.29	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
51:BS:89:ARG:HG3	51:BS:92:TYR:HB3	1.94	0.47
31:D6:19:ARG:O	31:D6:20:ASN:C	2.52	0.47
24:CY:341:VAL:HG22	24:CY:350:GLU:HB2	1.95	0.47
35:BA:2584:U:O4'	35:BA:2584:U:O2	2.31	0.47
35:DA:651:G:C2'	35:DA:652:C:H5'	2.43	0.47
48:DP:83:VAL:HG13	48:DP:114:ILE:HA	1.96	0.47
35:BA:2206:G:N3	35:BA:2206:G:H3'	2.29	0.47
47:BO:17:ARG:O	47:BO:18:LYS:HG3	2.13	0.47
51:DS:74:ALA:HB2	51:DS:101:LEU:CD2	2.44	0.47
51:DS:74:ALA:HB3	51:DS:103:GLU:HG3	1.95	0.47
1:CA:108:G:N2	1:CA:109:A:C2	2.82	0.47
19:CS:43:GLU:HB2	19:CS:44:MET:SD	2.53	0.47
1:CA:392:G:H2'	1:CA:393:A:C8	2.48	0.47
1:CA:393:A:H5'	1:CA:483:C:O2'	2.14	0.47
39:BE:24:THR:CG2	39:BE:186:GLY:HA2	2.38	0.47
12:CL:41:ARG:HH11	12:CL:41:ARG:CB	2.18	0.47
35:DA:2884:U:H2'	35:DA:2885:C:H5'	1.96	0.47
35:DA:1971:A:N3	38:DD:240:ALA:HA	2.29	0.47
4:CD:194:LEU:HB3	4:CD:196:LEU:CD1	2.37	0.47
39:DE:12:THR:O	39:DE:23:VAL:N	2.42	0.47
22:CW:10:G:O2'	22:CW:11:A:H5'	2.14	0.47
35:BA:797:C:P	40:BF:62:ARG:HG3	2.54	0.47
51:DS:97:ARG:O	51:DS:97:ARG:NE	2.47	0.47
35:BA:1528:A:H2'	35:BA:1528:A:N3	2.29	0.47
35:BA:2463:C:C2'	35:BA:2464:C:H5'	2.44	0.47
58:BZ:84:GLU:O	58:BZ:85:HIS:CB	2.55	0.47
35:BA:2170:A:H5''	37:BC:135:ARG:HE	1.79	0.47
20:AT:53:LEU:HB3	20:AT:102:GLY:HA3	1.96	0.47
35:DA:272(D):G:H1	35:DA:364:C:H42	1.62	0.47
51:DS:49:VAL:HG22	51:DS:80:LEU:HD12	1.95	0.47
35:DA:883:G:H2'	35:DA:884:C:O4'	2.14	0.47
1:CA:103:C:H3'	1:CA:104:G:C8	2.40	0.47
46:BN:18:ALA:O	46:BN:21:LYS:HB2	2.14	0.47
25:B0:77:ARG:NH2	35:BA:857:C:H5'	2.25	0.47
35:BA:2453:A:OP1	35:BA:2573:C:H5	1.96	0.47
57:DY:31:LEU:HD23	57:DY:36:ALA:H	1.79	0.47
36:BB:74:U:H2'	36:BB:75:G:H5'	1.96	0.47
35:BA:799:G:OP2	35:BA:800:A:H3'	2.13	0.47
1:CA:1152:A:OP1	10:CJ:68:HIS:HD2	1.97	0.47
24:AY:539:ILE:CA	24:AY:542:VAL:HG12	2.44	0.47
48:DP:70:GLN:OE1	48:DP:70:GLN:HA	2.12	0.47
2:AB:111:ARG:NH1	2:AB:111:ARG:HG2	2.29	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:BP:89:ALA:O	48:BP:121:LYS:HD2	2.15	0.47
1:AA:475:G:O2'	1:AA:476:G:H5'	2.13	0.47
39:BE:16:ARG:NH1	39:BE:171:GLU:OE2	2.47	0.47
35:DA:709:U:H2'	35:DA:710:G:H8	1.77	0.47
41:DG:172:LEU:O	41:DG:176:LEU:HD12	2.14	0.47
35:DA:1064:C:H4'	44:DK:89:HIS:CD2	2.47	0.47
37:BC:225:ILE:HD12	37:BC:225:ILE:O	2.13	0.47
35:DA:654(P):C:H2'	35:DA:654(Q):C:C5'	2.44	0.47
6:AF:42:GLU:C	6:AF:44:GLY:N	2.68	0.47
1:AA:402:G:O2'	1:AA:403:C:H5'	2.14	0.47
35:BA:1472:A:H2'	35:BA:1473:G:C8	2.49	0.47
6:AF:91:VAL:CG1	6:AF:92:LYS:N	2.76	0.47
35:BA:41:C:H42	35:BA:437:G:H1	1.62	0.47
1:AA:707:C:H4'	11:AK:20:TYR:CD1	2.49	0.47
4:CD:119:GLN:HG3	4:CD:123:HIS:NE2	2.28	0.47
14:CN:36:PHE:CD1	14:CN:36:PHE:C	2.88	0.47
57:BY:56:PRO:O	57:BY:57:GLN:HB2	2.14	0.47
20:AT:96:GLY:O	20:AT:97:ALA:O	2.31	0.47
52:DT:137:LYS:HG2	52:DT:138:ALA:N	2.30	0.47
1:AA:15:G:H4'	5:AE:24:ARG:NH1	2.29	0.47
11:CK:29:ILE:HB	11:CK:44:SER:HB2	1.96	0.47
43:BJ:125:UNK:C	43:BJ:127:UNK:N	2.76	0.47
36:BB:53:A:N3	36:BB:53:A:H2'	2.29	0.47
41:BG:114:ILE:O	41:BG:116:ASP:N	2.39	0.47
24:CY:460:GLU:O	24:CY:463:VAL:HB	2.14	0.47
24:AY:125:ALA:C	24:AY:127:LYS:H	2.17	0.47
24:AY:217:VAL:HG22	24:AY:242:LEU:HD21	1.95	0.47
9:CI:20:ARG:O	9:CI:59:PHE:HA	2.13	0.47
53:DU:90:VAL:HG13	54:DV:39:LEU:HG	1.95	0.47
54:DV:38:LEU:HD12	54:DV:56:SER:HA	1.96	0.47
24:AY:9:LEU:C	24:AY:11:ARG:N	2.65	0.47
46:BN:9:VAL:HG12	46:BN:10:GLU:H	1.77	0.47
54:BV:4:ILE:O	54:BV:4:ILE:HG22	2.13	0.47
35:BA:1708:C:O2'	35:BA:1709:U:H5'	2.14	0.47
19:CS:10:PHE:HZ	19:CS:70:LYS:HZ3	1.62	0.47
16:CP:32:TYR:O	16:CP:32:TYR:CD2	2.62	0.47
35:BA:925:C:C3'	35:BA:926:A:H5''	2.43	0.47
35:DA:2313:C:O2'	35:DA:2314:C:H5'	2.15	0.47
10:CJ:33:GLN:H	10:CJ:75:ILE:HD11	1.79	0.47
3:CC:90:GLU:C	3:CC:93:LYS:HB3	2.34	0.47
24:CY:74:TRP:CE2	24:CY:273:LEU:HB3	2.49	0.47
35:BA:2400:G:N2	35:BA:2417:C:C2	2.82	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
49:DQ:55:VAL:HG12	49:DQ:56:ARG:H	1.79	0.47
35:BA:25:U:H2'	35:BA:26:G:O4'	2.13	0.47
35:BA:1799:G:H5'	35:BA:1819:A:H61	1.79	0.47
35:DA:962:G:C2'	35:DA:963:U:H5'	2.43	0.47
53:DU:8:VAL:CG2	53:DU:12:ARG:HE	2.27	0.47
35:BA:2784:C:H1'	39:BE:37:ARG:HH12	1.78	0.47
48:DP:100:LEU:HD22	48:DP:100:LEU:N	2.29	0.47
33:B8:62:LEU:N	33:B8:63:PRO:HD2	2.29	0.47
39:BE:145:LYS:O	39:BE:148:GLY:N	2.47	0.47
10:CJ:54:PHE:O	10:CJ:55:LYS:C	2.53	0.47
27:B2:38:GLN:C	27:B2:40:SER:N	2.67	0.47
35:BA:614:U:H2'	35:BA:614(A):U:O4'	2.14	0.47
1:AA:1225:A:H5''	1:AA:1226:C:OP2	2.14	0.47
2:AB:82:ARG:HH11	2:AB:82:ARG:HG3	1.79	0.47
11:AK:125:PHE:N	11:AK:125:PHE:CD1	2.82	0.47
49:BQ:50:ALA:O	49:BQ:51:ARG:C	2.52	0.47
35:DA:1285:G:C2'	35:DA:1286:A:H5'	2.36	0.47
47:DO:19:ILE:HD12	47:DO:41:ALA:CB	2.45	0.47
4:AD:189:PRO:HB2	4:AD:194:LEU:CD2	2.43	0.47
57:BY:61:ILE:CG1	57:BY:62:GLU:N	2.77	0.47
58:BZ:81:ARG:O	58:BZ:81:ARG:HG3	2.14	0.47
25:B0:51:VAL:HG22	25:B0:81:VAL:CG2	2.44	0.47
27:B2:47:ASN:CB	35:BA:95:G:H1'	2.44	0.47
16:AP:13:HIS:C	16:AP:15:PRO:HD3	2.34	0.47
35:DA:1050:A:H2'	35:DA:1051:G:O4'	2.14	0.47
1:CA:1444:C:C2	1:CA:1445:C:C5	3.01	0.47
46:DN:65:LYS:CB	46:DN:69:GLN:HG3	2.41	0.47
24:CY:20:HIS:N	24:CY:121:VAL:HG11	2.29	0.47
35:DA:2223:G:H2'	35:DA:2224:G:H5'	1.96	0.47
35:DA:2593:U:C2	35:DA:2594:C:C5	3.02	0.47
55:BW:20:VAL:O	55:BW:23:LEU:N	2.46	0.47
24:AY:652:MET:HE2	24:AY:655:TYR:HB2	1.96	0.47
49:BQ:21:THR:CG2	49:BQ:101:ARG:HB2	2.44	0.47
38:DD:77:ALA:HB2	38:DD:97:TYR:CG	2.49	0.47
35:DA:2395:C:C2	35:DA:2396:G:C8	3.02	0.47
32:D7:5:TRP:CH2	35:DA:686:G:N7	2.82	0.47
51:BS:59:LYS:HG2	51:BS:60:GLY:H	1.79	0.47
1:AA:1292:U:H2'	1:AA:1293:G:H8	1.74	0.47
35:BA:385:C:O2	48:BP:71:VAL:HG21	2.14	0.47
35:DA:2735:G:H2'	35:DA:2736:G:C8	2.44	0.47
4:CD:36:ARG:HH11	4:CD:36:ARG:CG	2.27	0.47
24:AY:445:GLU:HA	24:AY:445:GLU:OE1	2.13	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:315:LYS:HD2	24:AY:317:MET:HG3	1.95	0.47
37:DC:185:LYS:CA	37:DC:185:LYS:HE3	2.44	0.47
35:BA:2860:A:H2'	35:BA:2861:G:H5'	1.95	0.47
35:BA:2704:C:O2'	35:BA:2705:A:H5'	2.14	0.47
1:AA:78:G:H1	1:AA:91:C:N4	2.12	0.47
58:DZ:89:PHE:CE1	58:DZ:96:VAL:HG21	2.48	0.47
1:AA:533:A:OP1	1:AA:533:A:H3'	2.15	0.47
34:B9:16:VAL:HA	34:B9:25:VAL:HG22	1.95	0.47
24:CY:288:PRO:HB3	24:CY:301:ILE:O	2.14	0.47
49:DQ:26:TYR:CE1	49:DQ:140:ALA:HB3	2.49	0.47
1:AA:930:C:O2'	1:AA:931:C:H5'	2.14	0.47
13:AM:72:ALA:O	13:AM:73:GLU:C	2.53	0.47
30:B5:22:HIS:CE1	35:BA:2624:G:H1'	2.49	0.47
35:DA:1445(A):C:H5'	35:DA:1446:C:OP2	2.14	0.47
38:DD:46:GLN:OE1	38:DD:46:GLN:N	2.48	0.47
41:BG:41:GLN:HB3	41:BG:43:LEU:CD2	2.44	0.47
24:CY:91:THR:O	24:CY:92:ILE:C	2.52	0.47
24:AY:139:MET:HE1	24:AY:146:LEU:HB2	1.96	0.47
24:AY:259:PHE:N	24:AY:259:PHE:CD1	2.81	0.47
58:DZ:166:SER:CB	58:DZ:168:GLU:N	2.76	0.47
53:DU:64:ARG:O	53:DU:65:ILE:C	2.53	0.47
53:DU:95:LEU:O	53:DU:98:LEU:HG	2.14	0.47
31:B6:6:ARG:O	31:B6:7:ILE:CB	2.62	0.47
31:B6:10:LEU:HB3	33:B8:34:TRP:CD1	2.49	0.47
58:DZ:9:TYR:HB3	58:DZ:35:ARG:HH22	1.78	0.47
1:CA:1318:A:C2'	1:CA:1319:A:H5'	2.44	0.47
57:DY:28:LYS:HE3	57:DY:30:VAL:HG22	1.95	0.47
57:DY:95:LYS:HD3	57:DY:100:ALA:CB	2.44	0.47
19:AS:58:VAL:O	19:AS:60:VAL:N	2.47	0.47
51:DS:12:PHE:CD1	51:DS:12:PHE:C	2.87	0.47
35:DA:2394:C:P	48:DP:63:PRO:HD2	2.54	0.47
10:CJ:32:ALA:N	10:CJ:78:ASN:HD21	2.11	0.47
30:D5:2:ALA:O	30:D5:3:LYS:HB3	2.13	0.47
51:BS:70:GLY:O	51:BS:72:ALA:N	2.47	0.47
31:D6:47:THR:CG2	31:D6:49:HIS:CE1	2.97	0.47
50:BR:83:ILE:O	50:BR:87:TYR:CE2	2.67	0.47
5:CE:119:LEU:N	5:CE:119:LEU:HD23	2.29	0.47
49:DQ:50:ALA:O	49:DQ:51:ARG:C	2.52	0.47
26:D1:76:ARG:HH22	26:D1:95:LEU:CG	2.27	0.47
35:DA:999:U:OP2	35:DA:1153:C:OP2	2.32	0.47
33:D8:62:LEU:N	33:D8:63:PRO:HD2	2.29	0.47
35:DA:2573:C:OP1	35:DA:2575:C:OP2	2.33	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2888:C:H2'	35:DA:2889:C:C6	2.48	0.47
19:AS:15:LEU:O	19:AS:19:VAL:HB	2.14	0.47
39:BE:110:GLY:O	50:BR:2:ARG:HD3	2.14	0.47
47:BO:17:ARG:HH21	47:BO:47:ILE:HD11	1.79	0.47
50:BR:96:ARG:O	50:BR:114:VAL:HA	2.14	0.47
30:B5:35:GLU:O	30:B5:36:CYS:CB	2.62	0.47
1:AA:1442:G:C5	1:AA:1442(B):A:C2	3.02	0.47
52:BT:118:ARG:HA	52:BT:121:ILE:HD12	1.96	0.47
35:BA:1658:C:O5'	35:BA:1658:C:H6	1.97	0.47
29:B4:43:TYR:HD2	29:B4:44:THR:HG23	1.79	0.47
22:AW:29:C:O2'	22:AW:30:G:H5'	2.14	0.47
11:CK:125:PHE:CD1	11:CK:125:PHE:N	2.83	0.47
1:CA:392:G:H2'	1:CA:393:A:H8	1.79	0.47
26:B1:51:VAL:O	26:B1:58:ILE:HG22	2.14	0.47
36:BB:86:G:C6	36:BB:92:C:N3	2.82	0.47
42:DH:72:ILE:O	42:DH:75:ALA:N	2.47	0.47
24:CY:532:GLY:C	24:CY:534:ILE:N	2.67	0.47
39:BE:15:PHE:CE2	52:BT:80:SER:HB2	2.49	0.47
58:BZ:108:PRO:HB3	58:BZ:141:VAL:HG12	1.95	0.47
38:BD:26:LYS:O	38:BD:27:THR:HB	2.13	0.47
9:AI:5:TYR:CG	9:AI:6:GLY:N	2.82	0.47
24:CY:5:VAL:CG1	24:CY:6:GLU:H	2.22	0.47
9:CI:79:LEU:O	9:CI:80:GLY:C	2.51	0.47
40:DF:156:LEU:HD21	40:DF:163:VAL:HG12	1.95	0.47
11:AK:34:ASP:CB	11:AK:35:PRO:CD	2.93	0.47
1:AA:1268:A:H2'	1:AA:1269:A:C8	2.48	0.47
35:BA:883:G:H2'	35:BA:884:C:O4'	2.14	0.47
4:AD:158:ILE:CG2	4:AD:162:LEU:HD12	2.43	0.47
1:AA:1368:G:OP2	9:AI:112:LYS:HD3	2.14	0.47
14:CN:48:ALA:HB2	14:CN:53:LEU:HD12	1.95	0.47
35:DA:2150:U:H2'	35:DA:2151:G:H8	1.79	0.47
3:AC:173:VAL:HG12	3:AC:175:LEU:CD1	2.44	0.47
1:CA:1354:C:H2'	1:CA:1355:G:H8	1.79	0.47
1:CA:360:A:O2'	1:CA:361:G:H5'	2.14	0.47
24:AY:610:VAL:HG23	24:AY:643:ILE:HB	1.95	0.47
37:DC:79:ALA:HB1	37:DC:83:LYS:HB2	1.95	0.47
24:AY:528:ALA:O	24:AY:568:TYR:HA	2.14	0.47
12:CL:117:ARG:O	12:CL:119:LYS:O	2.32	0.47
24:CY:427:ALA:HB1	24:CY:466:LEU:CD1	2.44	0.47
46:BN:125:GLY:CA	46:BN:126:PRO:O	2.62	0.47
48:BP:70:GLN:HA	48:BP:70:GLN:OE1	2.12	0.47
24:AY:637:ARG:O	24:AY:638:GLY:C	2.52	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
29:B4:39:CYS:O	29:B4:42:PHE:CE2	2.67	0.47
35:BA:1719:G:H2'	35:BA:1720:U:H5'	1.96	0.47
38:BD:229:VAL:HG23	38:BD:230:ASP:N	2.28	0.47
30:B5:16:ARG:HD2	30:B5:20:ARG:HH12	1.79	0.47
35:BA:1181:C:O2'	35:BA:1182:A:H5'	2.14	0.47
53:DU:70:ARG:NH2	53:DU:75:ASN:HB2	2.29	0.47
26:B1:18:ILE:HD11	26:B1:37:ILE:HG12	1.96	0.47
1:AA:936:C:H2'	1:AA:937:A:O4'	2.14	0.47
1:AA:17:U:H2'	1:AA:18:C:C6	2.49	0.47
39:BE:188:VAL:HG23	39:BE:189:PRO:HD2	1.97	0.47
24:AY:385:THR:OG1	24:AY:386:GLY:N	2.47	0.47
39:BE:103:ASP:OD2	39:BE:201:THR:HA	2.14	0.47
32:D7:16:HIS:ND1	35:DA:684:G:OP1	2.47	0.47
37:BC:164:PHE:HB2	37:BC:172:ILE:HD11	1.96	0.47
35:BA:2759:G:O2'	35:BA:2760:C:H5'	2.14	0.47
1:AA:1484:C:H2'	1:AA:1485:U:O4'	2.15	0.47
4:AD:74:GLN:HA	4:AD:77:ASN:HD22	1.78	0.47
11:AK:15:ALA:HA	11:AK:76:GLY:O	2.14	0.47
49:BQ:26:TYR:CE1	49:BQ:140:ALA:HB3	2.49	0.47
1:AA:502:G:OP1	12:AL:118:SER:HB3	2.14	0.47
1:CA:763:G:H2'	1:CA:764:C:H6	1.80	0.47
49:BQ:32:TYR:N	49:BQ:32:TYR:CD1	2.83	0.47
48:DP:17:LYS:O	48:DP:17:LYS:HG2	2.14	0.47
27:D2:27:GLU:O	27:D2:30:ARG:N	2.47	0.47
37:BC:85:LYS:O	37:BC:89:GLU:HG3	2.14	0.47
5:AE:122:GLU:O	5:AE:123:LEU:HD23	2.14	0.47
35:DA:2134:A:H2'	35:DA:2134:A:N3	2.29	0.47
41:BG:117:PHE:HE1	41:BG:120:LEU:N	2.12	0.47
1:CA:542:G:P	4:CD:10:ARG:HH21	2.38	0.47
4:CD:13:ARG:HD2	4:CD:38:TYR:O	2.14	0.47
4:CD:25:ARG:O	4:CD:28:SER:N	2.48	0.47
1:AA:509:A:N3	1:AA:509:A:H2'	2.30	0.47
4:AD:13:ARG:HD2	4:AD:38:TYR:O	2.15	0.47
24:CY:92:ILE:HG12	24:CY:405:PRO:HG2	1.91	0.47
24:CY:26:THR:HB	62:CY:703:GDP:O2A	2.14	0.47
40:BF:204:ASN:C	40:BF:206:ILE:H	2.17	0.47
24:AY:221:ALA:C	24:AY:223:PHE:H	2.18	0.47
54:DV:40:LEU:N	54:DV:40:LEU:HD22	2.29	0.47
54:DV:46:VAL:O	54:DV:47:VAL:HG13	2.15	0.47
54:BV:40:LEU:CA	54:BV:45:THR:HB	2.40	0.47
31:B6:27:LYS:HZ2	31:B6:30:THR:CB	2.27	0.47
35:DA:2334:G:C2	51:DS:15:ARG:NH1	2.83	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
31:D6:28:ARG:O	31:D6:32:ASN:HB2	2.14	0.47
31:D6:6:ARG:C	31:D6:8:LYS:H	2.15	0.47
41:DG:39:ILE:HD11	41:DG:92:VAL:HG23	1.95	0.47
35:DA:1899:G:N2	35:DA:1902:C:C4	2.80	0.47
57:BY:85:VAL:HG13	57:BY:93:GLY:O	2.13	0.47
30:D5:44:THR:CG2	30:D5:45:VAL:H	2.23	0.47
55:BW:88:ARG:CB	55:BW:92:ARG:HB3	2.44	0.47
41:BG:125:PHE:CE1	41:BG:131:TYR:HD1	2.32	0.47
24:CY:74:TRP:NE1	24:CY:273:LEU:HB3	2.29	0.47
50:BR:87:TYR:C	50:BR:89:ASP:N	2.66	0.47
8:CH:44:PHE:HE2	8:CH:109:ILE:CG2	2.28	0.47
24:AY:590:ILE:C	24:AY:592:GLU:H	2.18	0.47
35:BA:583:G:H2'	35:BA:584:C:H6	1.78	0.47
51:BS:36:TYR:HD1	51:BS:36:TYR:N	2.12	0.47
44:BK:6:ALA:CB	44:BK:30:HIS:HE1	2.28	0.47
51:DS:70:GLY:C	51:DS:72:ALA:N	2.68	0.47
51:DS:85:VAL:HG23	51:DS:106:ARG:CG	2.42	0.47
35:DA:544:G:H21	35:DA:547:A:H2'	1.79	0.47
1:AA:736:C:H2'	1:AA:737:A:H8	1.77	0.47
18:CR:59:SER:H	18:CR:62:GLU:CB	2.25	0.47
49:DQ:43:THR:HB	49:DQ:45:GLN:HE21	1.80	0.47
2:AB:22:LYS:HE2	2:AB:22:LYS:CA	2.36	0.47
44:DK:5:VAL:HG12	44:DK:59:ILE:HG23	1.96	0.47
24:AY:555:LEU:CD1	24:AY:599:PRO:HB2	2.43	0.47
52:BT:99:LEU:HB2	52:BT:101:PHE:HE1	1.80	0.47
10:CJ:69:ASN:O	10:CJ:70:ARG:HG3	2.15	0.47
6:CF:43:LEU:H	6:CF:43:LEU:CD1	2.20	0.47
24:CY:491:VAL:CG2	24:CY:597:GLY:HA2	2.44	0.47
24:CY:510:VAL:HG11	24:CY:567:LEU:HD13	1.95	0.47
35:BA:1675:C:O2	39:BE:129:HIS:HA	2.14	0.47
24:CY:286:ILE:HD12	24:CY:286:ILE:N	2.29	0.47
35:BA:1336:A:O2'	35:BA:1337:G:H5'	2.14	0.47
32:B7:41:ARG:NH2	35:BA:460:A:OP1	2.48	0.47
39:DE:93:VAL:C	39:DE:95:ILE:N	2.67	0.47
9:CI:9:ARG:HG2	9:CI:14:VAL:HA	1.96	0.47
35:BA:1577:C:H2'	35:BA:1578:U:O4'	2.15	0.47
1:CA:608:A:O2'	1:CA:609:A:H5'	2.15	0.47
16:CP:15:PRO:O	16:CP:16:HIS:ND1	2.48	0.47
42:BH:146:ALA:O	42:BH:149:ARG:N	2.47	0.47
52:BT:128:GLU:OE2	52:BT:129:ARG:N	2.48	0.47
24:CY:121:VAL:HG23	24:CY:122:TRP:N	2.29	0.47
35:DA:750:A:C2	35:DA:753:C:C6	3.02	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1175:U:H4'	35:BA:1176:G:H5'	1.96	0.47
35:DA:848:G:C4	35:DA:933:A:H8	2.32	0.47
35:DA:1851:U:H2'	35:DA:1852:C:O4'	2.14	0.47
15:CO:9:GLN:O	15:CO:10:LYS:C	2.52	0.47
35:DA:177:G:H3'	35:DA:178:G:H8	1.79	0.47
35:BA:588:U:H2'	35:BA:589:C:H6	1.78	0.47
1:AA:881:G:P	12:AL:12:ARG:HH22	2.37	0.47
24:CY:168:ILE:HD11	24:CY:178:ILE:HD11	1.95	0.47
49:BQ:35:VAL:O	49:BQ:129:THR:HG22	2.15	0.47
1:CA:1134:G:N2	1:CA:1141:C:C2	2.83	0.47
35:BA:733:G:C6	35:BA:761:A:N7	2.83	0.47
35:DA:799:G:C3'	35:DA:800:A:H5''	2.43	0.47
10:AJ:22:LYS:HZ2	10:AJ:88:LEU:HD23	1.80	0.47
42:BH:89:ILE:O	42:BH:89:ILE:CG1	2.62	0.47
35:DA:1582:C:H2'	35:DA:1583:A:C8	2.43	0.47
35:BA:2794:C:H42	35:BA:2801(A):A:N6	2.11	0.47
22:AW:75:C:H5'	22:AW:75:C:C6	2.48	0.47
11:CK:23:ALA:O	11:CK:86:GLY:HA3	2.14	0.47
11:AK:24:SER:O	11:AK:88:GLY:HA2	2.14	0.47
3:CC:130:VAL:O	3:CC:134:ILE:HG13	2.14	0.47
1:CA:265:G:O2'	1:CA:266:G:H5'	2.14	0.47
24:CY:652:MET:HA	24:CY:652:MET:HE2	1.96	0.47
1:AA:1293:G:O2'	1:AA:1294:G:H5'	2.14	0.47
17:AQ:50:LYS:O	17:AQ:50:LYS:HG3	2.15	0.47
30:D5:16:ARG:NH1	30:D5:17:ASP:OD1	2.48	0.47
29:D4:39:CYS:O	29:D4:42:PHE:CE2	2.67	0.47
1:CA:164:U:H2'	1:CA:165:C:H6	1.79	0.47
33:D8:29:LYS:HD2	33:D8:44:LYS:CB	2.44	0.47
38:DD:28:GLU:HB2	38:DD:29:PRO:HD3	1.96	0.47
54:BV:2:PHE:O	54:BV:3:ALA:CB	2.63	0.47
37:BC:65:LEU:HD11	37:BC:162:ILE:HD13	1.96	0.47
24:AY:176:GLY:HA2	24:AY:187:THR:HA	1.95	0.47
37:BC:14:LYS:O	37:BC:15:VAL:HG13	2.14	0.47
35:BA:307:G:H21	35:BA:330:A:N6	2.13	0.47
2:AB:8:LYS:HB2	2:AB:9:GLU:OE2	2.14	0.47
19:AS:48:THR:HG22	19:AS:61:TYR:HD1	1.80	0.47
35:BA:1661:G:O2'	35:BA:1662:C:H5'	2.14	0.47
35:BA:809:G:O2'	35:BA:810:U:H5'	2.14	0.47
35:BA:2116:G:N7	35:BA:2117:A:C5	2.82	0.47
1:CA:417:C:H2'	1:CA:418:C:H6	1.79	0.47
37:DC:182:PRO:HD2	37:DC:185:LYS:HG2	1.96	0.47
17:AQ:45:HIS:CG	17:AQ:65:ILE:HD13	2.49	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
17:AQ:45:HIS:HB2	17:AQ:65:ILE:HD13	1.97	0.47
1:CA:603:U:H2'	1:CA:604:G:H8	1.78	0.47
25:D0:23:VAL:HG13	25:D0:38:VAL:HG22	1.97	0.47
44:BK:69:THR:C	44:BK:70:LYS:HE3	2.35	0.47
8:CH:19:VAL:CG2	8:CH:21:LYS:HE2	2.44	0.47
33:B8:39:LYS:HG3	33:B8:43:GLN:NE2	2.30	0.47
2:AB:109:SER:O	2:AB:112:VAL:HB	2.14	0.47
35:DA:1629:U:H2'	35:DA:1630:G:C8	2.50	0.47
35:DA:393:C:O2'	35:DA:394:A:H5'	2.13	0.47
35:DA:1288:U:H4'	35:DA:1289:C:OP2	2.14	0.47
22:CV:29:G:O2'	22:CV:30:G:H5'	2.15	0.47
18:CR:88:LYS:C	18:CR:88:LYS:HD3	2.34	0.47
2:CB:179:LYS:HG2	2:CB:179:LYS:O	2.14	0.47
6:AF:99:ALA:O	6:AF:100:ASN:HB2	2.14	0.47
6:CF:29:ALA:O	6:CF:31:GLU:N	2.48	0.47
7:AG:31:MET:SD	7:AG:36:LYS:HB2	2.53	0.47
24:CY:518:PRO:O	24:CY:519:ARG:C	2.52	0.47
40:BF:199:TRP:O	40:BF:202:PHE:HB3	2.14	0.47
24:AY:210:ARG:HG2	24:AY:210:ARG:HH11	1.79	0.47
53:DU:59:ARG:HG2	53:DU:59:ARG:NH1	2.26	0.47
35:DA:769:G:H5'	35:DA:1379:A:N6	2.30	0.47
24:AY:9:LEU:HD23	24:AY:10:LYS:N	2.28	0.47
24:AY:282:SER:O	24:AY:286:ILE:HD13	2.14	0.47
53:BU:47:TYR:O	53:BU:51:LYS:HG2	2.14	0.47
54:BV:39:LEU:HA	54:BV:47:VAL:CG1	2.44	0.47
9:AI:4:TYR:CE1	9:AI:88:TYR:CD2	3.03	0.47
31:B6:9:LEU:C	31:B6:9:LEU:HD22	2.34	0.47
58:DZ:39:VAL:O	58:DZ:40:ASP:C	2.52	0.47
35:DA:298:G:O5'	35:DA:298:G:H8	1.97	0.47
38:BD:34:VAL:O	38:BD:36:PRO:HG2	2.15	0.47
42:DH:13:LYS:C	42:DH:15:VAL:H	2.16	0.47
35:DA:272(J):C:H5'	35:DA:274:G:OP1	2.15	0.47
31:D6:11:LEU:HB3	31:D6:26:ASN:HD21	1.78	0.47
29:D4:7:PRO:HG2	41:DG:61:ALA:HB1	1.96	0.47
30:D5:3:LYS:CE	35:DA:2613:U:H2'	2.44	0.47
1:CA:1299:A:C2	1:CA:1301:U:N3	2.82	0.47
40:DF:10:PRO:HG2	40:DF:11:VAL:H	1.79	0.47
5:CE:78:HIS:HE1	5:CE:80:ILE:HG23	1.79	0.47
58:DZ:116:VAL:HG12	58:DZ:117:LEU:N	2.30	0.47
35:BA:582:G:C6	35:BA:1259:G:N1	2.83	0.47
22:CW:20:G:C5	35:DA:2169:A:H2	2.31	0.47
48:DP:33:ARG:O	48:DP:35:HIS:O	2.30	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:BP:83:VAL:HG13	48:BP:114:ILE:HA	1.96	0.47
39:DE:61:ARG:HG2	39:DE:62:PRO:CD	2.43	0.47
51:DS:104:GLY:O	51:DS:106:ARG:N	2.46	0.47
17:CQ:59:ILE:CG2	17:CQ:71:PHE:HB3	2.39	0.47
38:DD:161:THR:O	38:DD:162:SER:HB3	2.14	0.47
17:CQ:67:LYS:CA	17:CQ:70:ARG:HH12	2.24	0.47
15:AO:25:THR:O	15:AO:26:GLU:C	2.53	0.47
42:DH:46:GLU:HG2	42:DH:46:GLU:H	1.35	0.47
40:DF:68:LYS:HG3	40:DF:69:HIS:HD2	1.79	0.47
35:BA:979:G:N2	35:BA:985:C:N4	2.62	0.47
38:BD:24:ILE:CD1	38:BD:25:THR:H	2.22	0.47
1:AA:624:C:H2'	1:AA:625:G:C8	2.47	0.47
12:AL:6:THR:HG23	12:AL:9:GLN:NE2	2.21	0.47
35:BA:2656:U:N3	35:BA:2665:A:H2	2.12	0.47
35:DA:753:C:H2'	35:DA:754:C:C6	2.49	0.47
49:BQ:110:THR:CG2	49:BQ:113:GLN:HG3	2.44	0.47
1:AA:1352:C:OP1	21:AU:3:LYS:HE2	2.15	0.47
35:BA:1582:C:O2'	35:BA:1586:A:C8	2.66	0.47
35:DA:915:C:H2'	35:DA:916:G:H8	1.79	0.47
1:CA:59:A:H5''	1:CA:60:A:H5'	1.96	0.47
55:DW:14:PRO:CG	55:DW:78:GLU:HB2	2.44	0.47
3:CC:134:ILE:HD11	3:CC:153:VAL:CG2	2.43	0.47
16:AP:67:THR:HB	16:AP:70:ALA:HB2	1.97	0.47
1:CA:538:G:O2'	1:CA:539:A:H5'	2.14	0.47
57:BY:49:VAL:O	57:BY:51:VAL:HG23	2.15	0.47
35:BA:2552:U:H6	35:BA:2552:U:O5'	1.98	0.47
20:CT:33:ILE:HG21	20:CT:63:ILE:HG12	1.95	0.47
35:DA:1416:G:O2'	35:DA:1417:C:H5	1.97	0.47
35:BA:1050:A:H2'	35:BA:1051:G:O4'	2.14	0.47
8:CH:85:ARG:HG3	8:CH:85:ARG:HH11	1.80	0.47
35:DA:79:G:O2'	35:DA:80:G:H5'	2.14	0.47
35:BA:328:U:H4'	57:BY:68:HIS:NE2	2.29	0.47
35:BA:537:C:H2'	35:BA:538:G:C8	2.50	0.47
35:BA:1150:C:O2'	35:BA:1151:G:H5'	2.15	0.47
54:BV:88:ARG:O	54:BV:90:PRO:HD3	2.15	0.47
24:AY:198:GLU:O	24:AY:198:GLU:HG3	2.13	0.47
35:BA:2695:C:H2'	35:BA:2696:U:C6	2.49	0.47
35:BA:1166:C:H2'	35:BA:1167:U:C6	2.49	0.47
35:DA:2086:U:H2'	35:DA:2087:G:C8	2.50	0.47
1:AA:830:G:O2'	1:AA:831:U:H5'	2.14	0.47
35:DA:539:G:O2'	35:DA:540:C:H5'	2.14	0.47
1:CA:930:C:C2'	1:CA:931:C:H5'	2.45	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1310:G:H2'	35:BA:1311:G:H5'	1.96	0.47
1:AA:710:G:O2'	1:AA:711:G:H5'	2.14	0.47
8:AH:19:VAL:HG21	8:AH:21:LYS:HE2	1.96	0.47
9:AI:33:PHE:C	9:AI:35:GLU:H	2.18	0.47
35:BA:2314:C:C2'	35:BA:2315:G:H5'	2.45	0.47
41:BG:51:ARG:CZ	41:BG:53:LEU:HD21	2.44	0.47
10:AJ:6:ILE:HG13	10:AJ:72:VAL:O	2.14	0.47
37:BC:150:ILE:HG13	37:BC:154:ILE:HG13	1.96	0.47
35:DA:1658:C:O5'	35:DA:1658:C:H6	1.98	0.47
24:AY:106:VAL:CG2	24:AY:132:ARG:HG3	2.43	0.47
46:DN:2:LYS:HZ1	54:DV:12:TYR:HB3	1.80	0.47
41:BG:77:ILE:HG22	41:BG:77:ILE:O	2.14	0.47
61:AY:702:FUA:C20	61:AY:702:FUA:O1	2.62	0.47
31:B6:7:ILE:HG22	31:B6:7:ILE:O	2.13	0.47
35:BA:253:C:H2'	35:BA:254:G:O4'	2.15	0.47
1:CA:1221:G:P	19:CS:36:ARG:HD3	2.55	0.47
35:BA:363:G:H2'	35:BA:363(A):A:H8	1.78	0.47
35:DA:363:G:H2'	35:DA:363(A):A:H8	1.79	0.47
35:DA:253:C:H2'	35:DA:254:G:O4'	2.14	0.47
48:DP:67:MET:C	48:DP:68:GLN:HG3	2.35	0.47
52:BT:28:VAL:HG13	52:BT:46:GLU:CA	2.44	0.47
30:D5:44:THR:CG2	50:DR:101:ALA:N	2.78	0.47
5:AE:80:ILE:HD11	5:AE:138:ALA:HB1	1.97	0.47
3:CC:86:VAL:HG23	3:CC:87:LEU:HD23	1.96	0.47
35:BA:1263:U:H2'	35:BA:1264:G:C8	2.50	0.47
31:D6:42:TRP:HA	31:D6:42:TRP:HE3	1.78	0.47
3:CC:165:THR:O	3:CC:165:THR:HG23	2.15	0.47
40:BF:127:GLU:O	40:BF:127:GLU:OE2	2.32	0.47
38:DD:44:ASN:OD1	38:DD:44:ASN:N	2.46	0.47
44:DK:93:ARG:C	44:DK:93:ARG:HD2	2.34	0.47
35:DA:583:G:H2'	35:DA:584:C:H6	1.79	0.47
26:B1:90:ILE:O	26:B1:94:LEU:CD1	2.63	0.47
48:DP:102:ARG:HH21	48:DP:102:ARG:CB	2.27	0.47
48:DP:95:VAL:HA	48:DP:99:LEU:CD2	2.40	0.47
54:DV:15:GLU:O	54:DV:16:PRO:C	2.53	0.47
35:BA:2309:A:C2'	35:BA:2310:A:H5''	2.44	0.47
35:BA:2137:C:O2'	35:BA:2138:C:H5'	2.14	0.47
30:B5:48:GLU:O	30:B5:49:CYS:HB3	2.13	0.47
1:AA:965:A:C2	1:AA:969:A:C2	3.03	0.47
52:DT:55:ASN:ND2	52:DT:58:ASN:HD21	2.12	0.47
18:AR:53:ARG:C	18:AR:55:ARG:H	2.17	0.47
52:BT:64:ARG:HG2	52:BT:64:ARG:NH1	2.29	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:DH:68:THR:C	42:DH:70:THR:N	2.68	0.47
52:DT:50:ILE:HA	52:DT:99:LEU:HD11	1.97	0.47
58:BZ:107:THR:HG23	58:BZ:111:VAL:HB	1.96	0.47
1:AA:299:G:H2'	1:AA:300:A:H8	1.74	0.47
1:CA:182:U:H5'	1:CA:183:G:P	2.54	0.47
35:DA:2514:U:H2'	35:DA:2515:C:C6	2.39	0.47
13:AM:66:LEU:CD1	13:AM:66:LEU:N	2.69	0.47
11:AK:33:THR:HB	11:AK:38:ASN:O	2.14	0.47
35:DA:1053:C:H2'	35:DA:1054:A:C5'	2.41	0.47
9:AI:9:ARG:HG2	9:AI:14:VAL:HA	1.96	0.47
35:DA:548:A:N3	35:DA:548:A:H2'	2.29	0.47
28:D3:56:VAL:CG1	28:D3:57:GLU:H	2.22	0.47
35:BA:588:U:H1'	40:BF:90:PHE:HB3	1.96	0.47
49:BQ:12:GLN:HE21	49:BQ:72:LYS:HA	1.79	0.47
57:DY:58:GLY:O	57:DY:59:GLY:C	2.53	0.47
49:BQ:87:LYS:CG	49:BQ:88:GLY:H	2.26	0.47
35:BA:48:G:N2	35:BA:177:G:N2	2.62	0.47
22:AW:73:A:O2'	22:AW:74:A:O5'	2.27	0.47
35:DA:265:A:N6	35:DA:428:A:H1'	2.29	0.47
35:BA:1100:C:H2'	35:BA:1100:C:O2	2.13	0.47
35:DA:383:U:H2'	35:DA:385:C:H5	1.79	0.47
35:BA:2555:U:C2'	35:BA:2556:C:H5'	2.43	0.47
16:CP:67:THR:HG22	16:CP:68:ASP:N	2.30	0.47
54:DV:35:LEU:C	54:DV:37:VAL:H	2.18	0.47
43:BJ:69:UNK:O	43:BJ:70:UNK:C	2.62	0.47
43:BJ:71:UNK:C	43:BJ:72:UNK:O	2.62	0.47
37:DC:202:PRO:HB2	37:DC:205:ALA:HB2	1.96	0.47
40:BF:38:ARG:O	40:BF:42:ALA:CB	2.63	0.47
35:BA:783:A:H2'	35:BA:784:A:O5'	2.14	0.47
35:BA:1930:G:C2'	35:BA:1931:U:OP2	2.63	0.47
57:BY:54:LYS:HZ3	57:BY:55:TYR:HE2	1.63	0.47
6:CF:60:PHE:CE2	18:CR:78:LEU:HD21	2.50	0.47
8:AH:26:VAL:HG23	8:AH:27:PRO:HD2	1.96	0.47
42:DH:94:TYR:HA	42:DH:106:THR:O	2.14	0.47
35:BA:2602:A:H4'	35:BA:2603:G:C5'	2.44	0.47
24:CY:637:ARG:HG3	24:CY:642:VAL:HG21	1.97	0.47
46:DN:102:ALA:O	46:DN:106:MET:CE	2.62	0.47
1:CA:417:C:H2'	1:CA:418:C:C6	2.50	0.47
35:BA:2564:A:OP1	35:BA:2648:C:H4'	2.14	0.47
35:DA:41:C:H42	35:DA:437:G:H1	1.63	0.47
26:D1:20:ARG:NH1	26:D1:20:ARG:HG2	2.29	0.47
8:AH:34:GLU:HB3	8:AH:118:VAL:HG21	1.96	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2373:G:O2'	35:DA:2374:C:H5'	2.14	0.47
16:CP:1:MET:HG3	16:CP:65:GLN:HG3	1.97	0.47
44:DK:69:THR:C	44:DK:70:LYS:HE3	2.35	0.47
35:DA:1218:C:H2'	35:DA:1219:G:C8	2.50	0.47
35:BA:531:C:C5	35:BA:2035:G:C2	3.02	0.47
6:CF:50:TYR:CE1	18:CR:77:GLY:HA2	2.50	0.47
17:AQ:60:ILE:HG22	17:AQ:72:ARG:O	2.15	0.47
39:DE:103:ASP:OD2	39:DE:201:THR:HA	2.15	0.47
54:DV:69:LYS:HE3	54:DV:71:LEU:HD21	1.97	0.47
38:DD:224:ALA:O	38:DD:225:ALA:HB2	2.15	0.47
1:AA:495:A:H4'	1:AA:496:A:OP1	2.14	0.47
35:DA:1544:A:O2'	35:DA:1545:A:H5'	2.15	0.47
35:DA:641:C:H2'	35:DA:642:G:O4'	2.15	0.47
35:DA:381:G:O2'	35:DA:382:G:H5'	2.14	0.47
35:BA:1985:G:O2'	35:BA:1986:A:H5'	2.13	0.47
42:DH:175:LYS:O	42:DH:176:ALA:HB2	2.13	0.47
40:DF:3:GLU:CB	40:DF:24:LEU:HG	2.43	0.47
36:BB:40:U:O2'	36:BB:43:C:C5	2.67	0.47
41:BG:106:LEU:O	41:BG:111:LEU:HD12	2.14	0.47
41:BG:12:TYR:O	41:BG:16:ARG:HB2	2.14	0.47
30:B5:19:ARG:NH1	35:BA:1266:G:OP1	2.46	0.47
35:DA:2579:C:O3'	39:DE:131:ALA:HB2	2.14	0.47
10:CJ:5:ARG:HG3	10:CJ:71:LEU:HD11	1.96	0.47
24:AY:87:HIS:NE2	24:AY:120:THR:OG1	2.47	0.47
24:AY:121:VAL:CG2	24:AY:122:TRP:N	2.77	0.47
24:AY:139:MET:CE	24:AY:146:LEU:HB2	2.45	0.47
24:AY:122:TRP:CE2	24:AY:157:LEU:HD12	2.49	0.47
54:DV:39:LEU:HA	54:DV:47:VAL:HG11	1.96	0.47
46:DN:40:PRO:HB3	53:DU:68:ALA:HB2	1.97	0.47
54:BV:38:LEU:HD12	54:BV:56:SER:HA	1.95	0.47
53:BU:59:ARG:CG	53:BU:59:ARG:HH11	2.26	0.47
53:BU:79:PHE:HE2	53:BU:83:LEU:HD11	1.80	0.47
58:DZ:6:LYS:O	58:DZ:39:VAL:HG12	2.14	0.47
58:DZ:9:TYR:CD1	58:DZ:35:ARG:NH2	2.77	0.47
40:DF:167:ALA:C	40:DF:170:LEU:HD23	2.35	0.47
57:DY:13:VAL:CG2	57:DY:73:ARG:O	2.63	0.47
40:DF:167:ALA:O	40:DF:169:ASN:N	2.48	0.47
57:DY:37:VAL:HG23	57:DY:38:ILE:N	2.30	0.47
41:DG:111:LEU:HA	41:DG:114:ILE:HD11	1.96	0.47
41:DG:53:LEU:N	41:DG:53:LEU:HD22	2.30	0.47
41:DG:56:ALA:HA	41:DG:59:GLU:OE1	2.14	0.47
40:BF:167:ALA:O	40:BF:169:ASN:N	2.48	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
57:BY:95:LYS:CE	57:BY:101:LYS:H	2.27	0.47
1:CA:1004:A:H5'	1:CA:1025:U:C4	2.50	0.47
30:B5:10:LYS:HB2	35:BA:2017:U:O2	2.14	0.47
30:B5:11:THR:OG1	35:BA:1263:U:O3'	2.33	0.47
30:D5:3:LYS:CD	30:D5:5:PRO:HD2	2.40	0.47
30:D5:2:ALA:N	35:DA:2015:A:H1'	2.30	0.47
47:DO:107:ARG:HA	47:DO:112:MET:HE1	1.96	0.47
47:DO:60:ALA:CA	47:DO:87:ILE:HD11	2.44	0.47
31:B6:16:CYS:O	31:B6:17:LYS:C	2.53	0.47
31:D6:17:LYS:HB2	31:D6:44:ARG:NH1	2.27	0.47
46:DN:15:LEU:CD2	46:DN:53:VAL:HB	2.45	0.47
58:DZ:176:PRO:O	58:DZ:177:PRO:O	2.32	0.47
35:BA:1260:G:H2'	35:BA:1261:C:C6	2.50	0.47
24:AY:277:VAL:HG13	24:AY:278:ASP:H	1.79	0.47
28:D3:8:LEU:O	28:D3:31:LEU:HD22	2.15	0.47
3:AC:59:ARG:HG2	3:AC:64:VAL:HA	1.95	0.47
35:DA:585:G:H2'	35:DA:1251:C:H42	1.79	0.47
2:CB:126:GLU:O	2:CB:127:ILE:C	2.53	0.47
33:D8:4:MET:SD	33:D8:61:LEU:HD22	2.55	0.47
35:DA:1858:G:O2'	35:DA:1884:A:N6	2.48	0.47
35:BA:1783:A:C2	35:BA:2587:A:C4	3.01	0.47
48:DP:85:LEU:HA	48:DP:88:LEU:HB3	1.96	0.47
48:BP:83:VAL:O	48:BP:83:VAL:HG13	2.14	0.47
35:BA:624:C:H41	48:BP:107:LYS:HZ2	1.61	0.47
2:CB:207:ALA:O	2:CB:208:ILE:C	2.53	0.47
1:AA:255:G:O3'	17:AQ:17:LYS:HD2	2.15	0.47
26:D1:24:ALA:O	26:D1:27:GLU:O	2.33	0.47
49:DQ:3:MET:HG3	49:DQ:4:PRO:O	2.13	0.47
44:BK:112:MET:HE2	44:BK:120:LEU:HD21	1.95	0.47
44:BK:98:ARG:HD2	44:BK:139:VAL:HG22	1.97	0.47
2:AB:126:GLU:O	2:AB:127:ILE:C	2.53	0.47
35:DA:2886:G:H2'	35:DA:2887:U:C6	2.50	0.47
35:BA:2206:G:H21	35:BA:2207:G:H5'	1.78	0.47
39:BE:30:PRO:O	39:BE:32:PRO:HD3	2.14	0.47
39:BE:76:ARG:O	39:BE:77:ILE:O	2.32	0.47
2:AB:164:VAL:CG1	2:AB:165:VAL:N	2.78	0.47
41:DG:121:ASN:CG	41:DG:124:SER:HB2	2.35	0.47
41:DG:32:PRO:HB3	41:DG:163:ALA:HB2	1.97	0.47
51:DS:70:GLY:O	51:DS:72:ALA:N	2.48	0.47
51:DS:89:ARG:HG3	51:DS:92:TYR:N	2.30	0.47
58:DZ:16:SER:O	58:DZ:17:ALA:C	2.53	0.47
35:DA:2190:G:O2'	35:DA:2191:G:H5'	2.15	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AC:86:VAL:HG23	3:AC:87:LEU:HD23	1.97	0.47
9:AI:114:TYR:HD1	10:AJ:60:ARG:HG3	1.79	0.47
39:DE:111:ARG:CZ	50:DR:2:ARG:NH2	2.78	0.47
2:AB:77:ALA:O	2:AB:81:VAL:HG23	2.14	0.47
13:CM:79:LYS:HA	13:CM:82:MET:HG3	1.96	0.47
52:DT:29:ARG:HG2	52:DT:85:LYS:HA	1.96	0.47
35:DA:191:A:O2'	35:DA:192:C:H5'	2.15	0.47
5:AE:11:ILE:HD12	5:AE:31:LEU:HD13	1.96	0.47
2:CB:22:LYS:HE2	2:CB:22:LYS:CA	2.38	0.47
9:AI:95:LYS:NZ	9:AI:96:LEU:CD1	2.71	0.47
38:DD:145:VAL:HG12	38:DD:146:GLU:O	2.15	0.47
38:DD:145:VAL:CG1	38:DD:146:GLU:N	2.77	0.47
58:DZ:79:ARG:O	58:DZ:80:ARG:CB	2.62	0.47
24:CY:526:VAL:CG1	24:CY:566:THR:HG23	2.45	0.47
1:AA:1511:G:H2'	1:AA:1512:U:O4'	2.14	0.47
25:B0:12:ASN:O	25:B0:14:ARG:N	2.41	0.47
35:BA:2163:C:H2'	35:BA:2164:C:H5'	1.96	0.47
50:BR:3:HIS:O	50:BR:4:LEU:HB3	2.15	0.47
55:DW:66:GLU:HA	55:DW:69:LEU:CD1	2.44	0.47
35:BA:460:A:C2	35:BA:470:A:C4	3.03	0.47
1:AA:184:G:O2'	1:AA:185:A:H5'	2.14	0.47
39:BE:92:THR:OG1	39:BE:95:ILE:HD11	2.15	0.47
22:AV:36:U:O2	24:AY:502:GLY:HA2	2.15	0.47
30:D5:58:LEU:HD13	30:D5:58:LEU:C	2.34	0.47
37:BC:29:LEU:O	37:BC:31:LYS:N	2.48	0.47
20:CT:103:GLY:O	20:CT:104:LEU:C	2.52	0.47
40:DF:74:ARG:O	40:DF:75:HIS:CG	2.68	0.47
15:CO:55:GLY:O	15:CO:56:LEU:C	2.53	0.47
35:BA:2148:G:O2'	35:BA:2149:G:H5'	2.14	0.47
34:B9:29:ASN:O	34:B9:31:LYS:N	2.47	0.47
7:CG:75:VAL:HG21	7:CG:144:MET:HB3	1.96	0.47
30:B5:58:LEU:HD13	30:B5:58:LEU:C	2.35	0.47
58:DZ:102:LEU:HD21	58:DZ:124:ILE:HD11	1.93	0.47
3:AC:173:VAL:N	3:AC:174:PRO:HD3	2.29	0.47
49:DQ:35:VAL:O	49:DQ:129:THR:HG22	2.14	0.47
49:DQ:12:GLN:HE21	49:DQ:72:LYS:HA	1.79	0.47
24:AY:514:VAL:HG21	24:AY:593:ALA:HB1	1.94	0.47
55:BW:107:LEU:HD22	55:BW:107:LEU:N	2.28	0.47
35:DA:849:A:C8	35:DA:850:C:C5	3.02	0.47
24:AY:601:ILE:O	24:AY:601:ILE:HG22	2.15	0.47
12:CL:86:ARG:HH22	12:CL:99:HIS:CD2	2.33	0.47
35:BA:2223:G:H2'	35:BA:2224:G:H5'	1.95	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1125:U:H2'	1:AA:1126:U:H2'	1.97	0.47
1:AA:1353:G:H2'	1:AA:1354:C:H6	1.80	0.47
35:BA:1683:C:H2'	35:BA:1684:C:H6	1.79	0.47
16:AP:54:GLU:OE2	16:AP:54:GLU:HA	2.13	0.47
36:BB:95:C:O2'	36:BB:96:U:H5'	2.15	0.47
38:BD:77:ALA:HB2	38:BD:97:TYR:CG	2.50	0.47
1:CA:1281:U:H5'	1:CA:1282:C:OP2	2.15	0.47
35:DA:1582:C:O2'	35:DA:1583:A:H5'	2.15	0.47
36:DB:20:C:C2'	36:DB:21:G:C5'	2.92	0.47
1:CA:473:G:H2'	1:CA:474:G:C8	2.46	0.47
1:CA:475:G:O2'	1:CA:476:G:H5'	2.15	0.47
24:CY:427:ALA:HB1	24:CY:466:LEU:HG	1.97	0.47
46:BN:126:PRO:O	46:BN:127:ASP:CB	2.62	0.47
17:CQ:50:LYS:HG3	17:CQ:50:LYS:O	2.13	0.47
35:DA:825:C:C2'	35:DA:826:U:H5'	2.45	0.47
24:CY:343:ASN:ND2	24:CY:343:ASN:C	2.67	0.47
1:CA:657:G:O2'	1:CA:658:G:H5'	2.14	0.47
22:CW:52:C:C2'	22:CW:53:G:H5''	2.45	0.47
35:BA:1064:C:H42	35:BA:1074:G:H1	1.62	0.47
1:AA:824:C:H2'	1:AA:825:G:C8	2.46	0.47
38:BD:28:GLU:HB2	38:BD:29:PRO:HD3	1.96	0.47
37:BC:73:VAL:O	37:BC:73:VAL:HG13	2.15	0.47
33:B8:42:ARG:HH11	35:BA:2350:C:H5	1.63	0.47
35:DA:328:U:H4'	57:DY:68:HIS:NE2	2.29	0.47
1:AA:1414:U:H2'	1:AA:1415:G:C8	2.49	0.47
24:AY:603:GLU:C	24:AY:676:TYR:HD1	2.18	0.47
36:BB:54:G:H2'	36:BB:55:U:H6	1.80	0.47
44:DK:18:THR:C	44:DK:20:ALA:H	2.18	0.47
22:AV:73:A:O3'	22:AV:74:C:C6	2.68	0.47
1:CA:1428:A:H2'	1:CA:1429:C:C6	2.49	0.47
46:DN:99:LEU:C	46:DN:99:LEU:HD13	2.35	0.47
35:BA:1808:U:H2'	35:BA:1809:A:O4'	2.15	0.47
2:CB:60:ASP:O	2:CB:64:ARG:NE	2.48	0.47
55:BW:41:LYS:C	55:BW:43:GLY:H	2.18	0.47
37:DC:11:LEU:C	37:DC:13:GLU:N	2.66	0.47
17:CQ:45:HIS:HB2	17:CQ:65:ILE:HD13	1.97	0.47
50:DR:65:LEU:O	50:DR:65:LEU:HD12	2.14	0.47
38:BD:108:PRO:HB3	38:BD:143:HIS:CE1	2.50	0.47
9:CI:63:ILE:HG22	9:CI:64:THR:N	2.28	0.47
58:BZ:27:VAL:N	58:BZ:37:VAL:HG22	2.29	0.47
8:AH:19:VAL:CG2	8:AH:21:LYS:HE2	2.44	0.47
49:DQ:17:LEU:C	49:DQ:18:LYS:HD2	2.35	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1534:U:H2'	35:DA:1535:A:O4'	2.13	0.47
1:CA:830:G:O2'	1:CA:831:U:H5'	2.14	0.47
35:BA:1771:C:H2'	35:BA:1772:G:C8	2.49	0.47
49:DQ:32:TYR:N	49:DQ:32:TYR:CD1	2.82	0.47
2:CB:53:ARG:O	2:CB:53:ARG:HG2	2.15	0.47
1:AA:341:C:C2	1:AA:349:A:C2	3.03	0.47
53:DU:39:LEU:O	53:DU:40:PHE:C	2.52	0.47
1:CA:337:C:H2'	1:CA:338:A:H8	1.79	0.47
35:BA:1534:U:H2'	35:BA:1535:A:O4'	2.14	0.47
17:CQ:40:LYS:HD3	17:CQ:42:TYR:OH	2.15	0.47
35:BA:112:U:C2'	35:BA:113:G:H5'	2.45	0.47
22:AV:59:A:H2'	22:AV:60:U:H5'	1.97	0.47
4:CD:43:HIS:O	4:CD:45:GLN:N	2.48	0.47
24:AY:541:ALA:HB2	24:AY:579:GLU:HG3	1.96	0.47
14:AN:8:GLU:O	14:AN:11:LYS:HB2	2.14	0.47
52:DT:48:ILE:HD12	52:DT:48:ILE:N	2.30	0.47
1:AA:25:C:H2'	1:AA:26:A:C8	2.49	0.47
38:BD:55:GLY:O	38:BD:216:GLY:HA2	2.15	0.47
42:BH:157:TYR:CE1	42:BH:171:LEU:HD21	2.23	0.47
29:B4:26:SER:HB3	41:BG:105:LYS:NZ	2.30	0.47
41:BG:110:ALA:O	41:BG:111:LEU:C	2.53	0.47
10:AJ:4:ILE:HB	10:AJ:74:ILE:HG13	1.96	0.47
10:AJ:6:ILE:HG22	10:AJ:98:ILE:CD1	2.37	0.47
39:BE:119:ARG:HD2	39:BE:120:TRP:CE2	2.49	0.47
4:AD:22:LYS:O	4:AD:113:SER:HB3	2.15	0.47
40:BF:185:ASP:HA	40:BF:188:ARG:HD3	1.95	0.47
35:DA:1155:A:O3'	53:DU:55:ARG:NH1	2.48	0.47
35:DA:1378:A:HO2'	35:DA:1379:A:H5''	1.72	0.47
35:DA:2476:A:C2	35:DA:2477:C:C6	3.03	0.47
53:BU:90:VAL:HG13	54:BV:39:LEU:HG	1.96	0.47
35:DA:925:C:C4	35:DA:926:A:N7	2.83	0.47
31:B6:11:LEU:HB3	31:B6:26:ASN:HD21	1.79	0.47
41:DG:46:ALA:HA	41:DG:51:ARG:HB2	1.97	0.47
35:BA:1902:C:H4'	38:BD:244:ARG:CB	2.44	0.47
31:B6:47:THR:CG2	31:B6:49:HIS:CE1	2.97	0.47
46:DN:134:ARG:HG3	46:DN:134:ARG:O	2.15	0.47
12:AL:70:ILE:HG21	12:AL:77:LEU:HD12	1.96	0.47
39:BE:38:THR:CG2	39:BE:40:GLU:HB2	2.45	0.47
26:B1:87:PRO:HG2	26:B1:88:LYS:H	1.80	0.47
26:B1:81:LYS:NZ	35:BA:271(H):G:O3'	2.29	0.47
1:CA:189(C):C:H2'	1:CA:189(D):C:O4'	2.15	0.47
2:CB:77:ALA:HA	2:CB:80:ILE:HD13	1.96	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:DN:45:ASN:N	46:DN:45:ASN:ND2	2.56	0.47
35:DA:2745:C:C4	35:DA:2746:U:C4	3.03	0.47
2:AB:126:GLU:O	2:AB:129:GLU:OE2	2.33	0.47
35:BA:2888:C:H2'	35:BA:2889:C:C6	2.49	0.47
29:B4:50:VAL:O	29:B4:51:ASP:CB	2.62	0.47
35:BA:946:G:H2'	35:BA:947:G:H8	1.80	0.47
51:DS:33:LYS:HG2	51:DS:34:HIS:CD2	2.49	0.47
29:D4:14:ILE:O	29:D4:15:ILE:HD13	2.15	0.47
29:D4:12:ALA:HB2	29:D4:29:PRO:HA	1.97	0.47
54:DV:19:LYS:HE2	54:DV:19:LYS:HA	1.96	0.47
39:BE:14:ILE:HD11	39:BE:173:VAL:HG11	1.96	0.47
39:BE:6:GLY:HA2	39:BE:27:LEU:O	2.15	0.47
50:DR:118:GLU:HA	50:DR:118:GLU:OE1	2.15	0.47
52:BT:102:ILE:HB	52:BT:110:ILE:HD12	1.96	0.47
3:CC:151:VAL:CG1	3:CC:152:ILE:N	2.77	0.47
39:BE:174:ASP:OD2	39:BE:175:VAL:N	2.48	0.47
35:BA:1436:G:H1'	35:BA:1477:A:O2'	2.15	0.47
1:CA:1123:A:H61	1:CA:1149:C:N4	2.13	0.47
35:BA:1052:C:P	35:BA:1052:C:O4'	2.73	0.47
19:AS:6:LYS:CD	19:AS:6:LYS:H	2.28	0.47
49:BQ:24:GLY:CA	49:BQ:67:ARG:HH12	2.28	0.47
35:BA:654(R):C:O2'	35:BA:654(S):G:H8	1.98	0.47
35:BA:286:C:H2'	35:BA:287:C:H6	1.77	0.47
24:CY:290:LYS:HB3	24:CY:298:VAL:CG2	2.44	0.47
35:DA:2199:A:H3'	35:DA:2200:C:C6	2.48	0.47
35:DA:754:C:H2'	35:DA:755:C:C6	2.50	0.47
24:AY:432:ALA:HA	24:AY:438:PHE:CZ	2.50	0.47
1:CA:631:G:C2'	1:CA:632:A:C8	2.94	0.47
35:DA:654(S):G:C5	35:DA:654(T):C:H1'	2.50	0.47
1:CA:470:C:C2'	1:CA:471:G:OP1	2.63	0.47
35:BA:733:G:O6	35:BA:761:A:C8	2.68	0.47
24:AY:495:GLY:O	24:AY:510:VAL:N	2.43	0.47
35:BA:775:G:O6	35:BA:787:U:H2'	2.14	0.47
13:CM:37:THR:HG21	13:CM:56:LEU:HA	1.96	0.47
24:CY:421:GLN:O	24:CY:424:LEU:HB3	2.15	0.47
11:AK:107:SER:C	11:AK:108:ILE:HD12	2.35	0.47
1:AA:1231:G:C2'	1:AA:1232:U:H5'	2.45	0.47
35:BA:1115:G:C8	35:BA:1115:G:H5'	2.47	0.47
22:CW:62:C:O2'	22:CW:63:C:H5'	2.14	0.47
35:DA:2203:U:H1'	38:DD:151:LYS:HE3	1.97	0.47
1:CA:189(A):C:H2'	1:CA:189(B):C:C6	2.49	0.47
35:BA:1064:C:H5''	44:BK:86:LYS:HB2	1.97	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1774:C:H6	35:DA:1774:C:O5'	1.97	0.47
54:BV:32:THR:HG22	54:BV:33:VAL:N	2.30	0.47
56:BX:90:GLU:HA	56:BX:93:GLU:HG2	1.96	0.47
1:CA:1082:G:C2'	1:CA:1083:U:H5'	2.45	0.47
13:AM:63:THR:CG2	13:AM:64:TRP:H	2.24	0.47
1:AA:201:C:C2'	1:AA:202:U:H5''	2.44	0.47
1:AA:37:U:O2'	1:AA:500:G:H4'	2.15	0.47
57:BY:68:HIS:CB	57:BY:71:LYS:HZ3	2.27	0.47
17:AQ:51:TYR:CZ	17:AQ:73:VAL:HG11	2.50	0.47
6:CF:21:LEU:O	6:CF:24:GLU:HB3	2.14	0.47
7:CG:18:TYR:HD2	7:CG:59:LEU:HD13	1.79	0.47
1:CA:452:A:H4'	16:CP:72:ARG:CZ	2.44	0.47
18:CR:66:LEU:HG	18:CR:70:ILE:CD1	2.44	0.47
1:CA:636:U:H2'	1:CA:637:G:H8	1.80	0.47
35:DA:325:G:O2'	35:DA:326:G:H5'	2.14	0.47
4:AD:112:VAL:HG12	4:AD:116:GLN:OE1	2.13	0.47
35:BA:112:U:H2'	35:BA:113:G:H5'	1.96	0.47
14:CN:8:GLU:O	14:CN:11:LYS:HB2	2.15	0.47
37:DC:156:GLU:OE1	37:DC:161:ARG:HD3	2.15	0.47
34:D9:16:VAL:HA	34:D9:25:VAL:HG22	1.97	0.47
35:BA:76:C:O2'	35:BA:77:C:H5'	2.14	0.47
38:DD:99:ASP:C	38:DD:99:ASP:OD2	2.53	0.47
24:CY:346:LYS:NZ	24:CY:384:ILE:HD11	2.29	0.47
45:BL:89:UNK:O	45:BL:94:UNK:N	2.48	0.47
35:DA:1241:A:H2'	35:DA:1242:A:O4'	2.15	0.47
40:DF:36:VAL:O	40:DF:39:TRP:HB3	2.15	0.47
10:AJ:4:ILE:HB	10:AJ:74:ILE:CD1	2.45	0.47
35:BA:769:G:H4'	35:BA:1379:A:N1	2.30	0.47
4:AD:18:LYS:O	4:AD:19:LEU:HD12	2.15	0.47
24:CY:454:MET:N	24:CY:458:HIS:HD2	2.12	0.47
61:CY:702:FUA:C31	61:CY:702:FUA:O4	2.62	0.47
24:AY:17:ILE:HG22	24:AY:25:LYS:HG2	1.96	0.47
24:AY:202:PRO:O	24:AY:203:GLU:C	2.53	0.47
46:BN:2:LYS:HZ1	54:BV:12:TYR:HB3	1.79	0.47
53:BU:97:ASP:C	53:BU:99:ALA:H	2.19	0.47
54:BV:39:LEU:HA	54:BV:47:VAL:HG11	1.95	0.47
12:AL:59:ARG:CZ	24:AY:422:GLU:OE2	2.62	0.47
31:B6:6:ARG:C	31:B6:7:ILE:CD1	2.83	0.47
33:B8:55:ALA:O	33:B8:59:LYS:HE2	2.15	0.47
35:BA:272(H):C:C2'	35:BA:272(I):U:H5''	2.42	0.47
58:BZ:96:VAL:HG22	58:BZ:97:GLU:N	2.30	0.47
51:DS:14:VAL:CG1	51:DS:16:ASN:HD22	2.28	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:DF:157:VAL:O	40:DF:157:VAL:HG23	2.15	0.47
33:D8:28:GLY:H	35:DA:2393:A:P	2.37	0.47
56:DX:28:PHE:CD1	56:DX:28:PHE:N	2.83	0.47
58:BZ:121:HIS:CD2	58:BZ:123:ASP:O	2.68	0.47
3:CC:72:LYS:HE3	3:CC:72:LYS:CA	2.45	0.47
35:DA:2056:G:N2	35:DA:2057:A:N9	2.63	0.47
35:DA:2170:A:H5''	37:DC:135:ARG:HE	1.80	0.47
31:B6:15:GLU:N	31:B6:49:HIS:CD2	2.83	0.47
5:CE:144:THR:O	5:CE:146:ALA:N	2.48	0.47
28:D3:7:LYS:HE3	28:D3:32:GLN:O	2.15	0.47
39:BE:37:ARG:HA	39:BE:42:ASP:OD2	2.15	0.47
46:BN:131:GLN:NE2	46:BN:133:GLN:N	2.63	0.47
46:BN:15:LEU:HB2	46:BN:134:ARG:HB2	1.97	0.47
48:DP:99:LEU:HG	48:DP:100:LEU:HD22	1.96	0.47
48:BP:112:LEU:HD22	48:BP:113:LYS:N	2.29	0.47
35:DA:2787:C:O2	39:DE:61:ARG:HD3	2.15	0.47
34:B9:17:ILE:HG22	34:B9:18:ARG:H	1.80	0.47
24:CY:632:LEU:CD1	24:CY:645:ALA:HA	2.44	0.47
30:B5:56:LYS:O	30:B5:57:VAL:O	2.32	0.47
39:BE:107:THR:HA	39:BE:163:GLU:O	2.15	0.47
1:AA:720:C:H6	1:AA:720:C:O5'	1.98	0.47
14:AN:41:ARG:CG	14:AN:41:ARG:NH1	2.78	0.47
22:CW:14:A:C4	22:CW:23:G:N2	2.83	0.47
24:AY:357:ARG:HH11	24:AY:373:ASP:CG	2.19	0.47
35:BA:1948:G:C5'	35:BA:1948:G:H8	2.28	0.47
58:DZ:163:LEU:CD2	58:DZ:163:LEU:H	2.24	0.47
35:DA:2762:G:H8	35:DA:2762:G:C5'	2.26	0.47
52:DT:30:VAL:HG21	52:DT:83:ILE:CG1	2.44	0.47
37:DC:150:ILE:O	37:DC:154:ILE:HG13	2.15	0.47
47:DO:22:ILE:O	47:DO:23:ARG:HB3	2.14	0.47
15:AO:74:ASP:C	15:AO:76:GLU:N	2.69	0.47
12:CL:41:ARG:NH1	12:CL:41:ARG:CB	2.78	0.47
44:DK:30:HIS:CG	44:DK:59:ILE:HB	2.50	0.47
52:BT:50:ILE:HA	52:BT:99:LEU:HD11	1.96	0.47
42:DH:138:LYS:C	42:DH:140:LYS:N	2.67	0.47
27:D2:61:LEU:HD12	35:DA:72:U:H6	1.77	0.47
35:DA:1336:A:O2'	35:DA:1337:G:H5'	2.15	0.47
3:CC:131:ARG:HH22	3:CC:168:ALA:HB2	1.78	0.47
35:BA:1539:G:N3	35:BA:1540:U:H1'	2.29	0.47
24:CY:226:ASN:C	24:CY:228:MET:N	2.67	0.47
12:AL:33:ARG:HG3	12:AL:60:LEU:HD12	1.96	0.47
42:BH:154:PRO:C	42:BH:156:ALA:H	2.18	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1115:C:H2'	1:AA:1116:C:H6	1.79	0.47
56:DX:7:VAL:HB	56:DX:8:ILE:HD12	1.96	0.47
35:BA:548:A:H2'	35:BA:548:A:N3	2.29	0.47
35:BA:363(F):A:H1'	35:BA:364:C:H5	1.79	0.47
35:BA:2223:G:C2'	35:BA:2224:G:H5'	2.44	0.47
38:BD:155:LEU:N	38:BD:155:LEU:CD1	2.77	0.47
24:CY:314:PHE:CZ	24:CY:327:PHE:HB3	2.50	0.47
20:AT:74:LYS:HB2	20:AT:75:ASN:H	1.47	0.47
24:CY:11:ARG:C	24:CY:12:LEU:HD22	2.36	0.47
1:CA:203:U:H5'	1:CA:216:G:N2	2.30	0.47
1:CA:1209:C:O2'	1:CA:1210:C:H5'	2.15	0.47
1:AA:98:G:H2'	1:AA:99:U:O4'	2.15	0.47
54:BV:2:PHE:HB3	54:BV:41:GLY:C	2.34	0.47
46:DN:14:VAL:HG11	46:DN:137:LYS:CD	2.45	0.47
7:AG:65:ALA:HA	7:AG:128:ALA:HA	1.96	0.47
57:BY:105:ALA:O	57:BY:106:LEU:HB2	2.15	0.47
6:CF:91:VAL:CG1	6:CF:92:LYS:N	2.77	0.47
43:DJ:8:UNK:C	43:DJ:10:UNK:N	2.78	0.47
35:DA:2704:C:H2'	35:DA:2705:A:O4'	2.15	0.47
24:AY:346:LYS:HE2	24:AY:384:ILE:HG12	1.97	0.47
35:BA:1805:U:H2'	35:BA:1806:C:H6	1.79	0.47
4:CD:74:GLN:HA	4:CD:77:ASN:HD22	1.79	0.47
43:DJ:95:UNK:C	43:DJ:97:UNK:N	2.78	0.47
9:AI:118:LYS:O	9:AI:119:ALA:HB3	2.14	0.47
35:DA:706:A:H2'	35:DA:707:G:O4'	2.15	0.47
35:DA:2759:G:O2'	35:DA:2760:C:H5'	2.14	0.47
44:DK:2:LYS:HB2	44:DK:2:LYS:NZ	2.30	0.47
25:B0:55:ARG:HB3	25:B0:55:ARG:HE	1.46	0.47
36:DB:51:G:H5'	36:DB:52:A:OP2	2.15	0.47
1:CA:142:G:H1	1:CA:221:C:H42	1.63	0.47
48:BP:32:THR:HG22	48:BP:37:GLY:HA2	1.97	0.47
35:BA:1132:A:H2'	35:BA:1133:U:H6	1.80	0.47
13:AM:61:GLU:OE2	41:BG:113:ARG:NH2	2.46	0.47
41:BG:29:TRP:O	41:BG:31:VAL:N	2.48	0.47
1:CA:509:A:H3'	1:CA:510:A:C8	2.50	0.47
4:CD:112:VAL:HG12	4:CD:116:GLN:OE1	2.14	0.47
1:CA:1490:C:C6	1:CA:1490:C:C5'	2.92	0.47
24:CY:459:LEU:HD12	24:CY:460:GLU:H	1.80	0.47
24:CY:457:LEU:O	24:CY:460:GLU:N	2.48	0.47
40:BF:176:LEU:HD11	40:BF:180:GLY:HA3	1.97	0.47
40:BF:205:ARG:O	40:BF:206:ILE:HD13	2.15	0.47
24:AY:139:MET:HG3	24:AY:260:LEU:HB2	1.97	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:119:GLU:OE1	24:AY:666:ARG:HG2	2.15	0.47
7:CG:82:GLY:HA3	23:CX:13:A:C2	2.48	0.47
53:DU:97:ASP:C	53:DU:99:ALA:H	2.18	0.47
38:DD:34:VAL:O	38:DD:36:PRO:HG2	2.15	0.47
31:B6:11:LEU:HD12	31:B6:25:LYS:HA	1.97	0.47
33:B8:51:ALA:HA	33:B8:54:GLU:CD	2.35	0.47
35:BA:2415:G:H2'	35:BA:2416:C:C6	2.50	0.47
42:BH:13:LYS:O	42:BH:15:VAL:N	2.37	0.47
41:DG:82:LEU:HD22	41:DG:87:PRO:HB3	1.96	0.47
1:AA:1220:G:H2'	1:AA:1221:G:C8	2.47	0.47
26:D1:44:PRO:O	35:DA:2230:G:H4'	2.15	0.47
24:CY:237:PRO:HB2	24:CY:242:LEU:HG	1.97	0.47
41:BG:157:ILE:CG2	41:BG:158:ALA:N	2.78	0.47
51:BS:25:ARG:CG	51:BS:26:LEU:N	2.78	0.47
46:DN:131:GLN:NE2	46:DN:133:GLN:N	2.62	0.47
46:DN:16:ILE:O	46:DN:54:VAL:HA	2.15	0.47
49:DQ:62:GLY:O	58:DZ:178:GLU:OE1	2.32	0.47
1:CA:1321:C:C5'	1:CA:1322:C:C5'	2.93	0.47
28:B3:7:LYS:HE3	28:B3:32:GLN:O	2.15	0.47
35:BA:154(A):C:H42	35:BA:172:C:N4	2.13	0.47
24:AY:409:ILE:HG22	24:AY:459:LEU:HD13	1.97	0.47
33:B8:6:THR:HG21	33:B8:63:PRO:HD3	1.95	0.47
48:BP:112:LEU:H	48:BP:128:HIS:HD2	1.61	0.47
44:BK:30:HIS:CG	44:BK:59:ILE:HB	2.50	0.47
44:BK:108:ALA:O	44:BK:112:MET:HB3	2.15	0.47
39:DE:36:ARG:NH2	39:DE:88:GLY:N	2.61	0.47
39:DE:69:LYS:HD3	39:DE:89:ASP:HA	1.97	0.47
35:BA:1022:G:O2'	35:BA:1023:U:P	2.72	0.47
51:DS:104:GLY:C	51:DS:106:ARG:N	2.66	0.47
10:AJ:50:ILE:N	10:AJ:50:ILE:HD13	2.16	0.47
1:CA:720:C:O5'	1:CA:720:C:H6	1.98	0.47
20:CT:11:SER:HA	20:CT:13:LEU:CD1	2.44	0.47
13:AM:86:CYS:HA	19:AS:73:GLU:O	2.15	0.47
2:AB:77:ALA:HA	2:AB:80:ILE:HD13	1.96	0.47
58:DZ:153:SER:HB2	58:DZ:163:LEU:HD11	1.95	0.47
35:BA:2762:G:H2'	35:BA:2763:G:H5'	1.97	0.47
41:BG:75:LYS:C	41:BG:76:SER:HG	2.15	0.47
1:AA:738:C:H2'	1:AA:739:C:H6	1.80	0.47
49:BQ:59:ARG:O	49:BQ:60:ARG:HB2	2.15	0.47
52:BT:7:ILE:O	52:BT:10:VAL:HB	2.14	0.47
10:AJ:61:GLU:HG3	14:AN:58:LYS:HZ3	1.80	0.47
10:AJ:63:PHE:HB3	14:AN:58:LYS:CA	2.41	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:CI:5:TYR:CG	9:CI:6:GLY:N	2.83	0.47
35:DA:2483:C:H5'	35:DA:2484:G:OP2	2.15	0.47
35:BA:2464:C:O2'	35:BA:2465:C:H6	1.97	0.47
37:DC:34:ALA:CB	37:DC:179:ALA:HB2	2.44	0.47
51:BS:42:ASP:O	51:BS:43:GLU:HB2	2.14	0.47
53:DU:110:VAL:HG12	53:DU:114:LYS:HD2	1.93	0.47
19:CS:6:LYS:HE3	19:CS:6:LYS:N	2.29	0.47
37:BC:29:LEU:CD2	37:BC:29:LEU:C	2.83	0.47
1:AA:1313:U:P	19:AS:6:LYS:HG3	2.55	0.47
52:DT:128:GLU:O	52:DT:129:ARG:HD3	2.15	0.47
38:BD:117:VAL:CG2	38:BD:118:VAL:N	2.78	0.47
35:BA:894:C:C2'	35:BA:895:U:H5'	2.45	0.47
24:CY:515:GLU:HG3	24:CY:564:LYS:HB3	1.97	0.47
46:BN:65:LYS:CB	46:BN:69:GLN:HG3	2.42	0.47
18:AR:31:LEU:N	18:AR:31:LEU:HD23	2.23	0.47
28:D3:43:ILE:O	28:D3:47:VAL:HG23	2.15	0.47
35:BA:2453:A:H2'	35:BA:2454:G:C8	2.48	0.47
28:B3:46:ASN:O	28:B3:49:LYS:N	2.47	0.47
57:DY:31:LEU:HD22	57:DY:31:LEU:H	1.77	0.47
57:BY:58:GLY:O	57:BY:59:GLY:C	2.54	0.47
35:DA:2543:G:H2'	35:DA:2544:G:C8	2.50	0.47
1:CA:355:C:C4	1:CA:356:A:N7	2.83	0.47
42:BH:89:ILE:HD12	42:BH:89:ILE:C	2.36	0.47
1:AA:1347:G:C2'	1:AA:1348:U:OP2	2.63	0.47
35:DA:1582:C:O2'	35:DA:1586:A:C8	2.66	0.47
16:AP:67:THR:N	16:AP:70:ALA:HB3	2.30	0.47
35:BA:2551:C:H2'	35:BA:2552:U:C6	2.51	0.47
35:BA:2552:U:C2	35:BA:2554:U:C5'	2.97	0.47
4:AD:133:VAL:HG12	4:AD:134:ASP:N	2.30	0.47
35:DA:1034:G:OP1	35:DA:1034:G:H8	1.98	0.47
35:BA:1491:G:O2'	38:BD:101:GLU:HB2	2.14	0.47
3:AC:112:SER:OG	3:AC:114:PRO:HD2	2.15	0.47
18:AR:79:LEU:HD22	18:AR:80:PRO:HD2	1.97	0.47
42:BH:70:THR:HG22	42:BH:74:ASN:ND2	2.30	0.47
20:AT:33:ILE:HG21	20:AT:63:ILE:HG12	1.97	0.47
1:CA:1253:G:C2	1:CA:1254:C:C2	3.02	0.47
1:CA:1422:G:H2'	1:CA:1423:G:C8	2.50	0.47
52:DT:134:GLU:O	52:DT:135:ALA:CB	2.62	0.47
19:CS:48:THR:HG22	19:CS:61:TYR:HD1	1.80	0.47
35:DA:2839:G:H2'	35:DA:2840:C:H6	1.79	0.47
35:BA:519:U:O2'	35:BA:520:G:H5'	2.15	0.47
10:CJ:90:LEU:H	10:CJ:91:PRO:HD3	1.80	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:635:GLU:HA	24:AY:636:PRO:HD2	1.74	0.47
35:BA:1416:G:O2'	35:BA:1417:C:H5	1.98	0.47
26:D1:4:VAL:HG22	26:D1:5:CYS:N	2.30	0.47
18:CR:26:LEU:HD21	18:CR:42:ARG:NH1	2.30	0.47
1:AA:1010:G:C6	1:AA:1020:U:H1'	2.50	0.47
24:AY:359:HIS:C	24:AY:361:ASN:H	2.18	0.47
50:BR:26:LYS:HE2	50:BR:71:GLN:H	1.79	0.47
8:CH:29:SER:OG	8:CH:32:LYS:HG3	2.15	0.47
31:D6:33:LYS:HG2	31:D6:34:LEU:H	1.80	0.47
35:BA:325:G:H2'	35:BA:326:G:H8	1.80	0.47
1:AA:1485:U:O2'	1:AA:1486:G:H5'	2.15	0.47
1:CA:830:G:H2'	1:CA:831:U:C6	2.50	0.47
38:DD:55:GLY:O	38:DD:216:GLY:HA2	2.15	0.47
24:CY:615:GLU:OE2	24:CY:666:ARG:NH2	2.48	0.47
1:CA:836:G:C6	1:CA:851:G:C6	3.03	0.47
1:AA:337:C:H2'	1:AA:338:A:H8	1.79	0.47
3:AC:69:HIS:HA	3:AC:104:GLN:HB2	1.97	0.47
35:DA:834:C:O2'	35:DA:835:A:H5'	2.15	0.47
1:AA:1440:C:H2'	1:AA:1441:G:H5'	1.96	0.47
35:DA:1688:U:O2	35:DA:1700:A:H5''	2.15	0.47
29:B4:1:MET:CE	41:BG:66:GLN:OE1	2.63	0.46
35:BA:2579:C:O3'	39:BE:131:ALA:HB2	2.15	0.46
35:DA:1326:U:H5''	35:DA:2011:U:H1'	1.96	0.46
4:CD:29:PRO:O	4:CD:30:LYS:CB	2.61	0.46
24:AY:182:ARG:HH11	24:AY:182:ARG:HG3	1.80	0.46
40:BF:3:GLU:CB	40:BF:24:LEU:HG	2.43	0.46
40:BF:2:LYS:CG	40:BF:25:PRO:HG2	2.45	0.46
53:DU:83:LEU:CD1	53:DU:83:LEU:N	2.73	0.46
53:BU:66:ASN:O	53:BU:68:ALA:N	2.48	0.46
35:BA:1045:A:O2'	35:BA:1047:G:C5	2.68	0.46
35:BA:2476:A:C2	35:BA:2477:C:C6	3.03	0.46
58:DZ:61:LEU:N	58:DZ:65:GLN:O	2.43	0.46
35:DA:345:A:O2'	35:DA:346:A:N7	2.47	0.46
16:CP:20:VAL:HG23	16:CP:34:GLU:O	2.15	0.46
57:BY:37:VAL:HG23	57:BY:38:ILE:N	2.30	0.46
40:DF:18:ARG:CZ	40:DF:199:TRP:CZ3	2.98	0.46
27:B2:69:ARG:HH12	35:BA:111:A:H5'	1.79	0.46
31:D6:9:LEU:HD13	31:D6:9:LEU:O	2.15	0.46
33:D8:48:PHE:HB3	33:D8:49:VAL:H	1.45	0.46
35:DA:2393:A:H5'	48:DP:60:MET:O	2.15	0.46
10:CJ:79:ARG:HH11	10:CJ:79:ARG:N	2.13	0.46
19:AS:5:LEU:HG	19:AS:10:PHE:HD1	1.80	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:CY:216:LEU:O	24:CY:220:ALA:N	2.46	0.46
30:B5:51:TYR:HD2	30:B5:52:TYR:H	1.62	0.46
47:DO:114:ILE:H	47:DO:114:ILE:CD1	2.22	0.46
24:CY:34:TYR:O	24:CY:38:ARG:HB2	2.15	0.46
31:D6:43:CYS:CB	31:D6:44:ARG:HH21	2.23	0.46
24:AY:74:TRP:NE1	24:AY:273:LEU:HB3	2.30	0.46
35:BA:271(J):C:C2'	35:BA:271(J):C:O2	2.63	0.46
46:BN:15:LEU:O	46:BN:136:GLU:HA	2.16	0.46
27:D2:69:ARG:HH22	35:DA:111:A:C4'	2.28	0.46
33:B8:4:MET:O	33:B8:62:LEU:CD1	2.60	0.46
48:BP:106:LEU:HD11	48:BP:112:LEU:HD23	1.97	0.46
35:BA:2305:A:H2'	35:BA:2306:C:O4'	2.15	0.46
35:BA:2820:A:HO2'	35:BA:2821:A:P	2.36	0.46
39:DE:68:ALA:O	39:DE:70:ALA:N	2.48	0.46
39:BE:68:ALA:HB3	39:BE:69:LYS:HE2	1.98	0.46
35:DA:2137:C:O2'	35:DA:2138:C:H5'	2.15	0.46
52:DT:118:ARG:HA	52:DT:121:ILE:CB	2.40	0.46
29:D4:14:ILE:HD13	29:D4:22:ILE:C	2.36	0.46
3:AC:78:GLY:HA3	3:AC:83:ARG:HB3	1.96	0.46
35:DA:2001:A:H4'	35:DA:2689:U:H2'	1.98	0.46
22:CW:8:U:H3	22:CW:14:A:H62	1.62	0.46
2:AB:86:GLU:C	2:AB:88:ALA:N	2.68	0.46
24:AY:289:ILE:CD1	24:AY:331:TYR:CZ	2.97	0.46
5:AE:53:LEU:O	5:AE:56:GLN:HB3	2.15	0.46
5:CE:8:GLU:HA	5:CE:34:VAL:HA	1.96	0.46
1:CA:965:A:C2	1:CA:969:A:N1	2.83	0.46
1:AA:738:C:H5''	6:AF:69:GLU:HB2	1.95	0.46
25:D0:51:VAL:HG22	25:D0:81:VAL:CG2	2.43	0.46
42:BH:41:MET:HE2	42:BH:42:ARG:C	2.36	0.46
30:D5:36:CYS:SG	30:D5:49:CYS:HB3	2.55	0.46
46:DN:87:LEU:O	46:DN:88:GLU:C	2.53	0.46
46:DN:90:MET:HB3	46:DN:98:VAL:HG22	1.97	0.46
26:D1:81:LYS:HZ3	35:DA:271(H):G:H5''	1.79	0.46
1:CA:1512:U:H2'	1:CA:1513:A:H8	1.80	0.46
52:DT:102:ILE:HB	52:DT:110:ILE:CD1	2.45	0.46
24:CY:530:VAL:HG13	24:CY:531:GLY:N	2.29	0.46
35:DA:797:C:P	40:DF:62:ARG:HG3	2.55	0.46
13:CM:22:ILE:HD12	13:CM:22:ILE:N	2.29	0.46
44:BK:93:ARG:HD2	44:BK:93:ARG:C	2.35	0.46
58:BZ:144:LEU:HD11	58:BZ:150:LEU:HD22	1.96	0.46
13:AM:22:ILE:N	13:AM:22:ILE:HD12	2.30	0.46
13:AM:45:VAL:HA	13:AM:48:LEU:CD1	2.45	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
19:CS:11:VAL:HG13	19:CS:11:VAL:O	2.16	0.46
10:AJ:61:GLU:HG3	14:AN:58:LYS:CE	2.45	0.46
35:DA:1448:G:N3	35:DA:1528(A):A:H2	2.13	0.46
10:CJ:61:GLU:HG3	14:CN:58:LYS:HZ3	1.80	0.46
1:CA:308:C:H2'	1:CA:309:G:H8	1.80	0.46
9:AI:10:ARG:CZ	9:AI:105:ASP:OD2	2.63	0.46
1:AA:1064:G:H21	1:AA:1190:G:H2'	1.78	0.46
35:DA:894:C:C2'	35:DA:895:U:H5'	2.46	0.46
49:DQ:21:THR:CG2	49:DQ:101:ARG:HB2	2.44	0.46
4:CD:165:MET:HE2	4:CD:176:LEU:CD2	2.46	0.46
49:BQ:12:GLN:HE21	49:BQ:73:PRO:CD	2.27	0.46
38:BD:77:ALA:HB2	38:BD:97:TYR:HA	1.97	0.46
24:CY:319:ASP:OD2	24:CY:322:VAL:HG22	2.15	0.46
12:CL:24:VAL:HG12	12:CL:24:VAL:O	2.16	0.46
35:DA:733:G:O6	35:DA:761:A:C8	2.68	0.46
3:CC:136:GLN:O	3:CC:137:ALA:C	2.52	0.46
12:CL:110:VAL:CG2	12:CL:120:TYR:HB3	2.44	0.46
5:AE:144:THR:O	5:AE:145:LYS:C	2.53	0.46
5:AE:72:GLN:O	5:AE:73:ASN:HB2	2.15	0.46
37:BC:79:ALA:O	37:BC:120:VAL:HG11	2.15	0.46
35:DA:604:G:O2'	35:DA:605:C:H5'	2.15	0.46
20:CT:86:ARG:NH1	20:CT:86:ARG:HG3	2.30	0.46
35:DA:725:G:C6	35:DA:726:G:N1	2.83	0.46
50:BR:44:LEU:HD13	50:BR:44:LEU:C	2.35	0.46
3:CC:115:LEU:O	3:CC:116:VAL:C	2.54	0.46
22:AW:51:U:H3	22:AW:65:G:H1	1.63	0.46
1:AA:8:A:C6	4:AD:209:ARG:HB2	2.50	0.46
57:DY:68:HIS:CB	57:DY:71:LYS:HZ3	2.28	0.46
35:DA:1181:C:O2'	35:DA:1182:A:H5'	2.15	0.46
35:DA:1843:C:H2'	35:DA:1844:C:H6	1.78	0.46
35:DA:1362:C:H2'	35:DA:1363:C:H6	1.80	0.46
55:DW:25:ARG:HB2	55:DW:25:ARG:NH1	2.30	0.46
51:DS:42:ASP:O	51:DS:43:GLU:HB2	2.15	0.46
18:CR:40:LEU:C	18:CR:42:ARG:H	2.19	0.46
1:AA:1010:G:N1	1:AA:1020:U:H1'	2.30	0.46
7:AG:92:SER:O	7:AG:93:PRO:C	2.52	0.46
7:AG:75:VAL:HG21	7:AG:144:MET:HB3	1.97	0.46
17:CQ:45:HIS:CG	17:CQ:65:ILE:HD13	2.50	0.46
1:AA:1458:G:C6	1:AA:1459:C:C4	3.03	0.46
35:BA:1680:U:H2'	35:BA:1681:G:O4'	2.14	0.46
1:AA:1440:C:C2'	1:AA:1441:G:H5'	2.46	0.46
35:BA:718:A:H2'	35:BA:719:C:O4'	2.16	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:BG:9:ARG:HD3	41:BG:13:GLU:OE1	2.15	0.46
32:B7:12:ARG:HH11	32:B7:12:ARG:HG3	1.79	0.46
16:CP:2:VAL:O	16:CP:2:VAL:HG22	2.14	0.46
35:BA:1555:G:H2'	35:BA:1555:G:N3	2.30	0.46
50:BR:51:LEU:HD12	50:BR:51:LEU:H	1.80	0.46
24:AY:625:ASN:C	24:AY:627:ARG:H	2.18	0.46
41:BG:98:ARG:O	41:BG:102:PHE:HB2	2.14	0.46
41:BG:61:ALA:O	41:BG:65:GLY:N	2.48	0.46
35:DA:2012:G:H4'	55:DW:96:ILE:CD1	2.19	0.46
10:CJ:5:ARG:HA	10:CJ:73:ASP:OD1	2.15	0.46
24:AY:122:TRP:CD1	24:AY:122:TRP:C	2.88	0.46
24:AY:227:ILE:CD1	24:AY:242:LEU:HA	2.45	0.46
35:BA:996:A:H2'	35:BA:997:G:H8	1.80	0.46
53:BU:90:VAL:O	53:BU:91:ASP:C	2.53	0.46
54:BV:38:LEU:C	54:BV:39:LEU:HD13	2.34	0.46
31:B6:8:LYS:CE	31:B6:25:LYS:HD3	2.35	0.46
31:B6:5:VAL:HG22	35:BA:2283:C:OP1	2.15	0.46
40:DF:4:VAL:HA	40:DF:19:GLU:HB3	1.96	0.46
33:D8:50:LEU:C	33:D8:53:PRO:CD	2.83	0.46
35:DA:833:U:O2	48:DP:55:ARG:NH1	2.47	0.46
35:DA:2312:U:H2'	41:DG:40:ASN:OD1	2.16	0.46
57:BY:84:ARG:HD2	57:BY:97:ARG:HD2	1.97	0.46
5:AE:78:HIS:CE1	5:AE:80:ILE:HG23	2.50	0.46
3:CC:82:GLU:N	3:CC:82:GLU:OE2	2.49	0.46
35:DA:1484:G:H2'	35:DA:1485:G:H5"	1.97	0.46
35:DA:1263:U:C4	35:DA:1264:G:C6	3.03	0.46
50:BR:101:ALA:O	50:BR:102:GLU:HB2	2.14	0.46
41:BG:164:GLU:O	41:BG:165:THR:HG23	2.15	0.46
41:BG:172:LEU:HD23	41:BG:172:LEU:C	2.35	0.46
51:BS:104:GLY:C	51:BS:106:ARG:N	2.67	0.46
5:CE:143:ARG:HA	5:CE:143:ARG:HD3	1.72	0.46
35:DA:1081:U:H4'	44:DK:117:THR:HG21	1.96	0.46
3:AC:32:LEU:HB3	3:AC:59:ARG:HH22	1.81	0.46
44:DK:108:ALA:O	44:DK:112:MET:HB3	2.15	0.46
35:DA:1783:A:C2	35:DA:2587:A:C4	3.04	0.46
48:DP:29:LYS:HB3	48:DP:34:GLY:H	1.80	0.46
26:B1:94:LEU:O	26:B1:96:LYS:N	2.48	0.46
46:BN:134:ARG:O	46:BN:134:ARG:HG3	2.16	0.46
2:CB:51:LEU:O	2:CB:55:PHE:HD2	1.96	0.46
44:BK:99:ILE:O	44:BK:139:VAL:N	2.47	0.46
41:DG:131:TYR:HE2	41:DG:133:LEU:CD2	2.25	0.46
46:BN:57:ALA:O	46:BN:58:ASP:O	2.32	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
51:DS:89:ARG:NH1	51:DS:89:ARG:HG2	2.28	0.46
27:B2:37:PHE:O	27:B2:41:ILE:HG23	2.14	0.46
35:DA:2712:U:O2'	35:DA:2712(A):A:C8	2.43	0.46
20:CT:30:LYS:HZ2	20:CT:34:LYS:CE	2.29	0.46
2:AB:189:ASP:OD2	2:AB:205:ASP:OD1	2.33	0.46
24:AY:337:SER:HB2	24:AY:355:LEU:HD23	1.98	0.46
27:D2:4:SER:O	27:D2:5:GLU:C	2.54	0.46
35:BA:2190:G:O2'	35:BA:2191:G:H5'	2.16	0.46
35:BA:2795:G:H2'	35:BA:2795:G:N3	2.30	0.46
19:CS:19:VAL:HG13	19:CS:44:MET:HG2	1.96	0.46
13:CM:86:CYS:HA	19:CS:73:GLU:O	2.15	0.46
49:BQ:56:ARG:CA	49:BQ:56:ARG:NE	2.75	0.46
5:AE:11:ILE:HD13	5:AE:105:VAL:HG13	1.97	0.46
12:CL:42:THR:HG23	12:CL:42:THR:O	2.14	0.46
42:DH:33:LEU:HD21	42:DH:136:ILE:HG22	1.96	0.46
12:CL:92:ASP:O	12:CL:94:PRO:HD3	2.14	0.46
38:DD:26:LYS:O	38:DD:27:THR:HB	2.15	0.46
35:DA:2389:G:C5'	35:DA:2390:U:H5'	2.39	0.46
10:AJ:63:PHE:HB2	14:AN:57:ARG:O	2.15	0.46
41:DG:7:LEU:O	41:DG:8:LYS:C	2.53	0.46
40:DF:160:ASN:HD21	40:DF:162:LEU:CD1	2.28	0.46
58:BZ:24:LEU:HD21	58:BZ:86:VAL:HG23	1.96	0.46
53:BU:21:ALA:HA	53:BU:24:TYR:CD1	2.50	0.46
36:BB:66:A:N6	36:BB:108:U:H2'	2.23	0.46
51:DS:47:THR:CG2	51:DS:49:VAL:O	2.63	0.46
37:BC:86:GLU:O	37:BC:90:ALA:HB2	2.16	0.46
46:DN:65:LYS:NZ	46:DN:65:LYS:CB	2.78	0.46
16:CP:14:ASN:N	16:CP:15:PRO:CD	2.78	0.46
1:AA:190:U:O2	20:AT:105:SER:HB2	2.15	0.46
24:CY:255:ILE:CG1	24:CY:256:THR:N	2.78	0.46
1:CA:1030:C:N4	1:CA:1032:G:C2	2.83	0.46
1:CA:1351:U:O2'	1:CA:1352:C:H5'	2.15	0.46
35:DA:1275:A:C4	50:DR:16:HIS:ND1	2.83	0.46
46:BN:26:LEU:HD12	46:BN:26:LEU:O	2.15	0.46
28:B3:19:GLN:O	28:B3:22:ALA:HB3	2.16	0.46
24:AY:605:ILE:HD11	24:AY:677:GLN:HG2	1.97	0.46
35:DA:958:U:C6	35:DA:958:U:C3'	2.99	0.46
35:DA:2521:C:H2'	35:DA:2521:C:O2	2.14	0.46
38:DD:53:PHE:HA	38:DD:218:ARG:HB2	1.98	0.46
27:B2:24:LEU:O	27:B2:27:GLU:HB2	2.15	0.46
24:CY:314:PHE:O	24:CY:315:LYS:HB2	2.15	0.46
2:AB:233:SER:CB	2:AB:234:PRO:HD2	2.44	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:AC:136:GLN:O	3:AC:137:ALA:C	2.52	0.46
21:CU:2:GLY:C	21:CU:4:GLY:N	2.69	0.46
48:BP:122:PRO:HA	48:BP:141:ALA:O	2.16	0.46
57:BY:52:SER:N	57:BY:53:PRO:HD2	2.30	0.46
4:AD:101:LEU:HD23	4:AD:121:VAL:CG1	2.45	0.46
40:DF:38:ARG:O	40:DF:42:ALA:CB	2.62	0.46
35:DA:1237:A:O2'	35:DA:1238:G:P	2.73	0.46
38:DD:9:TYR:CD2	38:DD:10:THR:HG22	2.49	0.46
30:B5:16:ARG:NH2	35:BA:517:C:OP1	2.48	0.46
35:BA:134:C:O2'	35:BA:135:G:H5'	2.15	0.46
35:DA:1097:U:C2'	35:DA:1098:A:H5'	2.45	0.46
35:DA:1353:A:H4'	38:DD:38:LYS:HE3	1.96	0.46
35:DA:1472:A:O2'	35:DA:1473:G:H5'	2.15	0.46
37:BC:185:LYS:HE3	37:BC:185:LYS:CA	2.45	0.46
35:BA:205:G:O2'	35:BA:206:U:OP2	2.31	0.46
35:BA:2845:G:O5'	35:BA:2845:G:H8	1.97	0.46
1:CA:620:C:H2'	1:CA:621:A:C8	2.50	0.46
35:DA:247:G:H4'	35:DA:386:G:C5	2.49	0.46
58:BZ:127:LYS:O	58:BZ:128:VAL:HB	2.16	0.46
7:AG:18:TYR:HD2	7:AG:59:LEU:HD13	1.79	0.46
35:BA:1161:C:H2'	35:BA:1162:G:H8	1.80	0.46
1:AA:719:C:O2	18:AR:50:ILE:HG12	2.15	0.46
35:DA:1630:G:C2	35:DA:1637:A:C2	3.03	0.46
2:AB:229:VAL:HG12	2:AB:230:VAL:N	2.31	0.46
12:AL:58:VAL:O	12:AL:65:GLU:HA	2.14	0.46
51:DS:11:LYS:N	51:DS:11:LYS:HD2	2.29	0.46
35:DA:1770:G:C2'	35:DA:1771:C:H5'	2.45	0.46
16:CP:27:LYS:HG2	16:CP:30:GLY:HA3	1.97	0.46
40:DF:26:ALA:O	40:DF:27:GLU:HG3	2.15	0.46
29:B4:9:LEU:HD13	29:B4:10:VAL:H	1.79	0.46
29:B4:9:LEU:HD12	29:B4:10:VAL:H	1.81	0.46
41:BG:181:ARG:O	41:BG:182:LYS:C	2.54	0.46
4:CD:13:ARG:O	4:CD:14:ARG:C	2.54	0.46
53:BU:53:ARG:O	53:BU:56:ASP:N	2.37	0.46
53:BU:53:ARG:CA	53:BU:56:ASP:OD2	2.60	0.46
1:CA:794:A:O2'	1:CA:795:C:H5'	2.15	0.46
35:DA:336:C:H4'	57:DY:7:VAL:CG2	2.45	0.46
31:D6:27:LYS:CD	31:D6:30:THR:HB	2.44	0.46
31:D6:54:ILE:O	31:D6:54:ILE:CG1	2.63	0.46
35:DA:665:C:O2'	35:DA:666:G:H5'	2.15	0.46
41:DG:72:ARG:HB3	41:DG:87:PRO:HD2	1.96	0.46
5:AE:101:ILE:HD11	5:AE:119:LEU:CD2	2.46	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:AE:76:ILE:CG1	5:AE:77:PRO:HD2	2.45	0.46
35:BA:747:U:O2'	55:BW:88:ARG:HG3	2.16	0.46
41:BG:173:LEU:O	41:BG:178:PHE:HD1	1.99	0.46
35:BA:2291:U:OP1	35:BA:2380:C:O2'	2.33	0.46
35:BA:2291:U:O2'	35:BA:2292:C:H5'	2.14	0.46
51:BS:35:ILE:HD11	51:BS:99:LYS:HE3	1.97	0.46
31:D6:43:CYS:O	31:D6:44:ARG:NE	2.48	0.46
5:CE:101:ILE:HD11	5:CE:119:LEU:CD2	2.45	0.46
24:AY:277:VAL:HG13	24:AY:278:ASP:N	2.31	0.46
46:BN:15:LEU:CD2	46:BN:53:VAL:HB	2.45	0.46
48:DP:106:LEU:HD21	48:DP:112:LEU:HG	1.97	0.46
48:BP:100:LEU:HD22	48:BP:100:LEU:N	2.30	0.46
2:CB:204:ASN:C	2:CB:204:ASN:ND2	2.62	0.46
26:B1:44:PRO:HG2	26:B1:46:LEU:HD11	1.97	0.46
50:DR:97:VAL:HG13	50:DR:114:VAL:CG2	2.46	0.46
1:AA:265:G:H5'	17:AQ:64:PRO:O	2.15	0.46
34:D9:17:ILE:HG22	34:D9:18:ARG:H	1.80	0.46
42:DH:65:HIS:HE1	42:DH:69:ARG:NH1	2.10	0.46
35:DA:2787:C:H2'	35:DA:2787:C:O2	2.15	0.46
42:BH:65:HIS:HE1	42:BH:69:ARG:NH1	2.14	0.46
24:CY:631:ILE:O	24:CY:632:LEU:HD23	2.15	0.46
1:CA:973:G:C1'	10:CJ:55:LYS:HE2	2.44	0.46
46:BN:61:ARG:HG3	46:BN:61:ARG:HH11	1.81	0.46
35:DA:2291:U:O2'	35:DA:2292:C:H5'	2.14	0.46
46:DN:57:ALA:O	46:DN:58:ASP:O	2.33	0.46
41:DG:34:LEU:CD1	41:DG:34:LEU:H	2.17	0.46
30:B5:36:CYS:SG	30:B5:49:CYS:HB3	2.54	0.46
1:CA:322:C:H4'	20:CT:23:ARG:HD2	1.97	0.46
3:AC:80:GLY:HA3	3:AC:82:GLU:OE1	2.15	0.46
35:BA:360:G:H2'	35:BA:361:G:H8	1.80	0.46
1:AA:108:G:N2	1:AA:109:A:C2	2.83	0.46
1:AA:1226:C:C5	13:AM:104:ARG:HB2	2.50	0.46
2:AB:88:ALA:HB2	2:AB:219:VAL:CG1	2.44	0.46
2:CB:222:ILE:HB	2:CB:226:ARG:NH2	2.28	0.46
35:DA:614:U:H2'	35:DA:614(A):U:O4'	2.15	0.46
49:BQ:55:VAL:HG12	49:BQ:56:ARG:H	1.80	0.46
52:DT:53:ARG:O	52:DT:59:THR:HB	2.15	0.46
52:DT:10:VAL:O	52:DT:11:GLU:C	2.53	0.46
52:BT:50:ILE:HG23	52:BT:99:LEU:O	2.16	0.46
50:BR:9:LYS:O	50:BR:10:LEU:CD2	2.60	0.46
38:BD:92:ILE:HD13	38:BD:92:ILE:H	1.79	0.46
2:AB:15:VAL:C	2:AB:16:HIS:CG	2.88	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:DF:132:VAL:CG2	40:DF:133:ASN:N	2.78	0.46
58:BZ:41:LEU:O	58:BZ:42:VAL:C	2.53	0.46
1:AA:182:U:H5'	1:AA:183:G:P	2.55	0.46
35:DA:2464:C:O2'	35:DA:2465:C:O5'	2.33	0.46
13:AM:99:ARG:O	13:AM:100:GLY:C	2.53	0.46
35:BA:1516:C:H2'	35:BA:1517:G:H5''	1.95	0.46
36:DB:82:G:HO2'	36:DB:83:G:H5'	1.81	0.46
24:CY:18:ALA:O	24:CY:106:VAL:HA	2.15	0.46
35:BA:754:C:H2'	35:BA:755:C:C6	2.50	0.46
1:AA:276:G:O2'	1:AA:277:C:H5'	2.15	0.46
35:DA:176:G:C2'	35:DA:177:G:H5'	2.44	0.46
35:BA:578:A:H5'	35:BA:1254:A:OP1	2.16	0.46
35:BA:1721:G:O6	35:BA:1739:U:H5'	2.15	0.46
38:DD:218:ARG:HB3	38:DD:219:PRO:HD2	1.96	0.46
1:AA:1164:G:O2'	1:AA:1165:C:H5'	2.15	0.46
1:CA:357:G:O2'	1:CA:358:U:H5'	2.15	0.46
3:CC:206:GLU:HG2	3:CC:207:VAL:N	2.28	0.46
3:AC:138:VAL:O	3:AC:140:ARG:N	2.49	0.46
47:DO:64:ARG:NH1	47:DO:83:ALA:HB2	2.30	0.46
16:AP:67:THR:HG22	16:AP:68:ASP:H	1.80	0.46
32:D7:12:ARG:HG3	32:D7:12:ARG:HH11	1.80	0.46
35:DA:1718:G:C5'	35:DA:1718:G:H8	2.26	0.46
44:BK:37:PHE:C	44:BK:39:LYS:H	2.17	0.46
37:DC:46:ALA:HA	37:DC:212:SER:O	2.15	0.46
35:BA:1812:A:H2'	35:BA:1813:G:C8	2.45	0.46
35:DA:484:C:O2'	35:DA:485:C:H5'	2.15	0.46
1:AA:203:U:H5'	1:AA:216:G:N2	2.30	0.46
1:CA:98:G:H2'	1:CA:99:U:O4'	2.15	0.46
1:AA:773:G:C2'	1:AA:774:G:H5'	2.46	0.46
38:BD:148:GLU:HB2	38:BD:151:LYS:CG	2.45	0.46
24:CY:636:PRO:HG3	44:DK:20:ALA:HB1	1.97	0.46
1:CA:1010:G:C6	1:CA:1020:U:H1'	2.50	0.46
37:DC:60:ARG:HG3	37:DC:165:ARG:HG3	1.97	0.46
8:CH:32:LYS:C	8:CH:34:GLU:N	2.68	0.46
7:CG:44:TYR:HA	7:CG:47:CYS:SG	2.55	0.46
35:BA:602:G:C2	35:BA:656:G:C6	3.03	0.46
57:DY:56:PRO:O	57:DY:57:GLN:HB3	2.16	0.46
9:CI:56:LEU:C	9:CI:56:LEU:HD23	2.35	0.46
3:CC:187:ALA:C	3:CC:188:LEU:HD22	2.36	0.46
38:DD:138:VAL:HA	38:DD:165:ILE:HG21	1.98	0.46
4:CD:191:ARG:O	4:CD:191:ARG:NH1	2.49	0.46
35:BA:975:C:OP2	35:BA:975:C:H4'	2.16	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:CY:527:ASN:HD22	24:CY:527:ASN:C	2.18	0.46
52:BT:137:LYS:HG2	52:BT:138:ALA:N	2.30	0.46
35:BA:487:C:H1'	55:BW:53:SER:HA	1.95	0.46
58:DZ:92:SER:HB3	58:DZ:93:ASP:H	1.47	0.46
38:DD:197:GLY:O	38:DD:198:ASN:HB3	2.16	0.46
57:BY:42:VAL:O	57:BY:65:ALA:N	2.39	0.46
40:DF:2:LYS:CG	40:DF:25:PRO:HG2	2.45	0.46
29:B4:2:LYS:HB2	36:BB:40:U:O4	2.16	0.46
4:CD:23:GLY:HA3	4:CD:112:VAL:HG22	1.98	0.46
24:CY:92:ILE:HD13	24:CY:93:GLU:N	2.31	0.46
40:BF:101:LEU:O	40:BF:106:ARG:NH1	2.49	0.46
53:BU:55:ARG:HA	53:BU:58:ARG:HB2	1.98	0.46
53:BU:98:LEU:O	53:BU:106:PHE:HB2	2.16	0.46
35:DA:302:C:H2'	35:DA:303:U:H6	1.78	0.46
57:DY:38:ILE:CG2	57:DY:39:VAL:N	2.78	0.46
35:BA:272(G):C:C3'	35:BA:272(H):C:H5''	2.45	0.46
35:BA:1485:G:H1'	35:BA:1505:C:N4	2.23	0.46
31:D6:8:LYS:O	31:D6:9:LEU:O	2.32	0.46
33:D8:48:PHE:O	33:D8:49:VAL:CG1	2.58	0.46
33:D8:50:LEU:C	33:D8:52:LYS:H	2.17	0.46
1:CA:1003:G:H1'	1:CA:1039:C:O2	2.15	0.46
3:CC:52:LEU:HD12	3:CC:55:VAL:HG22	1.97	0.46
1:CA:1237:C:H3'	1:CA:1336:C:N4	2.31	0.46
40:DF:126:VAL:HG23	40:DF:127:GLU:N	2.31	0.46
35:BA:2523:G:C3'	35:BA:2524:G:H5''	2.45	0.46
35:DA:1260:G:H2'	35:DA:1261:C:C6	2.49	0.46
35:DA:27:G:H1'	35:DA:513:A:H62	1.80	0.46
46:BN:133:GLN:HG2	46:BN:134:ARG:H	1.81	0.46
1:AA:1392:G:O2'	1:AA:1393:U:H5'	2.16	0.46
48:BP:106:LEU:HD21	48:BP:112:LEU:HG	1.97	0.46
2:CB:208:ILE:O	2:CB:212:GLN:HB2	2.15	0.46
44:BK:100:THR:CA	44:BK:139:VAL:HB	2.41	0.46
1:AA:1053:G:N7	1:AA:1200:C:C5'	2.73	0.46
39:DE:51:PHE:N	39:DE:74:PRO:HG3	2.30	0.46
39:DE:31:CYS:C	39:DE:90:THR:HG23	2.35	0.46
51:DS:70:GLY:CA	51:DS:101:LEU:HD23	2.46	0.46
1:AA:720:C:C3'	1:AA:721:G:H5''	2.35	0.46
22:CW:50:G:C2	22:CW:51:U:C2	3.03	0.46
54:BV:31:ALA:C	54:BV:61:VAL:HG12	2.36	0.46
24:AY:100:VAL:HG13	24:AY:101:LEU:H	1.81	0.46
24:AY:71:THR:HA	24:AY:79:ILE:O	2.16	0.46
5:AE:28:PHE:O	5:AE:47:LYS:HA	2.15	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:BT:29:ARG:HG3	52:BT:30:VAL:HG13	1.97	0.46
52:BT:29:ARG:HG2	52:BT:85:LYS:HA	1.96	0.46
49:BQ:43:THR:HB	49:BQ:45:GLN:HE21	1.80	0.46
35:BA:1952:A:C2	47:BO:22:ILE:HG23	2.50	0.46
39:BE:24:THR:CG2	39:BE:184:VAL:HG23	2.37	0.46
24:CY:170:ARG:O	24:CY:171:GLU:HG3	2.15	0.46
46:BN:90:MET:HB3	46:BN:98:VAL:HG22	1.97	0.46
24:CY:491:VAL:CG1	24:CY:492:ASP:N	2.65	0.46
24:CY:510:VAL:HG12	24:CY:511:LYS:N	2.30	0.46
24:CY:487:ILE:CG2	24:CY:594:VAL:HG13	2.43	0.46
4:AD:173:TRP:O	4:AD:174:LEU:HD23	2.16	0.46
4:AD:194:LEU:HB3	4:AD:196:LEU:CD1	2.36	0.46
47:DO:69:ILE:HB	47:DO:77:ILE:HG22	1.98	0.46
27:D2:31:GLU:HB3	27:D2:53:LEU:HD11	1.98	0.46
35:BA:94(A):G:H2'	35:BA:95:G:H5''	1.96	0.46
35:BA:1448:G:N3	35:BA:1528(A):A:H2	2.13	0.46
35:BA:1528:A:O2'	35:BA:1528(A):A:O5'	2.32	0.46
24:CY:30:GLU:O	24:CY:31:ARG:NH1	2.49	0.46
12:AL:28:LYS:HB2	12:AL:33:ARG:HH22	1.81	0.46
35:BA:827:U:H2'	35:BA:2068:U:O2	2.15	0.46
24:AY:379:GLY:O	24:AY:380:LEU:O	2.33	0.46
19:CS:7:LYS:HA	19:CS:7:LYS:HD3	1.72	0.46
3:AC:3:ASN:N	3:AC:3:ASN:OD1	2.48	0.46
1:CA:192:U:C4'	20:CT:103:GLY:HA2	2.45	0.46
38:BD:127:VAL:HA	38:BD:193:VAL:HG13	1.96	0.46
42:BH:138:LYS:C	42:BH:140:LYS:N	2.69	0.46
4:AD:57:ARG:NH1	4:AD:205:GLU:OE2	2.48	0.46
35:BA:1851:U:H2'	35:BA:1852:C:O4'	2.16	0.46
56:BX:43:VAL:C	56:BX:45:THR:H	2.18	0.46
50:BR:7:GLY:C	50:BR:8:ARG:HE	2.19	0.46
41:DG:20:ILE:O	41:DG:24:GLY:N	2.48	0.46
35:DA:2406:U:C2	48:DP:72:PRO:HB2	2.50	0.46
35:DA:775:G:O6	35:DA:787:U:H2'	2.15	0.46
25:B0:20:ARG:CG	25:B0:20:ARG:HH11	2.29	0.46
5:AE:155:GLU:N	8:AH:64:LYS:HE2	2.31	0.46
49:BQ:79:LEU:HD23	49:BQ:80:GLU:N	2.28	0.46
35:BA:2406:U:N3	48:BP:72:PRO:HB2	2.30	0.46
11:CK:34:ASP:CB	11:CK:35:PRO:CD	2.92	0.46
35:BA:729:G:O2'	35:BA:763:G:H4'	2.15	0.46
4:CD:187:ARG:HH11	4:CD:187:ARG:HG2	1.80	0.46
53:BU:82:GLY:O	53:BU:84:LYS:N	2.48	0.46
26:D1:3:LYS:HD2	26:D1:3:LYS:HA	1.67	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:79:G:O2'	35:BA:80:G:H5'	2.15	0.46
1:AA:759:A:C2'	1:AA:760:G:H5'	2.45	0.46
8:AH:32:LYS:C	8:AH:34:GLU:N	2.65	0.46
1:CA:329:A:H3'	1:CA:330:C:C5'	2.45	0.46
1:AA:1217:C:H2'	1:AA:1217:C:O2	2.15	0.46
35:DA:718:A:H3'	35:DA:719:C:H6	1.81	0.46
7:CG:47:CYS:HB3	7:CG:58:PRO:CB	2.46	0.46
1:CA:519:C:H2'	1:CA:520:A:O4'	2.15	0.46
1:CA:710:G:O2'	1:CA:711:G:H5'	2.15	0.46
1:CA:17:U:H2'	1:CA:18:C:C6	2.50	0.46
7:AG:97:GLN:O	7:AG:98:SER:C	2.53	0.46
43:DJ:103:UNK:HA	43:DJ:111:UNK:CB	2.45	0.46
21:CU:9:ARG:HH11	21:CU:22:ARG:HG3	1.80	0.46
1:CA:756:C:H2'	1:CA:757:U:O4'	2.15	0.46
56:DX:90:GLU:HA	56:DX:93:GLU:HG2	1.97	0.46
4:CD:144:ASP:O	4:CD:184:LYS:HA	2.15	0.46
35:BA:2081:C:H2'	35:BA:2082:A:H8	1.79	0.46
12:CL:58:VAL:O	12:CL:65:GLU:HA	2.16	0.46
35:DA:128:C:O2'	35:DA:129:C:O5'	2.31	0.46
29:B4:37:SER:OG	41:BG:108:ASN:HA	2.15	0.46
53:DU:113:ALA:O	53:DU:115:ALA:N	2.48	0.46
35:DA:997:G:OP1	53:DU:93:LYS:HD3	2.15	0.46
54:BV:47:VAL:O	54:BV:48:GLY:C	2.54	0.46
31:B6:54:ILE:O	31:B6:54:ILE:CG1	2.63	0.46
33:B8:53:PRO:HG2	33:B8:54:GLU:H	1.80	0.46
33:B8:28:GLY:H	35:BA:2393:A:P	2.39	0.46
1:CA:1320:C:N4	19:CS:36:ARG:HG3	2.30	0.46
57:BY:38:ILE:CG2	57:BY:39:VAL:N	2.78	0.46
31:D6:6:ARG:C	31:D6:7:ILE:CD1	2.83	0.46
30:B5:44:THR:HG21	50:BR:101:ALA:CB	2.30	0.46
31:B6:45:LYS:HG2	35:BA:2371:G:C4'	2.46	0.46
5:CE:76:ILE:CG1	5:CE:77:PRO:HD2	2.45	0.46
38:BD:48:ARG:NH1	38:BD:48:ARG:HG3	2.31	0.46
26:D1:76:ARG:CZ	26:D1:95:LEU:HD22	2.45	0.46
47:BO:60:ALA:CA	47:BO:87:ILE:HD11	2.45	0.46
3:AC:60:ALA:O	3:AC:61:ALA:HB2	2.16	0.46
1:AA:1321:C:C5'	1:AA:1322:C:C5'	2.92	0.46
33:D8:6:THR:HG21	33:D8:63:PRO:HD3	1.98	0.46
39:BE:55:ASN:C	39:BE:57:LYS:H	2.17	0.46
39:DE:59:VAL:CG2	39:DE:63:LEU:HA	2.46	0.46
35:BA:2745:C:C4	35:BA:2746:U:C4	3.04	0.46
35:DA:1494:A:O2'	35:DA:1495:A:C5'	2.53	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:360:G:H2'	35:DA:361:G:H8	1.81	0.46
39:DE:68:ALA:HB3	39:DE:69:LYS:HE2	1.97	0.46
39:BE:31:CYS:C	39:BE:90:THR:HG23	2.36	0.46
39:BE:36:ARG:HH22	39:BE:88:GLY:H	1.64	0.46
39:BE:87:GLU:O	39:BE:88:GLY:C	2.53	0.46
52:DT:116:ALA:HB1	52:DT:121:ILE:HD11	1.98	0.46
35:BA:2137:C:H2'	35:BA:2138:C:C6	2.50	0.46
35:DA:2820:A:C8	39:DE:191:PRO:CB	2.99	0.46
40:BF:74:ARG:O	40:BF:75:HIS:CG	2.68	0.46
52:BT:83:ILE:CG1	52:BT:84:GLN:N	2.75	0.46
58:DZ:163:LEU:HG	58:DZ:163:LEU:O	2.16	0.46
35:BA:1061:U:C4'	35:BA:1070:A:H1'	2.43	0.46
25:D0:37:LEU:HG	25:D0:60:PHE:HA	1.98	0.46
49:BQ:55:VAL:CG1	49:BQ:56:ARG:H	2.29	0.46
42:BH:53:GLU:CD	42:BH:54:ARG:H	2.19	0.46
26:B1:60:PHE:O	26:B1:62:VAL:HG12	2.15	0.46
13:CM:19:LEU:HD22	13:CM:19:LEU:N	2.29	0.46
50:BR:10:LEU:CD2	50:BR:17:ARG:HD3	2.43	0.46
9:AI:79:LEU:HD13	9:AI:83:ARG:CB	2.41	0.46
42:DH:20:ALA:CB	42:DH:21:PRO:CD	2.90	0.46
37:DC:29:LEU:O	37:DC:32:GLU:N	2.41	0.46
24:AY:196:ILE:CG1	24:AY:197:ARG:H	2.29	0.46
23:AX:16:A:O2'	23:AX:17:U:H5'	2.16	0.46
1:CA:608:A:C2'	1:CA:609:A:H5'	2.46	0.46
35:DA:817:C:H2'	35:DA:818:G:O4'	2.15	0.46
2:CB:83:MET:CG	2:CB:234:PRO:HG3	2.44	0.46
36:DB:15:A:H1'	36:DB:110:G:C5	2.51	0.46
12:AL:47:LYS:HB3	12:AL:47:LYS:NZ	2.31	0.46
49:BQ:109:VAL:HG12	49:BQ:113:GLN:HB2	1.98	0.46
9:CI:70:LYS:O	9:CI:74:ILE:HG13	2.16	0.46
35:BA:2454:G:H2'	35:BA:2455:G:H5'	1.97	0.46
1:AA:218:C:H5'	1:AA:470:C:H41	1.78	0.46
54:BV:64:HIS:ND1	54:BV:92:THR:CG2	2.79	0.46
35:BA:963:U:H2'	35:BA:964:C:C6	2.51	0.46
35:BA:177:G:H3'	35:BA:178:G:C8	2.51	0.46
22:AW:74:A:H2'	22:AW:75:C:C5'	2.46	0.46
24:CY:427:ALA:O	24:CY:431:LEU:HB2	2.16	0.46
35:BA:1813:G:H1'	38:BD:50:THR:OG1	2.15	0.46
3:CC:114:PRO:O	3:CC:118:GLN:OE1	2.34	0.46
35:BA:784:A:H5''	38:BD:227:ASN:HD21	1.80	0.46
20:CT:93:GLU:OE1	20:CT:94:ALA:N	2.49	0.46
57:DY:54:LYS:HZ3	57:DY:55:TYR:HE2	1.62	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:DC:191:ARG:HG3	37:DC:191:ARG:NH1	2.29	0.46
38:DD:31:LYS:HZ1	38:DD:33:LEU:HB2	1.79	0.46
35:DA:2840:C:H5''	50:DR:53:HIS:CD2	2.51	0.46
35:DA:519:U:O2'	35:DA:520:G:H5'	2.16	0.46
35:BA:1097:U:C2'	35:BA:1098:A:H5'	2.46	0.46
35:BA:438:G:H2'	35:BA:440:G:H8	1.80	0.46
1:CA:651:C:H2'	1:CA:652:U:H6	1.80	0.46
35:BA:324:A:OP2	35:BA:1205:U:N3	2.48	0.46
1:CA:829:G:O2'	1:CA:830:G:H5'	2.15	0.46
48:BP:32:THR:CG2	48:BP:37:GLY:HA2	2.45	0.46
1:CA:1065:U:C2'	1:CA:1066:C:OP2	2.63	0.46
35:BA:2384:G:H2'	35:BA:2386:C:OP1	2.16	0.46
35:BA:271(M):G:H2'	35:BA:271(N):U:H5''	1.98	0.46
30:D5:39:MET:HG3	55:DW:34:ASN:ND2	2.31	0.46
48:DP:32:THR:HG22	48:DP:37:GLY:HA2	1.98	0.46
1:AA:756:C:H2'	1:AA:757:U:O4'	2.16	0.46
1:AA:1047:G:O2'	1:AA:1048:G:H5'	2.15	0.46
9:CI:118:LYS:O	9:CI:119:ALA:HB3	2.15	0.46
25:D0:34:GLY:O	25:D0:35:ASN:C	2.54	0.46
35:BA:1688:U:O2	35:BA:1700:A:H5''	2.15	0.46
24:CY:420:ASP:N	24:CY:420:ASP:OD2	2.48	0.46
35:DA:63:U:H4'	35:DA:63:U:OP1	2.16	0.46
2:AB:53:ARG:HG2	2:AB:53:ARG:O	2.15	0.46
38:BD:205:VAL:O	38:BD:206:LEU:C	2.54	0.46
56:BX:3:THR:O	56:BX:4:ALA:HB3	2.15	0.46
10:AJ:5:ARG:HA	10:AJ:73:ASP:OD1	2.15	0.46
1:AA:542:G:H5'	4:AD:41:GLY:HA3	1.96	0.46
4:AD:13:ARG:O	4:AD:14:ARG:C	2.53	0.46
40:BF:24:LEU:CB	40:BF:25:PRO:HD2	2.39	0.46
40:BF:36:VAL:O	40:BF:39:TRP:HB3	2.15	0.46
53:DU:90:VAL:O	53:DU:91:ASP:C	2.54	0.46
54:DV:47:VAL:O	54:DV:48:GLY:C	2.54	0.46
22:AW:59:A:H2	22:AW:61:U:HO2'	1.62	0.46
9:AI:88:TYR:O	9:AI:89:ASN:CB	2.57	0.46
31:B6:27:LYS:HB3	31:B6:32:ASN:HD21	1.74	0.46
58:DZ:41:LEU:HD23	58:DZ:41:LEU:HA	1.81	0.46
57:DY:14:LEU:HD13	57:DY:24:VAL:CG2	2.46	0.46
1:AA:1003:G:H1'	1:AA:1039:C:O2	2.16	0.46
26:D1:46:LEU:O	26:D1:47:GLN:NE2	2.47	0.46
52:DT:65:LYS:HA	52:DT:65:LYS:HZ2	1.76	0.46
31:B6:42:TRP:CH2	35:BA:643:A:N7	2.83	0.46
48:DP:16:ARG:CB	48:DP:16:ARG:HH11	2.28	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
31:D6:47:THR:OG1	31:D6:48:VAL:N	2.48	0.46
3:CC:62:ASP:O	3:CC:64:VAL:N	2.48	0.46
39:DE:38:THR:OG1	39:DE:41:LYS:HE2	2.15	0.46
5:CE:53:LEU:O	5:CE:56:GLN:HB3	2.16	0.46
35:DA:2584:U:O2	35:DA:2584:U:O4'	2.33	0.46
26:B1:94:LEU:C	26:B1:96:LYS:N	2.69	0.46
48:DP:126:VAL:HG12	48:DP:148:LEU:HD21	1.98	0.46
48:BP:127:ALA:C	48:BP:148:LEU:HD11	2.36	0.46
26:B1:45:ASN:ND2	26:B1:47:GLN:HE21	2.04	0.46
35:DA:1819:A:O2'	35:DA:1820:U:OP2	2.33	0.46
1:CA:953:G:N7	13:CM:104:ARG:NH2	2.64	0.46
6:AF:67:MET:CE	6:AF:72:VAL:HA	2.45	0.46
18:CR:53:ARG:C	18:CR:55:ARG:H	2.17	0.46
26:D1:53:VAL:CG1	26:D1:90:ILE:HG21	2.46	0.46
38:DD:270:ILE:H	38:DD:270:ILE:HD12	1.79	0.46
13:CM:66:LEU:HA	13:CM:70:LEU:HD13	1.97	0.46
52:BT:107:ASP:CG	52:BT:108:ARG:N	2.67	0.46
52:DT:64:ARG:HG2	52:DT:64:ARG:NH1	2.30	0.46
35:DA:94(A):G:H2'	35:DA:95:G:H5''	1.97	0.46
35:DA:797:C:H2'	35:DA:798:G:C8	2.51	0.46
1:AA:1343:G:H1'	9:AI:121:ARG:NH1	2.30	0.46
9:AI:125:TYR:HD2	9:AI:126:SER:N	2.14	0.46
40:DF:160:ASN:ND2	40:DF:160:ASN:C	2.66	0.46
12:AL:30:ALA:CB	12:AL:33:ARG:HH21	2.28	0.46
39:DE:92:THR:OG1	39:DE:95:ILE:HD11	2.15	0.46
35:DA:1577:C:H2'	35:DA:1578:U:O4'	2.15	0.46
35:DA:1107:G:OP1	43:DJ:59:UNK:N	2.49	0.46
1:CA:277:C:C2'	1:CA:278:G:H5'	2.46	0.46
1:AA:192:U:C4'	20:AT:103:GLY:HA2	2.45	0.46
50:BR:41:ALA:C	50:BR:43:GLU:N	2.69	0.46
3:CC:142:MET:HE2	3:CC:171:GLY:CA	2.42	0.46
37:DC:98:GLU:HA	37:DC:101:ILE:CD1	2.46	0.46
35:BA:755:C:H2'	35:BA:756:C:C6	2.51	0.46
24:AY:99:ARG:CZ	24:AY:128:TYR:HB2	2.44	0.46
56:DX:65:ARG:HG2	56:DX:66:LEU:N	2.31	0.46
35:DA:586:A:C2	35:DA:1254:A:C2	3.04	0.46
56:DX:43:VAL:C	56:DX:45:THR:H	2.19	0.46
4:CD:163:GLU:C	4:CD:165:MET:N	2.69	0.46
52:BT:62:THR:CG2	52:BT:75:ILE:HG13	2.46	0.46
35:BA:826:U:H5''	35:BA:2428:G:O3'	2.15	0.46
39:DE:6:GLY:HA2	39:DE:27:LEU:O	2.15	0.46
1:CA:1329:A:H4'	13:CM:24:GLY:O	2.16	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2039:C:O2'	35:DA:2040:C:H5'	2.15	0.46
35:DA:2105:C:N4	35:DA:2184:G:H1	2.12	0.46
35:BA:389:G:C6	48:BP:70:GLN:HG3	2.51	0.46
38:DD:229:VAL:HG23	38:DD:230:ASP:N	2.31	0.46
39:BE:101:ARG:HD3	39:BE:101:ARG:HA	1.66	0.46
1:AA:512:U:H2'	1:AA:513:C:C6	2.47	0.46
4:CD:173:TRP:O	4:CD:174:LEU:HD23	2.15	0.46
20:AT:93:GLU:OE1	20:AT:94:ALA:N	2.48	0.46
35:BA:45:C:OP2	35:BA:215:G:H5'	2.15	0.46
9:CI:55:ALA:HA	9:CI:58:HIS:HD2	1.80	0.46
24:AY:315:LYS:HZ3	24:AY:317:MET:HG2	1.80	0.46
42:DH:94:TYR:N	42:DH:94:TYR:CD1	2.84	0.46
1:AA:1253:G:C2	1:AA:1254:C:C2	3.04	0.46
46:BN:99:LEU:HD13	46:BN:99:LEU:C	2.36	0.46
38:BD:210:GLY:O	38:BD:211:ARG:CB	2.62	0.46
1:CA:1416:G:H2'	1:CA:1417:G:C8	2.50	0.46
55:DW:41:LYS:C	55:DW:43:GLY:N	2.69	0.46
1:AA:1515:C:H2'	1:AA:1516:G:H8	1.79	0.46
7:CG:84:ASN:N	7:CG:84:ASN:ND2	2.64	0.46
1:CA:424:G:O2'	1:CA:425:G:H5'	2.16	0.46
35:DA:2373:G:H2'	35:DA:2374:C:H6	1.80	0.46
35:DA:338:G:O2'	35:DA:339:U:H5'	2.16	0.46
44:BK:62:ASP:O	44:BK:63:ARG:HB2	2.16	0.46
35:DA:1310:G:C2'	35:DA:1311:G:H5'	2.46	0.46
19:CS:79:THR:CG2	19:CS:80:TYR:N	2.79	0.46
37:BC:60:ARG:HG3	37:BC:165:ARG:HG3	1.96	0.46
41:BG:152:LEU:HD23	41:BG:152:LEU:H	1.79	0.46
30:D5:22:HIS:HE1	35:DA:2624:G:H1'	1.79	0.46
56:DX:57:LEU:HD22	56:DX:57:LEU:O	2.15	0.46
35:DA:1771:C:H2'	35:DA:1772:G:C8	2.51	0.46
29:D4:35:VAL:HG12	29:D4:36:CYS:N	2.31	0.46
1:CA:341:C:C2	1:CA:349:A:C2	3.03	0.46
35:DA:430:G:H2'	35:DA:431:U:H5'	1.98	0.46
15:AO:31:LEU:H	15:AO:31:LEU:CD2	2.28	0.46
4:AD:54:TYR:O	4:AD:55:ALA:C	2.53	0.46
35:BA:1218:C:H2'	35:BA:1219:G:H8	1.79	0.46
46:BN:123:TYR:CD1	46:BN:123:TYR:N	2.83	0.46
43:DJ:51:UNK:CB	43:DJ:89:UNK:O	2.63	0.46
1:CA:311:C:H2'	1:CA:312:C:H6	1.81	0.46
41:BG:31:VAL:HG22	41:BG:32:PRO:CD	2.46	0.46
41:BG:97:ASP:CB	41:BG:98:ARG:NH1	2.75	0.46
35:DA:2645:G:C3'	35:DA:2646:C:C5'	2.85	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:124:GLN:O	24:AY:127:LYS:HB3	2.16	0.46
24:AY:170:ARG:NH2	24:AY:205:TYR:HE1	2.13	0.46
24:AY:223:PHE:CZ	24:AY:249:GLY:HA3	2.51	0.46
24:AY:259:PHE:C	24:AY:260:LEU:HD13	2.35	0.46
35:DA:996:A:H2'	35:DA:997:G:H8	1.80	0.46
53:DU:98:LEU:O	53:DU:106:PHE:HB2	2.16	0.46
24:AY:487:ILE:CD1	24:AY:487:ILE:H	2.28	0.46
31:B6:22:ALA:C	31:B6:23:THR:HG23	2.36	0.46
33:B8:48:PHE:O	33:B8:49:VAL:CG2	2.60	0.46
19:CS:5:LEU:HG	19:CS:10:PHE:HD1	1.80	0.46
1:AA:1316:G:H4'	14:AN:18:VAL:HG12	1.97	0.46
3:CC:83:ARG:C	3:CC:85:ARG:N	2.69	0.46
31:D6:15:GLU:HG2	31:D6:16:CYS:O	2.15	0.46
5:CE:80:ILE:HD11	5:CE:138:ALA:HB1	1.98	0.46
49:DQ:109:VAL:CG1	49:DQ:113:GLN:HB2	2.45	0.46
5:CE:28:PHE:O	5:CE:47:LYS:HA	2.15	0.46
35:BA:512:G:HO2'	35:BA:513:A:H8	1.64	0.46
46:BN:120:LEU:HD13	46:BN:121:LYS:N	2.31	0.46
48:DP:133:SER:O	48:DP:136:GLU:HG2	2.16	0.46
1:AA:1500:A:OP2	1:AA:1505:G:OP2	2.33	0.46
48:BP:144:GLU:O	48:BP:144:GLU:HG2	2.15	0.46
20:AT:16:HIS:O	20:AT:17:ARG:C	2.54	0.46
56:DX:34:ALA:HA	56:DX:38:GLU:OE2	2.16	0.46
2:AB:142:LEU:CD2	2:AB:146:GLN:NE2	2.79	0.46
39:DE:32:PRO:HA	39:DE:90:THR:HG23	1.97	0.46
35:BA:1015:G:H2'	35:BA:1016:G:C8	2.51	0.46
10:AJ:54:PHE:O	10:AJ:55:LYS:C	2.53	0.46
52:BT:92:GLY:C	52:BT:94:ALA:N	2.69	0.46
9:AI:114:TYR:CD2	9:AI:114:TYR:O	2.69	0.46
2:AB:51:LEU:CD2	2:AB:201:ILE:HG23	2.46	0.46
52:BT:82:LEU:CD2	52:BT:85:LYS:HD2	2.45	0.46
3:CC:40:ARG:HH11	3:CC:40:ARG:HG3	1.81	0.46
35:BA:2481:G:O2'	35:BA:2482:G:P	2.74	0.46
12:CL:41:ARG:CG	12:CL:42:THR:N	2.74	0.46
26:B1:12:PRO:HG3	35:BA:1365:A:C5'	2.45	0.46
44:DK:3:LYS:HB3	44:DK:3:LYS:HE3	1.78	0.46
52:DT:55:ASN:CG	52:DT:55:ASN:O	2.54	0.46
13:CM:23:TYR:HE1	13:CM:70:LEU:HD22	1.81	0.46
36:BB:64:C:O2'	36:BB:65:C:H5'	2.15	0.46
22:CW:25:U:H2'	22:CW:26:C:H6	1.80	0.46
22:CW:25:U:H2'	22:CW:26:C:O4'	2.15	0.46
25:B0:40:GLN:NE2	25:B0:44:ARG:N	2.64	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1529:G:C2	35:BA:1541:G:N2	2.84	0.46
35:BA:1127:A:C2'	35:BA:1128:A:H5''	2.44	0.46
10:CJ:61:GLU:OE1	14:CN:49:HIS:CE1	2.62	0.46
39:BE:82:ARG:HH11	39:BE:82:ARG:HG3	1.81	0.46
35:DA:676:A:H1'	35:DA:2443:C:C1'	2.43	0.46
5:AE:100:VAL:CG2	5:AE:100:VAL:O	2.63	0.46
26:D1:65:SER:O	26:D1:68:PRO:HD2	2.16	0.46
20:CT:50:GLU:HB2	20:CT:100:ILE:HB	1.97	0.46
1:CA:1353:G:H2'	1:CA:1354:C:H6	1.81	0.46
56:BX:65:ARG:HG2	56:BX:66:LEU:N	2.31	0.46
12:CL:80:HIS:O	12:CL:81:SER:CB	2.58	0.46
2:AB:95:GLN:HE21	2:AB:147:LYS:HE3	1.81	0.46
35:DA:958:U:C6	35:DA:958:U:H3'	2.50	0.46
35:BA:759:G:H2'	35:BA:760:G:C8	2.46	0.46
1:CA:66:G:H4'	1:CA:173:U:H5	1.74	0.46
55:DW:82:LEU:CD1	55:DW:82:LEU:N	2.78	0.46
35:DA:389:G:C6	48:DP:70:GLN:HG3	2.51	0.46
35:DA:2688:U:H5	35:DA:2720:U:OP1	1.99	0.46
1:CA:376:G:OP2	16:CP:67:THR:HG21	2.16	0.46
35:DA:464:U:C4	35:DA:788:A:N7	2.84	0.46
51:BS:56:LEU:C	51:BS:58:LEU:H	2.19	0.46
1:AA:189(A):C:H2'	1:AA:189(B):C:C6	2.51	0.46
29:B4:39:CYS:SG	29:B4:42:PHE:HE2	2.37	0.46
12:AL:24:VAL:O	12:AL:24:VAL:HG12	2.14	0.46
42:BH:33:LEU:HD21	42:BH:136:ILE:HG22	1.98	0.46
35:DA:1064:C:H5''	44:DK:86:LYS:HB2	1.98	0.46
35:DA:2740:A:C6	35:DA:2741:A:C6	3.04	0.46
24:CY:309:LEU:HA	24:CY:332:SER:O	2.16	0.46
35:BA:1101:U:H2'	35:BA:1102:C:C6	2.50	0.46
55:DW:1:MET:HE3	55:DW:2:GLU:H	1.80	0.46
1:AA:1365:G:O2'	1:AA:1366:C:H5'	2.14	0.46
6:CF:15:ASP:C	6:CF:17:SER:H	2.18	0.46
35:BA:2193:G:H8	35:BA:2193:G:H5'	1.81	0.46
49:DQ:58:PHE:CD1	49:DQ:58:PHE:O	2.69	0.46
35:BA:2351:G:HO2'	35:BA:2352:A:H8	1.62	0.46
39:DE:108:SER:O	39:DE:109:LYS:C	2.54	0.46
38:BD:45:ASN:HB2	38:BD:46:GLN:OE1	2.15	0.46
35:BA:1166:C:H2'	35:BA:1167:U:H6	1.81	0.46
35:DA:640:C:C4	35:DA:641:C:N4	2.83	0.46
38:DD:205:VAL:O	38:DD:206:LEU:C	2.54	0.46
12:AL:51:ALA:O	12:AL:52:LEU:HD23	2.15	0.46
3:CC:127:ARG:HG2	3:CC:127:ARG:HH11	1.81	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:251:ILE:HG22	24:AY:251:ILE:O	2.14	0.46
35:DA:1590:U:H2'	35:DA:1591:G:H8	1.80	0.46
42:BH:169:VAL:HG13	42:BH:170:ARG:H	1.80	0.46
10:AJ:3:LYS:N	10:AJ:75:ILE:O	2.49	0.46
4:CD:22:LYS:O	4:CD:113:SER:HB3	2.15	0.46
1:CA:981:U:H2'	1:CA:982:U:C5	2.50	0.46
1:AA:509:A:H3'	1:AA:510:A:C8	2.50	0.46
24:CY:92:ILE:HD13	24:CY:92:ILE:C	2.36	0.46
24:CY:92:ILE:HB	24:CY:405:PRO:HG2	1.98	0.46
23:CX:12:A:C2	23:CX:13:A:H5'	2.49	0.46
35:BA:1241:A:H2'	35:BA:1242:A:O4'	2.15	0.46
24:AY:414:GLU:HA	24:AY:415:PRO:HD2	1.74	0.46
57:DY:8:LYS:HE2	57:DY:72:VAL:O	2.16	0.46
31:D6:27:LYS:HB3	31:D6:32:ASN:HD21	1.77	0.46
38:DD:244:ARG:HG2	38:DD:245:PRO:N	2.31	0.46
1:AA:946:A:H3'	1:AA:947:G:H8	1.78	0.46
1:AA:1221:G:H4'	19:AS:77:THR:CG2	2.39	0.46
38:BD:244:ARG:HG2	38:BD:245:PRO:N	2.30	0.46
35:BA:1081:U:H4'	44:BK:117:THR:HG21	1.98	0.46
35:BA:1264:G:O3'	35:BA:2615:U:H5'	2.16	0.46
24:CY:260:LEU:HB2	24:CY:261:GLY:H	1.67	0.46
37:DC:76:LEU:HD21	37:DC:104:ILE:CD1	2.46	0.46
35:DA:2286:A:H8	35:DA:2287:A:C6	2.34	0.46
46:DN:15:LEU:HB2	46:DN:134:ARG:HB2	1.98	0.46
35:BA:1821:A:H2'	35:BA:1822:G:C8	2.51	0.46
1:AA:189(C):C:H2'	1:AA:189(D):C:O4'	2.15	0.46
35:BA:1782:C:H1'	35:BA:2609:U:C5'	2.37	0.46
33:B8:4:MET:SD	33:B8:61:LEU:HD22	2.56	0.46
2:CB:235:SER:OG	2:CB:236:TYR:N	2.48	0.46
26:D1:27:GLU:O	26:D1:28:GLY:C	2.54	0.46
35:BA:2809:A:OP2	35:BA:2891:G:N1	2.45	0.46
35:BA:2892:A:H62	35:BA:2893:G:N2	2.13	0.46
35:DA:2892:A:H62	35:DA:2893:G:N2	2.13	0.46
19:AS:29:ARG:HD2	19:AS:29:ARG:N	2.31	0.46
35:DA:2206:G:H21	35:DA:2207:G:C5'	2.29	0.46
35:DA:2206:G:H21	35:DA:2207:G:H5'	1.78	0.46
39:DE:107:THR:HA	39:DE:163:GLU:O	2.16	0.46
39:DE:49:LEU:O	39:DE:78:LEU:CB	2.64	0.46
35:BA:2206:G:H21	35:BA:2207:G:C5'	2.28	0.46
1:CA:80:G:N1	1:CA:90:U:H5'	2.31	0.46
1:AA:973:G:C1'	10:AJ:55:LYS:HE2	2.44	0.46
39:DE:110:GLY:O	50:DR:2:ARG:HD3	2.15	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:328:C:O2	1:AA:328:C:C2'	2.57	0.46
35:BA:1948:G:C5'	35:BA:1948:G:C8	2.96	0.46
1:CA:1326:C:P	21:CU:12:LYS:HZ2	2.39	0.46
3:CC:20:SER:HA	3:CC:57:ILE:O	2.15	0.46
49:DQ:1:MET:HE1	49:DQ:45:GLN:N	2.30	0.46
1:CA:28:G:O2'	1:CA:296:U:OP1	2.33	0.46
1:CA:1363(A):A:C4'	1:CA:1364:U:H5''	2.41	0.46
35:BA:2126:A:C4'	35:BA:2127:G:O5'	2.60	0.46
35:BA:1464:C:O2'	35:BA:1528:A:C8	2.67	0.46
35:DA:9:U:O4	35:DA:2629:A:N7	2.49	0.46
16:AP:8:ARG:NH2	16:AP:15:PRO:HG3	2.30	0.46
16:AP:28:ARG:HG2	16:AP:28:ARG:NH1	2.31	0.46
40:BF:160:ASN:HD21	40:BF:162:LEU:CD1	2.28	0.46
42:BH:20:ALA:CB	42:BH:21:PRO:CD	2.91	0.46
39:BE:199:ARG:HB2	39:BE:199:ARG:NH1	2.31	0.46
55:DW:20:VAL:HG23	55:DW:21:VAL:H	1.80	0.46
20:CT:53:LEU:HB3	20:CT:102:GLY:HA3	1.97	0.46
34:D9:6:SER:HB2	35:DA:2466:C:H5''	1.98	0.46
35:DA:1050:A:C4	35:DA:1051:G:H1'	2.51	0.46
35:BA:2075:U:C2'	35:BA:2076:U:H5''	2.46	0.46
20:AT:89:ARG:HD2	20:AT:104:LEU:HD11	1.98	0.46
35:DA:803:U:H2'	35:DA:804:A:C5'	2.46	0.46
35:DA:818:G:OP2	35:DA:1187:G:O6	2.34	0.46
35:DA:286:C:H2'	35:DA:287:C:H6	1.79	0.46
4:AD:159:ARG:O	4:AD:162:LEU:N	2.49	0.46
3:AC:173:VAL:O	3:AC:175:LEU:HD12	2.15	0.46
36:BB:68:C:H2'	36:BB:69:G:C8	2.48	0.46
35:DA:1682:G:H5'	35:DA:1762:A:O2'	2.15	0.46
35:DA:177:G:H3'	35:DA:178:G:C8	2.51	0.46
28:B3:43:ILE:O	28:B3:47:VAL:HG23	2.15	0.46
55:BW:18:ARG:HG2	55:BW:18:ARG:HH11	1.81	0.46
10:AJ:42:THR:HG23	10:AJ:67:THR:O	2.16	0.46
35:BA:383:U:H2'	35:BA:385:C:H5	1.80	0.46
48:BP:122:PRO:O	48:BP:123:LEU:HD23	2.15	0.46
1:CA:1104:G:P	2:CB:111:ARG:HD2	2.56	0.46
35:DA:1499:C:O2'	35:DA:1500:G:H5'	2.16	0.46
45:DL:15:UNK:O	45:DL:19:UNK:N	2.49	0.46
1:AA:311:C:O2'	1:AA:312:C:H5'	2.16	0.46
38:BD:33:LEU:C	38:BD:33:LEU:HD23	2.37	0.46
50:DR:44:LEU:HD13	50:DR:44:LEU:C	2.35	0.46
1:CA:416:G:H2'	1:CA:417:C:C6	2.51	0.46
1:CA:1415:G:O2'	1:CA:1416:G:H5'	2.16	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:AH:35:ILE:HG22	8:AH:39:LEU:HD21	1.98	0.46
50:DR:26:LYS:HE2	50:DR:71:GLN:H	1.80	0.46
38:BD:138:VAL:HA	38:BD:165:ILE:HG21	1.98	0.46
1:AA:930:C:C2'	1:AA:931:C:H5'	2.46	0.46
9:AI:117:HIS:O	9:AI:118:LYS:HG3	2.16	0.46
24:AY:673:PHE:CG	24:AY:674:ASP:N	2.84	0.46
24:CY:305:PRO:O	24:CY:333:GLY:HA2	2.16	0.46
35:BA:1925:C:O2'	35:BA:1926:U:H5'	2.15	0.46
1:CA:373:A:H2'	1:CA:374:A:H8	1.81	0.46
34:B9:2:LYS:HD3	35:BA:2526:G:N3	2.31	0.46
1:CA:114:U:H2'	1:CA:115:G:C8	2.51	0.46
24:AY:285:ASP:OD2	24:AY:285:ASP:N	2.48	0.46
13:AM:88:ARG:HG2	13:AM:88:ARG:HH11	1.80	0.46
1:CA:1420:C:O2	1:CA:1420:C:H2'	2.16	0.46
24:AY:5:VAL:O	24:AY:7:TYR:N	2.49	0.46
4:AD:29:PRO:O	4:AD:30:LYS:CB	2.63	0.46
35:DA:1109:C:O2	35:DA:1109:C:C2'	2.64	0.46
40:BF:4:VAL:HA	40:BF:19:GLU:HB3	1.96	0.46
34:B9:3:VAL:O	34:B9:4:ARG:HB3	2.16	0.46
57:DY:7:VAL:HG21	57:DY:8:LYS:NZ	2.31	0.46
57:BY:74:PRO:HG3	57:BY:83:THR:CG2	2.45	0.46
13:CM:4:ILE:CG2	13:CM:5:ALA:H	2.25	0.46
29:D4:9:LEU:HD13	29:D4:10:VAL:H	1.81	0.46
47:BO:9:GLU:O	47:BO:83:ALA:HA	2.15	0.46
8:AH:44:PHE:HE2	8:AH:109:ILE:CG2	2.28	0.46
31:B6:43:CYS:CB	31:B6:44:ARG:HH21	2.23	0.46
50:BR:63:ARG:HA	50:BR:80:PHE:CZ	2.51	0.46
24:AY:76:ASP:O	24:AY:77:HIS:CG	2.68	0.46
35:DA:821:A:H2'	35:DA:946:G:H5''	1.98	0.46
35:DA:512:G:HO2'	35:DA:513:A:H8	1.64	0.46
44:DK:99:ILE:O	44:DK:139:VAL:N	2.49	0.46
2:CB:189:ASP:C	2:CB:191:ASP:H	2.17	0.46
2:CB:238:LEU:O	2:CB:240:GLN:N	2.49	0.46
35:BA:2307:G:H3'	35:BA:2308:G:C5'	2.45	0.46
26:B1:44:PRO:HB2	26:B1:46:LEU:CD1	2.46	0.46
50:DR:33:ARG:HG3	50:DR:115:GLU:HG3	1.98	0.46
39:BE:59:VAL:CG2	39:BE:63:LEU:HA	2.45	0.46
38:DD:70:TRP:CD1	38:DD:70:TRP:C	2.89	0.46
39:DE:36:ARG:HH22	39:DE:88:GLY:H	1.64	0.46
49:DQ:78:PRO:HB2	49:DQ:81:VAL:HG11	1.98	0.46
1:CA:1053:G:C4'	1:CA:1054:C:H5'	2.46	0.46
35:DA:1061:U:C4'	35:DA:1070:A:H1'	2.43	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1077:A:O2'	35:DA:1078:U:H5'	2.16	0.46
1:AA:324:G:N2	1:AA:326:G:H3'	2.31	0.46
2:AB:51:LEU:HD22	2:AB:55:PHE:HE2	1.81	0.46
24:AY:100:VAL:HG23	24:AY:329:ARG:CG	2.44	0.46
38:DD:196:VAL:HG12	38:DD:196:VAL:O	2.16	0.46
17:AQ:52:LYS:HD3	17:AQ:55:ASP:OD2	2.15	0.46
37:DC:150:ILE:HG13	37:DC:154:ILE:HG13	1.97	0.46
18:CR:59:SER:N	18:CR:62:GLU:HB2	2.24	0.46
52:BT:11:GLU:C	52:BT:13:ARG:N	2.70	0.46
2:AB:32:ILE:CD1	2:AB:40:HIS:HB3	2.45	0.46
25:D0:40:GLN:NE2	25:D0:44:ARG:N	2.64	0.46
46:DN:129:PRO:O	46:DN:130:HIS:CB	2.59	0.46
1:AA:814:A:H2'	1:AA:816:A:C5'	2.42	0.46
42:DH:20:ALA:HB1	42:DH:21:PRO:HD3	1.98	0.46
35:DA:7:G:H1	35:DA:2896:C:N4	2.13	0.46
40:DF:165:ARG:HH11	40:DF:165:ARG:HB3	1.80	0.46
52:DT:32:TYR:HB3	52:DT:81:PRO:HB2	1.98	0.46
9:CI:9:ARG:HB3	9:CI:104:ARG:HH12	1.81	0.46
1:AA:1118:C:H42	1:AA:1155:G:H1	1.63	0.46
20:AT:104:LEU:HD23	20:AT:105:SER:O	2.16	0.46
24:AY:363:ARG:NH1	24:AY:363:ARG:HG3	2.23	0.46
24:CY:81:ILE:C	24:CY:82:ILE:HG13	2.36	0.46
28:D3:44:ARG:O	28:D3:45:GLY:C	2.54	0.46
35:DA:848:G:H5''	35:DA:928:G:N2	2.30	0.46
24:AY:689:LYS:CG	24:AY:690:GLY:N	2.78	0.46
1:AA:1423:G:H5''	47:BO:49:ARG:HH22	1.81	0.46
22:AV:4:G:O2'	22:AV:5:G:P	2.74	0.46
52:DT:75:ILE:CD1	52:DT:75:ILE:N	2.77	0.46
25:B0:19:LYS:HD3	25:B0:41:ARG:NH2	2.26	0.46
35:BA:2105:C:N4	35:BA:2184:G:H1	2.12	0.46
20:AT:75:ASN:HD22	20:AT:75:ASN:H	1.63	0.46
58:BZ:153:SER:O	58:BZ:155:LEU:HD23	2.15	0.46
12:CL:117:ARG:HH22	12:CL:124:LYS:HB2	1.81	0.46
1:AA:1424:C:H2'	1:AA:1425:U:C6	2.46	0.46
48:BP:71:VAL:HG12	48:BP:72:PRO:HD3	1.97	0.46
35:BA:428:A:H3'	35:BA:429:A:H8	1.80	0.46
35:BA:1491:G:H21	35:BA:1492:G:H1'	1.81	0.46
35:DA:1668:A:H61	35:DA:1676:A:H61	1.63	0.46
22:AW:48:U:C6	22:AW:51:U:OP1	2.69	0.46
1:AA:46:G:O2'	1:AA:365:U:H1'	2.16	0.46
35:DA:1843:C:H2'	35:DA:1844:C:C6	2.50	0.46
35:DA:520:G:H2'	35:DA:521:G:H8	1.81	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1006:C:O2'	46:DN:106:MET:HB3	2.15	0.46
52:BT:26:ASP:OD2	52:BT:26:ASP:O	2.34	0.46
35:BA:1196:C:O2'	35:BA:1197:G:H5'	2.16	0.46
1:CA:961:U:OP2	1:CA:1223:C:C4'	2.64	0.46
35:BA:324:A:N6	35:BA:338:G:O2'	2.49	0.46
35:BA:71:A:N3	35:BA:73:A:N6	2.64	0.46
1:AA:416:G:H2'	1:AA:417:C:C6	2.51	0.46
24:CY:394:ALA:HB1	24:CY:395:PRO:HD2	1.97	0.46
26:B1:92:LYS:CE	35:BA:153:C:OP1	2.64	0.46
5:CE:150:ARG:O	5:CE:150:ARG:HG2	2.16	0.46
35:DA:325:G:H2'	35:DA:326:G:C8	2.50	0.46
38:BD:45:ASN:CG	38:BD:46:GLN:H	2.19	0.46
8:CH:19:VAL:HG23	8:CH:21:LYS:HB2	1.97	0.46
1:AA:826:C:H2'	1:AA:827:U:H6	1.79	0.46
43:BJ:108:UNK:O	43:BJ:109:UNK:C	2.64	0.46
35:BA:393:C:O2'	35:BA:394:A:H5'	2.14	0.46
35:BA:1159:U:H5''	35:BA:1159:U:H6	1.81	0.46
2:AB:213:LEU:HD23	2:AB:213:LEU:C	2.36	0.46
41:BG:111:LEU:CD2	41:BG:120:LEU:HD21	2.45	0.46
41:BG:139:LEU:HD23	41:BG:149:VAL:HG11	1.98	0.46
41:BG:7:LEU:HD11	41:BG:103:LEU:HB2	1.98	0.46
10:AJ:79:ARG:HA	10:AJ:79:ARG:HD3	1.62	0.46
56:BX:12:VAL:CB	56:BX:17:ALA:HB1	2.14	0.46
4:CD:8:VAL:C	4:CD:10:ARG:N	2.69	0.46
24:AY:146:LEU:HD23	24:AY:146:LEU:C	2.36	0.46
24:AY:168:ILE:HG22	24:AY:175:SER:OG	2.16	0.46
24:AY:181:LEU:HD11	24:AY:242:LEU:HD22	1.97	0.46
35:DA:186:G:C2	35:DA:211:A:C2	3.04	0.46
35:DA:211:A:H2'	35:DA:212:G:C5'	2.23	0.46
35:BA:1109:C:C2'	35:BA:1109:C:O2	2.64	0.46
34:B9:4:ARG:NH1	35:BA:2477:C:N4	2.64	0.46
38:DD:35:LYS:HD2	38:DD:36:PRO:HA	1.96	0.46
33:B8:56:GLU:HA	33:B8:59:LYS:HZ3	1.75	0.46
48:BP:50:ARG:HG3	48:BP:51:PHE:N	2.31	0.46
57:DY:74:PRO:HG3	57:DY:83:THR:CG2	2.45	0.46
57:BY:31:LEU:CD2	57:BY:31:LEU:N	2.78	0.46
57:BY:8:LYS:HE2	57:BY:72:VAL:O	2.16	0.46
42:BH:13:LYS:C	42:BH:15:VAL:H	2.17	0.46
31:D6:7:ILE:CD1	31:D6:7:ILE:N	2.79	0.46
33:D8:36:LYS:O	33:D8:37:SER:C	2.54	0.46
35:DA:2314:C:C2'	35:DA:2315:G:H5'	2.46	0.46
10:CJ:3:LYS:N	10:CJ:75:ILE:O	2.49	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1003:G:HO2'	1:CA:1005:A:P	2.39	0.46
50:DR:83:ILE:O	50:DR:87:TYR:CE2	2.69	0.46
35:DA:2228:G:H2'	35:DA:2229:C:H6	1.76	0.46
24:CY:146:LEU:CD1	24:CY:167:PRO:HD3	2.46	0.46
24:CY:238:THR:HG23	24:CY:241:GLU:N	2.24	0.46
24:CY:276:VAL:CA	24:CY:280:LEU:HD23	2.46	0.46
51:BS:89:ARG:HG3	51:BS:92:TYR:N	2.30	0.46
31:D6:45:LYS:HG2	35:DA:2371:G:C4'	2.46	0.46
3:CC:64:VAL:HG12	3:CC:66:VAL:HG23	1.98	0.46
35:BA:814:C:C5	48:BP:27:HIS:CE1	3.04	0.46
44:DK:103:GLN:C	44:DK:106:GLU:HG2	2.36	0.46
35:DA:1596:A:C2'	35:DA:1597:A:H5'	2.45	0.46
1:AA:1505:G:H4'	1:AA:1506:U:C5'	2.46	0.46
1:AA:781:A:C2'	1:AA:782:A:H5'	2.46	0.46
35:DA:814:C:C5	48:DP:27:HIS:CE1	3.04	0.46
48:BP:115:LEU:HA	48:BP:134:ALA:CB	2.42	0.46
2:CB:86:GLU:C	2:CB:88:ALA:N	2.69	0.46
26:B1:44:PRO:O	26:B1:46:LEU:HD13	2.16	0.46
42:DH:66:GLY:HA2	42:DH:69:ARG:CB	2.43	0.46
3:AC:20:SER:HA	3:AC:57:ILE:O	2.16	0.46
1:AA:1198:G:C6	1:AA:1199:U:N3	2.84	0.46
39:BE:49:LEU:O	39:BE:78:LEU:CB	2.64	0.46
1:CA:1195:C:H2'	1:CA:1197:G:O4'	2.16	0.46
35:DA:1022:G:O2'	35:DA:1023:U:P	2.74	0.46
35:DA:1141:U:OP1	46:DN:25:ARG:NH1	2.49	0.46
24:AY:70:THR:O	24:AY:80:ASN:HA	2.15	0.46
52:BT:82:LEU:N	52:BT:82:LEU:CD1	2.78	0.46
38:DD:270:ILE:H	38:DD:270:ILE:CD1	2.28	0.46
15:CO:17:ARG:NH1	15:CO:77:ARG:NH1	2.64	0.46
52:BT:108:ARG:HH11	52:BT:108:ARG:HB2	1.79	0.46
52:BT:102:ILE:HB	52:BT:110:ILE:CD1	2.45	0.46
27:D2:45:SER:O	27:D2:46:GLN:NE2	2.49	0.46
53:BU:31:SER:O	53:BU:33:ARG:N	2.48	0.46
1:AA:243:A:C2	1:AA:246:A:C8	3.03	0.46
24:CY:428:LEU:HD13	24:CY:440:VAL:HG11	1.96	0.46
35:DA:288:C:O2'	35:DA:289:A:H5'	2.16	0.46
8:AH:83:ILE:CD1	8:AH:137:VAL:HG22	2.41	0.46
35:BA:2163:C:C2'	35:BA:2164:C:H5'	2.46	0.46
38:DD:147:LEU:HD12	38:DD:147:LEU:HA	1.66	0.46
35:BA:391:G:O2'	35:BA:392:C:H5'	2.15	0.46
48:DP:77:ARG:HB2	48:DP:78:PRO:CD	2.40	0.46
9:CI:111:ARG:HG2	9:CI:112:LYS:N	2.30	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1188:U:C2'	35:BA:1189:A:H5'	2.45	0.46
20:AT:57:ARG:NH1	20:AT:102:GLY:CA	2.74	0.46
52:DT:128:GLU:OE2	52:DT:129:ARG:N	2.49	0.46
44:DK:17:ALA:HB3	44:DK:38:VAL:CG1	2.46	0.46
35:DA:841:A:H2'	35:DA:842:G:O4'	2.15	0.46
35:BA:2478:A:C2'	35:BA:2479:G:H5'	2.46	0.46
35:BA:739:G:HO2'	35:BA:740:U:H6	1.60	0.46
35:BA:911:A:H2'	49:BQ:9:TYR:OH	2.15	0.46
35:DA:120:U:O2	35:DA:120:U:C2'	2.62	0.46
35:BA:2794:C:N4	35:BA:2801(A):A:H61	2.13	0.46
11:AK:87:THR:O	11:AK:88:GLY:C	2.54	0.46
32:D7:5:TRP:CZ3	35:DA:464:U:H4'	2.51	0.46
54:DV:35:LEU:HB3	54:DV:37:VAL:HG23	1.98	0.46
1:CA:1443:G:N3	1:CA:1443:G:H2'	2.29	0.46
35:DA:2428:G:H5'	35:DA:2429:G:P	2.56	0.46
35:DA:492:A:O2'	35:DA:493:G:H5'	2.16	0.46
1:AA:473:G:H2'	1:AA:474:G:C8	2.47	0.46
38:DD:227:ASN:O	38:DD:230:ASP:N	2.45	0.46
1:CA:1346:A:H1'	1:CA:1348:U:C5	2.51	0.46
35:DA:1812:A:O2'	35:DA:1813:G:H5'	2.16	0.46
35:DA:20:C:H2'	35:DA:21:A:C8	2.51	0.46
58:DZ:56:VAL:HA	58:DZ:70:LEU:HD23	1.98	0.46
57:DY:52:SER:N	57:DY:53:PRO:HD2	2.30	0.46
33:D8:42:ARG:HH11	35:DA:2350:C:H5	1.64	0.46
35:DA:1930:G:O2'	35:DA:1931:U:O5'	2.34	0.46
1:AA:992:U:O2'	1:AA:993:G:P	2.74	0.46
26:B1:24:ALA:HA	26:B1:32:LYS:HG3	1.98	0.46
35:BA:654(P):C:O2'	35:BA:654(Q):C:H5'	2.15	0.46
38:BD:213:ARG:C	38:BD:215:LEU:N	2.67	0.46
13:CM:106:ASN:HB3	13:CM:107:ALA:H	1.52	0.46
35:DA:859:G:N2	35:DA:917:A:OP2	2.27	0.46
35:DA:1808:U:H2'	35:DA:1809:A:O4'	2.16	0.46
35:DA:2859:G:H2'	35:DA:2860:A:C8	2.51	0.46
5:CE:43:LEU:CD2	5:CE:132:ALA:HB1	2.46	0.46
24:CY:484:ARG:CD	24:CY:559:PRO:HB2	2.46	0.46
6:AF:21:LEU:O	6:AF:24:GLU:HB3	2.16	0.46
35:DA:343:C:O2'	35:DA:344:G:H5'	2.15	0.46
1:AA:1216:G:H2'	1:AA:1217:C:C6	2.51	0.46
35:DA:773:U:H2'	35:DA:774:A:H5'	1.98	0.46
1:CA:221:C:H5'	1:CA:222:U:OP2	2.16	0.46
38:DD:139:GLY:H	38:DD:165:ILE:HB	1.80	0.46
15:AO:31:LEU:N	15:AO:31:LEU:HD22	2.31	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:DC:85:LYS:O	37:DC:89:GLU:HG3	2.16	0.46
5:AE:150:ARG:HG2	5:AE:150:ARG:O	2.16	0.46
22:AV:27:U:H6	22:AV:27:U:O5'	1.99	0.46
29:B4:7:PRO:HG2	41:BG:61:ALA:O	2.16	0.45
35:BA:2313:C:O2'	35:BA:2314:C:H5'	2.16	0.45
24:CY:456:GLU:O	24:CY:459:LEU:HD12	2.16	0.45
39:DE:120:TRP:CE3	39:DE:155:LYS:HE3	2.51	0.45
58:DZ:168:GLU:HG3	58:DZ:169:GLU:N	2.31	0.45
35:BA:2732:G:H5''	35:BA:2733:A:C8	2.52	0.45
53:DU:49:HIS:O	53:DU:52:ARG:HB2	2.16	0.45
54:DV:39:LEU:HA	54:DV:47:VAL:CG1	2.45	0.45
16:AP:59:TRP:O	16:AP:62:VAL:HG22	2.16	0.45
53:BU:50:ARG:C	53:BU:52:ARG:N	2.68	0.45
54:BV:39:LEU:O	54:BV:40:LEU:CB	2.64	0.45
38:DD:35:LYS:CG	38:DD:63:ARG:HA	2.33	0.45
31:B6:12:GLU:HA	31:B6:23:THR:HA	1.99	0.45
35:BA:925:C:C4	35:BA:926:A:N7	2.84	0.45
41:DG:47:LYS:HD3	41:DG:47:LYS:H	1.81	0.45
5:CE:101:ILE:N	5:CE:101:ILE:HD13	2.20	0.45
35:BA:661:C:H4'	48:BP:18:ARG:HG2	1.97	0.45
44:DK:106:GLU:HG3	44:DK:107:ILE:N	2.30	0.45
2:CB:113:HIS:O	2:CB:117:GLU:HG3	2.16	0.45
35:DA:2573:C:OP1	35:DA:2574:G:OP1	2.34	0.45
48:DP:98:GLU:O	48:DP:102:ARG:NH2	2.49	0.45
2:CB:17:PHE:CG	2:CB:18:GLY:N	2.83	0.45
1:AA:252:U:C4	1:AA:253:U:O4	2.70	0.45
2:AB:119:GLU:C	2:AB:121:LEU:H	2.20	0.45
35:BA:2807:G:H3'	35:BA:2808:U:C5'	2.39	0.45
35:DA:2809:A:OP2	35:DA:2891:G:N1	2.46	0.45
35:BA:2722:G:O2'	50:BR:5:LYS:HB2	2.16	0.45
1:AA:1053:G:C4'	1:AA:1054:C:H5'	2.45	0.45
51:DS:106:ARG:O	51:DS:107:GLU:HB2	2.15	0.45
51:DS:35:ILE:HD11	51:DS:99:LYS:HE3	1.98	0.45
24:AY:526:VAL:N	24:AY:565:VAL:O	2.49	0.45
3:AC:43:LEU:HD22	3:AC:47:LEU:HD22	1.98	0.45
35:BA:676:A:H1'	35:BA:2443:C:C1'	2.43	0.45
27:D2:6:VAL:HG12	27:D2:6:VAL:O	2.16	0.45
47:BO:69:ILE:HD12	47:BO:69:ILE:H	1.79	0.45
11:AK:125:PHE:N	11:AK:125:PHE:HD1	2.14	0.45
30:D5:33:CYS:SG	30:D5:36:CYS:SG	3.11	0.45
24:CY:170:ARG:HH22	24:CY:205:TYR:HE1	1.62	0.45
52:BT:102:ILE:HG13	52:BT:103:ARG:N	2.31	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1431:C:H2'	1:CA:1432:G:H5'	1.98	0.45
47:DO:24:VAL:O	47:DO:24:VAL:HG23	2.14	0.45
24:CY:568:TYR:CD2	24:CY:569:ASP:HB2	2.51	0.45
48:DP:46:LYS:HG2	48:DP:52:GLU:CG	2.46	0.45
27:D2:46:GLN:O	27:D2:47:ASN:O	2.33	0.45
29:B4:14:ILE:O	29:B4:15:ILE:HD13	2.16	0.45
35:BA:1607:C:H5'	35:BA:1608:A:C8	2.51	0.45
24:AY:150:ILE:C	24:AY:152:THR:N	2.69	0.45
54:BV:21:ARG:HB3	54:BV:91:TYR:HD1	1.71	0.45
52:BT:33:LYS:NZ	52:BT:43:GLN:NE2	2.65	0.45
9:CI:126:SER:O	9:CI:127:LYS:HB3	2.16	0.45
35:DA:2776:A:C6	35:DA:2782:G:H1'	2.50	0.45
35:DA:2478:A:C2'	35:DA:2479:G:H5'	2.45	0.45
42:DH:53:GLU:CD	42:DH:54:ARG:H	2.19	0.45
1:CA:724:G:O2'	1:CA:725:G:H5'	2.16	0.45
39:DE:174:ASP:OD2	39:DE:175:VAL:N	2.49	0.45
39:DE:199:ARG:NH1	39:DE:199:ARG:HB2	2.32	0.45
53:BU:72:HIS:HE1	53:BU:107:ALA:HB2	1.82	0.45
46:BN:32:THR:HG23	46:BN:37:LYS:HB3	1.99	0.45
1:CA:190:U:O2	20:CT:105:SER:HB2	2.16	0.45
35:BA:818:G:OP2	35:BA:1187:G:O6	2.34	0.45
35:DA:1187:G:H5''	54:DV:81:TYR:CE2	2.51	0.45
14:AN:42:ILE:HA	14:AN:42:ILE:HD13	1.68	0.45
16:AP:74:LEU:HD22	16:AP:79:VAL:HG21	1.98	0.45
6:CF:97:PHE:O	18:CR:31:LEU:HD23	2.17	0.45
36:BB:15:A:H1'	36:BB:110:G:C5	2.50	0.45
35:DA:911:A:H2'	49:DQ:9:TYR:OH	2.16	0.45
35:BA:1788:C:H2'	35:BA:1789:A:C8	2.50	0.45
35:DA:2543:G:C2	35:DA:2765:A:H2'	2.51	0.45
35:BA:962:G:C2'	35:BA:963:U:H5'	2.45	0.45
54:BV:35:LEU:C	54:BV:37:VAL:H	2.19	0.45
3:CC:138:VAL:O	3:CC:140:ARG:N	2.49	0.45
12:CL:115:LYS:O	12:CL:117:ARG:N	2.48	0.45
3:AC:206:GLU:HG2	3:AC:207:VAL:N	2.30	0.45
1:CA:1094:G:O2'	1:CA:1095:U:OP2	2.34	0.45
38:BD:11:PRO:C	38:BD:13:ARG:N	2.68	0.45
35:DA:311:A:H5'	35:DA:332:A:N3	2.31	0.45
35:DA:1675:C:H2'	35:DA:1676:A:O4'	2.17	0.45
1:CA:534:U:H6	1:CA:534:U:H5'	1.81	0.45
8:CH:6:ILE:HG21	8:CH:85:ARG:NH1	2.30	0.45
35:DA:1843:C:H5'	38:DD:253:GLN:NE2	2.30	0.45
35:DA:1071:G:N2	35:DA:1090:U:C5	2.83	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1101:U:H2'	35:DA:1102:C:C6	2.50	0.45
1:AA:1410:G:H2'	1:AA:1411:C:C6	2.50	0.45
35:DA:2507:C:H2'	35:DA:2508:G:H8	1.81	0.45
51:DS:44:LYS:O	51:DS:46:VAL:HG23	2.16	0.45
2:CB:8:LYS:HB2	2:CB:9:GLU:OE2	2.16	0.45
35:BA:626:U:H3	48:BP:105:LEU:HG	1.81	0.45
35:BA:1614:A:H62	55:BW:93:ALA:HB2	1.81	0.45
56:DX:3:THR:O	56:DX:4:ALA:HB3	2.17	0.45
35:DA:1462:C:H4'	35:DA:2703:C:H5'	1.98	0.45
46:DN:119:ARG:HG3	46:DN:119:ARG:HH11	1.81	0.45
41:BG:152:LEU:HD23	41:BG:152:LEU:N	2.30	0.45
1:AA:335:C:O2'	1:AA:336:C:H5'	2.16	0.45
35:DA:777:A:C2	35:DA:778:G:C4	3.03	0.45
58:BZ:27:VAL:O	58:BZ:27:VAL:HG13	2.17	0.45
1:AA:830:G:H2'	1:AA:831:U:C6	2.52	0.45
48:DP:32:THR:CG2	48:DP:37:GLY:HA2	2.45	0.45
15:AO:31:LEU:CD2	15:AO:31:LEU:N	2.79	0.45
1:CA:311:C:O2'	1:CA:312:C:H5'	2.17	0.45
1:AA:545:C:O2'	1:AA:546:G:H5'	2.16	0.45
55:DW:12:ILE:HG13	55:DW:42:ARG:NH1	2.31	0.45
35:BA:725:G:C6	35:BA:726:G:N1	2.84	0.45
35:BA:539:G:O2'	35:BA:540:C:H5'	2.17	0.45
9:CI:33:PHE:C	9:CI:35:GLU:H	2.19	0.45
35:BA:560:C:H2'	35:BA:561:G:O4'	2.16	0.45
35:DA:1355:G:O2'	35:DA:1356:G:H5'	2.15	0.45
54:BV:89:GLN:OE1	54:BV:89:GLN:HA	2.17	0.45
41:DG:31:VAL:HG13	41:DG:31:VAL:O	2.15	0.45
46:DN:123:TYR:N	46:DN:123:TYR:CD1	2.84	0.45
13:AM:4:ILE:CG2	13:AM:5:ALA:H	2.23	0.45
35:DA:2011:U:C2'	35:DA:2012:G:H5'	2.47	0.45
35:DA:2732:G:H5''	35:DA:2733:A:C8	2.51	0.45
24:AY:408:VAL:HG22	24:AY:454:MET:HA	1.98	0.45
24:AY:88:VAL:O	24:AY:90:PHE:N	2.49	0.45
41:BG:77:ILE:HG22	41:BG:80:PHE:CA	2.42	0.45
35:BA:2131:G:C8	35:BA:2133:G:N3	2.84	0.45
56:DX:12:VAL:HG12	56:DX:27:THR:C	2.35	0.45
33:B8:59:LYS:HD3	48:BP:50:ARG:HB3	1.99	0.45
58:DZ:44:PHE:C	58:DZ:44:PHE:CD1	2.88	0.45
57:DY:12:THR:HA	57:DY:25:GLY:O	2.16	0.45
35:BA:272(G):C:H42	35:BA:363(C):G:H1	1.63	0.45
35:DA:272(G):C:H42	35:DA:363(C):G:H1	1.64	0.45
51:DS:13:ARG:O	51:DS:14:VAL:HB	2.16	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:85:G:N3	35:BA:103:A:C2	2.84	0.45
31:D6:11:LEU:HD12	31:D6:25:LYS:HA	1.99	0.45
31:D6:5:VAL:HB	35:DA:2284:C:P	2.55	0.45
35:BA:1058:G:N2	44:BK:126:MET:HE3	2.31	0.45
24:CY:148:LEU:CD1	24:CY:151:ARG:HH11	2.29	0.45
24:CY:259:PHE:N	24:CY:259:PHE:CD1	2.84	0.45
30:B5:44:THR:CG2	50:BR:101:ALA:HB2	2.30	0.45
2:CB:164:VAL:CG1	2:CB:165:VAL:N	2.79	0.45
49:DQ:63:LYS:NZ	58:DZ:175:VAL:HG21	2.30	0.45
35:BA:814:C:N3	35:BA:1193:G:O6	2.49	0.45
3:AC:35:GLU:O	3:AC:39:ILE:HG13	2.16	0.45
3:AC:52:LEU:HD12	3:AC:55:VAL:HG22	1.98	0.45
48:DP:115:LEU:HA	48:DP:134:ALA:CB	2.42	0.45
48:DP:98:GLU:HA	48:DP:101:VAL:HG22	1.98	0.45
48:BP:99:LEU:HG	48:BP:100:LEU:HD22	1.97	0.45
48:BP:95:VAL:CG2	48:BP:125:VAL:HG23	2.44	0.45
44:BK:105:LEU:CD2	44:BK:120:LEU:HD13	2.46	0.45
35:BA:2787:C:O2	35:BA:2787:C:H2'	2.17	0.45
1:CA:1198:G:C6	1:CA:1199:U:N3	2.84	0.45
41:DG:23:PHE:CE2	41:DG:168:GLU:HG2	2.51	0.45
38:BD:70:TRP:CD1	38:BD:70:TRP:C	2.89	0.45
35:DA:2850:A:C2	50:DR:61:HIS:CD2	3.05	0.45
29:D4:22:ILE:H	29:D4:22:ILE:HD12	1.81	0.45
35:BA:2850:A:C2	50:BR:61:HIS:CD2	3.03	0.45
24:AY:15:ILE:C	24:AY:101:LEU:HD13	2.37	0.45
52:BT:29:ARG:HA	52:BT:29:ARG:HD2	1.72	0.45
35:BA:2742:C:HO2'	35:BA:2743:C:H5'	1.79	0.45
1:AA:1234:C:HO2'	1:AA:1364:U:H6	1.61	0.45
6:CF:67:MET:CE	6:CF:72:VAL:HA	2.46	0.45
39:BE:23:VAL:CG1	39:BE:173:VAL:HG21	2.46	0.45
39:BE:9:VAL:HG13	39:BE:25:VAL:O	2.15	0.45
35:DA:2795:G:N3	35:DA:2795:G:H2'	2.30	0.45
2:CB:32:ILE:CD1	2:CB:40:HIS:HB3	2.46	0.45
44:DK:23:VAL:HG12	44:DK:23:VAL:O	2.16	0.45
42:BH:121:ILE:HA	42:BH:134:SER:O	2.16	0.45
52:BT:102:ILE:O	52:BT:103:ARG:C	2.55	0.45
1:CA:1511:G:C2'	1:CA:1512:U:H5'	2.46	0.45
1:CA:1277:C:C3'	1:CA:1277:C:C6	3.00	0.45
13:AM:19:LEU:HD22	13:AM:19:LEU:N	2.31	0.45
35:BA:2001:A:H4'	35:BA:2689:U:H2'	1.99	0.45
9:AI:125:TYR:HD2	9:AI:126:SER:H	1.64	0.45
35:BA:2466:C:C2'	35:BA:2467:C:H5'	2.46	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:CY:264:LEU:HD22	24:CY:265:LYS:NZ	2.31	0.45
1:CA:666:G:N2	1:CA:667:G:H1'	2.32	0.45
35:DA:238:C:H2'	35:DA:239:U:O4'	2.15	0.45
3:AC:131:ARG:O	3:AC:132:ARG:C	2.54	0.45
3:AC:151:VAL:CG1	3:AC:152:ILE:N	2.79	0.45
35:DA:1114:G:O2'	35:DA:1115:G:H5''	2.17	0.45
35:BA:2514:U:C2	35:BA:2515:C:C5	3.04	0.45
22:CV:20:U:H5'	22:CV:21:A:OP2	2.16	0.45
1:AA:559:A:P	5:AE:126:ARG:HH22	2.39	0.45
36:DB:81:G:C2	36:DB:82:G:N7	2.84	0.45
42:BH:146:ALA:O	42:BH:147:ASN:C	2.55	0.45
4:AD:159:ARG:HG3	4:AD:159:ARG:NH1	2.31	0.45
34:B9:34:GLN:O	34:B9:35:ARG:CB	2.64	0.45
1:AA:1371:G:C6	1:AA:1372:U:C4	3.03	0.45
35:BA:753:C:H2'	35:BA:754:C:C6	2.51	0.45
20:AT:50:GLU:HG3	20:AT:51:GLU:H	1.78	0.45
2:CB:96:ARG:N	2:CB:96:ARG:CD	2.79	0.45
56:BX:41:ASN:HA	56:BX:44:GLU:HG2	1.97	0.45
1:AA:470:C:C2'	1:AA:471:G:OP1	2.64	0.45
1:AA:1169:A:H2'	1:AA:1170:A:C8	2.51	0.45
42:DH:89:ILE:O	42:DH:89:ILE:CG1	2.63	0.45
24:AY:498:ILE:HG22	24:AY:507:TYR:CG	2.51	0.45
11:CK:107:SER:C	11:CK:108:ILE:HD12	2.36	0.45
35:DA:1345:C:C2'	35:DA:1346:G:H5'	2.47	0.45
35:BA:786:C:C2'	35:BA:787:U:H5'	2.46	0.45
35:DA:759:G:H2'	35:DA:760:G:C8	2.48	0.45
24:CY:426:GLN:O	24:CY:427:ALA:C	2.54	0.45
12:AL:119:LYS:O	12:AL:120:TYR:CB	2.64	0.45
13:AM:54:VAL:HG12	13:AM:58:GLU:CG	2.46	0.45
24:CY:659:LEU:HD13	24:CY:659:LEU:C	2.36	0.45
1:CA:923:A:H2'	1:CA:924:C:C6	2.51	0.45
35:BA:1237:A:O2'	35:BA:1238:G:P	2.74	0.45
35:BA:1385:G:H4'	35:BA:1386:C:OP1	2.17	0.45
35:DA:134:C:O2'	35:DA:135:G:H5'	2.17	0.45
35:BA:2208:A:H1'	35:BA:2219:G:C4	2.50	0.45
35:DA:271(C):C:H2'	35:DA:271(D):G:H8	1.81	0.45
19:AS:72:GLY:C	19:AS:74:PHE:N	2.70	0.45
1:AA:896:C:O2'	1:AA:897:C:H5'	2.17	0.45
37:BC:76:LEU:HB3	37:BC:114:VAL:HA	1.99	0.45
22:AV:38:A:H2'	22:AV:39:C:O4'	2.16	0.45
35:DA:1132:A:C4	35:DA:1133:U:C5	3.04	0.45
31:B6:33:LYS:HG2	31:B6:34:LEU:H	1.81	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:311:C:HO2'	1:CA:312:C:H5'	1.81	0.45
5:AE:136:MET:O	5:AE:137:GLU:C	2.54	0.45
24:AY:545:GLY:CA	24:AY:583:LYS:HG2	2.46	0.45
24:CY:190:ASN:HD21	24:CY:195:ASP:HB2	1.81	0.45
17:CQ:33:GLY:O	17:CQ:34:LYS:C	2.55	0.45
35:DA:2642:G:O2'	35:DA:2643:G:H5'	2.16	0.45
17:AQ:88:TYR:O	17:AQ:91:ARG:N	2.50	0.45
35:DA:1487:G:H3'	35:DA:1488:G:H8	1.82	0.45
7:CG:97:GLN:O	7:CG:98:SER:C	2.53	0.45
2:AB:179:LYS:O	2:AB:179:LYS:HG2	2.16	0.45
4:CD:168:ARG:HH11	4:CD:168:ARG:HA	1.80	0.45
1:CA:495:A:H4'	1:CA:496:A:OP1	2.15	0.45
1:CA:399:G:H2'	1:CA:400:C:C6	2.51	0.45
42:BH:173:PRO:HG2	42:BH:174:GLY:H	1.80	0.45
41:BG:55:LYS:HA	41:BG:58:GLN:HG3	1.98	0.45
1:CA:542:G:O2'	1:CA:543:C:H5'	2.16	0.45
4:CD:13:ARG:O	4:CD:16:GLY:N	2.39	0.45
1:AA:542:G:P	4:AD:10:ARG:HH21	2.39	0.45
24:AY:166:LEU:N	24:AY:166:LEU:HD12	2.31	0.45
35:DA:904:C:H2'	35:DA:905:U:C6	2.51	0.45
53:DU:49:HIS:CA	53:DU:52:ARG:HB2	2.46	0.45
53:DU:76:TYR:CE2	53:DU:80:ILE:HG13	2.51	0.45
35:DA:768:G:H2'	35:DA:769:G:C8	2.52	0.45
53:BU:49:HIS:CA	53:BU:52:ARG:HB2	2.46	0.45
35:BA:1155:A:O3'	53:BU:55:ARG:NH1	2.50	0.45
35:DA:272(H):C:C6	35:DA:272(H):C:H5'	2.33	0.45
40:DF:180:GLY:O	40:DF:182:ASN:N	2.49	0.45
35:DA:2393:A:O2'	35:DA:2394:C:H5'	2.16	0.45
48:DP:59:LEU:O	48:DP:59:LEU:HD23	2.17	0.45
52:BT:27:THR:C	52:BT:28:VAL:HG23	2.34	0.45
57:BY:88:LYS:HE2	57:BY:93:GLY:HA3	1.99	0.45
30:B5:7:PRO:HG2	35:BA:2016:U:O2	2.15	0.45
30:B5:2:ALA:N	35:BA:2015:A:H1'	2.30	0.45
35:BA:2016:U:O2'	35:BA:2017:U:H5'	2.16	0.45
30:D5:11:THR:OG1	35:DA:1263:U:O3'	2.34	0.45
24:CY:136:ALA:HB3	24:CY:260:LEU:CB	2.26	0.45
1:CA:1236:A:H2'	1:CA:1237:C:C5	2.50	0.45
22:CV:47:U:OP1	22:CV:47:U:H6	2.00	0.45
5:CE:144:THR:O	5:CE:145:LYS:C	2.55	0.45
35:DA:1080:C:H4'	44:DK:125:ARG:CB	2.41	0.45
54:BV:15:GLU:O	54:BV:16:PRO:C	2.53	0.45
49:DQ:55:VAL:CG2	58:DZ:178:GLU:HG3	2.46	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
53:BU:13:LYS:O	53:BU:16:LYS:HB2	2.16	0.45
39:DE:38:THR:CG2	39:DE:40:GLU:HB2	2.45	0.45
46:BN:120:LEU:C	46:BN:120:LEU:HD13	2.36	0.45
24:CY:341:VAL:HG21	24:CY:389:LEU:HD23	1.98	0.45
51:BS:28:VAL:CG1	51:BS:29:PHE:H	2.13	0.45
2:CB:215:LEU:O	2:CB:218:ALA:HB3	2.16	0.45
44:BK:77:LEU:HD13	44:BK:110:GLN:OE1	2.15	0.45
39:DE:32:PRO:CA	39:DE:90:THR:HG23	2.46	0.45
39:DE:87:GLU:O	39:DE:88:GLY:C	2.55	0.45
39:BE:36:ARG:NH1	39:BE:36:ARG:CG	2.75	0.45
35:BA:1146:C:O2	35:BA:1146:C:H2'	2.16	0.45
1:AA:1452:C:OP1	1:AA:1452:C:O4'	2.34	0.45
41:DG:125:PHE:CZ	41:DG:173:LEU:HD12	2.51	0.45
51:DS:89:ARG:HE	51:DS:91:PRO:HG2	1.80	0.45
52:BT:118:ARG:HA	52:BT:121:ILE:CB	2.43	0.45
20:CT:26:ASN:N	20:CT:26:ASN:HD22	2.12	0.45
3:AC:83:ARG:C	3:AC:85:ARG:H	2.20	0.45
2:AB:17:PHE:CG	2:AB:18:GLY:N	2.85	0.45
2:AB:207:ALA:O	2:AB:208:ILE:C	2.55	0.45
12:AL:42:THR:O	12:AL:42:THR:HG23	2.16	0.45
15:AO:74:ASP:O	15:AO:76:GLU:N	2.49	0.45
46:DN:67:LEU:HB3	46:DN:88:GLU:HG2	1.95	0.45
52:DT:7:ILE:O	52:DT:10:VAL:HB	2.17	0.45
1:AA:356:A:H2'	1:AA:357:G:H8	1.81	0.45
35:BA:1315:C:H42	35:BA:1337:G:H1	1.65	0.45
35:DA:1539:G:N3	35:DA:1540:U:H1'	2.30	0.45
40:DF:132:VAL:CG2	40:DF:133:ASN:H	2.28	0.45
34:B9:6:SER:HB2	35:BA:2466:C:H5''	1.99	0.45
1:CA:141:A:H1'	1:CA:182:U:C2	2.50	0.45
35:DA:1436:G:H1'	35:DA:1477:A:O2'	2.15	0.45
35:BA:532:A:N1	35:BA:2020:A:H1'	2.31	0.45
37:BC:101:ILE:HG13	37:BC:128:LEU:CD1	2.42	0.45
1:AA:1298:C:C5	7:AG:114:ARG:HD3	2.51	0.45
24:CY:117:GLN:NE2	24:CY:120:THR:CG2	2.80	0.45
1:CA:1351:U:H6	1:CA:1351:U:O5'	1.98	0.45
25:B0:26:TYR:CE2	35:BA:857:C:H1'	2.50	0.45
36:DB:14:U:H5'	36:DB:71:C:O4'	2.16	0.45
1:AA:1351:U:O5'	1:AA:1351:U:H6	2.00	0.45
24:CY:327:PHE:CD2	24:CY:376:ALA:HB2	2.50	0.45
35:DA:1638:C:H1'	35:DA:2698:U:O2'	2.16	0.45
35:BA:604:G:O2'	35:BA:605:C:H5'	2.15	0.45
1:CA:1291:G:H2'	1:CA:1292:U:C6	2.51	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:657:U:C2	35:DA:658:C:C5	3.05	0.45
47:BO:107:ARG:HA	47:BO:112:MET:HE2	1.97	0.45
4:CD:127:THR:HG23	4:CD:147:ALA:HB3	1.99	0.45
21:CU:23:PRO:C	21:CU:25:LYS:N	2.69	0.45
13:CM:10:PRO:O	13:CM:11:ARG:CB	2.65	0.45
27:B2:64:LEU:C	27:B2:64:LEU:HD13	2.37	0.45
41:DG:33:ARG:N	41:DG:33:ARG:HD3	2.30	0.45
3:CC:53:ALA:HB2	3:CC:115:LEU:HG	1.97	0.45
1:CA:1254:C:H2'	1:CA:1255:G:H8	1.80	0.45
46:BN:14:VAL:HG11	46:BN:137:LYS:CD	2.45	0.45
35:BA:2202:C:H2'	38:BD:151:LYS:HZ3	1.80	0.45
22:AV:72:A:C6	22:AV:73:A:C6	3.03	0.45
2:AB:8:LYS:O	2:AB:9:GLU:C	2.54	0.45
2:CB:7:VAL:C	2:CB:11:LEU:HG	2.36	0.45
43:DJ:9:UNK:O	43:DJ:11:UNK:N	2.48	0.45
37:DC:182:PRO:HB3	37:DC:184:GLU:OE2	2.16	0.45
35:BA:440:G:N2	40:BF:46:ARG:NH2	2.64	0.45
1:AA:1515:C:O2'	1:AA:1516:G:H5'	2.16	0.45
50:DR:92:GLY:HA2	50:DR:94:TYR:CE1	2.51	0.45
58:BZ:26:GLY:O	58:BZ:27:VAL:CB	2.64	0.45
1:AA:771:G:H2'	1:AA:772:U:H6	1.82	0.45
3:CC:29:TYR:CG	14:CN:36:PHE:HE1	2.34	0.45
30:B5:22:HIS:HE1	35:BA:2624:G:H1'	1.82	0.45
35:DA:1628:G:O2'	35:DA:1629:U:H5'	2.17	0.45
22:AV:59:A:C2'	22:AV:60:U:H5'	2.47	0.45
15:CO:29:VAL:HG11	15:CO:67:LEU:HD21	1.99	0.45
1:AA:56:U:H2'	1:AA:57:G:C8	2.52	0.45
5:CE:136:MET:O	5:CE:137:GLU:C	2.54	0.45
1:AA:763:G:H2'	1:AA:764:C:H6	1.82	0.45
7:CG:72:ARG:HG3	7:CG:73:MET:HG3	1.98	0.45
1:CA:743:U:H2'	1:CA:744:C:C6	2.51	0.45
35:BA:1951:U:H2'	35:BA:1953:A:OP2	2.16	0.45
1:CA:940:C:O2'	1:CA:941:G:H5'	2.17	0.45
2:AB:169:LYS:HD3	2:AB:169:LYS:O	2.16	0.45
7:AG:88:PRO:HG2	7:AG:88:PRO:O	2.16	0.45
8:AH:122:ARG:HB3	8:AH:122:ARG:HH11	1.82	0.45
24:AY:662:LYS:HZ2	42:BH:175:LYS:HG3	1.76	0.45
1:CA:1408:A:H2'	1:CA:1409:C:H6	1.81	0.45
35:DA:904:C:O2'	58:DZ:169:GLU:OE2	2.31	0.45
40:BF:29:ASN:O	40:BF:30:PRO:C	2.55	0.45
40:BF:34:TRP:CB	48:BP:10:PRO:HB2	2.34	0.45
53:DU:66:ASN:O	53:DU:68:ALA:N	2.49	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
53:BU:57:PHE:O	53:BU:58:ARG:C	2.55	0.45
35:BA:1709:U:H3	35:BA:1749:A:H61	1.65	0.45
35:BA:2134:A:N3	35:BA:2134:A:H2'	2.31	0.45
35:DA:85:G:N3	35:DA:103:A:C2	2.84	0.45
33:D8:53:PRO:HG2	33:D8:54:GLU:H	1.82	0.45
27:D2:41:ILE:O	27:D2:41:ILE:HG13	2.17	0.45
41:DG:44:GLY:O	41:DG:47:LYS:HD3	2.16	0.45
35:BA:1058:G:H21	44:BK:126:MET:HE1	1.82	0.45
30:D5:51:TYR:HD2	30:D5:52:TYR:H	1.63	0.45
35:BA:2616:C:H2'	35:BA:2616:C:O2	2.17	0.45
24:CY:38:ARG:O	24:CY:39:ILE:C	2.54	0.45
31:B6:43:CYS:O	31:B6:44:ARG:CB	2.63	0.45
51:BS:97:ARG:O	51:BS:97:ARG:NE	2.49	0.45
31:D6:16:CYS:O	31:D6:17:LYS:C	2.53	0.45
35:BA:2260:C:H2'	35:BA:2261:C:C6	2.49	0.45
58:DZ:145:GLU:OE1	58:DZ:146:ILE:HG23	2.17	0.45
39:BE:38:THR:C	39:BE:40:GLU:H	2.20	0.45
48:DP:127:ALA:C	48:DP:148:LEU:HD11	2.37	0.45
1:AA:1504:G:OP1	1:AA:1507:A:H4'	2.16	0.45
50:DR:96:ARG:O	50:DR:114:VAL:HA	2.16	0.45
1:AA:253:U:H2'	1:AA:254:G:C8	2.51	0.45
13:CM:49:THR:C	13:CM:51:ALA:N	2.70	0.45
19:AS:41:VAL:C	19:AS:43:GLU:N	2.68	0.45
35:BA:2820:A:C8	39:BE:191:PRO:CB	2.99	0.45
1:CA:1442:G:H8	1:CA:1442:G:H3'	1.81	0.45
30:B5:56:LYS:CG	30:B5:57:VAL:H	2.05	0.45
3:AC:43:LEU:O	3:AC:45:LYS:N	2.50	0.45
22:CW:8:U:H3	22:CW:14:A:N6	2.15	0.45
35:BA:2443:C:O2	35:BA:2443:C:C2'	2.65	0.45
10:CJ:50:ILE:CD1	10:CJ:50:ILE:H	2.15	0.45
35:BA:2836:U:H2'	35:BA:2837:G:C8	2.51	0.45
52:DT:82:LEU:CD1	52:DT:82:LEU:N	2.79	0.45
41:BG:81:LYS:O	41:BG:83:ARG:HG3	2.16	0.45
49:BQ:52:VAL:O	49:BQ:54:MET:N	2.50	0.45
5:AE:11:ILE:HG22	5:AE:12:LEU:N	2.31	0.45
26:B1:60:PHE:CE1	26:B1:91:LYS:HG3	2.51	0.45
46:DN:95:PRO:HA	46:DN:98:VAL:CG2	2.47	0.45
35:DA:1313:U:C2	35:DA:1610:A:H2	2.35	0.45
35:DA:71:A:N3	35:DA:73:A:N6	2.65	0.45
38:DD:24:ILE:CD1	38:DD:25:THR:N	2.79	0.45
1:CA:243:A:C2	1:CA:246:A:C8	3.05	0.45
37:DC:173:HIS:O	37:DC:174:ALA:HB2	2.17	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
11:AK:34:ASP:OD2	11:AK:34:ASP:C	2.55	0.45
11:AK:38:ASN:HA	11:AK:39:PRO:HD3	1.83	0.45
21:CU:18:TYR:CD2	21:CU:24:ARG:HA	2.51	0.45
29:B4:48:ARG:O	29:B4:49:PHE:HD1	1.99	0.45
20:CT:89:ARG:HD2	20:CT:104:LEU:HD11	1.98	0.45
37:BC:101:ILE:H	37:BC:101:ILE:CD1	2.29	0.45
24:CY:69:VAL:O	24:CY:69:VAL:HG13	2.17	0.45
28:B3:56:VAL:CG1	28:B3:57:GLU:H	2.22	0.45
1:CA:1499:A:H1'	1:CA:1520:G:H5'	1.99	0.45
4:CD:163:GLU:C	4:CD:165:MET:H	2.20	0.45
35:DA:87:C:OP2	35:DA:90:U:O4	2.34	0.45
20:CT:69:GLY:O	20:CT:73:HIS:NE2	2.49	0.45
7:CG:116:ALA:O	7:CG:120:ILE:HG12	2.15	0.45
24:AY:539:ILE:HA	24:AY:542:VAL:CG1	2.44	0.45
35:DA:428:A:H3'	35:DA:429:A:H8	1.80	0.45
35:BA:1780:A:H5'	35:BA:1781:C:OP2	2.16	0.45
35:DA:389:G:O4'	35:DA:2413:G:C4'	2.64	0.45
16:CP:74:LEU:HD22	16:CP:79:VAL:HG21	1.98	0.45
1:AA:472:A:H2'	1:AA:473:G:O4'	2.16	0.45
26:B1:68:PRO:C	26:B1:70:VAL:N	2.70	0.45
35:DA:333:G:H2'	35:DA:333:G:N3	2.31	0.45
35:DA:2551:C:H2'	35:DA:2552:U:C6	2.51	0.45
13:CM:63:THR:CG2	13:CM:64:TRP:N	2.77	0.45
1:AA:943:U:O2'	1:AA:944:G:H5'	2.17	0.45
35:BA:2037:G:C6	35:BA:2038:G:C6	3.04	0.45
52:BT:134:GLU:O	52:BT:135:ALA:CB	2.63	0.45
35:BA:1544:A:O2'	35:BA:1545:A:H5'	2.16	0.45
13:AM:106:ASN:O	13:AM:107:ALA:CB	2.64	0.45
35:DA:1209:G:H21	35:DA:1210:A:H62	1.63	0.45
1:AA:221:C:H5'	1:AA:222:U:OP2	2.17	0.45
35:DA:198:C:N4	35:DA:248:G:H1	2.14	0.45
51:DS:73:LEU:O	51:DS:73:LEU:HD23	2.16	0.45
35:DA:291:C:H2'	35:DA:292:C:C6	2.51	0.45
7:CG:92:SER:O	7:CG:93:PRO:C	2.54	0.45
47:BO:53:LYS:O	47:BO:54:GLU:C	2.54	0.45
1:AA:1082:G:C2'	1:AA:1083:U:H5'	2.46	0.45
35:BA:42:G:H2'	35:BA:42:G:N3	2.31	0.45
1:CA:451:A:O4'	1:CA:452:A:C8	2.69	0.45
35:BA:2373:G:H2'	35:BA:2374:C:H6	1.81	0.45
46:BN:119:ARG:HH11	46:BN:119:ARG:HG3	1.81	0.45
22:AV:38:A:O2'	22:AV:39:C:H5'	2.16	0.45
35:BA:1341:U:H4'	56:BX:57:LEU:HB3	1.99	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
19:AS:79:THR:CG2	19:AS:80:TYR:N	2.80	0.45
35:BA:325:G:H2'	35:BA:326:G:C8	2.52	0.45
8:CH:19:VAL:HG21	8:CH:21:LYS:HE2	1.97	0.45
43:DJ:100:UNK:HA	43:DJ:103:UNK:CB	2.47	0.45
35:DA:2081:C:H2'	35:DA:2082:A:H8	1.80	0.45
35:BA:1635:G:H2'	35:BA:1636:C:C6	2.50	0.45
3:AC:187:ALA:C	3:AC:188:LEU:HD22	2.37	0.45
35:DA:1166:C:H2'	35:DA:1167:U:C6	2.52	0.45
35:DA:182:A:O2'	35:DA:183:C:H5'	2.17	0.45
27:B2:35:LEU:HD23	27:B2:35:LEU:C	2.37	0.45
1:CA:533:A:H3'	1:CA:533:A:OP1	2.17	0.45
40:DF:2:LYS:CD	40:DF:25:PRO:HG2	2.46	0.45
48:DP:5:ASP:OD2	48:DP:9:ASN:ND2	2.50	0.45
41:BG:91:ARG:CD	41:BG:92:VAL:N	2.72	0.45
24:AY:203:GLU:HA	24:AY:203:GLU:OE2	2.16	0.45
24:AY:181:LEU:CD1	24:AY:242:LEU:HD22	2.46	0.45
40:BF:26:ALA:O	40:BF:27:GLU:HG3	2.17	0.45
54:DV:4:ILE:HA	54:DV:12:TYR:O	2.17	0.45
22:AW:68:C:H2'	22:AW:69:C:C6	2.51	0.45
24:AY:468:ARG:CG	24:AY:468:ARG:HH11	2.30	0.45
48:BP:46:LYS:HG2	48:BP:52:GLU:HG2	1.99	0.45
35:DA:84:A:N3	35:DA:85:G:H1'	2.32	0.45
57:BY:28:LYS:HD2	57:BY:37:VAL:HG11	1.99	0.45
27:B2:69:ARG:O	27:B2:70:GLN:HB2	2.16	0.45
24:CY:112:GLN:HG3	24:CY:115:GLU:CA	2.46	0.45
30:B5:44:THR:CG2	50:BR:101:ALA:N	2.80	0.45
51:BS:70:GLY:CA	51:BS:101:LEU:HD23	2.46	0.45
35:DA:2287:A:N6	35:DA:2344:U:C2	2.84	0.45
3:CC:32:LEU:HB3	3:CC:59:ARG:HH22	1.81	0.45
3:CC:35:GLU:OE1	3:CC:97:LYS:HE3	2.17	0.45
35:DA:154(A):C:H42	35:DA:172:C:N4	2.14	0.45
40:BF:10:PRO:HD2	40:BF:13:SER:O	2.16	0.45
35:BA:2784:C:H1'	39:BE:37:ARG:NH1	2.32	0.45
35:BA:1782:C:C2'	35:BA:1783:A:H5'	2.47	0.45
48:DP:88:LEU:HD11	48:DP:95:VAL:HG11	1.99	0.45
26:B1:44:PRO:HB2	26:B1:46:LEU:HD12	1.98	0.45
44:BK:23:VAL:O	44:BK:23:VAL:HG12	2.16	0.45
29:D4:1:MET:HG2	41:DG:98:ARG:NH2	2.32	0.45
35:BA:2787:C:H1'	39:BE:61:ARG:HD3	1.99	0.45
35:DA:2261:C:O2'	35:DA:2262:U:H5'	2.17	0.45
39:BE:32:PRO:HA	39:BE:90:THR:HG23	1.97	0.45
46:DN:61:ARG:HH11	46:DN:61:ARG:HG3	1.82	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
50:BR:97:VAL:O	50:BR:98:LEU:HD23	2.16	0.45
10:AJ:50:ILE:CD1	10:AJ:50:ILE:H	2.15	0.45
40:BF:68:LYS:HG3	40:BF:69:HIS:HD2	1.81	0.45
54:BV:19:LYS:HG3	54:BV:20:LEU:N	2.30	0.45
2:AB:209:ARG:HH11	2:AB:239:VAL:HG11	1.81	0.45
24:AY:334:THR:HG23	24:AY:370:LYS:HA	1.99	0.45
2:CB:220:ASP:O	2:CB:222:ILE:N	2.50	0.45
5:CE:11:ILE:HD13	5:CE:105:VAL:HG13	1.98	0.45
19:CS:42:PRO:C	19:CS:43:GLU:HG3	2.37	0.45
1:CA:1226:C:C5	13:CM:104:ARG:HB2	2.52	0.45
36:DB:89:G:N1	36:DB:90:A:C2	2.85	0.45
11:CK:125:PHE:HD1	11:CK:125:PHE:N	2.15	0.45
26:B1:4:VAL:HA	26:B1:10:LYS:O	2.17	0.45
30:D5:34:PRO:HG3	35:DA:2885:C:O2'	2.16	0.45
24:AY:417:THR:C	24:AY:419:ALA:N	2.70	0.45
4:CD:189:PRO:HB2	4:CD:194:LEU:CD2	2.45	0.45
52:DT:50:ILE:HG23	52:DT:99:LEU:O	2.16	0.45
24:CY:510:VAL:HG22	24:CY:534:ILE:CD1	2.46	0.45
25:D0:14:ARG:NH1	35:DA:2279:G:O6	2.49	0.45
35:BA:1331:A:C2'	35:BA:1332:G:H5''	2.46	0.45
35:DA:1529:G:C2	35:DA:1541:G:N2	2.84	0.45
35:DA:1434:A:H5'	35:DA:1435:G:OP2	2.17	0.45
35:DA:1127:A:C2'	35:DA:1128:A:H5''	2.44	0.45
1:AA:1123:A:H61	1:AA:1149:C:N4	2.14	0.45
3:AC:3:ASN:O	3:AC:4:LYS:CB	2.60	0.45
35:BA:1053:C:H2'	35:BA:1054:A:C5'	2.42	0.45
1:AA:308:C:H2'	1:AA:309:G:C8	2.51	0.45
11:AK:58:PRO:O	11:AK:59:TYR:C	2.54	0.45
35:BA:1186:G:H2'	35:BA:1187:G:H5'	1.99	0.45
24:CY:15:ILE:HB	24:CY:104:ALA:HA	1.97	0.45
24:CY:120:THR:O	24:CY:124:GLN:CD	2.55	0.45
46:BN:26:LEU:C	46:BN:26:LEU:CD1	2.80	0.45
49:DQ:12:GLN:NE2	49:DQ:72:LYS:HA	2.32	0.45
35:DA:910:A:C6	49:DQ:13:GLN:HG3	2.51	0.45
12:AL:47:LYS:HZ3	12:AL:48:PRO:HD3	1.81	0.45
12:AL:7:ILE:CG2	12:AL:8:ASN:N	2.80	0.45
22:CV:5:G:N2	22:CV:69:C:C2	2.84	0.45
35:BA:176:G:C2'	35:BA:177:G:H5'	2.47	0.45
58:BZ:162:GLU:O	58:BZ:163:LEU:O	2.35	0.45
48:DP:71:VAL:HG12	48:DP:72:PRO:HD3	1.99	0.45
37:BC:79:ALA:HB1	37:BC:83:LYS:HB2	1.97	0.45
43:BJ:73:UNK:O	43:BJ:74:UNK:C	2.63	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
57:BY:49:VAL:HG12	57:BY:50:ARG:N	2.32	0.45
58:BZ:14:LYS:O	58:BZ:16:SER:N	2.50	0.45
1:CA:923:A:O2'	1:CA:924:C:H5'	2.17	0.45
4:AD:125:HIS:C	4:AD:126:ILE:HD12	2.36	0.45
35:DA:1511:C:H2'	35:DA:1512:U:O4'	2.16	0.45
35:BA:2628:C:O2'	35:BA:2781:A:H2'	2.17	0.45
54:DV:32:THR:HG22	54:DV:33:VAL:N	2.32	0.45
24:CY:439:ARG:N	24:CY:452:SER:HB3	2.32	0.45
3:AC:25:GLY:C	3:AC:27:LYS:N	2.70	0.45
57:DY:105:ALA:O	57:DY:106:LEU:HB2	2.17	0.45
2:AB:9:GLU:HG2	2:AB:10:LEU:N	2.32	0.45
17:AQ:99:SER:O	17:AQ:100:LYS:HG3	2.17	0.45
6:AF:53:ALA:C	6:AF:55:ASP:H	2.19	0.45
39:DE:165:VAL:HB	39:DE:189:PRO:HB3	1.99	0.45
24:AY:562:ASP:O	24:AY:563:ILE:HG23	2.15	0.45
35:DA:425:G:H2'	35:DA:426:C:H6	1.80	0.45
1:AA:260:G:H2'	1:AA:261:U:C6	2.50	0.45
52:DT:96:ARG:CZ	52:DT:96:ARG:HB3	2.47	0.45
35:DA:1445(A):C:O2	35:DA:1445(A):C:H2'	2.15	0.45
35:BA:718:A:H3'	35:BA:719:C:H6	1.81	0.45
1:AA:32:A:H2'	1:AA:33:A:C8	2.52	0.45
17:CQ:22:LEU:HD13	17:CQ:41:LYS:HG2	1.98	0.45
35:DA:307:G:H21	35:DA:330:A:N6	2.14	0.45
22:AV:9:G:O2'	22:AV:10:G:N7	2.45	0.45
50:BR:59:ASP:O	50:BR:60:LEU:C	2.55	0.45
36:DB:56:G:H4'	41:DG:27:ASN:HD21	1.81	0.45
7:CG:134:ALA:O	7:CG:137:LYS:N	2.45	0.45
1:CA:841:U:H3'	1:CA:848:C:C5'	2.47	0.45
35:BA:1590:U:H2'	35:BA:1591:G:H8	1.82	0.45
8:CH:30:ARG:CB	8:CH:30:ARG:HH11	2.30	0.45
4:AD:191:ARG:O	4:AD:191:ARG:NH1	2.49	0.45
36:BB:40:U:H5''	36:BB:41:U:OP2	2.16	0.45
41:BG:58:GLN:C	41:BG:60:LEU:N	2.69	0.45
61:CY:702:FUA:O2	61:CY:702:FUA:H211	2.16	0.45
35:BA:2011:U:C2'	35:BA:2012:G:H5'	2.46	0.45
24:CY:622:GLY:O	35:DA:2473:U:O2	2.35	0.45
24:AY:259:PHE:CE2	24:AY:275:ALA:HB2	2.51	0.45
40:BF:2:LYS:CD	40:BF:25:PRO:HG2	2.47	0.45
53:DU:57:PHE:O	53:DU:58:ARG:C	2.53	0.45
24:AY:422:GLU:O	24:AY:423:LYS:C	2.54	0.45
35:BA:2131:G:C8	35:BA:2133:G:N2	2.85	0.45
48:BP:25:SER:O	48:BP:30:THR:CG2	2.65	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:DF:167:ALA:HA	40:DF:170:LEU:HD23	1.98	0.45
57:BY:9:LYS:O	57:BY:28:LYS:HE2	2.17	0.45
31:D6:11:LEU:O	31:D6:11:LEU:HD13	2.17	0.45
31:D6:29:ASN:CG	31:D6:30:THR:N	2.70	0.45
33:D8:48:PHE:O	33:D8:49:VAL:CG2	2.62	0.45
41:DG:112:PRO:O	41:DG:113:ARG:HG2	2.17	0.45
41:DG:52:ILE:HG22	41:DG:53:LEU:N	2.32	0.45
29:D4:9:LEU:HD23	41:DG:65:GLY:HA3	1.98	0.45
41:DG:67:LYS:HA	41:DG:68:PRO:HD3	1.73	0.45
3:CC:105:GLU:HG2	3:CC:106:VAL:N	2.30	0.45
37:DC:139:PRO:HA	37:DC:145:THR:CB	2.47	0.45
41:BG:133:LEU:HD12	41:BG:133:LEU:O	2.16	0.45
31:B6:15:GLU:CD	31:B6:44:ARG:HH22	2.18	0.45
35:BA:1596:A:C2'	35:BA:1597:A:H5'	2.46	0.45
18:CR:37:VAL:O	18:CR:41:LYS:N	2.38	0.45
1:AA:129(A):G:C6	1:AA:189(E):U:H4'	2.52	0.45
2:CB:126:GLU:O	2:CB:129:GLU:OE2	2.34	0.45
46:BN:135:PRO:O	46:BN:136:GLU:C	2.55	0.45
1:AA:1402:C:H2'	1:AA:1403:C:O4'	2.16	0.45
48:BP:126:VAL:HG12	48:BP:148:LEU:HD21	1.99	0.45
39:BE:145:LYS:O	39:BE:146:THR:C	2.54	0.45
39:BE:67:PHE:O	39:BE:70:ALA:HB2	2.17	0.45
39:BE:68:ALA:O	39:BE:70:ALA:N	2.49	0.45
35:DA:1015:G:H2'	35:DA:1016:G:C8	2.51	0.45
41:DG:97:ASP:H	41:DG:100:TRP:HD1	1.65	0.45
3:AC:87:LEU:O	3:AC:88:ARG:C	2.55	0.45
24:AY:334:THR:HG23	24:AY:369:LEU:O	2.16	0.45
5:AE:50:GLU:HB3	5:AE:53:LEU:HG	1.97	0.45
1:AA:1363(A):A:C4'	1:AA:1364:U:H5''	2.42	0.45
39:BE:27:LEU:HD12	39:BE:181:LEU:HD13	1.99	0.45
26:D1:53:VAL:HG22	26:D1:74:VAL:HG13	1.99	0.45
13:CM:66:LEU:HA	13:CM:70:LEU:CD1	2.47	0.45
46:BN:96:GLU:O	46:BN:100:GLU:HG3	2.17	0.45
27:D2:32:LEU:CA	27:D2:53:LEU:HD13	2.38	0.45
2:CB:15:VAL:C	2:CB:16:HIS:CG	2.89	0.45
1:CA:1234:C:HO2'	1:CA:1364:U:H6	1.62	0.45
35:DA:1463:C:H2'	35:DA:1464:C:H6	1.82	0.45
9:CI:79:LEU:HD13	9:CI:83:ARG:CB	2.41	0.45
34:D9:29:ASN:O	34:D9:31:LYS:N	2.49	0.45
12:CL:33:ARG:HG3	12:CL:60:LEU:HD12	1.97	0.45
39:BE:2:LYS:CD	39:BE:95:ILE:HG22	2.47	0.45
35:BA:1434:A:H5'	35:BA:1435:G:OP2	2.16	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:DD:124:PRO:O	38:DD:129:ASN:ND2	2.49	0.45
30:D5:58:LEU:C	30:D5:58:LEU:HD22	2.37	0.45
35:DA:2163:C:H2'	35:DA:2164:C:H5'	1.98	0.45
37:DC:86:GLU:O	37:DC:90:ALA:HB2	2.16	0.45
44:BK:17:ALA:HB3	44:BK:38:VAL:CG1	2.47	0.45
24:CY:592:GLU:HA	24:CY:595:GLN:CB	2.43	0.45
50:BR:12:ARG:CG	50:BR:12:ARG:NH1	2.78	0.45
18:CR:30:ASP:C	18:CR:32:ARG:H	2.19	0.45
1:CA:1352:C:OP1	21:CU:3:LYS:HE2	2.16	0.45
12:AL:38:THR:HG23	12:AL:57:LYS:CB	2.46	0.45
10:CJ:22:LYS:HZ2	10:CJ:88:LEU:HD23	1.81	0.45
1:CA:50:A:N6	1:CA:361:G:C4'	2.76	0.45
35:BA:2521:C:O2	35:BA:2521:C:H2'	2.15	0.45
1:AA:1352:C:OP1	21:AU:3:LYS:CE	2.65	0.45
12:CL:7:ILE:HA	12:CL:10:LEU:HD12	1.98	0.45
12:CL:38:THR:CG2	12:CL:57:LYS:HB3	2.46	0.45
42:BH:94:TYR:HA	42:BH:106:THR:O	2.17	0.45
1:AA:1329:A:H4'	13:AM:24:GLY:O	2.16	0.45
26:D1:60:PHE:CE1	26:D1:91:LYS:HG3	2.52	0.45
35:DA:1342:A:O2'	35:DA:1344:G:OP2	2.30	0.45
35:BA:688:U:H5'	35:BA:1780:A:H2	1.82	0.45
3:AC:136:GLN:O	3:AC:138:VAL:N	2.50	0.45
54:BV:35:LEU:HB3	54:BV:37:VAL:CG2	2.47	0.45
35:DA:528:A:N1	35:DA:2042:A:H2'	2.32	0.45
46:DN:55:VAL:HG22	46:DN:56:ASN:N	2.32	0.45
35:BA:603:A:O2'	35:BA:604:G:P	2.75	0.45
51:DS:56:LEU:C	51:DS:58:LEU:H	2.19	0.45
51:DS:56:LEU:O	51:DS:58:LEU:N	2.50	0.45
1:CA:1231:G:C2'	1:CA:1232:U:H5'	2.46	0.45
24:CY:448:GLN:NE2	24:CY:480:GLN:HE21	2.14	0.45
35:DA:1386:C:H5''	35:DA:1396:U:H5	1.81	0.45
38:DD:28:GLU:OE1	38:DD:29:PRO:HD2	2.17	0.45
21:CU:6:ARG:NH2	21:CU:15:ARG:HH22	2.14	0.45
42:BH:68:THR:C	42:BH:70:THR:N	2.69	0.45
1:AA:665:A:H2'	1:AA:725:G:N2	2.31	0.45
1:CA:812:C:O2'	1:CA:813:U:P	2.73	0.45
35:BA:2840:C:H5''	50:BR:53:HIS:CD2	2.52	0.45
35:BA:214:G:H2'	35:BA:215:G:O4'	2.16	0.45
35:DA:541:C:H42	35:DA:552:G:H1	1.65	0.45
13:AM:106:ASN:HB3	13:AM:107:ALA:H	1.53	0.45
1:CA:403:C:H2'	1:CA:404:U:H6	1.81	0.45
2:CB:178:ARG:HH11	2:CB:178:ARG:CG	2.30	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:BC:191:ARG:NH1	37:BC:191:ARG:HG3	2.31	0.45
35:BA:1196:C:O4'	35:BA:1226:A:C2	2.70	0.45
1:CA:1416:G:O2'	1:CA:1417:G:H5'	2.17	0.45
1:AA:1009:G:C2	1:AA:1010:G:C8	3.04	0.45
35:BA:271(K):U:H3'	35:BA:271(L):U:C5'	2.47	0.45
24:CY:182:ARG:C	24:CY:184:LYS:N	2.70	0.45
35:BA:1572:A:O2'	35:BA:1573:G:H5'	2.17	0.45
11:CK:109:VAL:HG13	18:CR:85:LEU:O	2.15	0.45
22:AW:42:C:C2	22:AW:43:G:C8	3.05	0.45
5:CE:139:LEU:C	5:CE:141:GLN:N	2.70	0.45
35:DA:324:A:N6	35:DA:338:G:O2'	2.50	0.45
1:AA:452:A:H4'	16:AP:72:ARG:CZ	2.47	0.45
35:BA:602:G:N1	35:BA:654(U):A:N7	2.65	0.45
40:BF:112:MET:HA	40:BF:115:ALA:HB3	1.99	0.45
21:AU:18:TYR:CD2	21:AU:24:ARG:HA	2.52	0.45
1:AA:836:G:C6	1:AA:851:G:C6	3.04	0.45
7:CG:138:LYS:HE3	7:CG:142:GLU:OE1	2.17	0.45
1:CA:56:U:H2'	1:CA:57:G:C8	2.52	0.45
1:CA:57:G:H2'	1:CA:58:C:C6	2.51	0.45
22:AV:50:U:O2'	22:AV:51:C:H5'	2.16	0.45
38:BD:197:GLY:O	38:BD:198:ASN:HB3	2.17	0.45
35:DA:2576:G:N3	35:DA:2576:G:H3'	2.32	0.45
1:CA:695:A:H2'	1:CA:696:A:C8	2.51	0.45
41:BG:138:GLN:HG3	41:BG:144:ILE:CD1	2.46	0.45
41:BG:153:ARG:HH11	41:BG:153:ARG:CB	2.29	0.45
39:BE:131:ALA:HB3	39:BE:134:ILE:CD1	2.17	0.45
40:BF:118:ALA:O	40:BF:121:GLY:N	2.49	0.45
39:DE:132:HIS:HA	39:DE:135:HIS:CE1	2.51	0.45
54:BV:39:LEU:HD12	54:BV:47:VAL:HG11	1.99	0.45
27:B2:63:VAL:HG12	27:B2:67:LYS:CG	2.47	0.45
31:D6:11:LEU:C	31:D6:11:LEU:HD22	2.37	0.45
31:D6:30:THR:O	31:D6:31:PRO:C	2.55	0.45
13:CM:4:ILE:CG2	13:CM:5:ALA:N	2.79	0.45
41:DG:114:ILE:HB	41:DG:117:PHE:HB2	1.98	0.45
25:B0:11:ARG:CB	25:B0:11:ARG:HH11	2.07	0.45
30:B5:3:LYS:HD2	30:B5:5:PRO:CD	2.42	0.45
24:CY:282:SER:C	24:CY:284:LEU:N	2.70	0.45
28:D3:31:LEU:O	28:D3:32:GLN:CB	2.65	0.45
3:AC:64:VAL:HG12	3:AC:66:VAL:HG23	1.99	0.45
1:AA:1321:C:H3'	1:AA:1322:C:C5'	2.33	0.45
2:CB:119:GLU:C	2:CB:121:LEU:H	2.20	0.45
26:B1:86:SER:CA	26:B1:89:GLU:HB2	2.47	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2305:A:H2'	35:DA:2306:C:O4'	2.16	0.45
1:AA:1506:U:O2'	1:AA:1507:A:H5'	2.17	0.45
35:DA:814:C:N3	35:DA:1193:G:O6	2.50	0.45
2:CB:24:TRP:CH2	2:CB:26:PRO:HA	2.52	0.45
29:D4:1:MET:H1	36:DB:43:C:H4'	1.80	0.45
41:DG:98:ARG:N	41:DG:98:ARG:HH11	2.14	0.45
1:AA:1103:C:H5''	2:AB:98:LEU:HD13	1.99	0.45
39:DE:67:PHE:O	39:DE:70:ALA:HB2	2.17	0.45
39:DE:78:LEU:HD12	39:DE:78:LEU:O	2.16	0.45
39:BE:69:LYS:HD3	39:BE:89:ASP:HA	1.98	0.45
35:BA:2298:A:N6	35:BA:2318:G:C8	2.81	0.45
24:AY:513:LYS:HB3	24:AY:566:THR:HB	1.95	0.45
50:BR:34:ILE:O	50:BR:113:LEU:HD12	2.17	0.45
54:DV:19:LYS:HG3	54:DV:20:LEU:O	2.17	0.45
38:BD:270:ILE:HD12	38:BD:270:ILE:H	1.80	0.45
1:AA:1226:C:H5''	13:AM:103:THR:HB	1.97	0.45
52:DT:83:ILE:CG1	52:DT:84:GLN:H	2.30	0.45
35:BA:2103:C:H3'	35:BA:2104:G:H5''	1.99	0.45
39:DE:177:PRO:HG2	39:DE:178:GLU:H	1.80	0.45
1:CA:697:U:H2'	1:CA:698:G:C5'	2.38	0.45
15:AO:23:GLY:O	15:AO:24:SER:O	2.35	0.45
44:DK:21:PRO:HA	44:DK:23:VAL:H	1.81	0.45
5:CE:60:TYR:HE1	5:CE:64:ARG:NH2	2.13	0.45
9:AI:95:LYS:HZ2	9:AI:96:LEU:CD1	2.30	0.45
42:DH:83:TYR:HA	42:DH:135:GLY:O	2.16	0.45
52:DT:50:ILE:N	52:DT:50:ILE:CD1	2.78	0.45
35:BA:7:G:H1	35:BA:2896:C:N4	2.15	0.45
35:BA:238:C:H2'	35:BA:239:U:O4'	2.16	0.45
38:BD:24:ILE:CD1	38:BD:25:THR:N	2.78	0.45
19:AS:11:VAL:O	19:AS:11:VAL:HG13	2.17	0.45
58:BZ:74:VAL:HG22	58:BZ:86:VAL:HG13	1.97	0.45
40:BF:132:VAL:CG2	40:BF:133:ASN:N	2.79	0.45
35:DA:2514:U:C2	35:DA:2515:C:C5	3.05	0.45
39:DE:93:VAL:C	39:DE:95:ILE:H	2.20	0.45
35:DA:409:C:O2'	35:DA:410:G:H5'	2.17	0.45
19:AS:7:LYS:HA	19:AS:7:LYS:HD3	1.75	0.45
35:DA:558:G:P	46:DN:111:PRO:HD2	2.56	0.45
4:AD:163:GLU:HA	4:AD:163:GLU:OE2	2.17	0.45
24:AY:446:THR:O	24:AY:446:THR:HG23	2.16	0.45
49:DQ:21:THR:O	49:DQ:22:LYS:CB	2.61	0.45
55:BW:20:VAL:HG23	55:BW:21:VAL:H	1.82	0.45
9:CI:40:LEU:O	9:CI:42:ARG:N	2.43	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
49:BQ:12:GLN:NE2	49:BQ:72:LYS:HA	2.32	0.45
42:BH:94:TYR:CD1	42:BH:94:TYR:N	2.84	0.45
35:DA:531:C:C5	35:DA:2035:G:C2	3.04	0.45
1:AA:36:C:H4'	12:AL:122:THR:O	2.16	0.45
3:CC:136:GLN:HG3	3:CC:139:GLN:CB	2.46	0.45
13:CM:37:THR:HG21	13:CM:56:LEU:CD2	2.46	0.45
42:BH:86:GLU:OE2	42:BH:86:GLU:N	2.49	0.45
35:BA:271(Z):C:H1'	35:BA:272(C):G:H1'	1.98	0.45
43:BJ:26:UNK:HA	43:BJ:85:UNK:N	2.31	0.45
30:D5:16:ARG:NH2	35:DA:517:C:OP1	2.49	0.45
24:CY:438:PHE:HD2	24:CY:438:PHE:O	2.00	0.45
35:BA:1718:G:C5'	35:BA:1718:G:H8	2.28	0.45
35:BA:1774:C:H6	35:BA:1774:C:O5'	1.99	0.45
35:BA:246:C:C2'	35:BA:247:G:H5'	2.46	0.45
39:DE:101:ARG:CZ	39:DE:171:GLU:HB2	2.47	0.45
35:BA:311:A:H5'	35:BA:332:A:N3	2.32	0.45
35:BA:1050:A:C4	35:BA:1051:G:H1'	2.52	0.45
54:BV:1:MET:HB3	54:BV:2:PHE:H	1.54	0.45
22:AV:74:C:H2'	22:AV:75:C:H5'	1.99	0.45
18:CR:40:LEU:C	18:CR:42:ARG:N	2.67	0.45
43:DJ:130:UNK:C	43:DJ:132:UNK:N	2.80	0.45
14:CN:44:LEU:C	14:CN:44:LEU:HD12	2.37	0.45
10:AJ:58:ASP:O	10:AJ:59:SER:O	2.35	0.45
26:D1:20:ARG:HH12	35:DA:387:U:P	2.39	0.45
58:BZ:95:PRO:HA	58:BZ:129:SER:HA	1.99	0.45
35:DA:402:A:H2'	35:DA:403:U:H5'	1.98	0.45
1:AA:622:A:C8	1:AA:623:C:C6	3.04	0.45
1:CA:1217:C:O2	1:CA:1217:C:H2'	2.16	0.45
35:BA:2352:A:C2'	35:BA:2353:G:H5'	2.47	0.45
1:AA:830:G:H2'	1:AA:831:U:H6	1.82	0.45
1:CA:830:G:H2'	1:CA:831:U:H6	1.81	0.45
35:BA:1487:G:H3'	35:BA:1488:G:H8	1.82	0.45
2:AB:73:THR:HG23	2:AB:170:GLU:OE2	2.16	0.45
35:DA:1551:C:H2'	35:DA:1552:G:O4'	2.16	0.45
52:DT:49:VAL:O	52:DT:49:VAL:HG22	2.17	0.45
55:DW:13:SER:HB3	55:DW:16:LYS:HD2	1.98	0.45
35:DA:1294:U:H6	35:DA:1294:U:H5''	1.81	0.45
35:DA:1680:U:H2'	35:DA:1681:G:O4'	2.17	0.45
35:BA:2642:G:O2'	35:BA:2643:G:H5'	2.16	0.45
41:BG:40:ASN:HD22	41:BG:91:ARG:HB2	1.81	0.45
4:AD:25:ARG:O	4:AD:28:SER:N	2.50	0.45
24:AY:121:VAL:HA	24:AY:124:GLN:NE2	2.31	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:237:PRO:HB2	24:AY:242:LEU:HG	1.97	0.45
22:CW:37:U:H2'	22:CW:38:A:H8	1.81	0.45
53:BU:64:ARG:O	53:BU:65:ILE:C	2.55	0.45
38:DD:34:VAL:CG2	38:DD:35:LYS:N	2.70	0.45
31:B6:30:THR:O	31:B6:31:PRO:C	2.55	0.45
33:B8:50:LEU:C	33:B8:52:LYS:H	2.17	0.45
19:CS:10:PHE:CE2	19:CS:37:ARG:O	2.69	0.45
57:DY:95:LYS:CE	57:DY:101:LYS:H	2.30	0.45
58:BZ:69:THR:HA	58:BZ:89:PHE:O	2.16	0.45
57:BY:14:LEU:HD13	57:BY:24:VAL:CG2	2.46	0.45
57:BY:7:VAL:HG21	57:BY:8:LYS:NZ	2.32	0.45
51:BS:13:ARG:O	51:BS:14:VAL:HB	2.17	0.45
35:DA:2419:U:O2'	35:DA:2420:C:H5'	2.16	0.45
29:D4:26:SER:HB3	41:DG:105:LYS:NZ	2.32	0.45
47:BO:64:ARG:NH1	47:BO:83:ALA:CB	2.80	0.45
57:BY:81:LYS:HD2	57:BY:96:ILE:CG2	2.46	0.45
5:AE:101:ILE:CD1	5:AE:118:ILE:O	2.62	0.45
5:AE:101:ILE:HD11	5:AE:119:LEU:CA	2.28	0.45
30:B5:3:LYS:HG2	35:BA:747:U:C4	2.52	0.45
24:CY:164:MET:SD	24:CY:216:LEU:CD1	3.05	0.45
40:DF:127:GLU:O	40:DF:127:GLU:OE2	2.35	0.45
3:CC:32:LEU:HD22	3:CC:59:ARG:HH12	1.82	0.45
12:CL:17:LYS:HD3	12:CL:18:VAL:H	1.81	0.45
27:B2:3:LEU:O	27:B2:7:ARG:NH1	2.49	0.45
38:BD:67:PHE:CE1	38:BD:157:ARG:NH2	2.85	0.45
35:DA:963:U:H2'	35:DA:964:C:C6	2.52	0.45
35:DA:26:G:H1'	35:DA:515:A:N6	2.32	0.45
35:DA:568:U:H2'	35:DA:570:G:OP2	2.16	0.45
1:AA:1522:U:H6	1:AA:1522:U:O5'	2.00	0.45
48:BP:83:VAL:CG1	48:BP:114:ILE:HA	2.46	0.45
48:BP:115:LEU:CD2	48:BP:115:LEU:N	2.80	0.45
48:BP:95:VAL:HA	48:BP:99:LEU:CD2	2.41	0.45
2:CB:55:PHE:HD1	2:CB:221:LEU:HG	1.82	0.45
35:DA:2754:U:C2'	35:DA:2755:C:H5'	2.47	0.45
58:DZ:14:LYS:O	58:DZ:18:LEU:HD13	2.16	0.45
54:BV:19:LYS:HG3	54:BV:20:LEU:O	2.17	0.45
24:AY:368:GLU:C	24:AY:369:LEU:HD12	2.36	0.45
35:DA:2762:G:C8	35:DA:2762:G:C5'	3.00	0.45
52:DT:29:ARG:HG3	52:DT:30:VAL:HG13	1.99	0.45
5:AE:12:LEU:H	5:AE:12:LEU:HD12	1.82	0.45
17:CQ:52:LYS:HD3	17:CQ:55:ASP:OD2	2.16	0.45
44:DK:8:VAL:HG12	44:DK:10:LEU:HG	1.98	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:271(H):G:H1	35:DA:271(P):C:N4	2.15	0.45
52:DT:55:ASN:ND2	52:DT:55:ASN:O	2.49	0.45
38:BD:196:VAL:HG12	38:BD:196:VAL:O	2.16	0.45
24:CY:530:VAL:HG22	24:CY:531:GLY:N	2.24	0.45
1:AA:355:C:C4	1:AA:356:A:N7	2.85	0.45
50:DR:3:HIS:O	50:DR:4:LEU:HB3	2.16	0.45
1:CA:1371:G:OP2	9:CI:11:LYS:HD2	2.17	0.45
35:BA:2020:A:C6	35:BA:2022:U:N3	2.84	0.45
58:DZ:25:PRO:HA	58:DZ:38:TYR:HB2	1.98	0.45
36:DB:82:G:C2	36:DB:83:G:C8	3.05	0.45
1:AA:193:C:C2	1:AA:194:C:C5	3.05	0.45
38:BD:144:ALA:HB3	38:BD:192:THR:CG2	2.43	0.45
35:DA:2441:C:O2'	35:DA:2442:C:H5'	2.17	0.45
35:DA:677:A:H4'	35:DA:2070:G:O2'	2.16	0.45
42:BH:149:ARG:HA	42:BH:162:ILE:CG1	2.47	0.45
4:AD:58:LEU:HD22	4:AD:59:ARG:NH1	2.32	0.45
35:BA:2147:G:H2'	35:BA:2148:G:C5'	2.47	0.45
26:D1:62:VAL:HG22	26:D1:63:ALA:N	2.32	0.45
49:BQ:109:VAL:CG1	49:BQ:113:GLN:HB2	2.47	0.45
7:AG:80:VAL:CG2	7:AG:81:GLY:H	2.27	0.45
24:AY:519:ARG:HH12	24:AY:678:GLU:HB3	1.82	0.45
36:BB:74:U:O2	58:BZ:34:ASN:ND2	2.50	0.45
15:AO:43:LEU:CD1	15:AO:56:LEU:HD22	2.46	0.45
12:CL:38:THR:HG23	12:CL:57:LYS:HB3	1.99	0.45
58:DZ:82:ARG:O	58:DZ:83:PRO:C	2.54	0.45
52:DT:45:PHE:HE2	52:DT:74:ARG:HB2	1.79	0.45
35:DA:222:A:H5''	35:DA:421:U:OP1	2.17	0.45
24:CY:424:LEU:HD12	24:CY:427:ALA:CB	2.46	0.45
46:DN:125:GLY:CA	46:DN:126:PRO:O	2.64	0.45
35:DA:686:G:N2	35:DA:788:A:H61	2.15	0.45
54:DV:35:LEU:HB3	54:DV:37:VAL:CG2	2.46	0.45
48:BP:121:LYS:O	48:BP:123:LEU:HD23	2.16	0.45
22:CW:52:C:H2'	22:CW:53:G:C5'	2.46	0.45
50:DR:18:LEU:HD21	50:DR:22:ARG:CZ	2.46	0.45
4:CD:101:LEU:HD23	4:CD:121:VAL:CG1	2.47	0.45
37:BC:74:ARG:N	37:BC:112:ASP:HB2	2.29	0.45
21:AU:23:PRO:C	21:AU:25:LYS:N	2.70	0.45
24:CY:498:ILE:HG22	24:CY:507:TYR:CE2	2.52	0.45
2:CB:111:ARG:HG2	2:CB:111:ARG:NH1	2.32	0.45
38:BD:39:LYS:HB2	38:BD:62:TYR:HB2	1.98	0.45
35:DA:2836:U:C4	35:DA:2883:A:N6	2.85	0.45
49:DQ:59:ARG:O	49:DQ:60:ARG:HB2	2.17	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1413:A:H2'	1:AA:1414:U:O4'	2.17	0.45
20:AT:42:GLN:NE2	20:AT:42:GLN:CA	2.80	0.45
58:BZ:3:TYR:CD2	58:BZ:47:VAL:HG13	2.52	0.45
35:DA:2604:U:H2'	35:DA:2605:U:H6	1.81	0.45
32:D7:35:ARG:O	32:D7:38:GLY:N	2.48	0.45
35:BA:291:C:H2'	35:BA:292:C:C6	2.51	0.45
35:DA:440:G:N2	40:DF:46:ARG:NH2	2.65	0.45
50:BR:65:LEU:O	50:BR:65:LEU:HD12	2.16	0.45
35:BA:402:A:H2'	35:BA:403:U:H5'	1.97	0.45
35:DA:1341:U:H4'	56:DX:57:LEU:HB3	1.99	0.45
35:DA:2845:G:H8	35:DA:2845:G:O5'	2.00	0.45
43:DJ:94:UNK:O	43:DJ:95:UNK:C	2.64	0.45
1:AA:57:G:H2'	1:AA:58:C:C6	2.52	0.45
1:AA:646:U:H2'	1:AA:647:C:C6	2.52	0.45
1:CA:256:U:O2'	1:CA:257:G:H5'	2.17	0.45
24:AY:130:VAL:HA	24:AY:131:PRO:HD3	1.75	0.45
47:BO:14:THR:O	47:BO:14:THR:HG22	2.17	0.45
1:CA:32:A:H2'	1:CA:33:A:C8	2.52	0.45
1:AA:114:U:H2'	1:AA:115:G:C8	2.52	0.45
36:DB:76:G:H21	58:DZ:75:ASN:ND2	2.14	0.45
2:CB:52:GLU:O	2:CB:56:ARG:HG2	2.16	0.45
35:DA:560:C:H2'	35:DA:561:G:O4'	2.17	0.45
15:CO:3:ILE:HG13	15:CO:3:ILE:O	2.16	0.45
52:BT:14:TYR:CD1	52:BT:14:TYR:N	2.85	0.45
1:AA:519:C:H2'	1:AA:520:A:O4'	2.16	0.45
7:CG:22:LEU:HD23	7:CG:22:LEU:O	2.15	0.45
35:DA:950:G:H2'	35:DA:951:C:C6	2.52	0.45
40:DF:31:HIS:O	40:DF:34:TRP:HB3	2.17	0.45
35:DA:1045:A:O2'	35:DA:1047:G:C5	2.66	0.45
24:CY:453:GLY:HA2	24:CY:458:HIS:CD2	2.52	0.45
1:CA:693:G:C5	23:CX:13:A:H1'	2.52	0.45
53:DU:96:ALA:C	53:DU:98:LEU:H	2.20	0.45
53:BU:106:PHE:HA	53:BU:109:LEU:HD12	1.99	0.45
33:B8:36:LYS:O	33:B8:37:SER:C	2.55	0.45
40:DF:201:VAL:HA	40:DF:204:ASN:HD22	1.82	0.45
22:CW:77:A:O2'	35:DA:2394:C:N3	2.40	0.45
27:D2:37:PHE:O	27:D2:41:ILE:HG23	2.17	0.45
19:CS:58:VAL:O	19:CS:60:VAL:N	2.50	0.45
57:BY:77:PRO:HB2	57:BY:99:CYS:SG	2.57	0.45
35:BA:1840:G:H1	35:BA:1902:C:N4	2.15	0.45
3:CC:84:ILE:O	3:CC:84:ILE:HG12	2.16	0.45
24:CY:145:ASP:OD2	24:CY:148:LEU:HB2	2.17	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:CY:206:LEU:HD12	24:CY:210:ARG:HH12	1.82	0.45
35:BA:2369:A:H2'	35:BA:2370:G:H8	1.82	0.45
24:AY:191:ASP:OD1	24:AY:191:ASP:N	2.50	0.45
47:BO:61:VAL:N	47:BO:87:ILE:HD11	2.32	0.45
3:AC:165:THR:O	3:AC:165:THR:HG23	2.16	0.45
26:B1:82:LEU:C	26:B1:83:GLU:HG3	2.37	0.45
2:CB:24:TRP:HA	2:CB:190:THR:O	2.17	0.45
2:CB:88:ALA:HB2	2:CB:219:VAL:CG1	2.45	0.45
2:AB:142:LEU:HD23	2:AB:142:LEU:O	2.17	0.45
35:DA:2809:A:C2	35:DA:2892:A:N3	2.84	0.45
35:DA:2787:C:H1'	39:DE:61:ARG:HD3	1.99	0.45
40:DF:83:PHE:O	40:DF:84:VAL:C	2.53	0.45
1:AA:973:G:O4'	10:AJ:55:LYS:CG	2.57	0.45
35:DA:2712:U:H2'	35:DA:2713:A:H5'	1.98	0.45
7:CG:102:ARG:HG2	7:CG:106:GLN:HE21	1.78	0.45
1:AA:322:C:H41	1:AA:328:C:H6	1.64	0.45
2:AB:208:ILE:O	2:AB:212:GLN:HB2	2.16	0.45
2:AB:238:LEU:O	2:AB:240:GLN:N	2.49	0.45
24:AY:100:VAL:HG22	24:AY:101:LEU:N	2.32	0.45
52:BT:29:ARG:O	52:BT:30:VAL:O	2.34	0.45
39:BE:132:HIS:CG	39:BE:135:HIS:NE2	2.84	0.45
1:CA:1225:A:H5''	1:CA:1226:C:OP2	2.17	0.45
36:DB:64:C:O2'	36:DB:65:C:H5'	2.17	0.45
39:BE:9:VAL:HG22	39:BE:25:VAL:HB	1.99	0.45
39:BE:181:LEU:HD11	52:BT:7:ILE:HG21	1.99	0.45
35:DA:1331:A:C2'	35:DA:1332:G:H5''	2.46	0.45
35:DA:1609:A:H1'	35:DA:1616:A:H1'	1.98	0.45
52:BT:108:ARG:CG	52:BT:109:GLU:N	2.74	0.45
24:CY:428:LEU:HD13	24:CY:440:VAL:HG21	1.99	0.45
11:CK:33:THR:HB	11:CK:38:ASN:C	2.37	0.45
27:B2:48:HIS:O	27:B2:50:ILE:N	2.49	0.45
35:DA:1464:C:O2'	35:DA:1528:A:C8	2.66	0.45
39:BE:93:VAL:O	39:BE:95:ILE:N	2.50	0.45
35:DA:1578:U:O2	35:DA:1578:U:H2'	2.17	0.45
55:BW:66:GLU:HG3	55:BW:69:LEU:HD12	1.97	0.45
35:DA:2163:C:C2'	35:DA:2164:C:H5'	2.47	0.45
51:DS:77:ALA:HB1	51:DS:82:ILE:HB	1.99	0.45
35:BA:1578:U:O2	35:BA:1578:U:H2'	2.15	0.45
35:DA:1052:C:C6	35:DA:1052:C:H3'	2.52	0.45
35:DA:1052:C:P	35:DA:1052:C:O4'	2.74	0.45
50:BR:41:ALA:O	50:BR:43:GLU:N	2.50	0.45
14:AN:29:ARG:CG	14:AN:29:ARG:HH11	2.30	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:CY:517:LEU:HD11	24:CY:564:LYS:CB	2.43	0.45
18:AR:30:ASP:C	18:AR:32:ARG:H	2.19	0.45
58:DZ:102:LEU:HG	58:DZ:122:ARG:O	2.16	0.45
28:D3:46:ASN:O	28:D3:47:VAL:C	2.54	0.45
49:BQ:108:GLY:C	49:BQ:109:VAL:HG23	2.37	0.45
35:DA:654(R):C:O2'	35:DA:654(S):G:H8	1.98	0.45
35:DA:1682:G:O2'	35:DA:1683:C:H5'	2.17	0.45
25:D0:20:ARG:CG	25:D0:20:ARG:HH11	2.30	0.45
7:CG:80:VAL:CG2	7:CG:81:GLY:H	2.27	0.45
28:B3:44:ARG:O	28:B3:45:GLY:C	2.54	0.45
24:AY:510:VAL:HA	24:AY:570:GLY:HA3	1.98	0.45
54:DV:64:HIS:ND1	54:DV:92:THR:CG2	2.80	0.45
24:AY:491:VAL:CG1	24:AY:596:LYS:HD3	2.44	0.45
1:CA:1158:C:N3	1:CA:1181:G:N2	2.56	0.45
26:B1:64:ALA:C	26:B1:66:HIS:N	2.70	0.45
1:CA:1095:U:OP1	1:CA:1108:G:N2	2.49	0.45
48:DP:122:PRO:O	48:DP:123:LEU:HD23	2.16	0.45
35:DA:1813:G:H1'	38:DD:50:THR:OG1	2.17	0.45
35:DA:1917:U:H2'	35:DA:1918:A:H5'	1.97	0.45
35:DA:1825:A:OP1	38:DD:249:PRO:HD3	2.17	0.45
35:BA:1236:G:HO2'	35:BA:1237:A:H8	1.63	0.45
35:DA:1943:U:C2'	35:DA:1943:U:O2	2.64	0.45
4:CD:110:PHE:CD1	4:CD:110:PHE:N	2.84	0.45
35:DA:2552:U:O5'	35:DA:2552:U:H6	1.99	0.45
35:DA:1328:G:H2'	35:DA:1330:C:C4	2.51	0.45
22:AW:17:C:O2	22:AW:17:C:O4'	2.33	0.45
55:BW:8:ARG:HA	55:BW:102:HIS:HA	1.99	0.45
36:DB:106:G:O2'	36:DB:107:G:H5'	2.16	0.45
35:DA:654(P):C:O2'	35:DA:654(Q):C:H5'	2.17	0.45
35:DA:214:G:H2'	35:DA:215:G:O4'	2.17	0.45
42:DH:94:TYR:CD2	42:DH:107:VAL:HG12	2.52	0.45
55:BW:25:ARG:HB2	55:BW:25:ARG:NH1	2.31	0.45
35:DA:626:U:H3	48:DP:105:LEU:HG	1.82	0.45
35:BA:438:G:H2'	35:BA:440:G:C8	2.52	0.45
1:AA:96:U:O2'	1:AA:97:G:H8	2.00	0.45
22:AW:77:A:H61	35:BA:2422:A:C5'	2.30	0.45
35:BA:41:C:N4	35:BA:437:G:H1	2.15	0.45
27:B2:32:LEU:HD11	27:B2:54:LYS:HG2	1.98	0.45
1:AA:10:A:H2'	1:AA:11:G:C8	2.52	0.45
22:AV:7:G:H3'	22:AV:8:U:H5'	1.97	0.45
44:DK:62:ASP:O	44:DK:63:ARG:HB2	2.16	0.45
1:CA:155:C:H2'	1:CA:156:G:C8	2.52	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
8:CH:34:GLU:O	8:CH:35:ILE:C	2.54	0.45
35:DA:74:A:H5''	35:DA:75:G:O4'	2.16	0.45
1:AA:335:C:O2	1:AA:1433:A:H2	2.00	0.45
39:BE:103:ASP:CG	39:BE:201:THR:HA	2.38	0.45
35:BA:1771:C:H2'	35:BA:1772:G:H8	1.81	0.45
35:DA:1487:G:H2'	35:DA:1487:G:N3	2.32	0.45
4:CD:168:ARG:N	4:CD:168:ARG:HD2	2.32	0.45
35:DA:1935:G:H1'	35:DA:1964:G:N2	2.31	0.45
6:CF:100:ASN:O	18:CR:28:GLU:HG2	2.16	0.45
42:BH:61:HIS:O	42:BH:62:LYS:C	2.55	0.45
1:CA:545:C:O2'	1:CA:546:G:H5'	2.17	0.45
52:BT:93:ARG:HD2	52:BT:93:ARG:HA	1.76	0.45
35:BA:2086:U:H2'	35:BA:2087:G:C8	2.52	0.45
35:DA:2881:C:C2	35:DA:2882:A:C8	3.05	0.45
24:CY:358:MET:SD	24:CY:363:ARG:HG2	2.56	0.45
35:DA:864:G:H21	35:DA:866:A:H61	1.65	0.45
50:DR:59:ASP:O	50:DR:60:LEU:C	2.56	0.45
41:BG:16:ARG:HH11	41:BG:16:ARG:HG3	1.82	0.45
41:BG:67:LYS:CD	41:BG:68:PRO:O	2.65	0.45
35:BA:2473:U:C3'	35:BA:2474:C:H5''	2.16	0.45
40:BF:157:VAL:HG23	40:BF:157:VAL:O	2.16	0.45
24:AY:124:GLN:C	24:AY:127:LYS:HB3	2.37	0.45
35:DA:1009:A:H1'	53:DU:59:ARG:NH1	2.32	0.45
53:DU:115:ALA:C	53:DU:117:GLN:N	2.70	0.45
53:DU:50:ARG:C	53:DU:52:ARG:N	2.69	0.45
54:DV:47:VAL:O	54:DV:47:VAL:HG23	2.16	0.45
53:BU:83:LEU:CD1	53:BU:113:ALA:HB2	2.47	0.45
53:BU:83:LEU:HG	53:BU:88:ILE:HD11	1.98	0.45
24:AY:465:ARG:O	24:AY:470:PHE:HD2	1.99	0.45
33:B8:53:PRO:HG2	33:B8:54:GLU:N	2.31	0.45
1:CA:1314:C:N4	19:CS:4:SER:N	2.65	0.45
57:DY:39:VAL:O	57:DY:40:GLU:CD	2.55	0.45
19:AS:50:ALA:O	19:AS:51:VAL:C	2.56	0.45
40:DF:107:LYS:HD2	40:DF:205:ARG:O	2.16	0.45
41:DG:57:ALA:HA	41:DG:90:LEU:HD22	1.99	0.45
1:AA:1237:C:H3'	1:AA:1336:C:H41	1.82	0.45
35:BA:299:A:H1'	35:BA:322:A:N6	2.32	0.45
57:BY:91:GLU:HB2	57:BY:92:ASN:H	1.57	0.45
30:B5:3:LYS:CE	35:BA:2613:U:H2'	2.47	0.45
35:BA:1452:A:C3'	35:BA:1453:U:C5'	2.72	0.45
3:CC:155:GLY:O	3:CC:156:ARG:HB2	2.17	0.45
40:BF:126:VAL:HG23	40:BF:127:GLU:N	2.32	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:DD:48:ARG:HG3	38:DD:48:ARG:HH11	1.81	0.45
38:BD:43:ARG:NH1	38:BD:49:ILE:HG22	2.31	0.45
35:DA:960:A:C8	35:DA:962:G:C8	3.04	0.45
44:DK:103:GLN:HA	44:DK:106:GLU:OE2	2.17	0.45
1:AA:1499:A:O2'	1:AA:1500:A:H5'	2.17	0.45
1:AA:1505:G:C8	1:AA:1505:G:H5''	2.51	0.45
48:BP:133:SER:O	48:BP:136:GLU:HG2	2.17	0.45
2:CB:189:ASP:OD2	2:CB:205:ASP:OD1	2.35	0.45
2:AB:97:TRP:CZ3	2:AB:173:ALA:HA	2.52	0.45
35:BA:2887:U:H2'	35:BA:2888:C:C6	2.52	0.45
19:AS:15:LEU:O	19:AS:19:VAL:N	2.50	0.45
1:AA:1195:C:H2'	1:AA:1197:G:O4'	2.17	0.45
35:BA:1495:A:N3	35:BA:1496:A:C2	2.85	0.45
51:DS:87:PHE:HB2	51:DS:106:ARG:HH21	1.82	0.45
46:DN:57:ALA:O	46:DN:58:ASP:C	2.53	0.45
29:D4:21:VAL:HG12	29:D4:21:VAL:O	2.16	0.45
3:AC:83:ARG:C	3:AC:85:ARG:N	2.68	0.45
20:CT:16:HIS:O	20:CT:17:ARG:C	2.55	0.45
2:AB:48:MET:HA	2:AB:51:LEU:HD12	1.99	0.45
19:CS:15:LEU:O	19:CS:19:VAL:N	2.50	0.45
58:DZ:153:SER:O	58:DZ:155:LEU:HD23	2.16	0.45
1:CA:1225:A:N3	1:CA:1225:A:C2'	2.77	0.45
35:BA:2762:G:H8	35:BA:2762:G:C5'	2.28	0.45
36:DB:89:G:C6	36:DB:90:A:N1	2.85	0.45
57:BY:10:GLY:C	57:BY:27:VAL:HG22	2.37	0.45
12:AL:41:ARG:NH1	12:AL:41:ARG:CB	2.78	0.45
5:AE:8:GLU:HA	5:AE:34:VAL:HA	1.98	0.45
26:D1:82:LEU:HD23	26:D1:90:ILE:HD12	1.98	0.45
52:BT:55:ASN:ND2	52:BT:58:ASN:HD21	2.15	0.45
29:D4:43:TYR:CD2	29:D4:44:THR:HG23	2.52	0.45
1:AA:356:A:H1'	1:AA:368:U:O2'	2.16	0.45
58:BZ:141:VAL:O	58:BZ:142:SER:CB	2.64	0.45
26:D1:45:ASN:ND2	35:DA:2090:G:H21	2.07	0.45
40:BF:160:ASN:ND2	40:BF:162:LEU:HB2	2.28	0.45
12:CL:30:ALA:CB	12:CL:33:ARG:HH21	2.30	0.45
35:BA:288:C:O2'	35:BA:289:A:H5'	2.17	0.45
35:DA:1478:G:HO2'	35:DA:1558:A:H2	1.64	0.45
55:BW:66:GLU:HA	55:BW:69:LEU:HD12	1.97	0.45
53:DU:21:ALA:HA	53:DU:24:TYR:CD1	2.52	0.45
30:D5:59:GLU:HB3	30:D5:60:VAL:H	1.68	0.45
35:DA:2126:A:H1'	35:DA:2127:G:O4'	2.17	0.45
50:DR:11:ASN:O	50:DR:12:ARG:CB	2.64	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
56:BX:71:GLY:C	56:BX:72:LYS:HG3	2.37	0.45
37:BC:173:HIS:O	37:BC:174:ALA:HB2	2.16	0.45
28:D3:19:GLN:O	28:D3:22:ALA:HB3	2.16	0.45
4:CD:163:GLU:HA	4:CD:163:GLU:OE2	2.15	0.45
18:CR:44:LEU:O	18:CR:45:SER:O	2.34	0.45
27:B2:13:ALA:C	27:B2:15:LYS:N	2.69	0.45
11:CK:24:SER:O	11:CK:88:GLY:HA2	2.17	0.45
24:AY:497:PHE:O	24:AY:498:ILE:O	2.35	0.45
35:BA:686:G:N2	35:BA:788:A:H61	2.15	0.45
24:CY:293:THR:C	24:CY:295:GLU:N	2.67	0.45
46:BN:55:VAL:HG22	46:BN:56:ASN:N	2.32	0.45
35:BA:389:G:O4'	35:BA:2413:G:C4'	2.65	0.45
43:BJ:67:UNK:C	43:BJ:69:UNK:N	2.80	0.45
48:DP:122:PRO:HA	48:DP:141:ALA:O	2.17	0.45
35:BA:657:U:C2	35:BA:658:C:C5	3.05	0.45
29:D4:39:CYS:SG	29:D4:42:PHE:HE2	2.40	0.45
27:B2:55:ARG:HH21	27:B2:55:ARG:HG3	1.82	0.45
33:D8:29:LYS:HD2	33:D8:44:LYS:HG2	1.99	0.45
3:CC:112:SER:OG	3:CC:114:PRO:HD2	2.17	0.45
35:BA:492:A:H2'	35:BA:493:G:C5'	2.46	0.45
35:BA:782:A:C2	38:BD:226:MET:HG2	2.51	0.45
35:BA:1499:C:C2'	35:BA:1500:G:H5'	2.46	0.45
35:DA:2555:U:C2'	35:DA:2556:C:H5'	2.47	0.45
47:BO:91:LEU:N	47:BO:91:LEU:CD2	2.79	0.45
35:DA:15:G:H2'	35:DA:16:G:H8	1.81	0.45
35:DA:17:G:H2'	35:DA:18:C:C6	2.52	0.45
1:CA:883:C:O2'	1:CA:884:U:H5'	2.17	0.45
38:BD:31:LYS:HZ2	38:BD:33:LEU:HB2	1.81	0.45
35:DA:1472:A:H2'	35:DA:1473:G:C8	2.52	0.45
35:DA:42:G:N3	35:DA:42:G:H2'	2.32	0.45
24:CY:182:ARG:C	24:CY:184:LYS:H	2.21	0.45
35:BA:271(C):C:H2'	35:BA:271(D):G:H8	1.81	0.45
35:BA:338:G:O2'	35:BA:339:U:H5'	2.16	0.45
35:BA:74:A:H5''	35:BA:75:G:O4'	2.17	0.45
35:BA:2337:G:H2'	35:BA:2338:G:C8	2.52	0.45
8:CH:32:LYS:O	8:CH:34:GLU:N	2.50	0.45
1:CA:238:G:O2'	1:CA:239:U:H5'	2.17	0.45
24:CY:613:PRO:CG	24:CY:666:ARG:HH21	2.30	0.45
34:B9:2:LYS:HE3	34:B9:2:LYS:HB3	1.87	0.45
35:DA:949:C:H2'	35:DA:950:G:H8	1.81	0.45
1:AA:923:A:H2'	1:AA:924:C:C6	2.51	0.45
52:DT:113:LYS:O	52:DT:114:LEU:HD23	2.17	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AD:168:ARG:HA	4:AD:168:ARG:HH11	1.81	0.45
35:DA:496:G:C6	35:DA:497:A:C4	3.05	0.45
46:BN:104:LYS:HB2	46:BN:117:PHE:CE1	2.52	0.45
1:AA:811:C:H4'	1:AA:900:A:N6	2.32	0.45
41:BG:8:LYS:O	41:BG:12:TYR:HD1	2.00	0.44
41:BG:67:LYS:HD3	41:BG:68:PRO:O	2.16	0.44
24:CY:457:LEU:O	24:CY:458:HIS:C	2.55	0.44
22:AW:37:U:N3	23:AX:13:A:N6	2.65	0.44
10:CJ:4:ILE:CB	10:CJ:74:ILE:HD11	2.48	0.44
46:DN:40:PRO:O	53:DU:64:ARG:NH2	2.49	0.44
54:DV:40:LEU:CA	54:DV:45:THR:HB	2.42	0.44
1:AA:979:C:C3'	1:AA:980:C:C5'	2.76	0.44
57:DY:84:ARG:HG2	57:DY:85:VAL:H	1.83	0.44
57:DY:81:LYS:HD2	57:DY:96:ILE:CG2	2.47	0.44
40:DF:192:LEU:C	40:DF:192:LEU:CD2	2.85	0.44
51:BS:12:PHE:C	51:BS:12:PHE:HD1	2.20	0.44
1:AA:1221:G:P	19:AS:36:ARG:HD3	2.56	0.44
35:BA:1826:G:H2'	35:BA:1827:C:H6	1.82	0.44
3:CC:83:ARG:C	3:CC:85:ARG:H	2.21	0.44
24:CY:162:VAL:CG1	24:CY:216:LEU:HD12	2.47	0.44
40:DF:10:PRO:HD2	40:DF:13:SER:O	2.17	0.44
51:BS:65:VAL:C	51:BS:67:ARG:H	2.20	0.44
3:AC:32:LEU:O	3:AC:35:GLU:HB3	2.17	0.44
3:AC:35:GLU:OE1	3:AC:97:LYS:HE3	2.17	0.44
35:DA:581:C:C2	35:DA:582:G:N7	2.85	0.44
46:BN:133:GLN:CG	46:BN:134:ARG:H	2.30	0.44
35:DA:1799:G:N2	35:DA:1818:U:H2'	2.32	0.44
35:DA:1799:G:H5'	35:DA:1819:A:H61	1.81	0.44
44:BK:21:PRO:HA	44:BK:23:VAL:H	1.82	0.44
20:CT:30:LYS:HZ2	20:CT:34:LYS:HE3	1.81	0.44
1:AA:1225:A:N3	1:AA:1225:A:C2'	2.77	0.44
13:AM:79:LYS:HA	13:AM:82:MET:CG	2.47	0.44
24:AY:302:HIS:HA	24:AY:303:PRO:HD2	1.74	0.44
24:AY:14:ASN:ND2	24:AY:80:ASN:HD22	2.14	0.44
29:D4:51:ASP:OD2	29:D4:52:THR:HG23	2.17	0.44
5:AE:8:GLU:CA	5:AE:34:VAL:HG23	2.46	0.44
5:AE:9:LYS:NZ	5:AE:111:GLU:OE1	2.50	0.44
36:BB:86:G:H2'	36:BB:87:G:H8	1.77	0.44
42:DH:121:ILE:HD13	42:DH:144:VAL:HG21	1.99	0.44
27:D2:48:HIS:CE1	35:DA:95:G:HO2'	2.32	0.44
53:BU:33:ARG:C	53:BU:35:ALA:H	2.20	0.44
35:BA:1331:A:O2'	35:BA:1332:G:H8	2.00	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1947:C:H2'	35:DA:1948:G:H8	1.83	0.44
11:CK:33:THR:HG22	11:CK:39:PRO:CA	2.40	0.44
47:BO:24:VAL:HG23	47:BO:24:VAL:O	2.16	0.44
40:BF:165:ARG:HH11	40:BF:165:ARG:HB3	1.82	0.44
42:DH:54:ARG:HH11	42:DH:54:ARG:HG2	1.82	0.44
12:CL:28:LYS:HB2	12:CL:33:ARG:HH22	1.82	0.44
35:DA:1114:G:H2'	35:DA:1115:G:C5'	2.47	0.44
36:DB:115:G:O4'	51:DS:47:THR:HB	2.17	0.44
1:AA:1300:G:O2'	1:AA:1301:U:OP2	2.35	0.44
35:DA:558:G:C5'	46:DN:112:LEU:HD22	2.47	0.44
24:CY:122:TRP:C	24:CY:124:GLN:N	2.69	0.44
36:BB:14:U:H5'	36:BB:71:C:O4'	2.16	0.44
12:AL:39:VAL:HG21	12:AL:57:LYS:HD2	1.99	0.44
13:CM:3:ARG:HH21	13:CM:7:VAL:HG13	1.82	0.44
35:DA:958:U:H6	35:DA:958:U:H3'	1.82	0.44
35:BA:1381:G:N2	35:BA:1382:G:H1'	2.32	0.44
15:AO:50:HIS:O	15:AO:53:HIS:HB3	2.16	0.44
27:B2:13:ALA:O	27:B2:15:LYS:N	2.50	0.44
1:AA:1347:G:H2'	1:AA:1373:G:C6	2.52	0.44
24:CY:414:GLU:O	24:CY:474:ALA:HB1	2.17	0.44
13:AM:37:THR:HG21	13:AM:56:LEU:HA	1.97	0.44
49:DQ:76:LYS:HE2	49:DQ:77:LYS:O	2.18	0.44
35:BA:625:G:H5'	35:BA:657:U:OP1	2.17	0.44
50:BR:106:GLY:O	50:BR:107:ASP:HB3	2.16	0.44
35:DA:331:A:O2'	35:DA:332:A:OP1	2.26	0.44
1:CA:781:A:C2'	1:CA:782:A:H5'	2.47	0.44
35:DA:1491:G:H2'	35:DA:1491:G:N3	2.33	0.44
38:DD:153:ALA:O	38:DD:154:LYS:CG	2.65	0.44
35:BA:333:G:N3	35:BA:333:G:H2'	2.32	0.44
5:AE:129:ILE:O	5:AE:132:ALA:HB3	2.17	0.44
3:CC:25:GLY:C	3:CC:27:LYS:N	2.70	0.44
35:DA:45:C:OP2	35:DA:215:G:H5''	2.17	0.44
35:DA:216:A:H2'	35:DA:217:G:H8	1.81	0.44
35:BA:2650:U:O2'	35:BA:2651:C:H5'	2.17	0.44
35:BA:1416:G:H1'	35:BA:1417:C:C5	2.52	0.44
6:AF:62:TRP:CE2	18:AR:35:ARG:NH2	2.85	0.44
6:AF:60:PHE:CE2	18:AR:78:LEU:HD21	2.52	0.44
6:CF:62:TRP:CD1	18:CR:35:ARG:NH1	2.85	0.44
35:BA:526:A:N6	35:BA:2626:C:H4'	2.32	0.44
1:AA:315:A:O2'	1:AA:316:G:P	2.75	0.44
1:AA:115:G:H1'	1:AA:116:A:N7	2.32	0.44
1:CA:605:U:O2'	1:CA:606:G:H5'	2.17	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1411:C:N4	35:DA:1412:A:N6	2.66	0.44
40:DF:112:MET:HA	40:DF:115:ALA:HB3	1.99	0.44
1:CA:826:C:H2'	1:CA:827:U:H6	1.81	0.44
1:CA:197:A:H4'	1:CA:198:G:H5'	1.98	0.44
4:AD:199:ASN:OD1	4:AD:201:GLN:HB2	2.17	0.44
1:AA:778:G:H1'	11:AK:119:CYS:HB3	1.98	0.44
35:DA:269:U:H2'	35:DA:270:A:H8	1.81	0.44
35:BA:1856:G:H1	35:BA:1886:C:H42	1.64	0.44
26:B1:53:VAL:O	26:B1:54:ALA:C	2.54	0.44
50:BR:94:TYR:CD1	50:BR:94:TYR:N	2.85	0.44
35:DA:1555:G:N3	35:DA:1555:G:H2'	2.32	0.44
3:CC:182:ILE:HG12	3:CC:203:PHE:HD1	1.81	0.44
35:BA:703:U:O2'	35:BA:704:G:H5'	2.17	0.44
41:BG:97:ASP:O	41:BG:101:ILE:HB	2.17	0.44
37:BC:88:GLU:N	37:BC:95:VAL:HG21	2.33	0.44
4:CD:8:VAL:O	4:CD:10:ARG:N	2.41	0.44
1:CA:1489:G:C5	1:CA:1490:C:C5	3.06	0.44
24:CY:519:ARG:CZ	24:CY:678:GLU:H	2.27	0.44
24:CY:25:LYS:HZ2	62:CY:703:GDP:PB	2.40	0.44
24:AY:181:LEU:HD23	24:AY:182:ARG:NH1	2.33	0.44
53:DU:82:GLY:C	53:DU:84:LYS:N	2.69	0.44
16:AP:20:VAL:HG22	16:AP:21:VAL:N	2.32	0.44
53:BU:115:ALA:C	53:BU:117:GLN:H	2.20	0.44
24:AY:435:ASP:C	24:AY:435:ASP:OD2	2.55	0.44
48:BP:47:ASP:CB	48:BP:48:PRO:CA	2.94	0.44
1:AA:1004:A:H5'	1:AA:1025:U:C4	2.52	0.44
40:DF:198:ALA:C	40:DF:201:VAL:HG12	2.38	0.44
40:DF:205:ARG:O	40:DF:206:ILE:HD13	2.18	0.44
31:D6:54:ILE:HD11	35:DA:2420:C:H5'	1.98	0.44
3:AC:70:VAL:CG1	3:AC:71:ALA:N	2.62	0.44
57:BY:86:ARG:CB	57:BY:88:LYS:HZ1	2.30	0.44
1:AA:1218:C:H2'	1:AA:1219:U:C5	2.52	0.44
19:AS:35:SER:C	19:AS:37:ARG:H	2.19	0.44
19:AS:5:LEU:HD12	19:AS:8:GLY:C	2.36	0.44
5:AE:82:VAL:HG21	5:AE:138:ALA:CA	2.43	0.44
38:DD:94:LEU:HD23	38:DD:95:LEU:N	2.32	0.44
35:DA:747:U:O2'	55:DW:88:ARG:HG3	2.17	0.44
12:AL:17:LYS:HD3	12:AL:18:VAL:H	1.82	0.44
12:AL:18:VAL:O	12:AL:19:ARG:CB	2.65	0.44
31:B6:15:GLU:OE1	31:B6:41:PRO:HG3	2.18	0.44
28:B3:8:LEU:O	28:B3:31:LEU:HD22	2.17	0.44
39:DE:37:ARG:HA	39:DE:42:ASP:OD2	2.16	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
47:DO:17:ARG:O	47:DO:18:LYS:HG3	2.17	0.44
35:BA:271(H):G:H1	35:BA:271(P):C:N4	2.15	0.44
46:BN:15:LEU:C	46:BN:15:LEU:HD13	2.38	0.44
1:AA:781:A:C3'	1:AA:782:A:H5'	2.48	0.44
2:CB:238:LEU:O	2:CB:239:VAL:C	2.55	0.44
10:CJ:54:PHE:O	10:CJ:55:LYS:O	2.35	0.44
39:DE:36:ARG:CG	39:DE:36:ARG:NH1	2.77	0.44
35:BA:2319:G:C2	35:BA:2320:A:N1	2.85	0.44
35:DA:2292:C:O2'	35:DA:2293:C:H5'	2.17	0.44
51:DS:25:ARG:CG	51:DS:26:LEU:H	2.29	0.44
35:BA:2712:U:H2'	35:BA:2713:A:H5'	1.99	0.44
1:CA:80:G:C3'	1:CA:81:U:H5'	2.35	0.44
52:DT:23:ARG:HA	52:DT:52:ILE:HD11	2.00	0.44
35:DA:1019:U:N3	35:DA:1142(A):A:N6	2.66	0.44
35:BA:803:U:H2'	35:BA:804:A:C5'	2.48	0.44
1:AA:960:U:C6	1:AA:1225:A:C8	3.05	0.44
2:AB:187:LEU:HD22	2:AB:201:ILE:O	2.17	0.44
42:BH:46:GLU:CG	42:BH:51:ARG:HB2	2.46	0.44
38:DD:131:LEU:HD13	38:DD:136:ILE:HD11	1.99	0.44
39:DE:21:VAL:HG23	39:DE:21:VAL:O	2.16	0.44
38:DD:26:LYS:O	38:DD:27:THR:CG2	2.65	0.44
35:BA:795:C:H2'	35:BA:796:C:C6	2.53	0.44
35:BA:557:U:H2'	35:BA:558:G:H8	1.82	0.44
38:BD:145:VAL:HG12	38:BD:146:GLU:O	2.17	0.44
9:AI:104:ARG:O	9:AI:105:ASP:N	2.50	0.44
1:AA:608:A:C2'	1:AA:609:A:H5'	2.47	0.44
24:CY:517:LEU:HB3	24:CY:521:SER:CB	2.47	0.44
4:AD:163:GLU:C	4:AD:165:MET:H	2.21	0.44
50:BR:11:ASN:O	50:BR:12:ARG:CB	2.64	0.44
9:AI:73:GLN:O	9:AI:75:ASP:N	2.50	0.44
35:BA:915:C:H2'	35:BA:916:G:H8	1.83	0.44
35:DA:848:G:N9	35:DA:933:A:H8	2.15	0.44
1:AA:1132:C:N4	1:AA:1133:G:C6	2.85	0.44
38:BD:177:LEU:O	38:BD:179:SER:N	2.50	0.44
57:DY:47:LYS:HG3	57:DY:60:PHE:CE2	2.43	0.44
16:CP:49:LEU:CD2	16:CP:73:LEU:HD22	2.43	0.44
8:CH:17:THR:HG22	8:CH:63:LEU:HD12	1.99	0.44
42:DH:89:ILE:C	42:DH:89:ILE:HD12	2.38	0.44
1:AA:1347:G:H2'	1:AA:1373:G:O6	2.17	0.44
26:D1:29:GLY:O	26:D1:30:VAL:HG22	2.18	0.44
58:BZ:153:SER:CB	58:BZ:163:LEU:HD13	2.47	0.44
13:CM:54:VAL:HG12	13:CM:58:GLU:CG	2.47	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:DH:86:GLU:OE2	42:DH:86:GLU:N	2.50	0.44
1:AA:59:A:H5'	1:AA:60:A:H5'	1.97	0.44
35:DA:1718:G:O2'	35:DA:1719:G:H5'	2.17	0.44
35:BA:21:A:O2'	35:BA:22:C:H5'	2.17	0.44
21:AU:2:GLY:C	21:AU:4:GLY:N	2.70	0.44
9:AI:70:LYS:O	9:AI:74:ILE:HG13	2.16	0.44
51:DS:58:LEU:CD1	51:DS:59:LYS:H	2.28	0.44
51:DS:59:LYS:HG2	51:DS:60:GLY:H	1.79	0.44
1:CA:658:G:C6	1:CA:749:C:N4	2.85	0.44
1:CA:714:G:H2'	1:CA:715:A:C8	2.51	0.44
35:BA:1718:G:O2'	35:BA:1719:G:H5'	2.17	0.44
35:BA:55:G:H1	35:BA:115:C:H42	1.65	0.44
35:BA:1511:C:H2'	35:BA:1512:U:O4'	2.16	0.44
35:BA:2203:U:H1'	38:BD:151:LYS:HE3	1.98	0.44
7:AG:113:GLU:CG	7:AG:119:ARG:HG2	2.47	0.44
35:DA:216:A:H2'	35:DA:217:G:C8	2.53	0.44
35:BA:520:G:H2'	35:BA:521:G:H8	1.82	0.44
24:AY:262:SER:OG	24:AY:265:LYS:HG3	2.17	0.44
32:D7:33:ARG:HB2	32:D7:33:ARG:HH11	1.83	0.44
2:CB:8:LYS:O	2:CB:9:GLU:C	2.56	0.44
35:DA:1149:G:H2'	35:DA:1150:C:H6	1.83	0.44
35:DA:271(K):U:H3'	35:DA:271(L):U:C5'	2.47	0.44
1:AA:260:G:O2'	1:AA:261:U:H5'	2.17	0.44
7:CG:108:ALA:O	7:CG:111:ARG:HB2	2.17	0.44
5:CE:139:LEU:O	5:CE:141:GLN:N	2.50	0.44
1:AA:909:A:H2'	1:AA:910:C:O4'	2.17	0.44
5:AE:150:ARG:HB2	5:AE:150:ARG:NH1	2.32	0.44
35:DA:329:G:H4'	35:DA:330:A:OP2	2.17	0.44
35:DA:1755:A:P	52:DT:113:LYS:NZ	2.90	0.44
17:AQ:9:VAL:CG1	17:AQ:56:VAL:HG22	2.47	0.44
35:BA:1530:C:H2'	35:BA:1531:C:H6	1.83	0.44
46:DN:104:LYS:HB2	46:DN:117:PHE:CE1	2.52	0.44
5:CE:122:GLU:O	5:CE:123:LEU:HD23	2.16	0.44
22:AV:32:C:C4	22:AV:33:U:C5	3.05	0.44
5:AE:29:GLY:HA2	5:AE:46:GLY:O	2.17	0.44
35:BA:777:A:H2'	35:BA:778:G:H8	1.82	0.44
1:AA:1427:U:H2'	1:AA:1428:A:C8	2.53	0.44
41:BG:107:LEU:HA	41:BG:111:LEU:HD12	1.98	0.44
10:AJ:32:ALA:CB	10:AJ:78:ASN:HD21	2.31	0.44
4:CD:18:LYS:O	4:CD:19:LEU:HD12	2.17	0.44
24:CY:602:LEU:N	24:CY:602:LEU:HD23	2.32	0.44
40:BF:25:PRO:CB	40:BF:119:ARG:HB2	2.46	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:534:U:O2'	53:DU:49:HIS:CD2	2.71	0.44
53:DU:83:LEU:HG	53:DU:88:ILE:HD11	1.99	0.44
54:DV:4:ILE:HG22	54:DV:4:ILE:O	2.18	0.44
53:BU:96:ALA:C	53:BU:98:LEU:H	2.20	0.44
31:B6:11:LEU:HD13	31:B6:11:LEU:C	2.37	0.44
31:B6:51:GLU:HG2	31:B6:52:VAL:N	2.32	0.44
35:BA:833:U:O2	48:BP:55:ARG:NH1	2.49	0.44
35:DA:322:A:P	40:DF:169:ASN:HD22	2.40	0.44
35:BA:272(I):U:H5	35:BA:363(A):A:C2	2.35	0.44
58:BZ:167:PRO:O	58:BZ:168:GLU:CB	2.66	0.44
35:DA:1899:G:N2	35:DA:1902:C:C5	2.85	0.44
22:AV:20:U:H3'	22:AV:21:A:C5'	2.39	0.44
30:D5:7:PRO:HG2	35:DA:2016:U:O2	2.17	0.44
5:CE:144:THR:C	5:CE:146:ALA:N	2.71	0.44
2:CB:165:VAL:CG2	2:CB:166:ASP:H	2.15	0.44
38:BD:44:ASN:N	38:BD:44:ASN:OD1	2.49	0.44
38:DD:259:THR:O	38:DD:260:ARG:O	2.36	0.44
44:DK:77:LEU:HD13	44:DK:110:GLN:OE1	2.17	0.44
46:BN:128:HIS:HE1	46:BN:134:ARG:NH1	2.15	0.44
12:CL:83:VAL:HG12	12:CL:84:LEU:N	2.32	0.44
39:DE:51:PHE:HD1	39:DE:52:LEU:N	2.15	0.44
39:BE:32:PRO:CA	39:BE:90:THR:HG23	2.46	0.44
29:D4:22:ILE:HG22	29:D4:24:THR:HG23	1.99	0.44
29:D4:31:ILE:HG23	29:D4:33:VAL:HG23	1.99	0.44
2:AB:17:PHE:O	2:AB:18:GLY:C	2.55	0.44
1:CA:960:U:C6	1:CA:1225:A:C8	3.05	0.44
17:CQ:59:ILE:HG22	17:CQ:71:PHE:CD1	2.51	0.44
35:BA:187:G:N3	35:BA:1365:A:H2	2.15	0.44
36:DB:118:G:C2	36:DB:119:G:N7	2.86	0.44
42:BH:85:LYS:CD	42:BH:85:LYS:C	2.80	0.44
50:DR:9:LYS:C	50:DR:10:LEU:HG	2.37	0.44
18:AR:59:SER:H	18:AR:62:GLU:CB	2.26	0.44
15:CO:25:THR:O	15:CO:26:GLU:C	2.55	0.44
39:BE:177:PRO:O	39:BE:178:GLU:C	2.56	0.44
58:BZ:79:ARG:O	58:BZ:79:ARG:CG	2.65	0.44
35:DA:1948:G:C5'	35:DA:1948:G:C8	2.99	0.44
38:DD:91:ARG:O	38:DD:107:ALA:HB3	2.17	0.44
9:CI:125:TYR:HD2	9:CI:126:SER:H	1.66	0.44
38:BD:92:ILE:CD1	38:BD:92:ILE:H	2.29	0.44
56:BX:64:LYS:NZ	56:BX:73:ARG:NH2	2.66	0.44
35:BA:1654:A:O2'	39:BE:113:PHE:O	2.35	0.44
58:BZ:42:VAL:CG1	58:BZ:43:GLU:H	2.23	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
12:AL:27:LEU:C	12:AL:29:GLY:H	2.20	0.44
51:BS:47:THR:CG2	51:BS:49:VAL:O	2.65	0.44
53:DU:72:HIS:HE1	53:DU:107:ALA:HB2	1.81	0.44
22:AV:36:U:H1'	24:AY:502:GLY:HA2	1.99	0.44
3:AC:131:ARG:HH22	3:AC:168:ALA:HB2	1.83	0.44
35:BA:558:G:C5'	46:BN:112:LEU:HD22	2.46	0.44
24:AY:363:ARG:CG	24:AY:363:ARG:HH11	2.25	0.44
35:DA:2656:U:C4	35:DA:2665:A:H2	2.35	0.44
4:AD:163:GLU:C	4:AD:165:MET:N	2.70	0.44
18:CR:69:THR:O	18:CR:72:ARG:HB2	2.18	0.44
12:CL:86:ARG:NH2	12:CL:99:HIS:CG	2.85	0.44
55:DW:18:ARG:HG2	55:DW:18:ARG:HH11	1.81	0.44
58:BZ:101:PRO:HG2	58:BZ:136:PHE:HA	2.00	0.44
56:DX:41:ASN:C	56:DX:43:VAL:N	2.67	0.44
12:AL:8:ASN:O	12:AL:12:ARG:HG3	2.18	0.44
12:CL:47:LYS:NZ	12:CL:47:LYS:HB3	2.32	0.44
38:DD:77:ALA:HA	38:DD:97:TYR:HA	1.99	0.44
8:CH:119:LEU:HB3	8:CH:123:GLU:HB3	2.00	0.44
22:AV:68:C:H2'	22:AV:69:C:H6	1.81	0.44
3:AC:140:ARG:HG3	3:AC:140:ARG:NH1	2.32	0.44
16:CP:67:THR:HG22	16:CP:68:ASP:H	1.82	0.44
28:D3:4:LEU:HD23	28:D3:58:VAL:HA	1.99	0.44
1:CA:1244:C:O2'	1:CA:1245:A:H5'	2.17	0.44
35:BA:2406:U:C2	48:BP:72:PRO:HB2	2.52	0.44
42:DH:110:SER:O	42:DH:111:HIS:HB2	2.18	0.44
1:CA:865:A:H5'	1:CA:1078:U:C4	2.52	0.44
4:CD:117:ALA:O	4:CD:121:VAL:HG23	2.18	0.44
3:AC:10:PHE:CZ	3:AC:178:LEU:HD11	2.52	0.44
1:CA:992:U:O2'	1:CA:993:G:P	2.76	0.44
7:CG:15:ASP:OD2	7:CG:16:LEU:N	2.51	0.44
20:AT:61:SER:O	20:AT:63:ILE:N	2.50	0.44
35:BA:1077:A:O2'	35:BA:1078:U:H5'	2.16	0.44
38:DD:33:LEU:C	38:DD:33:LEU:HD23	2.38	0.44
35:DA:36:G:H4'	35:DA:451:C:C2	2.53	0.44
38:BD:31:LYS:O	38:BD:33:LEU:N	2.51	0.44
13:CM:35:GLU:HG3	13:CM:36:LYS:N	2.32	0.44
45:DL:76:UNK:C	45:DL:78:UNK:N	2.80	0.44
1:AA:329:A:H3'	1:AA:330:C:C5'	2.48	0.44
54:DV:88:ARG:O	54:DV:90:PRO:HD3	2.17	0.44
13:AM:35:GLU:HG3	13:AM:36:LYS:N	2.32	0.44
1:AA:417:C:H2'	1:AA:418:C:C6	2.53	0.44
1:AA:451:A:O4'	1:AA:452:A:C8	2.70	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
11:CK:29:ILE:HB	11:CK:44:SER:CB	2.47	0.44
36:DB:28:C:O2'	36:DB:29:A:H5'	2.17	0.44
6:CF:99:ALA:O	6:CF:100:ASN:HB2	2.17	0.44
24:CY:356:LEU:HD12	24:CY:365:GLU:HA	1.99	0.44
37:DC:69:LEU:O	37:DC:70:GLY:C	2.55	0.44
37:BC:156:GLU:OE1	37:BC:161:ARG:HD3	2.17	0.44
35:BA:1935:G:H1'	35:BA:1964:G:N2	2.32	0.44
8:CH:40:ALA:HA	8:CH:45:ILE:HG13	1.98	0.44
1:AA:841:U:H3'	1:AA:848:C:C5'	2.47	0.44
35:BA:834:C:O2'	35:BA:835:A:H5'	2.18	0.44
47:DO:120:GLU:OE2	47:DO:122:LEU:HD21	2.17	0.44
2:CB:169:LYS:O	2:CB:169:LYS:HD3	2.18	0.44
56:DX:59:VAL:HG12	56:DX:59:VAL:O	2.17	0.44
7:CG:79:ARG:HD2	7:CG:79:ARG:O	2.17	0.44
58:DZ:5:LEU:HA	58:DZ:5:LEU:HD23	1.80	0.44
49:DQ:65:PHE:N	49:DQ:65:PHE:CD2	2.85	0.44
37:BC:69:LEU:O	37:BC:70:GLY:C	2.55	0.44
10:AJ:81:THR:C	10:AJ:83:GLU:N	2.70	0.44
30:B5:19:ARG:HG3	35:BA:2046:G:H5''	2.00	0.44
24:AY:146:LEU:O	24:AY:147:TRP:C	2.56	0.44
23:CX:12:A:C3'	23:CX:12:A:N3	2.75	0.44
54:DV:40:LEU:N	54:DV:40:LEU:CD2	2.80	0.44
22:AW:58:A:C2'	22:AW:59:A:H5'	2.48	0.44
53:BU:91:ASP:O	53:BU:92:ARG:HB3	2.17	0.44
35:DA:1709:U:H3	35:DA:1749:A:H61	1.65	0.44
24:AY:489:LYS:HA	24:AY:490:PRO:HD3	1.88	0.44
35:DA:2131:G:C8	35:DA:2133:G:N3	2.86	0.44
33:B8:56:GLU:O	33:B8:58:ILE:N	2.50	0.44
31:B6:5:VAL:HB	35:BA:2284:C:P	2.57	0.44
58:DZ:12:GLY:CA	58:DZ:36:LYS:HZ3	2.29	0.44
1:AA:1003:G:N2	1:AA:1004:A:H1'	2.32	0.44
35:BA:2334:G:C2	51:BS:15:ARG:NH1	2.86	0.44
33:D8:56:GLU:O	33:D8:58:ILE:N	2.50	0.44
3:CC:82:GLU:N	3:CC:82:GLU:CD	2.70	0.44
41:DG:38:VAL:HG12	41:DG:93:THR:HA	2.00	0.44
37:DC:135:ARG:C	37:DC:137:LEU:H	2.20	0.44
31:B6:24:GLU:HG3	31:B6:37:ARG:HH21	1.81	0.44
3:CC:60:ALA:O	3:CC:61:ALA:HB2	2.18	0.44
49:DQ:110:THR:HG23	49:DQ:113:GLN:HG3	1.99	0.44
49:DQ:62:GLY:CA	58:DZ:116:VAL:HG21	2.45	0.44
26:D1:76:ARG:HH12	26:D1:95:LEU:CD2	2.15	0.44
28:B3:31:LEU:HD12	35:BA:1157:G:O2'	2.17	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:DP:31:ALA:C	48:DP:33:ARG:N	2.70	0.44
46:BN:16:ILE:O	46:BN:54:VAL:HA	2.18	0.44
1:AA:80:G:C3'	1:AA:81:U:H5'	2.35	0.44
44:BK:3:LYS:HE3	44:BK:29:GLN:HB3	1.99	0.44
35:DA:2887:U:H2'	35:DA:2888:C:C6	2.53	0.44
38:DD:239:ARG:HG2	38:DD:239:ARG:HH21	1.82	0.44
39:DE:50:GLY:HA3	39:DE:74:PRO:HG3	1.99	0.44
39:BE:65:GLY:O	39:BE:67:PHE:N	2.51	0.44
35:DA:2319:G:C2	35:DA:2320:A:N1	2.85	0.44
50:DR:2:ARG:HB2	50:DR:5:LYS:HZ3	1.83	0.44
35:DA:2762:G:H2'	35:DA:2763:G:H5'	1.98	0.44
1:CA:1227:A:C2	13:CM:117:VAL:HG11	2.53	0.44
35:DA:979:G:N2	35:DA:985:C:N4	2.65	0.44
1:CA:149:A:N3	1:CA:149:A:H2'	2.32	0.44
24:CY:170:ARG:NH1	24:CY:205:TYR:OH	2.50	0.44
10:CJ:16:LEU:HD12	10:CJ:70:ARG:HD2	2.00	0.44
29:B4:14:ILE:HD13	29:B4:22:ILE:C	2.38	0.44
47:BO:104:ARG:HE	52:BT:33:LYS:CE	2.22	0.44
1:AA:1026:G:H3'	1:AA:1027:C:C5'	2.48	0.44
24:CY:583:LYS:HD3	24:CY:583:LYS:C	2.37	0.44
35:BA:1052:C:C6	35:BA:1052:C:H3'	2.51	0.44
37:BC:102:GLN:O	37:BC:105:LEU:N	2.50	0.44
8:AH:63:LEU:N	8:AH:63:LEU:HD22	2.33	0.44
49:DQ:35:VAL:CG2	49:DQ:36:ALA:N	2.81	0.44
24:AY:681:LYS:HD2	24:AY:681:LYS:C	2.38	0.44
24:AY:681:LYS:HA	24:AY:684:GLN:HB2	2.00	0.44
13:AM:3:ARG:HH21	13:AM:7:VAL:HG13	1.82	0.44
28:B3:44:ARG:O	28:B3:48:GLU:HG2	2.17	0.44
35:BA:1682:G:H5'	35:BA:1762:A:O2'	2.17	0.44
38:DD:77:ALA:O	38:DD:116:GLN:HG3	2.18	0.44
38:BD:53:PHE:HA	38:BD:218:ARG:HB2	1.99	0.44
37:BC:138:LEU:O	37:BC:139:PRO:C	2.55	0.44
36:BB:21:G:O2'	36:BB:22:U:P	2.76	0.44
42:BH:38:SER:HA	42:BH:39:PRO:HD3	1.84	0.44
1:CA:1305:G:H5''	21:CU:4:GLY:O	2.18	0.44
28:D3:35:ARG:HD3	28:D3:37:LEU:HD21	1.99	0.44
1:AA:657:G:O2'	1:AA:658:G:H5'	2.18	0.44
1:AA:66:G:H4'	1:AA:173:U:H5	1.80	0.44
4:AD:121:VAL:CA	4:AD:126:ILE:HD13	2.48	0.44
1:CA:189:G:H2'	1:CA:189(A):C:H6	1.81	0.44
35:BA:1386:C:H5''	35:BA:1396:U:H5	1.81	0.44
35:DA:2557:G:H2'	35:DA:2558:C:C6	2.51	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:DD:73:VAL:O	38:DD:75:ILE:N	2.50	0.44
1:CA:1255:G:H2'	1:CA:1279:A:H62	1.81	0.44
1:CA:151:A:C2'	1:CA:152:A:H5'	2.48	0.44
1:CA:1422:G:H2'	1:CA:1423:G:H8	1.82	0.44
13:AM:74:VAL:CA	13:AM:77:ASN:HD22	2.29	0.44
37:BC:65:LEU:HD21	37:BC:162:ILE:HD11	2.00	0.44
14:AN:44:LEU:C	14:AN:44:LEU:HD12	2.37	0.44
1:CA:414:A:O2'	1:CA:415:A:H5'	2.17	0.44
38:BD:211:ARG:O	38:BD:215:LEU:HG	2.17	0.44
43:DJ:55:UNK:O	43:DJ:56:UNK:C	2.65	0.44
19:CS:72:GLY:C	19:CS:74:PHE:N	2.71	0.44
15:CO:64:ARG:HB2	15:CO:64:ARG:CZ	2.48	0.44
35:BA:425:G:H2'	35:BA:426:C:H6	1.82	0.44
52:BT:96:ARG:CZ	52:BT:96:ARG:HB3	2.47	0.44
35:BA:86:C:H4'	35:BA:104:U:O2	2.18	0.44
8:AH:30:ARG:HH11	8:AH:30:ARG:HB2	1.82	0.44
35:BA:641:C:H2'	35:BA:642:G:O4'	2.17	0.44
35:BA:1132:A:C4	35:BA:1133:U:C5	3.04	0.44
35:BA:1218:C:H2'	35:BA:1219:G:C8	2.52	0.44
1:AA:61:G:H2'	1:AA:62:U:O4'	2.16	0.44
37:BC:182:PRO:HB3	37:BC:184:GLU:OE2	2.17	0.44
1:CA:646:U:H2'	1:CA:647:C:C6	2.53	0.44
1:AA:399:G:H2'	1:AA:400:C:C6	2.52	0.44
44:BK:104:VAL:HG23	44:BK:127:ILE:CG2	2.48	0.44
38:DD:5:LYS:HD2	38:DD:17:THR:HG22	1.98	0.44
47:DO:14:THR:O	47:DO:14:THR:HG22	2.17	0.44
22:CW:57:C:OP1	22:CW:57:C:H6	2.00	0.44
41:BG:97:ASP:CB	41:BG:98:ARG:HH12	2.19	0.44
39:DE:132:HIS:CG	39:DE:135:HIS:NE2	2.85	0.44
53:BU:115:ALA:C	53:BU:117:GLN:N	2.70	0.44
53:BU:92:ARG:HB3	54:BV:11:GLN:NE2	2.33	0.44
31:B6:5:VAL:CG2	35:BA:2283:C:OP1	2.65	0.44
33:B8:32:LEU:O	33:B8:33:ASN:O	2.35	0.44
19:AS:58:VAL:O	19:AS:58:VAL:CG2	2.65	0.44
51:DS:12:PHE:C	51:DS:12:PHE:HD1	2.21	0.44
31:D6:11:LEU:CB	31:D6:26:ASN:HD21	2.31	0.44
33:D8:56:GLU:C	33:D8:58:ILE:N	2.71	0.44
35:DA:2288:A:C2	35:DA:2325:G:N7	2.86	0.44
41:DG:110:ALA:O	41:DG:111:LEU:C	2.55	0.44
41:DG:55:LYS:HD3	41:DG:55:LYS:C	2.36	0.44
41:DG:60:LEU:O	41:DG:64:THR:HG22	2.17	0.44
52:BT:28:VAL:O	52:BT:28:VAL:HG12	2.17	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1971:A:N3	38:BD:240:ALA:HA	2.33	0.44
37:DC:115:VAL:HG12	37:DC:145:THR:CG2	2.46	0.44
30:B5:44:THR:CG2	30:B5:45:VAL:H	2.22	0.44
35:DA:943:U:OP2	48:DP:38:GLN:OE1	2.36	0.44
35:DA:662:G:P	48:DP:18:ARG:HD2	2.57	0.44
35:BA:1408:C:H42	35:BA:1594:G:H1	1.66	0.44
46:DN:120:LEU:HD13	46:DN:120:LEU:C	2.38	0.44
35:BA:1820:U:C2	38:BD:202:LYS:HG2	2.53	0.44
24:AY:409:ILE:HD12	24:AY:654:GLY:HA2	1.97	0.44
44:DK:105:LEU:CD2	44:DK:120:LEU:HD13	2.47	0.44
35:DA:1782:C:H1'	35:DA:2609:U:C5'	2.38	0.44
33:D8:4:MET:O	33:D8:62:LEU:CD1	2.65	0.44
27:D2:69:ARG:HH22	35:DA:111:A:H4'	1.83	0.44
35:BA:637:A:OP1	48:BP:133:SER:CB	2.66	0.44
39:BE:51:PHE:HD1	39:BE:52:LEU:HD12	1.82	0.44
46:BN:57:ALA:O	46:BN:58:ASP:C	2.55	0.44
38:BD:70:TRP:HH2	38:BD:150:LYS:HA	1.76	0.44
52:DT:117:ASP:O	52:DT:118:ARG:C	2.56	0.44
50:BR:33:ARG:HG3	50:BR:115:GLU:HG3	2.00	0.44
3:AC:90:GLU:OE1	3:AC:93:LYS:HD2	2.17	0.44
35:DA:2722:G:O2'	50:DR:5:LYS:HB2	2.18	0.44
35:BA:191:A:O2'	35:BA:192:C:H5'	2.17	0.44
25:B0:60:PHE:HE2	35:BA:2365:G:C4'	2.27	0.44
5:AE:33:VAL:CG1	5:AE:34:VAL:N	2.80	0.44
44:DK:30:HIS:CA	44:DK:59:ILE:HD12	2.39	0.44
52:BT:57:PHE:CG	52:BT:58:ASN:N	2.82	0.44
13:CM:66:LEU:CD1	13:CM:66:LEU:N	2.72	0.44
24:AY:486:THR:HG22	24:AY:602:LEU:HG	1.99	0.44
52:DT:107:ASP:CG	52:DT:108:ARG:N	2.67	0.44
50:BR:118:GLU:HA	50:BR:118:GLU:OE1	2.18	0.44
39:DE:23:VAL:CG1	39:DE:173:VAL:HG21	2.47	0.44
24:CY:447:GLY:O	24:CY:449:THR:N	2.51	0.44
47:BO:104:ARG:NH2	52:BT:33:LYS:CE	2.80	0.44
27:B2:2:LYS:HE3	27:B2:52:ASP:OD1	2.18	0.44
35:DA:2779:U:H5'	35:DA:2780:G:O5'	2.17	0.44
9:AI:125:TYR:CD2	9:AI:126:SER:N	2.85	0.44
35:DA:460:A:C2	35:DA:470:A:C4	3.05	0.44
39:DE:96:PHE:HA	39:DE:100:GLU:OE1	2.17	0.44
46:DN:32:THR:HG23	46:DN:37:LYS:HB3	1.99	0.44
35:BA:892:G:O2'	35:BA:893:C:H5'	2.18	0.44
36:DB:9:G:C6	36:DB:113:G:C6	3.06	0.44
35:BA:841:A:H2'	35:BA:842:G:O4'	2.17	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:CY:71:THR:HB	24:CY:78:ARG:HH12	1.82	0.44
22:AV:54:5MU:C2'	22:AV:55:U:H5'	2.47	0.44
12:AL:86:ARG:HH22	12:AL:99:HIS:CD2	2.35	0.44
35:BA:914:C:C2'	35:BA:915:C:H5'	2.42	0.44
55:BW:47:VAL:O	55:BW:47:VAL:CG1	2.66	0.44
25:D0:26:TYR:CE2	35:DA:857:C:H1'	2.48	0.44
1:AA:1074:G:O2'	1:AA:1075:C:H5'	2.17	0.44
35:BA:2543:G:C2	35:BA:2765:A:H2'	2.52	0.44
12:AL:7:ILE:HG22	12:AL:8:ASN:N	2.32	0.44
35:BA:848:G:N9	35:BA:933:A:H8	2.15	0.44
22:CV:4:G:HO2'	22:CV:5:G:H8	1.63	0.44
20:CT:75:ASN:HD22	20:CT:75:ASN:H	1.65	0.44
37:BC:115:VAL:HA	37:BC:145:THR:CG2	2.46	0.44
24:CY:616:TYR:HB3	24:CY:662:LYS:O	2.17	0.44
24:AY:529:ILE:HD11	24:AY:567:LEU:CD1	2.48	0.44
32:B7:5:TRP:CZ3	35:BA:464:U:H4'	2.53	0.44
39:DE:9:VAL:HG22	39:DE:10:GLY:H	1.81	0.44
35:BA:484:C:H2'	35:BA:485:C:C6	2.52	0.44
1:CA:1347:G:H2'	1:CA:1373:G:C6	2.52	0.44
35:BA:2550:G:C6	35:BA:2551:C:N4	2.86	0.44
23:CX:17:U:O2'	23:CX:18:G:H5'	2.18	0.44
35:BA:1213:A:N3	35:BA:1238:G:H1'	2.32	0.44
20:CT:42:GLN:CA	20:CT:42:GLN:NE2	2.78	0.44
37:BC:211:ARG:HG3	37:BC:211:ARG:NH1	2.32	0.44
35:BA:198:C:N4	35:BA:248:G:H1	2.14	0.44
24:CY:617:MET:HE3	24:CY:641:GLN:CB	2.48	0.44
57:DY:105:ALA:C	57:DY:107:ASP:N	2.71	0.44
4:AD:110:PHE:N	4:AD:110:PHE:CD1	2.85	0.44
1:CA:37:U:O2'	1:CA:500:G:H4'	2.17	0.44
15:AO:64:ARG:CZ	15:AO:64:ARG:HB2	2.47	0.44
8:AH:6:ILE:N	8:AH:6:ILE:CD1	2.79	0.44
1:AA:833:U:H2'	1:AA:834:C:H6	1.80	0.44
35:BA:205:G:O2'	35:BA:206:U:P	2.76	0.44
47:BO:52:VAL:C	47:BO:53:LYS:HG3	2.37	0.44
8:AH:34:GLU:O	8:AH:35:ILE:C	2.54	0.44
2:AB:144:ARG:O	2:AB:145:LEU:C	2.56	0.44
1:AA:1430:C:H2'	1:AA:1431:C:C6	2.53	0.44
46:BN:119:ARG:NH1	46:BN:119:ARG:HG3	2.33	0.44
8:CH:35:ILE:HG23	8:CH:111:ILE:HD13	2.00	0.44
50:DR:48:VAL:HG12	50:DR:52:ILE:HG12	1.99	0.44
1:CA:1065:U:O2'	1:CA:1066:C:P	2.76	0.44
2:AB:213:LEU:HD23	2:AB:213:LEU:O	2.18	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:DB:29:A:OP2	51:DS:32:LEU:HG	2.18	0.44
21:AU:24:ARG:HG2	21:AU:24:ARG:HH11	1.82	0.44
35:BA:777:A:H2'	35:BA:778:G:C8	2.52	0.44
35:BA:1445(A):C:H5'	35:BA:1446:C:OP2	2.17	0.44
1:AA:197:A:H4'	1:AA:198:G:H5'	1.98	0.44
29:B4:35:VAL:HG12	29:B4:36:CYS:N	2.32	0.44
25:B0:34:GLY:O	25:B0:35:ASN:C	2.55	0.44
47:DO:37:ASP:O	47:DO:62:VAL:HG23	2.17	0.44
7:AG:21:VAL:HG23	7:AG:22:LEU:N	2.32	0.44
1:AA:421:U:H2'	1:AA:421:U:O2	2.17	0.44
56:BX:59:VAL:O	56:BX:59:VAL:HG12	2.16	0.44
29:B4:5:ILE:HD13	29:B4:6:HIS:CD2	2.53	0.44
4:CD:30:LYS:HB3	4:CD:35:ARG:HD2	1.99	0.44
35:DA:2577:A:C5'	35:DA:2578:G:C5'	2.96	0.44
39:DE:119:ARG:NH1	39:DE:156:MET:O	2.51	0.44
24:AY:227:ILE:O	24:AY:227:ILE:CG2	2.66	0.44
53:DU:112:ARG:HG2	53:DU:112:ARG:HH11	1.82	0.44
53:DU:55:ARG:HA	53:DU:58:ARG:CB	2.47	0.44
35:BA:997:G:OP1	53:BU:93:LYS:HD3	2.17	0.44
58:DZ:69:THR:HG22	58:DZ:90:VAL:CA	2.20	0.44
35:BA:301:G:HO2'	35:BA:302:C:H6	1.63	0.44
31:D6:12:GLU:HA	31:D6:23:THR:HA	1.99	0.44
41:DG:153:ARG:HB3	41:DG:153:ARG:HH11	1.83	0.44
10:CJ:27:ALA:HA	10:CJ:30:SER:OG	2.18	0.44
3:CC:43:LEU:O	3:CC:45:LYS:N	2.50	0.44
24:CY:230:LYS:NZ	24:CY:237:PRO:CA	2.76	0.44
27:D2:13:ALA:HA	27:D2:16:LEU:HD12	1.98	0.44
46:BN:43:THR:HG22	46:BN:45:ASN:ND2	2.33	0.44
26:B1:56:GLN:CA	26:B1:56:GLN:HE21	2.15	0.44
41:DG:37:VAL:CG2	41:DG:159:VAL:HA	2.48	0.44
52:DT:23:ARG:C	52:DT:25:GLY:H	2.13	0.44
24:AY:524:GLU:O	24:AY:565:VAL:N	2.32	0.44
54:BV:28:GLU:CB	54:BV:31:ALA:HB2	2.36	0.44
5:CE:9:LYS:NZ	5:CE:111:GLU:OE1	2.51	0.44
57:DY:10:GLY:C	57:DY:27:VAL:HG22	2.37	0.44
35:DA:2174:C:O2'	35:DA:2175:C:H5'	2.17	0.44
49:BQ:52:VAL:C	49:BQ:54:MET:N	2.71	0.44
5:AE:33:VAL:HG12	5:AE:112:LEU:HD12	2.00	0.44
36:BB:118:G:C2	36:BB:119:G:N7	2.86	0.44
1:AA:357:G:O2'	1:AA:358:U:H5'	2.17	0.44
35:DA:2778:A:C5'	35:DA:2779:U:OP1	2.59	0.44
1:AA:373:A:H2'	1:AA:374:A:H8	1.81	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
16:AP:15:PRO:O	16:AP:16:HIS:ND1	2.51	0.44
58:BZ:41:LEU:HD23	58:BZ:41:LEU:HA	1.73	0.44
58:DZ:144:LEU:HD22	58:DZ:144:LEU:N	2.33	0.44
24:AY:196:ILE:CG1	24:AY:197:ARG:N	2.78	0.44
39:DE:93:VAL:HG12	39:DE:175:VAL:CG2	2.47	0.44
1:CA:1371:G:C6	1:CA:1372:U:C4	3.06	0.44
35:BA:1185:C:C5'	35:BA:1186:G:P	3.06	0.44
50:DR:12:ARG:HD3	50:DR:16:HIS:CD2	2.53	0.44
42:BH:103:LEU:HB2	42:BH:123:PHE:CD2	2.53	0.44
18:CR:71:LYS:O	18:CR:74:ARG:HB2	2.16	0.44
36:DB:67:G:O2'	36:DB:68:C:H5'	2.18	0.44
35:BA:2543:G:H2'	35:BA:2544:G:C8	2.52	0.44
57:DY:31:LEU:CD2	57:DY:31:LEU:N	2.78	0.44
11:CK:120:ARG:HA	11:CK:121:PRO:HD3	1.84	0.44
11:CK:87:THR:O	11:CK:88:GLY:C	2.54	0.44
24:AY:539:ILE:CD1	24:AY:567:LEU:HD21	2.48	0.44
39:DE:25:VAL:HG22	39:DE:183:LEU:HG	2.00	0.44
21:CU:2:GLY:C	21:CU:4:GLY:H	2.21	0.44
1:AA:321:A:C2	1:AA:333:G:C2	3.06	0.44
1:AA:346:G:P	52:BT:41:ARG:NH2	2.90	0.44
1:AA:659:U:O2'	1:AA:660:G:H5'	2.18	0.44
1:AA:189:G:H2'	1:AA:189(A):C:H6	1.81	0.44
49:BQ:75:THR:HG22	49:BQ:76:LYS:H	1.82	0.44
1:CA:923:A:O4'	1:CA:1398:A:C2	2.70	0.44
50:BR:18:LEU:HD21	50:BR:22:ARG:CZ	2.48	0.44
1:CA:781:A:C3'	1:CA:782:A:H5'	2.48	0.44
1:CA:957:U:O2	1:CA:959:A:H8	2.01	0.44
22:CW:68:C:H2'	22:CW:69:C:C5	2.52	0.44
35:BA:214:G:H1'	35:BA:216:A:HO2'	1.81	0.44
35:DA:2840:C:H2'	35:DA:2841:C:C6	2.53	0.44
8:AH:85:ARG:HH12	8:AH:134:ILE:HG23	1.82	0.44
8:CH:74:PRO:O	8:CH:75:ARG:C	2.56	0.44
38:DD:81:ALA:HA	38:DD:113:VAL:HG22	1.99	0.44
35:DA:41:C:N4	35:DA:437:G:H1	2.15	0.44
25:D0:78:TYR:H	25:D0:78:TYR:HD1	1.65	0.44
38:BD:81:ALA:HA	38:BD:113:VAL:HG22	1.99	0.44
8:AH:35:ILE:HG23	8:AH:111:ILE:HD13	2.00	0.44
3:AC:111:LEU:CD2	3:AC:141:VAL:HG13	2.48	0.44
24:AY:297:GLU:HG3	24:AY:297:GLU:O	2.16	0.44
52:BT:113:LYS:C	52:BT:114:LEU:HD23	2.38	0.44
1:CA:930:C:O2'	1:CA:931:C:H5'	2.18	0.44
49:DQ:17:LEU:O	49:DQ:18:LYS:HD2	2.17	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1080:A:H5''	5:CE:16:THR:HG21	1.99	0.44
50:BR:92:GLY:HA2	50:BR:94:TYR:CE1	2.53	0.44
35:BA:1445(A):C:O2	35:BA:1445(A):C:H2'	2.16	0.44
35:DA:2352:A:H2'	35:DA:2353:G:H5'	2.00	0.44
35:DA:1011:G:O2'	35:DA:1013:C:H5''	2.17	0.44
35:DA:271(M):G:H2'	35:DA:271(N):U:H5''	1.99	0.44
1:AA:1327:C:OP2	21:AU:12:LYS:NZ	2.49	0.44
17:AQ:43:LEU:HD23	17:AQ:43:LEU:HA	1.74	0.44
35:BA:527:C:O2	35:BA:527:C:O4'	2.35	0.44
1:CA:421:U:O2	1:CA:421:U:H2'	2.17	0.44
15:AO:18:PHE:CD1	15:AO:18:PHE:O	2.71	0.44
52:BT:49:VAL:O	52:BT:49:VAL:HG22	2.17	0.44
13:AM:46:LYS:HD3	13:AM:46:LYS:O	2.17	0.44
35:BA:63:U:H4'	35:BA:63:U:OP1	2.17	0.44
44:DK:104:VAL:HG23	44:DK:127:ILE:CG2	2.48	0.44
1:CA:1418:A:H3'	1:CA:1419:G:O4'	2.17	0.44
35:DA:2531:A:H4'	42:DH:157:TYR:CD2	2.53	0.44
42:BH:169:VAL:CG2	42:BH:170:ARG:N	2.78	0.44
40:DF:116:ASP:OD2	48:DP:5:ASP:HB2	2.18	0.44
40:DF:119:ARG:NH1	40:DF:119:ARG:HG2	2.32	0.44
29:B4:1:MET:SD	41:BG:98:ARG:HG3	2.58	0.44
1:CA:541:G:O2'	1:CA:542:G:H5'	2.17	0.44
40:BF:198:ALA:C	40:BF:201:VAL:HG12	2.38	0.44
24:AY:162:VAL:HG23	24:AY:255:ILE:HG13	1.99	0.44
58:DZ:120:ILE:O	58:DZ:120:ILE:HG22	2.17	0.44
58:DZ:99:TYR:HE2	58:DZ:125:LEU:HB2	1.82	0.44
34:D9:4:ARG:NH1	35:DA:2477:C:N4	2.66	0.44
53:BU:112:ARG:HG2	53:BU:112:ARG:HH11	1.83	0.44
58:DZ:48:PHE:CD1	58:DZ:52:SER:HA	2.53	0.44
58:DZ:29:TYR:O	58:DZ:90:VAL:HG23	2.18	0.44
35:DA:294:A:H2'	35:DA:295:G:H5'	1.99	0.44
35:DA:300:A:P	57:DY:97:ARG:HE	2.40	0.44
47:DO:61:VAL:O	47:DO:84:ALA:HA	2.17	0.44
48:DP:11:GLY:O	48:DP:12:ALA:O	2.36	0.44
38:DD:48:ARG:NH1	38:DD:48:ARG:HG3	2.33	0.44
3:AC:60:ALA:N	3:AC:63:ASN:OD1	2.51	0.44
35:DA:2032:G:OP2	35:DA:2454:G:O2'	2.30	0.44
48:DP:83:VAL:CG1	48:DP:114:ILE:HA	2.47	0.44
24:CY:644:ARG:O	24:CY:645:ALA:HB2	2.17	0.44
46:BN:60:ILE:HG22	46:BN:61:ARG:N	2.33	0.44
51:DS:89:ARG:CG	51:DS:92:TYR:CB	2.95	0.44
35:DA:2849:U:O4	52:DT:23:ARG:NH2	2.51	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:BT:116:ALA:HB1	52:BT:121:ILE:HD11	1.99	0.44
54:DV:31:ALA:C	54:DV:61:VAL:HG12	2.37	0.44
24:AY:369:LEU:N	24:AY:369:LEU:HD12	2.33	0.44
7:AG:102:ARG:HG2	7:AG:106:GLN:HE21	1.81	0.44
37:DC:148:PHE:C	37:DC:150:ILE:H	2.21	0.44
24:CY:489:LYS:HA	24:CY:490:PRO:HD3	1.71	0.44
35:DA:1331:A:O2'	35:DA:1332:G:H8	2.01	0.44
52:DT:1:MET:H1	52:DT:7:ILE:HD11	1.81	0.44
24:AY:486:THR:O	24:AY:599:PRO:HA	2.17	0.44
58:BZ:115:GLY:HA2	58:BZ:177:PRO:HD3	1.99	0.44
18:AR:58:LEU:CD1	18:AR:58:LEU:N	2.80	0.44
52:BT:50:ILE:N	52:BT:50:ILE:CD1	2.80	0.44
38:DD:146:GLU:HG2	38:DD:152:GLY:O	2.18	0.44
1:CA:1343:G:H1'	9:CI:121:ARG:HH12	1.83	0.44
58:BZ:141:VAL:HG13	58:BZ:144:LEU:HD23	1.99	0.44
35:BA:2689:U:H4'	35:BA:2690:C:OP2	2.17	0.44
9:CI:82:ALA:HA	9:CI:85:LEU:CD1	2.48	0.44
40:BF:132:VAL:O	40:BF:133:ASN:HB2	2.18	0.44
35:BA:863:A:O2'	36:BB:101:G:H1'	2.18	0.44
35:DA:2122:U:H4'	37:DC:167:ASP:HB3	2.00	0.44
1:CA:1118:C:OP1	9:CI:104:ARG:NH1	2.51	0.44
1:AA:1308:U:C5	13:AM:99:ARG:NH1	2.85	0.44
12:CL:6:THR:H	12:CL:9:GLN:HE21	1.65	0.44
20:CT:104:LEU:HD23	20:CT:105:SER:O	2.17	0.44
49:DQ:24:GLY:CA	49:DQ:67:ARG:HH12	2.30	0.44
50:BR:21:TYR:OH	50:BR:43:GLU:HG2	2.16	0.44
1:AA:1296:C:H3'	1:AA:1297:C:H6	1.83	0.44
1:AA:1298:C:H5''	7:AG:114:ARG:NH2	2.31	0.44
35:BA:2656:U:C4	35:BA:2665:A:H2	2.35	0.44
18:CR:79:LEU:HD22	18:CR:80:PRO:HD2	2.00	0.44
24:AY:519:ARG:CZ	24:AY:678:GLU:H	2.30	0.44
35:BA:1722:A:C2	35:BA:1740:G:C8	3.06	0.44
1:CA:271:C:H2'	1:CA:272:C:H6	1.82	0.44
35:DA:1381:G:N2	35:DA:1382:G:H1'	2.32	0.44
1:CA:356:A:H1'	1:CA:368:U:O2'	2.18	0.44
24:CY:327:PHE:HA	24:CY:376:ALA:HA	2.00	0.44
42:BH:94:TYR:CD2	42:BH:107:VAL:HG12	2.53	0.44
1:AA:1375:A:OP1	7:AG:12:LEU:HD21	2.18	0.44
37:DC:78:ILE:HG21	37:DC:124:VAL:CG2	2.47	0.44
35:DA:1343:G:N3	35:DA:1384:A:H2	2.16	0.44
12:AL:110:VAL:CG2	12:AL:120:TYR:HB3	2.48	0.44
49:BQ:137:TYR:CD1	49:BQ:137:TYR:N	2.85	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:AM:54:VAL:C	13:AM:56:LEU:N	2.71	0.44
51:BS:56:LEU:O	51:BS:58:LEU:N	2.51	0.44
35:DA:783:A:H2'	35:DA:784:A:O5'	2.18	0.44
1:CA:747:C:H2'	1:CA:748:C:C1'	2.48	0.44
53:DU:15:LYS:HA	53:DU:18:LEU:HD12	1.99	0.44
35:DA:483:A:C2	35:DA:484:C:H1'	2.52	0.44
35:DA:484:C:H2'	35:DA:485:C:C6	2.52	0.44
5:AE:6:PHE:CD1	5:AE:6:PHE:N	2.85	0.44
1:AA:40:C:H2'	1:AA:41:G:H8	1.82	0.44
53:DU:102:GLU:HG3	54:DV:2:PHE:CE1	2.53	0.44
24:CY:223:PHE:HB3	24:CY:248:LYS:HD3	1.98	0.44
1:AA:220:G:N2	1:AA:221:C:H1'	2.33	0.44
35:BA:1472:A:H2'	35:BA:1473:G:H8	1.81	0.44
35:DA:2681:C:H5	35:DA:2725:A:N6	2.14	0.44
13:AM:35:GLU:CG	13:AM:36:LYS:N	2.80	0.44
1:CA:10:A:H2'	1:CA:11:G:C8	2.52	0.44
18:CR:66:LEU:CG	18:CR:70:ILE:HD11	2.47	0.44
2:AB:137:ARG:HG2	2:AB:137:ARG:NH1	2.33	0.44
58:BZ:9:TYR:CE1	58:BZ:35:ARG:NH1	2.79	0.44
8:AH:30:ARG:HB3	8:AH:30:ARG:NH1	2.32	0.44
1:CA:909:A:H2'	1:CA:910:C:O4'	2.18	0.44
1:CA:1388:C:H2'	1:CA:1389:C:C6	2.52	0.44
1:AA:154:C:H2'	1:AA:155:C:C6	2.53	0.44
38:DD:165:ILE:HD13	38:DD:175:LEU:HD21	1.98	0.44
47:DO:119:PRO:O	47:DO:120:GLU:HB2	2.17	0.44
35:BA:1632:A:C5	35:BA:1633:G:C6	3.05	0.44
37:BC:16:ASP:O	37:BC:18:ASN:N	2.50	0.44
35:BA:1551:C:H2'	35:BA:1552:G:O4'	2.18	0.44
35:BA:930:U:H4'	35:BA:931:G:O5'	2.18	0.44
35:DA:458:G:N2	35:DA:469:G:H2'	2.33	0.44
42:BH:141:VAL:O	42:BH:142:GLY:C	2.56	0.44
1:AA:994:A:H2'	1:AA:994:A:N3	2.32	0.44
54:DV:89:GLN:OE1	54:DV:89:GLN:HA	2.18	0.44
35:BA:1034:G:H8	35:BA:1034:G:OP1	1.99	0.44
35:BA:2088:G:C6	35:BA:2089:U:C4	3.05	0.44
7:AG:57:GLU:O	7:AG:58:PRO:C	2.56	0.44
41:BG:46:ALA:HA	41:BG:51:ARG:HB3	1.99	0.44
41:BG:58:GLN:C	41:BG:60:LEU:H	2.20	0.44
24:CY:673:PHE:CE2	24:CY:674:ASP:O	2.71	0.44
24:CY:602:LEU:HB3	24:CY:676:TYR:HB3	1.99	0.44
35:DA:1657:C:H2'	35:DA:1658:C:C6	2.53	0.44
39:DE:119:ARG:HD2	39:DE:120:TRP:CE2	2.53	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:CJ:37:PRO:CA	10:CJ:72:VAL:HG22	2.39	0.44
24:AY:204:GLU:O	24:AY:205:TYR:C	2.56	0.44
24:AY:230:LYS:NZ	24:AY:237:PRO:HA	2.33	0.44
24:AY:25:LYS:HZ1	24:AY:86:GLY:HA2	1.83	0.44
9:CI:4:TYR:CE1	9:CI:88:TYR:CD2	3.05	0.44
54:BV:40:LEU:N	54:BV:40:LEU:HD22	2.32	0.44
54:BV:47:VAL:O	54:BV:47:VAL:HG23	2.18	0.44
35:BA:1747(A):G:C2'	35:BA:1748:G:C5'	2.75	0.44
24:AY:422:GLU:C	24:AY:424:LEU:N	2.68	0.44
33:B8:56:GLU:C	33:B8:58:ILE:N	2.70	0.44
33:B8:59:LYS:HE3	33:B8:59:LYS:HB2	1.72	0.44
31:B6:54:ILE:HD11	35:BA:2420:C:H5'	1.99	0.44
19:CS:35:SER:C	19:CS:37:ARG:N	2.71	0.44
35:DA:84:A:H5''	57:DY:9:LYS:HZ3	1.79	0.44
57:DY:77:PRO:O	57:DY:99:CYS:SG	2.71	0.44
35:DA:272(I):U:H5	35:DA:363(A):A:C2	2.35	0.44
35:DA:2334:G:N3	51:DS:18:ILE:HD13	2.33	0.44
10:CJ:81:THR:C	10:CJ:83:GLU:N	2.69	0.44
58:BZ:119:GLU:C	58:BZ:121:HIS:N	2.68	0.44
1:AA:1237:C:H5''	1:AA:1238:A:C8	2.53	0.44
37:DC:138:LEU:O	37:DC:138:LEU:HD13	2.18	0.44
52:DT:27:THR:C	52:DT:28:VAL:HG23	2.37	0.44
31:D6:24:GLU:HG3	31:D6:37:ARG:HH21	1.83	0.44
46:DN:15:LEU:O	46:DN:136:GLU:HA	2.18	0.44
49:DQ:54:MET:CG	49:DQ:64:ILE:HD13	2.40	0.44
58:DZ:180:VAL:HG12	58:DZ:181:GLU:N	2.33	0.44
58:DZ:179:ASP:OD1	58:DZ:181:GLU:N	2.51	0.44
35:BA:1799:G:N2	35:BA:1818:U:H2'	2.33	0.44
35:DA:2523:G:C3'	35:DA:2524:G:H5''	2.46	0.44
35:DA:1408:C:H42	35:DA:1594:G:H1	1.66	0.44
26:B1:82:LEU:C	26:B1:83:GLU:CG	2.86	0.44
35:DA:2307:G:H3'	35:DA:2308:G:C5'	2.47	0.44
1:AA:80:G:N1	1:AA:90:U:H5'	2.32	0.44
2:CB:209:ARG:HH11	2:CB:239:VAL:HG11	1.81	0.44
44:BK:106:GLU:HG3	44:BK:107:ILE:N	2.32	0.44
41:DG:133:LEU:C	41:DG:133:LEU:HD12	2.38	0.44
35:BA:2754:U:C2'	35:BA:2755:C:H5'	2.48	0.44
35:BA:2747:G:O2'	42:BH:67:LEU:HD12	2.17	0.44
35:DA:1495:A:N3	35:DA:1496:A:C2	2.85	0.44
39:DE:36:ARG:HH21	39:DE:88:GLY:HA2	1.79	0.44
13:AM:49:THR:C	13:AM:51:ALA:N	2.70	0.44
35:BA:143:G:H2'	35:BA:143(A):C:C6	2.53	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2884:U:H2'	35:BA:2885:C:H5'	2.00	0.44
54:DV:19:LYS:HZ3	54:DV:20:LEU:H	1.64	0.44
1:AA:1227:A:C2	13:AM:117:VAL:HG11	2.53	0.44
54:BV:19:LYS:HZ1	54:BV:20:LEU:H	1.66	0.44
9:CI:114:TYR:HD1	10:CJ:60:ARG:HG3	1.83	0.44
52:DT:29:ARG:CD	52:DT:86:ILE:HG22	2.48	0.44
1:CA:450:G:H1	1:CA:483:C:H42	1.65	0.44
39:DE:177:PRO:O	39:DE:178:GLU:C	2.56	0.44
26:B1:58:ILE:HD11	26:B1:91:LYS:HA	1.98	0.44
36:BB:89:G:N1	36:BB:90:A:C2	2.86	0.44
42:BH:83:TYR:HB3	42:BH:134:SER:CA	2.39	0.44
57:BY:46:LYS:H	57:BY:62:GLU:CB	2.20	0.44
10:AJ:63:PHE:N	10:AJ:63:PHE:CD2	2.82	0.44
35:DA:2088:G:C6	35:DA:2089:U:C4	3.06	0.44
13:AM:23:TYR:HE1	13:AM:70:LEU:HD22	1.83	0.44
38:DD:117:VAL:CG2	38:DD:118:VAL:N	2.81	0.44
1:CA:1122:U:O2'	1:CA:1123:A:H5'	2.17	0.44
40:DF:20:LEU:HD23	40:DF:21:ALA:H	1.83	0.44
1:AA:559:A:OP2	5:AE:126:ARG:NH2	2.49	0.44
35:DA:2148:G:O2'	35:DA:2149:G:H5'	2.18	0.44
35:DA:919:G:H5'	36:DB:81:G:H1'	2.00	0.44
35:DA:892:G:O2'	35:DA:893:C:H5'	2.17	0.44
24:CY:117:GLN:OE1	24:CY:120:THR:OG1	2.36	0.44
24:CY:125:ALA:C	24:CY:127:LYS:H	2.22	0.44
35:BA:1963:U:C2'	35:BA:1963:U:O2	2.59	0.44
34:B9:1:MET:SD	35:BA:2478:A:OP2	2.76	0.44
34:B9:29:ASN:N	34:B9:29:ASN:HD22	2.15	0.44
3:CC:14:ILE:O	3:CC:15:THR:CB	2.66	0.44
1:CA:1351:U:H5'	7:CG:33:ASP:OD1	2.18	0.44
1:AA:103:C:H3'	1:AA:104:G:C8	2.43	0.44
9:CI:42:ARG:O	9:CI:44:VAL:N	2.50	0.44
35:BA:2140:C:H1'	35:BA:2152:G:N2	2.33	0.44
35:BA:2150:U:H2'	35:BA:2151:G:H8	1.80	0.44
49:BQ:35:VAL:HG23	49:BQ:101:ARG:C	2.37	0.44
35:BA:1582:C:O2'	35:BA:1583:A:H5'	2.17	0.44
1:AA:1095:U:OP1	1:AA:1108:G:N2	2.50	0.44
42:BH:106:THR:HG22	42:BH:112:PRO:HB3	2.00	0.44
11:CK:120:ARG:NH1	11:CK:126:ARG:NE	2.66	0.44
7:CG:120:ILE:O	7:CG:124:LEU:HD12	2.18	0.44
1:CA:472:A:H2'	1:CA:473:G:O4'	2.17	0.44
35:DA:2688:U:O2	35:DA:2688:U:H3'	2.17	0.44
35:DA:775:G:C4	35:DA:794:G:C8	3.05	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2328:A:H8	35:DA:2328:A:O5'	2.01	0.44
9:AI:55:ALA:HA	9:AI:58:HIS:HD2	1.82	0.44
35:BA:483:A:C2	35:BA:484:C:H1'	2.53	0.44
50:DR:24:GLN:NE2	50:DR:36:THR:HG21	2.32	0.44
48:DP:89:ALA:O	48:DP:121:LYS:HD2	2.17	0.44
24:AY:388:THR:HG21	24:AY:399:LEU:HD13	2.00	0.44
35:DA:1213:A:N3	35:DA:1238:G:H1'	2.32	0.44
35:BA:265:A:N6	35:BA:428:A:H1'	2.33	0.44
42:BH:136:ILE:HG22	42:BH:136:ILE:O	2.18	0.44
42:BH:35:VAL:CG2	42:BH:75:ALA:HB2	2.48	0.44
35:BA:245:G:H5'	48:BP:73:GLY:HA2	2.00	0.44
41:DG:6:ALA:O	41:DG:10:LYS:HB2	2.17	0.44
35:BA:1509(B):A:H2'	35:BA:1510:G:C8	2.53	0.44
25:D0:3:HIS:NE2	35:DA:2602:A:H2	2.16	0.44
35:DA:1227:G:O2'	35:DA:1228:G:H5'	2.18	0.44
7:CG:65:ALA:HA	7:CG:128:ALA:CA	2.47	0.44
25:B0:3:HIS:NE2	35:BA:2602:A:H2	2.16	0.44
35:DA:619:G:H3'	35:DA:620:G:N2	2.32	0.44
52:DT:26:ASP:OD2	52:DT:26:ASP:O	2.36	0.44
17:CQ:99:SER:O	17:CQ:100:LYS:HG3	2.18	0.44
24:CY:484:ARG:HA	24:CY:484:ARG:HD3	1.79	0.44
35:DA:338:G:H2'	35:DA:339:U:H6	1.82	0.44
24:AY:580:MET:SD	35:BA:1913:A:C6	3.11	0.44
35:BA:445:C:O2	35:BA:449:A:H2	2.00	0.44
7:AG:108:ALA:O	7:AG:111:ARG:HB2	2.18	0.44
38:BD:139:GLY:H	38:BD:165:ILE:HB	1.82	0.44
35:BA:2696:U:H2'	35:BA:2697:G:C8	2.53	0.44
1:AA:1047:G:H5''	14:AN:4:LYS:HD3	2.00	0.44
35:DA:1680:U:O2'	35:DA:1681:G:H5'	2.18	0.44
40:DF:109:GLY:HA2	40:DF:112:MET:HB2	1.99	0.44
7:AG:50:ILE:O	7:AG:54:THR:HG23	2.18	0.44
58:BZ:185:GLU:O	58:BZ:187:ALA:N	2.50	0.44
47:BO:37:ASP:O	47:BO:62:VAL:HG23	2.18	0.44
35:DA:972:G:OP2	35:DA:974:G:H5''	2.18	0.44
1:CA:342:C:C5	1:CA:343:U:C5	3.06	0.44
7:CG:129:GLU:OE2	7:CG:131:LYS:HE2	2.17	0.44
1:AA:785:G:C2'	1:AA:786:G:H5'	2.48	0.44
1:CA:106:C:C2'	1:CA:107:G:H5'	2.48	0.44
35:DA:602:G:N1	35:DA:654(U):A:N7	2.65	0.44
5:CE:26:PHE:N	5:CE:26:PHE:CD1	2.85	0.44
44:BK:88:ALA:O	44:BK:90:LYS:N	2.42	0.44
58:DZ:11:GLU:H	58:DZ:11:GLU:CD	2.21	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:DB:4:C:H2'	36:DB:5:C:C6	2.53	0.44
36:DB:58:A:H2'	36:DB:59:A:O4'	2.18	0.44
48:DP:7:ARG:CB	48:DP:8:PRO:CD	2.95	0.44
41:BG:107:LEU:HD23	41:BG:111:LEU:HD12	1.99	0.44
10:AJ:5:ARG:HG3	10:AJ:71:LEU:HD11	1.99	0.44
1:CA:408:A:OP1	4:CD:113:SER:OG	2.25	0.44
24:CY:519:ARG:NH1	24:CY:678:GLU:HB2	2.33	0.44
24:CY:461:ILE:HD11	61:CY:702:FUA:H21	2.00	0.44
24:AY:20:HIS:CD2	24:AY:117:GLN:HB3	2.53	0.44
58:DZ:171:ILE:CG1	58:DZ:172:ALA:N	2.81	0.44
54:BV:46:VAL:HG22	54:BV:47:VAL:N	2.28	0.44
54:BV:39:LEU:HD13	54:BV:51:VAL:HA	1.99	0.44
35:BA:1710:C:H2'	35:BA:1711:C:C6	2.53	0.44
35:BA:2131:G:C8	35:BA:2133:G:C2	3.06	0.44
1:AA:979:C:C2'	1:AA:980:C:H5''	2.44	0.44
35:BA:665:C:O2'	35:BA:666:G:H5'	2.16	0.44
1:CA:1316:G:O3'	14:CN:18:VAL:CG1	2.66	0.44
57:DY:9:LYS:O	57:DY:28:LYS:HE2	2.17	0.44
29:D4:7:PRO:O	29:D4:8:LYS:HB3	2.18	0.44
41:DG:86:MET:HG2	41:DG:86:MET:O	2.18	0.44
1:CA:1037:C:H2'	1:CA:1038:C:N1	2.32	0.44
3:CC:87:LEU:C	3:CC:89:GLU:N	2.70	0.44
24:CY:136:ALA:CB	24:CY:260:LEU:HB3	2.28	0.44
37:DC:76:LEU:HB3	37:DC:114:VAL:HA	2.00	0.44
8:CH:44:PHE:HE2	8:CH:109:ILE:HG21	1.82	0.44
49:BQ:78:PRO:HB2	49:BQ:81:VAL:HG11	2.00	0.44
2:CB:114:ARG:O	2:CB:117:GLU:HB2	2.17	0.44
41:BG:135:LEU:HD12	41:BG:135:LEU:N	2.31	0.44
48:DP:144:GLU:N	48:DP:145:PRO:HD3	2.33	0.44
48:BP:98:GLU:HA	48:BP:101:VAL:HG22	1.98	0.44
35:BA:2309:A:H2'	35:BA:2310:A:H5''	1.99	0.44
39:DE:68:ALA:C	39:DE:70:ALA:H	2.21	0.44
35:DA:1598:C:H2'	35:DA:1599:C:C6	2.53	0.44
39:BE:50:GLY:HA3	39:BE:74:PRO:HG3	2.00	0.44
1:CA:1053:G:O6	1:CA:1199:U:H2'	2.17	0.44
52:DT:92:GLY:C	52:DT:94:ALA:N	2.70	0.44
50:BR:97:VAL:HG13	50:BR:114:VAL:CG2	2.48	0.44
3:AC:43:LEU:C	3:AC:45:LYS:H	2.21	0.44
22:CW:14:A:H3'	22:CW:15:G:C5'	2.47	0.44
1:AA:109:A:C6	1:AA:326:G:C6	3.05	0.44
1:AA:953:G:N7	13:AM:104:ARG:NH2	2.65	0.44
2:AB:51:LEU:O	2:AB:55:PHE:HD2	2.00	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:CB:223:ILE:C	2:CB:225:ALA:N	2.70	0.44
58:DZ:157:LEU:HD11	58:DZ:163:LEU:HD22	1.99	0.44
37:DC:88:GLU:N	37:DC:95:VAL:HG21	2.32	0.44
52:BT:13:ARG:NE	52:BT:13:ARG:HA	2.31	0.44
2:AB:21:ARG:O	2:AB:22:LYS:HB2	2.18	0.44
35:DA:2876:G:OP1	52:DT:2:ASN:O	2.36	0.44
52:DT:57:PHE:CG	52:DT:58:ASN:N	2.85	0.44
42:BH:83:TYR:HA	42:BH:135:GLY:O	2.18	0.44
46:BN:62:VAL:HG22	46:BN:66:LYS:CG	2.41	0.44
1:CA:769:G:O2'	1:CA:770:C:H5'	2.18	0.44
27:D2:57:ILE:H	27:D2:57:ILE:HG12	1.47	0.44
35:DA:795:C:H2'	35:DA:796:C:C6	2.52	0.44
25:B0:49:LYS:HG3	25:B0:80:HIS:ND1	2.32	0.44
5:AE:64:ARG:NH1	5:AE:64:ARG:CG	2.73	0.44
35:DA:2628:C:O2'	35:DA:2781:A:H2'	2.17	0.44
32:D7:48:LYS:NZ	35:DA:125:G:N2	2.66	0.44
1:AA:663:A:C2'	1:AA:664:G:H5'	2.48	0.44
4:CD:92:VAL:O	4:CD:95:GLY:N	2.51	0.44
39:DE:2:LYS:CD	39:DE:95:ILE:HG22	2.47	0.44
35:BA:2514:U:H2'	35:BA:2515:C:C6	2.38	0.44
40:DF:20:LEU:HD13	40:DF:203:GLN:OE1	2.18	0.44
38:BD:145:VAL:HG22	38:BD:191:ALA:CB	2.39	0.44
11:CK:58:PRO:HA	11:CK:90:GLY:CA	2.44	0.44
1:CA:625:G:H4'	16:CP:16:HIS:HD2	1.81	0.44
35:DA:2147:G:H2'	35:DA:2148:G:C5'	2.48	0.44
37:DC:101:ILE:H	37:DC:101:ILE:CD1	2.28	0.44
35:BA:285:C:H2'	35:BA:286:C:C5'	2.48	0.44
18:AR:69:THR:O	18:AR:72:ARG:HB2	2.18	0.44
37:DC:23:ILE:CB	37:DC:229:SER:OXT	2.62	0.44
1:AA:1371:G:O3'	9:AI:69:GLY:HA3	2.17	0.44
35:BA:64:A:C5	56:BX:66:LEU:HD13	2.53	0.44
38:BD:176:ARG:CG	38:BD:176:ARG:NH1	2.77	0.44
28:B3:46:ASN:O	28:B3:47:VAL:C	2.54	0.44
1:CA:1132:C:N4	1:CA:1133:G:C6	2.86	0.44
44:DK:75:SER:C	44:DK:78:ILE:HG22	2.38	0.44
1:AA:1165:C:C4	1:AA:1166:G:N7	2.85	0.44
35:BA:465:G:H2'	35:BA:466:A:C8	2.53	0.44
54:BV:35:LEU:HB3	54:BV:37:VAL:HG23	1.99	0.44
3:CC:110:ASN:HD21	3:CC:140:ARG:HB3	1.83	0.44
42:BH:38:SER:C	42:BH:40:GLU:H	2.21	0.44
35:DA:1719:G:O2'	35:DA:1720:U:H5'	2.17	0.44
49:BQ:27:VAL:O	49:BQ:28:ALA:CB	2.66	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
14:CN:12:ARG:HB2	14:CN:12:ARG:NH1	2.33	0.44
42:DH:76:VAL:C	42:DH:78:GLY:H	2.21	0.44
9:AI:43:ALA:O	9:AI:45:ALA:N	2.51	0.44
35:DA:2653:U:O2'	42:DH:110:SER:CB	2.66	0.44
35:DA:21:A:O2'	35:DA:22:C:H5'	2.18	0.44
38:BD:39:LYS:HZ1	38:BD:87:ASN:HB3	1.82	0.44
35:DA:2550:G:C6	35:DA:2551:C:N4	2.86	0.44
53:BU:82:GLY:C	53:BU:84:LYS:N	2.71	0.44
35:DA:55:G:H1	35:DA:115:C:H42	1.65	0.44
1:AA:98:G:C2'	1:AA:99:U:H5'	2.48	0.44
1:CA:432:A:N7	1:CA:433:C:C4	2.86	0.44
1:AA:403:C:H2'	1:AA:404:U:H6	1.83	0.44
35:BA:200:U:C2'	35:BA:201:C:H5'	2.48	0.44
1:AA:17:U:H1'	1:AA:1080:A:N3	2.32	0.44
5:CE:155:GLU:N	8:CH:46:LYS:HG2	2.33	0.44
8:CH:114:THR:C	8:CH:116:LYS:H	2.21	0.44
35:DA:526:A:N6	35:DA:2626:C:H4'	2.32	0.44
1:CA:637:G:O2'	1:CA:638:G:H5'	2.17	0.44
1:CA:791:G:N2	1:CA:1497:G:O3'	2.49	0.44
1:AA:1388:C:H2'	1:AA:1389:C:C6	2.52	0.44
35:DA:2193:G:H8	35:DA:2193:G:H5'	1.82	0.44
12:CL:50:SER:O	12:CL:51:ALA:HB2	2.18	0.44
39:DE:201:THR:C	39:DE:202:LYS:HD2	2.37	0.44
1:AA:316:G:C6	1:AA:338:A:C6	3.05	0.44
21:CU:8:THR:O	21:CU:9:ARG:C	2.55	0.44
35:BA:1488:G:H5'	35:BA:1489:U:OP2	2.17	0.44
42:BH:56:SER:HG	42:BH:61:HIS:CE1	2.31	0.44
35:DA:2341:G:H2'	35:DA:2342:C:C6	2.52	0.44
2:CB:229:VAL:HG12	2:CB:230:VAL:N	2.33	0.44
1:AA:644:G:C5	1:AA:645:C:C5	3.05	0.44
35:DA:2547:U:H2'	35:DA:2548:G:H8	1.82	0.44
35:BA:2767:C:H2'	35:BA:2768:C:C6	2.52	0.44
4:AD:144:ASP:O	4:AD:184:LYS:HA	2.16	0.44
11:AK:60:ALA:O	11:AK:61:ALA:C	2.57	0.44
35:BA:2880:C:N4	35:BA:2881:C:H41	2.15	0.44
35:BA:949:C:H2'	35:BA:950:G:H8	1.82	0.44
24:AY:686:LYS:HD3	24:AY:686:LYS:C	2.39	0.44
49:BQ:65:PHE:N	49:BQ:65:PHE:CD2	2.86	0.44
42:BH:130:ARG:NH1	42:BH:130:ARG:HB3	2.33	0.44
51:DS:48:LEU:N	51:DS:48:LEU:HD12	2.33	0.44
35:DA:2050:C:H1'	39:DE:156:MET:HE1	1.98	0.43
10:CJ:98:ILE:CG2	10:CJ:98:ILE:O	2.66	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:219:VAL:C	24:AY:221:ALA:N	2.72	0.43
58:DZ:151:HIS:HB2	58:DZ:168:GLU:O	2.18	0.43
54:DV:39:LEU:HD12	54:DV:47:VAL:HG11	2.00	0.43
35:BA:2131:G:H8	35:BA:2158:A:H62	1.64	0.43
35:BA:2282:G:O2'	35:BA:2283:C:OP2	2.29	0.43
35:BA:2419:U:O2'	35:BA:2420:C:H5'	2.17	0.43
57:DY:96:ILE:HG21	57:DY:99:CYS:HB3	2.00	0.43
38:BD:34:VAL:O	38:BD:36:PRO:CD	2.67	0.43
31:D6:28:ARG:HB2	31:D6:29:ASN:H	1.63	0.43
31:D6:7:ILE:O	31:D6:7:ILE:HG22	2.18	0.43
33:D8:32:LEU:O	33:D8:33:ASN:O	2.36	0.43
10:CJ:30:SER:HA	10:CJ:80:LYS:CE	2.48	0.43
19:CS:57:HIS:O	19:CS:59:PRO:HD3	2.17	0.43
5:AE:142:LEU:O	5:AE:143:ARG:CD	2.66	0.43
30:D5:2:ALA:CA	35:DA:2015:A:C1'	2.86	0.43
24:CY:210:ARG:O	24:CY:213:HIS:N	2.51	0.43
37:DC:140:ASN:H	37:DC:145:THR:HB	1.83	0.43
9:AI:60:ASP:O	9:AI:61:ALA:O	2.36	0.43
35:DA:947:G:N3	35:DA:984:A:H2	2.16	0.43
35:DA:959:A:N1	35:DA:960:A:C2	2.86	0.43
35:DA:27:G:H1'	35:DA:513:A:N6	2.33	0.43
51:DS:28:VAL:HG13	51:DS:36:TYR:O	2.18	0.43
35:DA:2439:A:C8	35:DA:2586:C:H4'	2.53	0.43
48:DP:81:GLN:HG2	48:DP:106:LEU:HA	2.00	0.43
42:DH:66:GLY:CA	42:DH:69:ARG:HB3	2.42	0.43
2:AB:142:LEU:HD23	2:AB:142:LEU:C	2.38	0.43
12:CL:70:ILE:HG23	12:CL:100:ILE:HD12	1.99	0.43
35:BA:2572:A:C8	39:BE:144:ARG:CB	3.01	0.43
1:CA:972:C:O2'	10:CJ:55:LYS:HB3	2.18	0.43
41:DG:121:ASN:OD1	41:DG:123:ASN:N	2.49	0.43
30:B5:55:ARG:HH22	50:BR:33:ARG:CG	2.29	0.43
1:CA:720:C:C3'	1:CA:721:G:H5''	2.37	0.43
13:AM:91:ARG:HD3	13:AM:97:PRO:O	2.18	0.43
2:AB:214:ILE:O	2:AB:218:ALA:HB2	2.17	0.43
52:BT:30:VAL:HG21	52:BT:83:ILE:CG1	2.48	0.43
36:DB:86:G:H2'	36:DB:87:G:H8	1.79	0.43
46:DN:67:LEU:O	46:DN:68:GLU:CB	2.61	0.43
25:D0:19:LYS:CD	25:D0:41:ARG:HH22	2.28	0.43
15:CO:74:ASP:C	15:CO:76:GLU:N	2.70	0.43
35:BA:1993:U:C5'	39:BE:128:SER:HB3	2.48	0.43
39:DE:14:ILE:HD11	39:DE:173:VAL:HG11	1.99	0.43
52:BT:32:TYR:HB3	52:BT:81:PRO:HB2	1.98	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:CC:129:ALA:C	3:CC:131:ARG:N	2.70	0.43
35:BA:1541:G:H5''	35:BA:1542:A:OP1	2.18	0.43
35:BA:458:G:N2	35:BA:469:G:H2'	2.32	0.43
10:CJ:61:GLU:HG3	14:CN:58:LYS:HE2	2.00	0.43
39:BE:96:PHE:HA	39:BE:100:GLU:OE1	2.19	0.43
1:AA:1115:C:H1'	14:AN:61:TRP:O	2.18	0.43
22:CV:35:A:C2'	22:CV:36:U:H5'	2.48	0.43
58:BZ:72:ARG:HD3	58:BZ:72:ARG:HA	1.78	0.43
36:DB:96:U:H2'	36:DB:97:G:H8	1.84	0.43
35:DA:2443:C:O2	35:DA:2443:C:C2'	2.65	0.43
11:AK:58:PRO:HA	11:AK:90:GLY:CA	2.45	0.43
35:DA:1185:C:C5'	35:DA:1186:G:P	3.06	0.43
9:AI:111:ARG:HG2	9:AI:112:LYS:N	2.33	0.43
8:AH:17:THR:CG2	8:AH:63:LEU:HD12	2.48	0.43
58:DZ:102:LEU:HD21	58:DZ:124:ILE:HD13	1.99	0.43
1:CA:1165:C:C4	1:CA:1166:G:N7	2.86	0.43
35:DA:856:C:H2'	35:DA:857:C:C6	2.53	0.43
40:DF:89:VAL:CG1	40:DF:90:PHE:H	2.26	0.43
14:AN:48:ALA:HB2	14:AN:53:LEU:HD12	1.99	0.43
7:CG:80:VAL:CG2	7:CG:81:GLY:N	2.80	0.43
35:BA:848:G:H5''	35:BA:928:G:N2	2.33	0.43
35:BA:15:G:H2'	35:BA:16:G:H8	1.83	0.43
15:AO:9:GLN:O	15:AO:11:VAL:N	2.51	0.43
55:DW:70:TYR:HB3	55:DW:110:LYS:NZ	2.33	0.43
27:B2:9:GLN:O	27:B2:13:ALA:N	2.45	0.43
37:BC:138:LEU:HD13	37:BC:138:LEU:O	2.17	0.43
1:CA:1202:G:O2'	1:CA:1203:C:H5'	2.17	0.43
14:CN:42:ILE:HA	14:CN:42:ILE:HD13	1.66	0.43
48:DP:71:VAL:CG1	48:DP:72:PRO:HD3	2.48	0.43
3:AC:130:VAL:O	3:AC:134:ILE:HG13	2.18	0.43
1:CA:539:A:OP2	12:CL:115:LYS:HE3	2.17	0.43
48:BP:71:VAL:CG1	48:BP:72:PRO:HD3	2.47	0.43
35:BA:268:C:O2	35:BA:268:C:H2'	2.17	0.43
35:DA:708:C:H42	35:DA:723:G:H1	1.66	0.43
4:AD:134:ASP:N	4:AD:134:ASP:OD2	2.49	0.43
38:DD:8:PRO:C	38:DD:10:THR:H	2.20	0.43
4:CD:173:TRP:CB	4:CD:187:ARG:NH1	2.81	0.43
1:CA:954:G:H2'	1:CA:955:U:H6	1.79	0.43
35:BA:1843:C:H2'	35:BA:1844:C:C6	2.53	0.43
37:BC:223:VAL:HG12	37:BC:225:ILE:HG23	2.00	0.43
57:DY:103:GLY:O	57:DY:105:ALA:N	2.51	0.43
24:AY:635:GLU:CD	24:AY:635:GLU:N	2.71	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2219:G:O5'	35:BA:2219:G:H8	2.01	0.43
35:BA:1810:A:H2'	35:BA:1811:G:O4'	2.17	0.43
1:CA:833:U:H2'	1:CA:834:C:H6	1.81	0.43
10:AJ:90:LEU:H	10:AJ:91:PRO:HD3	1.82	0.43
35:DA:2337:G:H2'	35:DA:2338:G:C8	2.53	0.43
7:AG:84:ASN:ND2	7:AG:84:ASN:N	2.65	0.43
25:D0:23:VAL:HA	25:D0:38:VAL:HG13	2.00	0.43
35:BA:153:C:H2'	35:BA:154:G:C8	2.53	0.43
14:AN:24:CYS:SG	14:AN:25:VAL:N	2.91	0.43
1:AA:829:G:O2'	1:AA:830:G:H5'	2.18	0.43
35:BA:1805:U:H2'	35:BA:1806:C:C6	2.52	0.43
24:CY:613:PRO:HG2	24:CY:666:ARG:HH21	1.82	0.43
35:DA:1488:G:H5'	35:DA:1489:U:OP2	2.18	0.43
40:BF:102:PRO:HB2	40:BF:105:VAL:HG23	1.99	0.43
35:BA:1801:G:H3'	35:BA:1802:A:H5'	2.00	0.43
35:BA:269:U:H2'	35:BA:270:A:H8	1.82	0.43
35:DA:1801:G:H3'	35:DA:1802:A:H5'	1.98	0.43
35:BA:2154:G:H2'	35:BA:2155:G:C8	2.53	0.43
47:DO:88:ASN:C	47:DO:90:GLN:H	2.22	0.43
45:DL:26:UNK:C	45:DL:28:UNK:H	2.31	0.43
11:CK:66:LEU:HD23	11:CK:66:LEU:HA	1.81	0.43
12:AL:91:LYS:HB2	12:AL:91:LYS:HE2	1.69	0.43
35:BA:37:C:H2'	35:BA:37:C:O2	2.17	0.43
17:CQ:43:LEU:HD23	17:CQ:43:LEU:HA	1.74	0.43
3:AC:182:ILE:HG12	3:AC:203:PHE:HD1	1.82	0.43
35:BA:152:G:H1	35:BA:174:C:H42	1.66	0.43
35:BA:706:A:H2'	35:BA:707:G:O4'	2.18	0.43
35:DA:1204:A:H2	35:DA:1241:A:N1	2.16	0.43
40:DF:101:LEU:O	40:DF:106:ARG:NH1	2.50	0.43
40:DF:24:LEU:CB	40:DF:25:PRO:HD2	2.38	0.43
24:AY:614:GLU:HA	24:AY:617:MET:CB	2.47	0.43
29:B4:1:MET:HG2	41:BG:98:ARG:CD	2.48	0.43
41:BG:107:LEU:HD23	41:BG:111:LEU:HD11	2.00	0.43
41:BG:170:ARG:HE	41:BG:180:PHE:HD1	1.65	0.43
24:CY:455:GLY:O	24:CY:456:GLU:C	2.55	0.43
24:CY:84:THR:CG2	61:CY:702:FUA:H152	2.48	0.43
40:BF:206:ILE:CG2	40:BF:207:GLY:N	2.81	0.43
24:AY:87:HIS:NE2	24:AY:120:THR:HG21	2.32	0.43
53:DU:115:ALA:C	53:DU:117:GLN:H	2.20	0.43
53:DU:59:ARG:CG	53:DU:59:ARG:NH1	2.81	0.43
53:DU:88:ILE:O	53:DU:90:VAL:N	2.50	0.43
56:DX:12:VAL:CG2	56:DX:13:LEU:N	2.54	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
31:B6:29:ASN:CG	31:B6:30:THR:N	2.70	0.43
33:B8:58:ILE:CG2	48:BP:49:ARG:HD3	2.48	0.43
35:BA:272(H):C:C6	35:BA:272(H):C:H5'	2.34	0.43
35:BA:1485:G:H5'	35:BA:1485:G:H8	1.82	0.43
48:DP:58:THR:O	48:DP:61:ARG:HG3	2.17	0.43
10:CJ:30:SER:O	10:CJ:81:THR:HG23	2.18	0.43
5:AE:76:ILE:HG22	5:AE:118:ILE:HD13	1.99	0.43
26:D1:47:GLN:OE1	35:DA:2091:U:H1'	2.18	0.43
24:CY:140:ASP:OD1	24:CY:262:SER:HB2	2.17	0.43
51:BS:98:VAL:HG12	51:BS:100:ALA:CB	2.47	0.43
31:D6:17:LYS:O	31:D6:18:ARG:O	2.37	0.43
35:DA:2287:A:H2	35:DA:2346:A:C2	2.36	0.43
46:DN:135:PRO:O	46:DN:136:GLU:C	2.56	0.43
58:DZ:175:VAL:HB	58:DZ:176:PRO:CD	2.48	0.43
18:AR:36:ASN:OD1	18:AR:39:VAL:HB	2.18	0.43
53:DU:12:ARG:O	53:DU:13:LYS:C	2.56	0.43
1:CA:1103:C:H5''	2:CB:98:LEU:HD13	1.99	0.43
33:D8:5:LYS:HG2	35:DA:242:G:C8	2.53	0.43
26:B1:89:GLU:O	26:B1:93:GLU:HG2	2.18	0.43
48:DP:113:LYS:HA	48:DP:129:ALA:O	2.19	0.43
48:BP:106:LEU:N	48:BP:106:LEU:HD12	2.33	0.43
2:CB:17:PHE:O	2:CB:18:GLY:C	2.56	0.43
26:D1:24:ALA:HB3	26:D1:27:GLU:OE2	2.18	0.43
19:AS:19:VAL:HG12	19:AS:20:LEU:N	2.33	0.43
35:BA:2723:C:C5'	50:BR:2:ARG:HH11	2.21	0.43
35:DA:1495:A:N3	35:DA:1495:A:H2'	2.33	0.43
35:BA:1495:A:H2'	35:BA:1495:A:N3	2.33	0.43
1:CA:1055:A:C6	1:CA:1206:G:C5	3.06	0.43
3:AC:80:GLY:CA	3:AC:82:GLU:OE1	2.66	0.43
54:BV:17:GLY:O	54:BV:18:LEU:HB3	2.17	0.43
2:AB:223:ILE:C	2:AB:225:ALA:N	2.70	0.43
35:BA:2836:U:C4	35:BA:2883:A:N6	2.86	0.43
35:DA:1325:G:OP2	35:DA:1616:A:H2'	2.18	0.43
52:BT:53:ARG:O	52:BT:59:THR:HB	2.18	0.43
52:DT:8:LYS:C	52:DT:10:VAL:N	2.72	0.43
52:DT:8:LYS:O	52:DT:10:VAL:N	2.50	0.43
1:AA:149:A:H2'	1:AA:149:A:N3	2.33	0.43
52:DT:108:ARG:CG	52:DT:109:GLU:N	2.73	0.43
24:AY:152:THR:HA	24:AY:155:GLU:HB3	1.99	0.43
25:B0:70:GLN:NE2	25:B0:80:HIS:NE2	2.66	0.43
35:DA:2779:U:H1'	35:DA:2781:A:C6	2.52	0.43
9:AI:79:LEU:O	9:AI:82:ALA:N	2.52	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
16:AP:14:ASN:N	16:AP:15:PRO:CD	2.81	0.43
4:AD:96:LEU:O	4:AD:97:LEU:C	2.56	0.43
35:DA:2466:C:C2'	35:DA:2467:C:H5'	2.48	0.43
24:CY:573:HIS:CD2	24:CY:576:ASP:H	2.34	0.43
1:CA:1308:U:C5	13:CM:99:ARG:NH1	2.86	0.43
1:AA:1354:C:H2'	1:AA:1355:G:H8	1.82	0.43
35:DA:572:A:H2'	35:DA:573:G:O4'	2.18	0.43
1:CA:1202:G:H1'	14:CN:29:ARG:HD3	2.00	0.43
3:AC:109:PRO:CD	3:AC:110:ASN:H	2.31	0.43
3:CC:136:GLN:O	3:CC:138:VAL:N	2.51	0.43
35:BA:2688:U:H1'	35:BA:2721:A:H61	1.82	0.43
53:BU:15:LYS:HA	53:BU:18:LEU:HD12	2.00	0.43
1:CA:1347:G:C2'	1:CA:1348:U:OP2	2.66	0.43
30:D5:19:ARG:HG3	35:DA:2046:G:H5''	1.99	0.43
39:BE:26:ILE:HG13	39:BE:182:LEU:HB3	2.00	0.43
42:DH:37:VAL:HG12	42:DH:38:SER:H	1.83	0.43
35:BA:1328:G:H2'	35:BA:1330:C:C5	2.54	0.43
57:DY:49:VAL:HG12	57:DY:50:ARG:N	2.33	0.43
35:BA:1362:C:H2'	35:BA:1363:C:C6	2.53	0.43
33:D8:42:ARG:C	33:D8:44:LYS:H	2.19	0.43
11:AK:116:HIS:O	11:AK:117:ASN:HB2	2.18	0.43
3:CC:10:PHE:CZ	3:CC:178:LEU:HD11	2.52	0.43
43:DJ:9:UNK:O	43:DJ:10:UNK:C	2.67	0.43
35:DA:1663:C:HO2'	35:DA:1664:A:C5'	2.31	0.43
55:DW:41:LYS:C	55:DW:43:GLY:H	2.21	0.43
16:CP:75:ARG:HH11	16:CP:75:ARG:HG3	1.83	0.43
1:AA:961:U:O2'	1:AA:962:C:H5'	2.18	0.43
3:CC:101:LEU:HD23	3:CC:102:ASN:N	2.33	0.43
58:BZ:129:SER:O	58:BZ:131:ARG:N	2.51	0.43
5:CE:152:ARG:HB3	8:CH:43:GLY:HA3	2.00	0.43
26:D1:52:ARG:HD3	26:D1:52:ARG:HA	1.76	0.43
1:CA:452:A:H5'	16:CP:72:ARG:NH2	2.33	0.43
50:BR:48:VAL:HG12	50:BR:52:ILE:HG12	2.01	0.43
39:DE:103:ASP:CG	39:DE:201:THR:HA	2.37	0.43
35:BA:1487:G:N3	35:BA:1487:G:H2'	2.34	0.43
35:DA:1680:U:O2	35:DA:1763:G:H3'	2.18	0.43
35:DA:1932:A:H2'	35:DA:1933:G:O4'	2.18	0.43
8:CH:53:VAL:HB	8:CH:58:TYR:CD1	2.53	0.43
35:DA:1805:U:H2'	35:DA:1806:C:H6	1.82	0.43
52:DT:93:ARG:HA	52:DT:93:ARG:HD2	1.78	0.43
42:BH:173:PRO:O	42:BH:174:GLY:C	2.57	0.43
41:BG:63:ILE:C	41:BG:63:ILE:CD1	2.86	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1409:C:O2'	1:CA:1410:G:H5'	2.18	0.43
1:AA:407:G:H2'	1:AA:408:A:C8	2.53	0.43
4:AD:14:ARG:C	4:AD:16:GLY:N	2.71	0.43
24:AY:207:ASP:O	24:AY:208:GLN:C	2.56	0.43
24:AY:238:THR:C	24:AY:240:GLU:H	2.20	0.43
54:BV:4:ILE:HA	54:BV:12:TYR:O	2.17	0.43
33:B8:32:LEU:CD2	33:B8:32:LEU:H	2.31	0.43
48:BP:23:PRO:HD2	48:BP:33:ARG:HH21	1.83	0.43
58:DZ:9:TYR:CB	58:DZ:35:ARG:HH22	2.32	0.43
35:BA:336:C:H4'	57:BY:7:VAL:CG2	2.46	0.43
33:D8:53:PRO:HG2	33:D8:54:GLU:N	2.33	0.43
29:D4:7:PRO:O	29:D4:8:LYS:HD2	2.18	0.43
1:AA:946:A:N6	1:AA:1236:A:N6	2.67	0.43
1:AA:1221:G:OP1	1:AA:1320:C:N4	2.52	0.43
46:DN:133:GLN:CG	46:DN:134:ARG:H	2.31	0.43
39:DE:38:THR:C	39:DE:40:GLU:H	2.21	0.43
1:CA:703:G:O2'	1:CA:704:A:P	2.76	0.43
35:DA:2309:A:H2'	35:DA:2310:A:H5''	2.00	0.43
35:BA:2439:A:C8	35:BA:2586:C:H4'	2.54	0.43
48:DP:106:LEU:O	48:DP:107:LYS:HG2	2.18	0.43
48:DP:112:LEU:HD22	48:DP:113:LYS:N	2.32	0.43
20:AT:18:GLN:O	20:AT:19:SER:C	2.56	0.43
35:DA:1493:C:O2	35:DA:1493:C:C2'	2.66	0.43
39:DE:65:GLY:O	39:DE:67:PHE:N	2.52	0.43
39:DE:76:ARG:O	39:DE:77:ILE:C	2.57	0.43
35:BA:1493:C:H4'	35:BA:1494:A:OP2	2.18	0.43
35:BA:2849:U:O4	52:BT:23:ARG:NH2	2.51	0.43
52:BT:120:ARG:O	52:BT:124:ASP:OD1	2.36	0.43
54:DV:19:LYS:HG3	54:DV:20:LEU:N	2.32	0.43
20:AT:26:ASN:HD22	20:AT:26:ASN:N	2.14	0.43
35:BA:2069:G:C2'	35:BA:2070:G:H5'	2.48	0.43
24:AY:355:LEU:HD12	24:AY:369:LEU:CD1	2.34	0.43
29:D4:50:VAL:O	29:D4:51:ASP:CB	2.65	0.43
6:AF:43:LEU:CD1	6:AF:43:LEU:H	2.18	0.43
39:BE:12:THR:O	39:BE:23:VAL:N	2.44	0.43
41:DG:77:ILE:HG21	41:DG:80:PHE:CB	2.40	0.43
52:BT:57:PHE:CD2	52:BT:58:ASN:N	2.83	0.43
25:D0:40:GLN:HE22	25:D0:43:THR:C	2.22	0.43
52:DT:12:SER:O	52:DT:15:VAL:HG13	2.18	0.43
27:D2:47:ASN:O	27:D2:48:HIS:C	2.55	0.43
25:B0:49:LYS:HE3	25:B0:80:HIS:CG	2.53	0.43
38:BD:26:LYS:O	38:BD:27:THR:CG2	2.65	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
53:DU:31:SER:O	53:DU:33:ARG:N	2.51	0.43
39:BE:113:PHE:CE2	39:BE:158:GLY:CA	3.01	0.43
1:CA:1026:G:H3'	1:CA:1027:C:C5'	2.48	0.43
11:AK:33:THR:HG22	11:AK:39:PRO:CA	2.43	0.43
35:DA:2464:C:O2'	35:DA:2465:C:H6	2.01	0.43
19:CS:6:LYS:CD	19:CS:6:LYS:H	2.30	0.43
1:AA:1299:A:C2	1:AA:1301:U:N3	2.86	0.43
20:AT:50:GLU:HB2	20:AT:100:ILE:HB	1.99	0.43
1:CA:1518:A:C2	1:CA:1519:A:C2	3.06	0.43
35:BA:653:A:H5'	35:BA:654:A:P	2.58	0.43
53:DU:25:TRP:CD1	53:DU:26:GLY:N	2.86	0.43
56:DX:71:GLY:C	56:DX:72:LYS:HG3	2.38	0.43
35:BA:586:A:C2	35:BA:1254:A:C2	3.06	0.43
12:CL:7:ILE:HG22	12:CL:8:ASN:N	2.34	0.43
24:AY:605:ILE:HD13	24:AY:677:GLN:HG2	2.00	0.43
49:BQ:37:LEU:HD12	49:BQ:128:LYS:HB3	2.00	0.43
2:AB:233:SER:HB2	2:AB:234:PRO:HD3	1.98	0.43
1:CA:36:C:H4'	12:CL:122:THR:O	2.18	0.43
35:BA:959:A:N1	35:BA:960:A:C2	2.86	0.43
28:B3:59:VAL:CG1	28:B3:60:GLU:N	2.77	0.43
1:AA:1291:G:H2'	1:AA:1292:U:C6	2.54	0.43
58:BZ:20:ARG:CB	58:BZ:20:ARG:NH1	2.82	0.43
58:BZ:20:ARG:NH1	58:BZ:20:ARG:HB2	2.34	0.43
22:CW:52:C:H2'	22:CW:53:G:O4'	2.18	0.43
42:DH:38:SER:C	42:DH:40:GLU:H	2.22	0.43
4:CD:125:HIS:C	4:CD:126:ILE:HD12	2.39	0.43
35:DA:2749:A:C6	35:DA:2750:A:N6	2.87	0.43
29:D4:39:CYS:SG	29:D4:42:PHE:CE2	3.10	0.43
30:D5:29:THR:HG21	35:DA:2814:C:O2'	2.18	0.43
35:BA:216:A:H2'	35:BA:217:G:C8	2.54	0.43
57:BY:66:PRO:O	57:BY:67:LEU:HB3	2.19	0.43
43:DJ:35:UNK:C	43:DJ:37:UNK:N	2.80	0.43
35:DA:2116:G:N7	35:DA:2117:A:C4	2.86	0.43
43:DJ:74:UNK:C	43:DJ:76:UNK:N	2.81	0.43
1:CA:759:A:C2'	1:CA:760:G:H5'	2.48	0.43
13:AM:94:ARG:CZ	19:AS:82:GLY:N	2.81	0.43
35:BA:444:C:H2'	35:BA:445:C:C6	2.54	0.43
1:AA:1430:C:H2'	1:AA:1431:C:H6	1.82	0.43
26:D1:69:LYS:HE2	26:D1:72:GLU:OE1	2.19	0.43
3:CC:54:ARG:NH1	3:CC:54:ARG:HG2	2.33	0.43
50:DR:94:TYR:CD1	50:DR:94:TYR:N	2.86	0.43
35:BA:1666:G:O2'	35:BA:1667:G:H5'	2.19	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1065:U:O2'	1:AA:1066:C:OP2	2.34	0.43
1:CA:1048:G:OP1	14:CN:4:LYS:HB2	2.19	0.43
35:BA:2694:G:O2'	35:BA:2695:C:H5'	2.17	0.43
12:AL:50:SER:O	12:AL:51:ALA:HB2	2.18	0.43
35:DA:1763:G:H2'	35:DA:1764:G:H5'	2.00	0.43
7:AG:47:CYS:HB3	7:AG:58:PRO:CB	2.48	0.43
22:CW:54:G:O2'	22:CW:55:5MU:H5''	2.18	0.43
13:CM:72:ALA:O	13:CM:73:GLU:C	2.54	0.43
22:AV:11:A:O2'	22:AV:12:G:H5'	2.18	0.43
1:CA:802:A:H3'	1:CA:803:G:H8	1.83	0.43
35:DA:1925:C:O2'	35:DA:1926:U:H5'	2.18	0.43
26:B1:75:GLU:OE1	26:B1:75:GLU:HA	2.19	0.43
28:B3:50:VAL:O	28:B3:53:LEU:N	2.42	0.43
35:BA:2547:U:H2'	35:BA:2548:G:H8	1.82	0.43
10:AJ:27:ALA:HA	10:AJ:30:SER:OG	2.17	0.43
35:BA:611:C:H2'	35:BA:612:C:H6	1.83	0.43
40:BF:110:LEU:HD13	40:BF:202:PHE:HE1	1.82	0.43
40:BF:121:GLY:C	40:BF:123:LEU:H	2.22	0.43
1:CA:1129:C:O2'	1:CA:1130:A:O5'	2.36	0.43
40:BF:116:ASP:OD1	40:BF:119:ARG:NH2	2.47	0.43
33:B8:56:GLU:C	33:B8:58:ILE:H	2.22	0.43
35:BA:2393:A:H5'	48:BP:60:MET:O	2.17	0.43
58:DZ:61:LEU:HB2	58:DZ:65:GLN:HB2	2.00	0.43
57:DY:84:ARG:HD2	57:DY:97:ARG:HD2	2.01	0.43
16:CP:20:VAL:HG22	16:CP:21:VAL:N	2.33	0.43
57:BY:12:THR:HA	57:BY:25:GLY:O	2.19	0.43
41:DG:64:THR:HG23	41:DG:65:GLY:N	2.33	0.43
58:BZ:171:ILE:HG13	58:BZ:172:ALA:H	1.81	0.43
35:DA:1902:C:H4'	38:DD:244:ARG:CB	2.46	0.43
19:AS:10:PHE:CE2	19:AS:37:ARG:O	2.72	0.43
19:AS:37:ARG:H	19:AS:37:ARG:HG3	1.38	0.43
35:BA:1899:G:N2	35:BA:1902:C:C5	2.86	0.43
3:CC:90:GLU:OE1	3:CC:93:LYS:HD2	2.18	0.43
1:CA:1237:C:H2'	1:CA:1336:C:C5	2.53	0.43
30:B5:44:THR:CG2	30:B5:45:VAL:N	2.78	0.43
35:BA:2286:A:H8	35:BA:2287:A:C6	2.37	0.43
51:BS:78:LEU:HD11	51:BS:103:GLU:HB3	2.00	0.43
35:DA:661:C:O2'	48:DP:16:ARG:O	2.32	0.43
5:CE:80:ILE:CD1	5:CE:138:ALA:HB1	2.48	0.43
18:AR:37:VAL:O	18:AR:41:LYS:N	2.40	0.43
35:BA:812:C:H1'	35:BA:1250:G:N2	2.32	0.43
25:B0:15:ASP:OD2	25:B0:16:SER:N	2.50	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
51:DS:36:TYR:HD1	51:DS:36:TYR:N	2.14	0.43
35:DA:1782:C:C2'	35:DA:1783:A:H5'	2.47	0.43
48:DP:25:SER:O	48:DP:30:THR:CG2	2.65	0.43
1:CA:1456:G:C2'	1:CA:1457:G:H5'	2.48	0.43
26:B1:86:SER:O	26:B1:87:PRO:C	2.56	0.43
48:DP:107:LYS:O	48:DP:109:GLY:N	2.51	0.43
1:AA:1520:G:H2'	1:AA:1521:G:H8	1.83	0.43
2:CB:51:LEU:HD22	2:CB:55:PHE:HE2	1.83	0.43
35:DA:1819:A:O2'	35:DA:1820:U:P	2.76	0.43
29:D4:2:LYS:HG2	36:DB:44:G:P	2.58	0.43
42:BH:66:GLY:CA	42:BH:69:ARG:HB3	2.43	0.43
24:AY:513:LYS:N	24:AY:566:THR:O	2.51	0.43
1:AA:393:A:H5'	1:AA:483:C:O2'	2.18	0.43
52:BT:23:ARG:HA	52:BT:52:ILE:HD11	2.01	0.43
52:BT:89:VAL:C	52:BT:91:ARG:H	2.21	0.43
54:DV:17:GLY:O	54:DV:18:LEU:HB3	2.18	0.43
2:AB:208:ILE:HA	2:AB:211:ILE:HD12	2.00	0.43
2:AB:24:TRP:CH2	2:AB:26:PRO:HA	2.52	0.43
5:AE:51:VAL:O	5:AE:52:PRO:C	2.57	0.43
19:CS:29:ARG:HD2	19:CS:29:ARG:N	2.32	0.43
35:BA:2740:A:C6	35:BA:2741:A:C6	3.06	0.43
52:DT:29:ARG:O	52:DT:30:VAL:O	2.36	0.43
58:BZ:179:ASP:CB	58:BZ:182:LYS:HD2	2.44	0.43
18:CR:58:LEU:CD1	18:CR:58:LEU:N	2.81	0.43
57:DY:61:ILE:CG1	57:DY:62:GLU:N	2.80	0.43
40:DF:68:LYS:HG3	40:DF:69:HIS:CD2	2.54	0.43
38:DD:270:ILE:N	38:DD:270:ILE:HD12	2.34	0.43
49:DQ:137:TYR:N	49:DQ:137:TYR:CD1	2.84	0.43
25:D0:12:ASN:C	25:D0:14:ARG:H	2.21	0.43
35:BA:9:U:O4	35:BA:2629:A:N7	2.51	0.43
58:BZ:108:PRO:HA	58:BZ:142:SER:HA	2.00	0.43
50:BR:9:LYS:C	50:BR:10:LEU:HG	2.39	0.43
1:AA:1277:C:C3'	1:AA:1277:C:C6	3.00	0.43
19:CS:9:VAL:CG2	29:D4:53:GLU:OE2	2.66	0.43
35:BA:2489:G:C6	35:BA:2490:G:C6	3.06	0.43
12:AL:105:TYR:N	12:AL:105:TYR:CD2	2.85	0.43
34:D9:34:GLN:O	34:D9:35:ARG:CB	2.66	0.43
35:BA:460:A:H2'	35:BA:461:C:O4'	2.18	0.43
35:DA:1115:G:H5'	35:DA:1115:G:C8	2.49	0.43
35:BA:886:C:H2'	35:BA:887:A:O4'	2.19	0.43
14:CN:48:ALA:CA	14:CN:53:LEU:HD12	2.49	0.43
35:DA:2140:C:H1'	35:DA:2152:G:N2	2.34	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:CD:58:LEU:HD23	4:CD:62:GLN:HG2	2.00	0.43
1:CA:1171:G:H2'	1:CA:1172:C:C6	2.52	0.43
1:AA:986:A:H2'	1:AA:987:G:H8	1.83	0.43
10:CJ:22:LYS:NZ	10:CJ:88:LEU:HD23	2.33	0.43
38:BD:77:ALA:HA	38:BD:97:TYR:HA	2.00	0.43
27:B2:13:ALA:HA	27:B2:16:LEU:HD12	1.99	0.43
7:AG:120:ILE:O	7:AG:124:LEU:HD12	2.18	0.43
35:DA:1342:A:C2	35:DA:1345:C:C5	3.07	0.43
24:CY:415:PRO:HG3	24:CY:421:GLN:HG2	2.01	0.43
35:BA:606:U:C2'	35:BA:606:U:O2	2.62	0.43
39:DE:167:VAL:HG22	39:DE:170:LEU:HD11	2.00	0.43
1:AA:345:C:H5'	1:AA:346:G:OP2	2.19	0.43
35:DA:492:A:H2'	35:DA:493:G:C5'	2.49	0.43
35:BA:2405:G:HO2'	35:BA:2406:U:P	2.41	0.43
35:DA:625:G:H5'	35:DA:657:U:OP1	2.19	0.43
1:CA:659:U:O2'	1:CA:660:G:H5'	2.18	0.43
4:CD:134:ASP:OD2	4:CD:134:ASP:N	2.51	0.43
1:CA:773:G:C2'	1:CA:774:G:H5'	2.48	0.43
27:B2:28:LYS:HB3	27:B2:57:ILE:CD1	2.48	0.43
35:DA:268:C:H2'	35:DA:268:C:O2	2.17	0.43
38:BD:28:GLU:OE1	38:BD:29:PRO:HD2	2.18	0.43
35:BA:118:A:OP2	35:BA:119:A:H2'	2.18	0.43
1:CA:1423:G:H5'	47:DO:49:ARG:HH22	1.82	0.43
8:CH:6:ILE:O	8:CH:9:MET:N	2.51	0.43
35:BA:216:A:H2'	35:BA:217:G:H8	1.82	0.43
1:AA:221:C:H2'	1:AA:221:C:O2	2.18	0.43
35:DA:2219:G:C2'	35:DA:2220:G:H5'	2.49	0.43
35:BA:2376:A:O2'	51:BS:108:GLY:HA2	2.17	0.43
32:D7:34:ARG:HH12	32:D7:39:ARG:CD	2.32	0.43
45:BL:81:UNK:O	45:BL:82:UNK:O	2.37	0.43
11:CK:79:SER:CB	11:CK:106:LYS:HD2	2.48	0.43
35:BA:619:G:H3'	35:BA:620:G:H21	1.82	0.43
35:BA:1416:G:N3	35:BA:1417:C:C4	2.87	0.43
13:CM:36:LYS:HG3	13:CM:59:TYR:OH	2.19	0.43
1:AA:1008:C:H6	1:AA:1008:C:O5'	2.00	0.43
45:DL:76:UNK:O	45:DL:80:UNK:N	2.51	0.43
1:AA:1379:G:O2'	1:AA:1380:U:H5'	2.18	0.43
35:BA:338:G:H2'	35:BA:339:U:H6	1.83	0.43
1:AA:1081:G:O2'	1:AA:1082:G:H5'	2.19	0.43
34:D9:11:CYS:SG	34:D9:11:CYS:O	2.76	0.43
16:AP:9:PHE:CE2	16:AP:18:ARG:NE	2.86	0.43
58:BZ:128:VAL:HG22	58:BZ:129:SER:N	2.34	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BE:188:VAL:O	39:BE:189:PRO:O	2.36	0.43
35:DA:1161:C:H2'	35:DA:1162:G:C8	2.54	0.43
46:DN:119:ARG:HG3	46:DN:119:ARG:NH1	2.33	0.43
2:CB:144:ARG:O	2:CB:145:LEU:C	2.57	0.43
5:AE:139:LEU:O	5:AE:141:GLN:N	2.51	0.43
1:AA:1494:G:H2'	1:AA:1494:G:N3	2.33	0.43
35:DA:2704:C:O2'	35:DA:2705:A:H5'	2.19	0.43
35:BA:2696:U:H2'	35:BA:2697:G:H8	1.83	0.43
35:DA:2081:C:H2'	35:DA:2082:A:C8	2.54	0.43
1:CA:32:A:C2	1:CA:33:A:C4	3.06	0.43
26:B1:52:ARG:O	26:B1:53:VAL:HB	2.18	0.43
8:CH:53:VAL:HB	8:CH:58:TYR:CE1	2.54	0.43
8:AH:53:VAL:HB	8:AH:58:TYR:CD1	2.53	0.43
35:DA:1319:G:C2	35:DA:1334:G:C6	3.06	0.43
1:CA:1062:U:H2'	1:CA:1063:C:C6	2.53	0.43
47:BO:119:PRO:O	47:BO:120:GLU:HB2	2.18	0.43
1:AA:106:C:C2'	1:AA:107:G:H5'	2.48	0.43
7:CG:85:TYR:CD1	7:CG:154:TYR:HE1	2.36	0.43
42:DH:154:PRO:HB2	42:DH:155:SER:H	1.59	0.43
40:DF:187:VAL:CG1	48:DP:7:ARG:HH22	2.31	0.43
35:DA:1326:U:H4'	35:DA:2011:U:O4'	2.19	0.43
40:BF:192:LEU:CD2	40:BF:192:LEU:C	2.87	0.43
24:AY:165:GLN:HA	24:AY:178:ILE:O	2.19	0.43
24:AY:170:ARG:HD2	24:AY:170:ARG:H	1.84	0.43
56:BX:10:ALA:O	56:BX:28:PHE:CB	2.64	0.43
56:DX:10:ALA:O	56:DX:28:PHE:CB	2.66	0.43
41:DG:139:LEU:C	41:DG:141:PHE:H	2.22	0.43
41:DG:141:PHE:CB	41:DG:144:ILE:HG22	2.46	0.43
41:DG:45:GLU:OE2	41:DG:45:GLU:CA	2.65	0.43
10:CJ:78:ASN:C	10:CJ:79:ARG:NH1	2.71	0.43
5:AE:80:ILE:CD1	5:AE:138:ALA:HB1	2.49	0.43
50:DR:63:ARG:O	50:DR:67:LEU:HD23	2.19	0.43
30:D5:4:HIS:CB	30:D5:5:PRO:CD	2.92	0.43
47:DO:87:ILE:HG22	47:DO:92:GLU:C	2.38	0.43
35:DA:943:U:OP2	48:DP:38:GLN:CD	2.56	0.43
51:BS:74:ALA:HB2	51:BS:101:LEU:HD22	2.00	0.43
31:D6:15:GLU:OE1	31:D6:41:PRO:HG3	2.19	0.43
35:BA:1452:A:H3'	35:BA:1453:U:H5'	1.91	0.43
5:CE:72:GLN:NE2	5:CE:144:THR:HG22	2.32	0.43
8:CH:104:ARG:O	8:CH:107:LEU:N	2.51	0.43
49:DQ:56:ARG:CA	49:DQ:56:ARG:NE	2.77	0.43
47:BO:61:VAL:O	47:BO:84:ALA:HA	2.17	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:D2:14:ARG:HG3	27:D2:14:ARG:NH1	2.33	0.43
24:AY:409:ILE:HG12	24:AY:656:ALA:CB	2.49	0.43
39:BE:38:THR:OG1	39:BE:41:LYS:HE2	2.18	0.43
2:CB:44:LEU:HD12	2:CB:44:LEU:N	2.15	0.43
35:BA:2308:G:N7	35:BA:2310:A:C5'	2.70	0.43
3:CC:79:ARG:HB2	3:CC:79:ARG:NH1	2.14	0.43
39:BE:108:SER:O	39:BE:109:LYS:C	2.55	0.43
39:BE:111:ARG:CZ	50:BR:2:ARG:NH2	2.81	0.43
39:DE:36:ARG:NH1	39:DE:85:ASN:OD1	2.49	0.43
39:BE:31:CYS:HB3	39:BE:49:LEU:HB3	2.01	0.43
35:BA:1144:G:C6	35:BA:1145:C:C4	3.06	0.43
41:DG:163:ALA:HB1	41:DG:168:GLU:HB2	1.99	0.43
35:BA:2296:U:C4'	35:BA:2297:C:OP1	2.54	0.43
51:DS:101:LEU:C	51:DS:101:LEU:CD1	2.87	0.43
35:BA:677:A:O2'	35:BA:678:C:H5'	2.19	0.43
13:AM:91:ARG:NH2	19:AS:81:ARG:NH2	2.66	0.43
6:AF:67:MET:CE	6:AF:75:LEU:HD22	2.48	0.43
1:CA:1392:G:O2'	1:CA:1393:U:H5'	2.18	0.43
39:BE:21:VAL:HG23	39:BE:21:VAL:O	2.19	0.43
52:BT:8:LYS:C	52:BT:10:VAL:N	2.71	0.43
52:DT:11:GLU:C	52:DT:13:ARG:N	2.70	0.43
24:AY:485:GLU:HB2	24:AY:560:VAL:HA	1.99	0.43
42:DH:35:VAL:CG2	42:DH:75:ALA:HB2	2.49	0.43
41:DG:76:SER:HB3	41:DG:83:ARG:HB3	1.98	0.43
35:BA:1675:C:H2'	35:BA:1676:A:O4'	2.19	0.43
27:D2:48:HIS:O	27:D2:50:ILE:N	2.51	0.43
35:DA:1314:C:OP1	35:DA:1315:C:OP2	2.36	0.43
35:BA:1314:C:H5'	35:BA:1314:C:C6	2.37	0.43
3:CC:129:ALA:O	3:CC:131:ARG:N	2.52	0.43
35:BA:1999:C:O2'	35:BA:2000:G:H5'	2.19	0.43
10:CJ:63:PHE:HB2	14:CN:57:ARG:O	2.19	0.43
39:BE:1:MET:O	39:BE:2:LYS:C	2.56	0.43
1:CA:182:U:O2	1:CA:182:U:H2'	2.18	0.43
50:DR:41:ALA:C	50:DR:43:GLU:N	2.70	0.43
35:BA:558:G:P	46:BN:111:PRO:HD2	2.57	0.43
1:CA:1115:C:H1'	14:CN:61:TRP:O	2.18	0.43
35:BA:294:A:H2'	35:BA:295:G:H5'	1.99	0.43
38:BD:127:VAL:HG22	38:BD:194:GLY:HA3	2.01	0.43
1:AA:1202:G:H1'	14:AN:29:ARG:HD3	2.01	0.43
50:BR:12:ARG:HD3	50:BR:16:HIS:CD2	2.53	0.43
14:AN:21:TYR:OH	14:AN:23:ARG:NH2	2.50	0.43
32:D7:27:GLY:HA2	32:D7:30:VAL:CG2	2.49	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
20:CT:49:ALA:HB3	20:CT:99:LEU:CD1	2.48	0.43
55:BW:44:ALA:O	55:BW:45:TYR:C	2.57	0.43
24:AY:601:ILE:O	24:AY:679:VAL:HG13	2.19	0.43
28:B3:19:GLN:O	28:B3:22:ALA:N	2.43	0.43
4:CD:159:ARG:O	4:CD:162:LEU:N	2.52	0.43
35:BA:476:G:H4'	35:BA:502:A:N1	2.33	0.43
29:B4:30:GLU:C	29:B4:31:ILE:HD12	2.38	0.43
24:AY:519:ARG:HD3	24:AY:677:GLN:HA	2.01	0.43
36:BB:82:G:C2	36:BB:83:G:C8	3.07	0.43
36:BB:106:G:O2'	36:BB:107:G:H5'	2.18	0.43
27:D2:62:THR:O	27:D2:65:ASN:HB2	2.18	0.43
1:CA:1174:G:O2'	1:CA:1175:G:H5'	2.19	0.43
11:CK:126:ARG:O	11:CK:127:LYS:C	2.56	0.43
35:DA:1638:C:O2'	35:DA:1639:U:H5'	2.18	0.43
54:BV:5:VAL:HG22	54:BV:6:LYS:N	2.34	0.43
39:DE:27:LEU:HD12	39:DE:181:LEU:HD13	1.99	0.43
16:CP:6:LEU:HG	16:CP:17:TYR:HB3	2.01	0.43
35:BA:1565:C:C2	35:BA:1567:A:C8	3.06	0.43
54:DV:5:VAL:HG22	54:DV:6:LYS:N	2.33	0.43
1:CA:1443:G:C6	1:CA:1460:A:C2	3.06	0.43
49:BQ:132:VAL:HB	49:BQ:137:TYR:OH	2.18	0.43
18:AR:87:ARG:CZ	18:AR:87:ARG:HB3	2.48	0.43
14:AN:12:ARG:NH1	14:AN:12:ARG:HB2	2.34	0.43
1:AA:748:C:O2'	1:AA:749:C:O5'	2.36	0.43
1:CA:1347:G:H2'	1:CA:1373:G:O6	2.18	0.43
1:CA:1375:A:OP1	7:CG:12:LEU:HD21	2.18	0.43
35:BA:2749:A:C6	35:BA:2750:A:N6	2.86	0.43
35:BA:1385:G:H1'	35:BA:1386:C:C6	2.53	0.43
35:DA:2552:U:H2'	35:DA:2554:U:H5''	2.00	0.43
38:DD:73:VAL:C	38:DD:75:ILE:H	2.22	0.43
58:BZ:50:GLN:O	58:BZ:51:ALA:C	2.57	0.43
35:DA:1416:G:N3	35:DA:1417:C:C4	2.87	0.43
35:DA:1230:C:H2'	35:DA:1231:G:H8	1.83	0.43
42:BH:105:LEU:CD2	42:BH:105:LEU:N	2.82	0.43
24:AY:187:THR:OG1	24:AY:188:TYR:N	2.52	0.43
35:DA:1614:A:H62	55:DW:93:ALA:HB2	1.83	0.43
6:CF:53:ALA:C	6:CF:55:ASP:H	2.21	0.43
1:CA:977:A:N3	1:CA:977:A:H3'	2.34	0.43
27:B2:14:ARG:NH1	27:B2:14:ARG:HG3	2.33	0.43
38:BD:213:ARG:HD2	38:BD:213:ARG:HA	1.74	0.43
1:AA:64:G:N2	1:AA:67:C:C4	2.86	0.43
26:D1:4:VAL:HG23	26:D1:9:GLY:O	2.19	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:502:G:OP1	12:CL:118:SER:N	2.39	0.43
38:DD:45:ASN:HB2	38:DD:46:GLN:OE1	2.18	0.43
1:CA:142:G:N3	1:CA:196:A:H2	2.17	0.43
1:CA:757:U:H2'	1:CA:758:G:O4'	2.19	0.43
1:AA:757:U:O2'	1:AA:879:C:H1'	2.18	0.43
1:CA:115:G:H1'	1:CA:116:A:N7	2.33	0.43
8:CH:30:ARG:HH11	8:CH:30:ARG:HB2	1.82	0.43
22:AV:14:A:H1'	22:AV:22:G:N2	2.33	0.43
1:CA:34:C:H1'	12:CL:32:PHE:CZ	2.53	0.43
4:AD:86:LYS:HA	4:AD:86:LYS:HD3	1.82	0.43
35:BA:1575:C:O2	35:BA:1575:C:H2'	2.17	0.43
1:CA:596:C:H6	1:CA:596:C:O5'	2.02	0.43
17:AQ:33:GLY:O	17:AQ:34:LYS:C	2.56	0.43
37:BC:46:ALA:HA	37:BC:212:SER:O	2.18	0.43
40:DF:29:ASN:O	40:DF:30:PRO:C	2.56	0.43
41:BG:149:VAL:O	41:BG:149:VAL:HG13	2.19	0.43
24:CY:630:GLN:HE22	24:CY:646:PHE:HB2	1.84	0.43
4:AD:9:CYS:SG	4:AD:22:LYS:HD2	2.59	0.43
24:CY:85:PRO:HA	24:CY:94:VAL:HG22	2.00	0.43
53:DU:91:ASP:O	53:DU:92:ARG:HB3	2.19	0.43
46:BN:40:PRO:HB3	53:BU:68:ALA:HB2	2.01	0.43
24:AY:487:ILE:CD1	24:AY:487:ILE:N	2.81	0.43
58:DZ:39:VAL:O	58:DZ:39:VAL:HG23	2.19	0.43
41:DG:55:LYS:HD3	41:DG:56:ALA:CA	2.47	0.43
41:DG:67:LYS:HD3	41:DG:68:PRO:O	2.19	0.43
10:CJ:3:LYS:HZ3	10:CJ:77:PRO:HD2	1.82	0.43
3:AC:105:GLU:HG2	3:AC:106:VAL:N	2.30	0.43
1:AA:1316:G:O3'	14:AN:18:VAL:CG1	2.66	0.43
5:AE:119:LEU:N	5:AE:119:LEU:HD23	2.34	0.43
35:BA:2287:A:N6	35:BA:2344:U:C2	2.86	0.43
48:DP:12:ALA:CB	48:DP:16:ARG:HB3	2.49	0.43
35:DA:2400:G:N2	35:DA:2417:C:C2	2.87	0.43
40:BF:8:GLN:HG2	40:BF:126:VAL:HG12	2.01	0.43
28:D3:31:LEU:HD12	35:DA:1157:G:O2'	2.18	0.43
35:BA:27:G:C2'	35:BA:28:A:OP2	2.66	0.43
26:B1:82:LEU:HD12	26:B1:82:LEU:N	2.33	0.43
46:BN:13:TRP:O	46:BN:135:PRO:HD2	2.19	0.43
40:BF:84:VAL:CG1	40:BF:85:GLY:N	2.55	0.43
48:DP:107:LYS:HB2	48:DP:107:LYS:HE3	1.79	0.43
51:BS:28:VAL:HG13	51:BS:36:TYR:O	2.18	0.43
2:CB:55:PHE:HE1	2:CB:218:ALA:HA	1.83	0.43
1:AA:235:C:C5'	17:AQ:70:ARG:HG2	2.45	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
17:AQ:67:LYS:CA	17:AQ:70:ARG:HH12	2.25	0.43
2:AB:142:LEU:O	2:AB:146:GLN:HB2	2.19	0.43
39:BE:76:ARG:O	39:BE:77:ILE:C	2.56	0.43
46:BN:57:ALA:HB3	46:BN:124:ALA:HA	2.00	0.43
1:AA:1457:G:O5'	1:AA:1457:G:H8	2.01	0.43
41:DG:125:PHE:CE1	41:DG:170:ARG:HD2	2.53	0.43
35:DA:2376:A:O2'	51:DS:108:GLY:HA2	2.18	0.43
1:CA:1442(B):A:C2	52:DT:118:ARG:NH2	2.87	0.43
52:DT:90:GLN:O	52:DT:92:GLY:N	2.51	0.43
5:CE:11:ILE:HD12	5:CE:31:LEU:HD13	2.01	0.43
5:CE:12:LEU:HD12	5:CE:12:LEU:H	1.82	0.43
19:CS:64:GLU:HG2	29:D4:48:ARG:HH21	1.79	0.43
19:CS:43:GLU:OE1	29:D4:56:VAL:HG22	2.18	0.43
13:CM:79:LYS:HA	13:CM:82:MET:CG	2.48	0.43
1:AA:697:U:H2'	1:AA:698:G:C5'	2.38	0.43
2:CB:21:ARG:HB3	2:CB:39:ILE:HG12	2.00	0.43
35:BA:978:G:N2	35:BA:979:G:H1'	2.33	0.43
39:BE:15:PHE:CZ	52:BT:80:SER:HB2	2.53	0.43
52:BT:32:TYR:O	52:BT:33:LYS:HB2	2.19	0.43
38:DD:92:ILE:H	38:DD:92:ILE:HD13	1.82	0.43
2:AB:12:GLU:OE1	2:AB:12:GLU:N	2.39	0.43
35:DA:1541:G:H5''	35:DA:1542:A:OP1	2.17	0.43
55:DW:66:GLU:HG3	55:DW:69:LEU:HD12	1.99	0.43
34:D9:29:ASN:N	34:D9:29:ASN:HD22	2.17	0.43
39:BE:93:VAL:HG12	39:BE:175:VAL:CG2	2.48	0.43
39:BE:1:MET:O	39:BE:2:LYS:O	2.36	0.43
37:DC:90:ALA:HA	37:DC:155:ARG:HH12	1.79	0.43
38:BD:142:VAL:HG23	38:BD:192:THR:O	2.18	0.43
24:CY:71:THR:HG21	24:CY:357:ARG:CD	2.47	0.43
55:BW:17:VAL:O	55:BW:19:LEU:N	2.51	0.43
36:BB:67:G:O2'	36:BB:68:C:H5'	2.18	0.43
3:CC:3:ASN:N	3:CC:3:ASN:OD1	2.51	0.43
13:AM:3:ARG:CA	13:AM:9:ILE:HG13	2.45	0.43
13:AM:57:ARG:HH12	29:B4:34:GLU:HG3	1.83	0.43
14:AN:47:LEU:O	14:AN:48:ALA:C	2.56	0.43
1:AA:1422:G:C2	1:AA:1423:G:C5	3.07	0.43
1:AA:1000:U:H6	1:AA:1000:U:H3'	1.84	0.43
35:DA:1693:U:O2'	38:DD:14:ARG:NH2	2.51	0.43
32:D7:8:ASN:C	32:D7:8:ASN:HD22	2.19	0.43
7:CG:120:ILE:O	7:CG:124:LEU:HB2	2.19	0.43
27:D2:40:SER:O	27:D2:42:GLY:N	2.51	0.43
3:CC:139:GLN:O	3:CC:140:ARG:C	2.57	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
18:CR:87:ARG:CZ	18:CR:87:ARG:HB3	2.48	0.43
8:AH:46:LYS:HG3	8:AH:64:LYS:HB2	1.99	0.43
1:AA:186:C:C2	1:AA:187:C:C5	3.06	0.43
20:AT:86:ARG:HG3	20:AT:86:ARG:NH1	2.33	0.43
32:D7:46:VAL:CG1	32:D7:47:ARG:H	2.32	0.43
50:BR:24:GLN:NE2	50:BR:36:THR:HG21	2.34	0.43
41:DG:11:TYR:OH	41:DG:33:ARG:CG	2.67	0.43
35:DA:332:A:O2'	35:DA:334:C:OP2	2.35	0.43
1:CA:514:C:H2'	1:CA:515:G:H8	1.82	0.43
35:DA:1668:A:H4'	35:DA:1669:A:O5'	2.19	0.43
33:B8:42:ARG:C	33:B8:44:LYS:H	2.17	0.43
42:BH:35:VAL:HG21	42:BH:75:ALA:HB2	2.00	0.43
24:CY:688:ILE:N	24:CY:688:ILE:HD12	2.33	0.43
13:AM:29:ARG:HB3	13:AM:64:TRP:CZ2	2.54	0.43
37:DC:73:VAL:O	37:DC:73:VAL:HG13	2.18	0.43
35:DA:2009:G:O2'	35:DA:2010:G:H5'	2.19	0.43
35:DA:2841:C:O2'	35:DA:2842:G:H5'	2.19	0.43
35:DA:520:G:H2'	35:DA:521:G:C8	2.52	0.43
1:AA:67:C:H2'	1:AA:68:G:H8	1.83	0.43
13:CM:35:GLU:CG	13:CM:36:LYS:N	2.82	0.43
2:AB:178:ARG:CB	2:AB:178:ARG:HH11	2.31	0.43
46:BN:24:GLY:CA	46:BN:27:ALA:HB3	2.49	0.43
35:DA:245:G:O2'	35:DA:246:C:H5'	2.19	0.43
8:AH:38:ILE:O	8:AH:39:LEU:C	2.57	0.43
35:BA:1432:C:H2'	35:BA:1433:U:C6	2.54	0.43
35:DA:445:C:O2	35:DA:449:A:H2	2.01	0.43
35:BA:2081:C:H2'	35:BA:2082:A:C8	2.53	0.43
17:AQ:88:TYR:O	17:AQ:89:LEU:C	2.57	0.43
7:AG:22:LEU:HD23	7:AG:22:LEU:O	2.19	0.43
35:BA:2154:G:H2'	35:BA:2155:G:H8	1.83	0.43
22:CW:55:5MU:H2'	22:CW:56:U:O4'	2.18	0.43
24:AY:484:ARG:HA	24:AY:484:ARG:HD3	1.60	0.43
2:CB:70:PHE:O	2:CB:92:TYR:HA	2.17	0.43
7:CG:50:ILE:O	7:CG:54:THR:HG23	2.19	0.43
11:CK:60:ALA:O	11:CK:61:ALA:C	2.56	0.43
17:CQ:9:VAL:CG1	17:CQ:56:VAL:HG22	2.48	0.43
35:BA:654(B):C:H2'	35:BA:654(C):G:C8	2.53	0.43
43:DJ:108:UNK:O	43:DJ:109:UNK:C	2.65	0.43
35:BA:854:G:H1	35:BA:923:C:H42	1.67	0.43
35:BA:2701:C:H2'	35:BA:2702:U:H2'	2.00	0.43
4:AD:73:ARG:HD3	4:AD:73:ARG:HA	1.79	0.43
13:CM:46:LYS:HD3	13:CM:46:LYS:O	2.19	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
53:DU:5:LYS:HB2	53:DU:5:LYS:HE3	1.86	0.43
4:CD:54:TYR:O	4:CD:55:ALA:C	2.57	0.43
55:BW:62:HIS:O	55:BW:63:ASP:C	2.56	0.43
20:CT:81:LYS:C	20:CT:83:ARG:N	2.72	0.43
41:BG:97:ASP:O	41:BG:101:ILE:HG13	2.18	0.43
41:BG:108:ASN:O	41:BG:109:VAL:CG2	2.62	0.43
10:AJ:30:SER:O	10:AJ:81:THR:HG23	2.18	0.43
4:CD:9:CYS:SG	4:CD:22:LYS:HD2	2.58	0.43
4:AD:18:LYS:HE2	4:AD:20:TYR:CE2	2.53	0.43
24:AY:260:LEU:N	24:AY:260:LEU:HD13	2.33	0.43
46:BN:2:LYS:HZ3	54:BV:12:TYR:HA	1.82	0.43
48:BP:64:LYS:O	48:BP:66:GLY:N	2.42	0.43
29:D4:26:SER:OG	29:D4:27:THR:N	2.51	0.43
58:BZ:120:ILE:HB	58:BZ:172:ALA:HA	2.01	0.43
58:BZ:54:HIS:HA	58:BZ:98:MET:HE1	2.01	0.43
40:BF:170:LEU:N	40:BF:170:LEU:CD2	2.81	0.43
30:D5:44:THR:CG2	50:DR:101:ALA:HB2	2.30	0.43
1:CA:1298:C:C5	7:CG:114:ARG:HD3	2.53	0.43
47:DO:60:ALA:HA	47:DO:87:ILE:HD11	2.01	0.43
51:BS:68:GLN:C	51:BS:70:GLY:N	2.72	0.43
36:BB:48:A:OP1	51:BS:93:LYS:HB3	2.18	0.43
40:BF:7:TYR:CD2	40:BF:16:GLY:CA	2.99	0.43
38:DD:43:ARG:NH1	38:DD:49:ILE:HG22	2.32	0.43
3:AC:32:LEU:HD22	3:AC:59:ARG:HH12	1.83	0.43
35:DA:512:G:O2'	35:DA:513:A:H8	2.02	0.43
2:CB:142:LEU:HD23	2:CB:142:LEU:C	2.38	0.43
33:B8:61:LEU:N	33:B8:63:PRO:HD2	2.34	0.43
48:BP:113:LYS:HA	48:BP:129:ALA:O	2.19	0.43
44:BK:3:LYS:HE3	44:BK:3:LYS:HB3	1.78	0.43
46:DN:43:THR:HG22	46:DN:45:ASN:HD22	1.84	0.43
19:AS:15:LEU:HD13	19:AS:31:ILE:HD11	2.01	0.43
39:BE:161:GLY:O	39:BE:162:ALA:C	2.57	0.43
24:AY:525:PHE:HA	24:AY:565:VAL:O	2.19	0.43
46:DN:22:THR:HB	46:DN:25:ARG:CB	2.46	0.43
27:B2:38:GLN:HA	27:B2:41:ILE:HG12	2.01	0.43
1:AA:323:U:H2'	1:AA:324:G:O4'	2.19	0.43
35:BA:1349:A:N6	35:BA:1598:C:N4	2.67	0.43
13:CM:91:ARG:HD3	13:CM:97:PRO:O	2.19	0.43
36:DB:90:A:C8	36:DB:91:C:H1'	2.54	0.43
25:B0:37:LEU:HG	25:B0:60:PHE:HA	2.01	0.43
52:BT:10:VAL:C	52:BT:12:SER:H	2.22	0.43
35:BA:2876:G:OP1	52:BT:2:ASN:O	2.37	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
42:BH:52:VAL:O	42:BH:52:VAL:HG12	2.18	0.43
15:CO:26:GLU:OE2	15:CO:77:ARG:HB2	2.18	0.43
27:D2:50:ILE:HG23	27:D2:54:LYS:HE3	2.00	0.43
35:BA:797:C:H2'	35:BA:798:G:C8	2.53	0.43
25:B0:40:GLN:HE22	25:B0:43:THR:C	2.22	0.43
40:DF:132:VAL:O	40:DF:133:ASN:HB2	2.19	0.43
40:BF:160:ASN:HD22	40:BF:160:ASN:C	2.21	0.43
1:CA:732:C:H2'	1:CA:733:A:H5''	2.01	0.43
35:BA:2167:U:H2'	35:BA:2168:G:O4'	2.18	0.43
35:BA:1434:A:N3	35:BA:1434:A:H2'	2.34	0.43
3:AC:129:ALA:O	3:AC:131:ARG:N	2.51	0.43
3:AC:129:ALA:C	3:AC:131:ARG:N	2.72	0.43
38:DD:144:ALA:HB3	38:DD:192:THR:CG2	2.44	0.43
55:DW:44:ALA:O	55:DW:45:TYR:C	2.57	0.43
39:DE:45:THR:O	39:DE:46:ALA:CB	2.66	0.43
9:CI:11:LYS:O	9:CI:11:LYS:HG2	2.18	0.43
9:CI:73:GLN:O	9:CI:75:ASP:N	2.52	0.43
35:BA:2483:C:H5'	35:BA:2484:G:OP2	2.19	0.43
1:AA:608:A:O2'	1:AA:609:A:H5'	2.19	0.43
24:AY:228:MET:CE	24:AY:229:LEU:HG	2.48	0.43
55:BW:47:VAL:HG12	55:BW:47:VAL:O	2.18	0.43
1:CA:1499:A:O2'	1:CA:1500:A:H5'	2.19	0.43
56:DX:41:ASN:HA	56:DX:44:GLU:HG2	2.00	0.43
29:B4:31:ILE:HG23	29:B4:33:VAL:HG23	2.00	0.43
24:AY:519:ARG:HH12	24:AY:678:GLU:CB	2.32	0.43
37:BC:139:PRO:HA	37:BC:145:THR:CB	2.49	0.43
35:DA:2080:G:C2	35:DA:2241:A:C2	3.07	0.43
28:D3:6:VAL:O	28:D3:6:VAL:HG23	2.19	0.43
36:BB:25:A:C2	36:BB:26:A:C4	3.07	0.43
35:DA:1385:G:H1'	35:DA:1386:C:C6	2.53	0.43
35:BA:1930:G:O2'	35:BA:1931:U:O5'	2.36	0.43
35:DA:2552:U:C2	35:DA:2554:U:C5'	3.01	0.43
35:BA:1843:C:H2'	35:BA:1844:C:H6	1.84	0.43
35:BA:331:A:O2'	35:BA:332:A:OP1	2.27	0.43
38:DD:213:ARG:O	38:DD:215:LEU:N	2.52	0.43
50:DR:106:GLY:O	50:DR:107:ASP:HB3	2.17	0.43
20:CT:58:LYS:O	20:CT:59:ALA:C	2.57	0.43
19:CS:61:TYR:CG	19:CS:62:ILE:N	2.87	0.43
21:AU:6:ARG:NH2	21:AU:15:ARG:HH22	2.17	0.43
35:BA:329:G:H4'	35:BA:330:A:OP2	2.17	0.43
41:BG:129:GLY:O	41:BG:130:ASN:CG	2.56	0.43
46:DN:99:LEU:O	46:DN:102:ALA:HB3	2.19	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:BN:99:LEU:O	46:BN:102:ALA:HB3	2.18	0.43
22:AV:29:G:O2'	22:AV:30:G:H5'	2.19	0.43
35:DA:2219:G:H8	35:DA:2219:G:O5'	2.01	0.43
35:BA:2116:G:N7	35:BA:2117:A:C4	2.87	0.43
7:AG:144:MET:O	7:AG:147:ALA:HB3	2.19	0.43
3:CC:111:LEU:CD2	3:CC:141:VAL:HG13	2.49	0.43
46:DN:34:LEU:O	46:DN:116:LEU:HD22	2.18	0.43
2:CB:137:ARG:NH1	2:CB:137:ARG:HG2	2.34	0.43
39:BE:165:VAL:HB	39:BE:189:PRO:HB3	2.01	0.43
35:BA:525:U:O2'	35:BA:526:A:H5''	2.19	0.43
1:AA:636:U:H2'	1:AA:637:G:H8	1.83	0.43
34:B9:16:VAL:O	35:BA:1033:U:H5	2.00	0.43
35:BA:1310:G:C2'	35:BA:1311:G:H5'	2.49	0.43
35:BA:950:G:H2'	35:BA:951:C:C6	2.53	0.43
1:AA:743:U:H2'	1:AA:744:C:C6	2.53	0.43
7:AG:129:GLU:OE2	7:AG:131:LYS:HE2	2.18	0.43
16:AP:27:LYS:HG2	16:AP:30:GLY:HA3	2.00	0.43
24:CY:302:HIS:C	24:CY:304:ASP:H	2.22	0.43
36:BB:51:G:H5'	36:BB:52:A:OP2	2.18	0.43
36:BB:5:C:O2'	36:BB:6:C:H5'	2.19	0.43
15:AO:48:LYS:HD3	15:AO:48:LYS:HA	1.72	0.43
24:CY:651:GLU:OE1	24:CY:651:GLU:HA	2.18	0.43
27:B2:59:ARG:HG2	27:B2:59:ARG:H	1.47	0.43
35:DA:2154:G:H2'	35:DA:2155:G:C8	2.54	0.43
40:DF:25:PRO:CB	40:DF:119:ARG:HB2	2.48	0.43
41:BG:56:ALA:HB2	41:BG:153:ARG:NH2	2.34	0.43
41:BG:59:GLU:C	41:BG:61:ALA:H	2.22	0.43
10:AJ:4:ILE:CD1	10:AJ:4:ILE:N	2.79	0.43
37:BC:148:PHE:C	37:BC:150:ILE:H	2.21	0.43
1:AA:509:A:H5'	1:AA:510:A:P	2.51	0.43
40:BF:198:ALA:HA	40:BF:201:VAL:HG12	2.01	0.43
24:AY:138:LYS:HG2	62:AY:703:GDP:C6	2.54	0.43
40:BF:117:ARG:NH1	40:BF:120:GLU:OE1	2.52	0.43
46:DN:4:TYR:O	46:DN:5:VAL:C	2.57	0.43
53:DU:112:ARG:CG	53:DU:112:ARG:NH1	2.82	0.43
33:B8:9:GLY:O	33:B8:13:ARG:HG2	2.19	0.43
1:CA:1218:C:H2'	1:CA:1219:U:C5	2.54	0.43
35:DA:299:A:H1'	35:DA:322:A:N6	2.33	0.43
19:AS:57:HIS:O	19:AS:59:PRO:HD3	2.19	0.43
33:D8:9:GLY:O	33:D8:13:ARG:HG2	2.18	0.43
48:DP:47:ASP:HB3	48:DP:48:PRO:C	2.39	0.43
50:DR:101:ALA:O	50:DR:102:GLU:HB2	2.19	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1002:G:C8	1:CA:1003:G:N7	2.86	0.43
3:CC:43:LEU:C	3:CC:45:LYS:H	2.22	0.43
3:CC:50:ALA:HA	3:CC:72:LYS:HB3	2.01	0.43
35:BA:1263:U:C4	35:BA:1264:G:C6	3.06	0.43
35:DA:1263:U:H2'	35:DA:1264:G:C8	2.53	0.43
24:CY:261:GLY:O	24:CY:262:SER:C	2.56	0.43
40:DF:10:PRO:HB3	40:DF:127:GLU:CG	2.49	0.43
31:B6:17:LYS:CB	31:B6:44:ARG:NH1	2.82	0.43
35:BA:2345:G:N7	35:BA:2372:G:C2	2.87	0.43
51:BS:104:GLY:O	51:BS:106:ARG:N	2.47	0.43
51:BS:25:ARG:CG	51:BS:26:LEU:H	2.30	0.43
5:CE:143:ARG:HH12	8:CH:77:GLU:CD	2.22	0.43
5:CE:78:HIS:HE1	5:CE:80:ILE:CG2	2.30	0.43
35:DA:448:U:C4	35:DA:583:G:H1'	2.54	0.43
33:D8:61:LEU:N	33:D8:63:PRO:HD2	2.34	0.43
2:CB:207:ALA:C	2:CB:209:ARG:N	2.70	0.43
26:B1:44:PRO:C	26:B1:46:LEU:HD13	2.39	0.43
44:BK:8:VAL:CG1	44:BK:10:LEU:HG	2.47	0.43
46:DN:43:THR:HB	46:DN:46:VAL:CG1	2.46	0.43
46:DN:43:THR:HG22	46:DN:45:ASN:ND2	2.33	0.43
2:AB:117:GLU:O	2:AB:120:ALA:HB3	2.19	0.43
35:BA:2785:C:H1'	39:BE:64:LYS:NZ	2.34	0.43
35:DA:2889:C:H2'	35:DA:2891:G:O4'	2.19	0.43
35:DA:2785:C:H1'	39:DE:64:LYS:NZ	2.34	0.43
35:BA:945:A:C2	35:BA:2448:A:N1	2.87	0.43
35:DA:2291:U:OP1	35:DA:2380:C:O2'	2.36	0.43
35:DA:2376:A:H2'	35:DA:2377:A:O4'	2.18	0.43
51:DS:78:LEU:HD11	51:DS:103:GLU:HB3	2.01	0.43
35:DA:2850:A:OP2	35:DA:2866:U:H5	2.02	0.43
9:AI:114:TYR:CD1	10:AJ:60:ARG:HG3	2.53	0.43
22:CW:66:C:C4	22:CW:67:C:N4	2.86	0.43
35:BA:1947:C:H2'	35:BA:1948:G:H8	1.82	0.43
15:AO:26:GLU:OE2	15:AO:77:ARG:HB2	2.19	0.43
13:CM:66:LEU:O	13:CM:67:GLU:O	2.37	0.43
42:DH:149:ARG:HA	42:DH:162:ILE:CG1	2.48	0.43
12:CL:44:THR:HA	12:CL:45:PRO:HD3	1.79	0.43
47:BO:104:ARG:CZ	52:BT:33:LYS:HD2	2.48	0.43
1:CA:1260:C:O5'	1:CA:1284:C:H4'	2.18	0.43
35:DA:11:G:H2'	35:DA:12:U:H6	1.81	0.43
35:DA:2390:U:O2'	35:DA:2391:G:H5'	2.18	0.43
51:DS:65:VAL:C	51:DS:67:ARG:H	2.21	0.43
40:DF:133:ASN:O	40:DF:134:GLY:C	2.57	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:BF:133:ASN:O	40:BF:134:GLY:C	2.57	0.43
39:DE:15:PHE:CZ	52:DT:80:SER:HB2	2.54	0.43
51:BS:77:ALA:HB1	51:BS:82:ILE:HB	2.00	0.43
34:D9:29:ASN:HA	34:D9:30:PRO:HD2	1.89	0.43
35:DA:2122:U:O2'	37:DC:173:HIS:HD2	2.01	0.43
24:AY:350:GLU:HG3	24:AY:380:LEU:HG	2.01	0.43
4:AD:92:VAL:O	4:AD:95:GLY:N	2.52	0.43
35:DA:2467:C:O2	49:DQ:124:LYS:NZ	2.52	0.43
19:AS:65:ASN:HA	29:B4:48:ARG:CZ	2.49	0.43
37:BC:127:LYS:O	37:BC:128:LEU:HD23	2.18	0.43
35:DA:839:U:H2'	35:DA:840:C:H6	1.80	0.43
1:AA:1202:G:H2'	1:AA:1203:C:H5'	2.00	0.43
12:AL:37:CYS:HB3	12:AL:79:GLU:O	2.18	0.43
12:AL:86:ARG:NH2	12:AL:99:HIS:CG	2.87	0.43
35:BA:420:C:H2'	35:BA:421:U:C6	2.54	0.43
1:CA:1352:C:OP1	21:CU:3:LYS:CE	2.67	0.43
32:B7:8:ASN:HD22	32:B7:8:ASN:C	2.18	0.43
55:BW:70:TYR:HB3	55:BW:110:LYS:NZ	2.33	0.43
55:BW:72:LYS:H	55:BW:107:LEU:HA	1.84	0.43
7:AG:79:ARG:O	7:AG:79:ARG:HD2	2.19	0.43
35:DA:64:A:C5	56:DX:66:LEU:HD13	2.54	0.43
44:BK:75:SER:C	44:BK:78:ILE:HG22	2.38	0.43
18:CR:79:LEU:HD23	18:CR:79:LEU:HA	1.91	0.43
49:BQ:21:THR:OG1	49:BQ:99:PRO:O	2.37	0.43
1:AA:1171:G:H2'	1:AA:1172:C:C6	2.53	0.43
1:AA:1347:G:H2'	1:AA:1373:G:N1	2.34	0.43
35:BA:87:C:OP2	35:BA:90:U:O4	2.37	0.43
35:DA:420:C:H2'	35:DA:421:U:C6	2.54	0.43
35:DA:2801(A):A:H4'	35:DA:2802:G:H8	1.81	0.43
3:CC:140:ARG:NH1	3:CC:140:ARG:HG3	2.34	0.43
35:BA:1114:G:O2'	35:BA:1115:G:H5''	2.19	0.43
36:DB:25:A:C2	36:DB:26:A:C4	3.06	0.43
1:AA:714:G:H2'	1:AA:715:A:C8	2.53	0.43
1:CA:40:C:H2'	1:CA:41:G:H8	1.82	0.43
4:CD:121:VAL:CA	4:CD:126:ILE:HD13	2.47	0.43
1:AA:666:G:N2	1:AA:667:G:H1'	2.34	0.43
35:DA:483:A:C2	35:DA:484:C:C1'	3.02	0.43
35:BA:36:G:H4'	35:BA:451:C:C2	2.54	0.43
3:AC:113:ALA:HB3	3:AC:114:PRO:HD3	2.00	0.43
50:DR:53:HIS:HD1	50:DR:53:HIS:C	2.22	0.43
24:AY:315:LYS:HZ2	24:AY:317:MET:HG2	1.83	0.43
35:BA:78:A:H2'	35:BA:79:G:H8	1.84	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:143:A:N1	1:CA:220:G:O6	2.52	0.43
35:BA:2219:G:C2'	35:BA:2220:G:H5'	2.49	0.43
8:CH:66:GLY:O	8:CH:76:PRO:HB3	2.18	0.43
26:D1:4:VAL:CG2	26:D1:5:CYS:N	2.81	0.43
7:CG:113:GLU:CG	7:CG:119:ARG:HG2	2.48	0.43
4:CD:132:ARG:C	4:CD:132:ARG:HD2	2.38	0.43
1:CA:1008:C:O5'	1:CA:1008:C:H6	2.02	0.43
35:BA:1149:G:H2'	35:BA:1150:C:H6	1.83	0.43
46:DN:109:LYS:HE3	46:DN:109:LYS:H	1.84	0.43
1:AA:417:C:H2'	1:AA:418:C:H6	1.84	0.43
13:CM:94:ARG:CZ	19:CS:82:GLY:N	2.81	0.43
1:CA:1360:A:H2'	1:CA:1361:G:C8	2.53	0.43
35:BA:1680:U:O2	35:BA:1763:G:H3'	2.18	0.43
56:DX:57:LEU:HD22	56:DX:57:LEU:C	2.39	0.43
5:CE:147:ASP:HA	5:CE:150:ARG:NH1	2.34	0.43
39:DE:152:LYS:HG3	39:DE:153:GLY:H	1.83	0.43
41:BG:9:ARG:HG2	41:BG:13:GLU:OE1	2.18	0.43
1:CA:1065:U:O2'	1:CA:1066:C:OP2	2.37	0.43
24:AY:5:VAL:C	24:AY:7:TYR:H	2.22	0.43
35:DA:1166:C:H2'	35:DA:1167:U:H6	1.84	0.43
36:DB:76:G:H21	58:DZ:75:ASN:HD22	1.66	0.43
1:AA:786:G:C2	1:AA:787:A:C4	3.07	0.43
35:BA:2881:C:C2	35:BA:2882:A:C8	3.06	0.43
27:B2:59:ARG:O	27:B2:60:LEU:C	2.57	0.43
26:D1:34:THR:HG21	26:D1:37:ILE:HG13	2.01	0.43
53:BU:29:SER:OG	53:BU:30:LYS:HE2	2.19	0.43
15:CO:18:PHE:O	15:CO:18:PHE:CD1	2.71	0.43
24:AY:641:GLN:HB2	24:AY:641:GLN:HE21	1.63	0.43
2:CB:213:LEU:C	2:CB:213:LEU:HD23	2.39	0.43
26:D1:75:GLU:OE1	26:D1:75:GLU:HA	2.18	0.43
8:CH:122:ARG:HB3	8:CH:122:ARG:HH11	1.83	0.43
14:CN:24:CYS:SG	14:CN:39:LEU:HA	2.59	0.43
5:AE:69:VAL:HA	5:AE:70:PRO:HD2	1.82	0.43
1:CA:786:G:C2	1:CA:787:A:C4	3.06	0.43
35:BA:2531:A:H4'	42:BH:157:TYR:CD2	2.53	0.43
10:AJ:98:ILE:CG2	10:AJ:98:ILE:O	2.66	0.43
35:BA:2578:G:N2	35:BA:2579:C:C2	2.87	0.43
37:BC:149:ASN:ND2	37:BC:149:ASN:C	2.72	0.43
24:AY:208:GLN:O	24:AY:209:ALA:O	2.37	0.43
24:AY:238:THR:HG23	24:AY:240:GLU:HG2	2.00	0.43
54:DV:38:LEU:C	54:DV:39:LEU:HD22	2.39	0.43
24:AY:282:SER:C	24:AY:284:LEU:N	2.72	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:415:PRO:HB2	24:AY:421:GLN:HA	2.00	0.43
35:DA:83:G:N2	35:DA:103:A:OP2	2.52	0.43
1:AA:1037:C:H2'	1:AA:1038:C:N1	2.33	0.43
51:BS:13:ARG:CG	51:BS:14:VAL:N	2.64	0.43
31:D6:51:GLU:HG2	31:D6:52:VAL:N	2.31	0.43
1:AA:1237:C:H3'	1:AA:1336:C:N4	2.33	0.43
8:AH:44:PHE:HE2	8:AH:109:ILE:HG21	1.83	0.43
3:CC:70:VAL:HG21	3:CC:76:VAL:HG11	2.00	0.43
37:DC:139:PRO:HA	37:DC:145:THR:HG21	2.01	0.43
51:BS:63:THR:O	51:BS:66:ALA:N	2.51	0.43
44:BK:4:VAL:CG1	44:BK:5:VAL:H	2.10	0.43
5:CE:78:HIS:ND1	5:CE:79:GLU:N	2.67	0.43
1:AA:976:G:H5'	1:AA:1358:U:O2'	2.18	0.43
35:BA:581:C:C2	35:BA:582:G:N7	2.87	0.43
4:CD:129:ASN:N	4:CD:129:ASN:ND2	2.66	0.43
2:CB:142:LEU:CD2	2:CB:146:GLN:NE2	2.82	0.43
35:DA:2572:A:C8	39:DE:144:ARG:CB	3.02	0.43
1:AA:1522:U:H2'	1:AA:1523:G:C8	2.49	0.43
48:BP:98:GLU:O	48:BP:102:ARG:NH2	2.52	0.43
35:DA:1814:G:C4'	38:DD:51:VAL:HG21	2.49	0.43
49:DQ:69:PHE:CD1	49:DQ:70:PRO:HD2	2.53	0.43
35:BA:2821:A:OP2	39:BE:110:GLY:O	2.37	0.43
39:DE:31:CYS:HB3	39:DE:49:LEU:HB3	2.00	0.43
1:AA:450:G:H1	1:AA:483:C:H42	1.66	0.43
41:DG:97:ASP:O	41:DG:101:ILE:HB	2.18	0.43
35:BA:2849:U:H1'	35:BA:2866:U:H6	1.84	0.43
35:BA:361:G:N2	35:BA:362:U:H1'	2.34	0.43
20:AT:22:ARG:O	20:AT:26:ASN:ND2	2.52	0.43
1:AA:965:A:C2	1:AA:969:A:N1	2.87	0.43
13:CM:91:ARG:CD	13:CM:97:PRO:O	2.67	0.43
2:AB:39:ILE:HG22	2:AB:41:ILE:HD12	2.00	0.43
35:DA:1971:A:N3	38:DD:241:PRO:HD3	2.34	0.43
58:DZ:133:ILE:N	58:DZ:134:PRO:CD	2.81	0.43
36:BB:89:G:C6	36:BB:90:A:N1	2.87	0.43
15:CO:82:ILE:CD1	15:CO:82:ILE:C	2.82	0.43
49:DQ:132:VAL:HB	49:DQ:137:TYR:OH	2.19	0.43
24:CY:495:GLY:O	24:CY:509:HIS:HA	2.18	0.43
35:DA:1315:C:H42	35:DA:1337:G:H1	1.66	0.43
58:BZ:81:ARG:NH1	58:BZ:81:ARG:HB3	2.34	0.43
47:BO:24:VAL:O	47:BO:24:VAL:CG2	2.66	0.43
35:DA:1654:A:O2'	39:DE:113:PHE:O	2.37	0.43
35:DA:2089:U:O2'	35:DA:2090:G:H5'	2.18	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:CC:131:ARG:O	3:CC:132:ARG:C	2.56	0.43
35:BA:1463:C:H2'	35:BA:1464:C:H6	1.82	0.43
24:CY:226:ASN:O	24:CY:228:MET:N	2.51	0.43
37:DC:29:LEU:CD2	37:DC:29:LEU:C	2.88	0.43
13:AM:66:LEU:HA	13:AM:70:LEU:HD13	2.01	0.43
37:BC:135:ARG:C	37:BC:137:LEU:H	2.22	0.43
4:AD:96:LEU:O	4:AD:99:SER:N	2.51	0.43
58:DZ:25:PRO:HA	58:DZ:38:TYR:CB	2.49	0.43
18:AR:72:ARG:O	18:AR:73:ALA:C	2.57	0.43
24:AY:447:GLY:O	24:AY:448:GLN:O	2.36	0.43
1:AA:277:C:C2'	1:AA:278:G:H5'	2.49	0.43
2:CB:233:SER:HB2	2:CB:234:PRO:HD3	1.98	0.43
35:BA:1174:A:H5'	35:BA:1175:U:H5''	2.01	0.43
2:CB:95:GLN:HA	2:CB:95:GLN:OE1	2.19	0.43
35:BA:2197:U:H1'	35:BA:2198:A:C8	2.53	0.43
9:CI:42:ARG:O	9:CI:43:ALA:C	2.57	0.43
29:B4:31:ILE:O	29:B4:31:ILE:HG22	2.18	0.43
24:AY:609:GLU:HB2	24:AY:670:VAL:CG2	2.49	0.43
36:BB:96:U:H2'	36:BB:97:G:H8	1.84	0.43
24:CY:315:LYS:NZ	24:CY:317:MET:CG	2.82	0.43
42:BH:92:ILE:HG22	42:BH:93:GLY:N	2.33	0.43
24:AY:539:ILE:N	24:AY:540:PRO:CD	2.81	0.43
39:DE:9:VAL:HG22	39:DE:25:VAL:HB	2.01	0.43
35:BA:1567:A:OP2	38:BD:84:TYR:OH	2.33	0.43
35:BA:565:C:O2'	35:BA:566:U:H5'	2.19	0.43
1:CA:1347:G:H2'	1:CA:1373:G:N1	2.34	0.43
42:DH:38:SER:HA	42:DH:39:PRO:HD3	1.84	0.43
1:AA:66:G:C4'	1:AA:173:U:C5	3.00	0.43
30:D5:16:ARG:HG2	30:D5:16:ARG:HH11	1.84	0.43
35:DA:332:A:H4'	35:DA:333:G:OP1	2.19	0.43
4:CD:108:LEU:HD23	4:CD:110:PHE:CZ	2.53	0.43
13:CM:29:ARG:HB3	13:CM:64:TRP:CZ2	2.54	0.43
1:CA:822:C:O2'	1:CA:823:G:H5'	2.18	0.43
24:CY:621:ILE:HD12	35:DA:1095:A:H1'	2.01	0.43
57:BY:54:LYS:HE2	57:BY:55:TYR:HE2	1.84	0.43
35:BA:271(E):U:H3	35:BA:271(S):G:H1	1.66	0.43
1:AA:47:C:H6	1:AA:365:U:H2'	1.84	0.43
1:AA:1209:C:O2'	1:AA:1210:C:H5'	2.18	0.43
1:AA:1411:C:O2	1:AA:1411:C:H2'	2.19	0.43
7:CG:65:ALA:HB2	7:CG:128:ALA:HB2	2.00	0.43
1:CA:499:A:O2'	1:CA:500:G:C8	2.65	0.43
1:AA:954:G:H2'	1:AA:955:U:O4'	2.18	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:405:U:OP2	4:CD:3:ARG:HD2	2.19	0.43
8:AH:6:ILE:O	8:AH:9:MET:N	2.52	0.43
2:CB:178:ARG:HH11	2:CB:178:ARG:CB	2.31	0.43
13:CM:106:ASN:O	13:CM:107:ALA:CB	2.67	0.43
11:AK:109:VAL:HG13	18:AR:85:LEU:O	2.19	0.43
55:BW:12:ILE:CG1	55:BW:42:ARG:NH1	2.81	0.43
5:AE:139:LEU:C	5:AE:141:GLN:N	2.72	0.43
1:AA:1360:A:H2'	1:AA:1361:G:C8	2.53	0.43
1:CA:398:C:H2'	1:CA:399:G:H8	1.84	0.43
47:BO:120:GLU:OE2	47:BO:122:LEU:HD21	2.18	0.43
1:CA:596:C:OP2	1:CA:597:G:OP2	2.37	0.43
1:CA:785:G:C2'	1:CA:786:G:H5'	2.48	0.43
35:BA:2848:G:OP2	52:BT:97:ALA:N	2.49	0.43
7:AG:85:TYR:CD1	7:AG:154:TYR:HE1	2.37	0.43
35:DA:930:U:H4'	35:DA:931:G:O5'	2.19	0.43
18:AR:66:LEU:HG	18:AR:70:ILE:CD1	2.49	0.43
35:BA:1570:A:H2'	35:BA:1571:A:C8	2.54	0.43
35:BA:1765:C:H2'	35:BA:1766:U:H6	1.83	0.43
1:CA:61:G:H2'	1:CA:62:U:O4'	2.19	0.43
52:DT:14:TYR:CD1	52:DT:14:TYR:N	2.87	0.43
1:AA:342:C:C5	1:AA:343:U:C5	3.06	0.43
24:AY:623:ASP:HB2	24:AY:662:LYS:HE3	2.01	0.43
29:B4:28:LYS:HE3	29:B4:28:LYS:HA	2.01	0.43
41:BG:162:THR:O	41:BG:163:ALA:C	2.56	0.43
41:BG:34:LEU:H	41:BG:34:LEU:HD12	1.83	0.43
29:B4:1:MET:HE2	41:BG:66:GLN:OE1	2.18	0.43
41:BG:39:ILE:HD11	41:BG:92:VAL:CG2	2.48	0.43
4:CD:14:ARG:C	4:CD:16:GLY:N	2.71	0.43
35:BA:769:G:HO2'	35:BA:770:G:H5'	1.81	0.43
24:CY:406:GLU:OE1	24:CY:406:GLU:N	2.31	0.43
24:CY:84:THR:C	61:CY:702:FUA:H322	2.39	0.43
24:AY:166:LEU:HD21	24:AY:212:TYR:CD2	2.53	0.43
9:CI:20:ARG:O	9:CI:60:ASP:N	2.44	0.43
35:DA:904:C:C5'	35:DA:904:C:H6	2.26	0.43
58:DZ:125:LEU:HB3	58:DZ:165:VAL:HG22	2.00	0.43
53:DU:53:ARG:HG3	53:DU:57:PHE:HE1	1.84	0.43
53:DU:92:ARG:HB3	54:DV:11:GLN:NE2	2.34	0.43
54:BV:40:LEU:N	54:BV:40:LEU:CD2	2.82	0.43
35:DA:611:C:H2'	35:DA:612:C:H6	1.83	0.43
24:AY:415:PRO:HB2	24:AY:421:GLN:N	2.34	0.43
35:BA:833:U:OP1	48:BP:45:LEU:HD21	2.18	0.43
48:BP:23:PRO:O	48:BP:29:LYS:O	2.36	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:BP:58:THR:O	48:BP:61:ARG:HG3	2.18	0.43
58:DZ:48:PHE:CD1	58:DZ:48:PHE:C	2.92	0.43
35:BA:272(I):U:C5	35:BA:363(A):A:C2	3.07	0.43
57:BY:13:VAL:HG22	57:BY:14:LEU:N	2.32	0.43
40:DF:206:ILE:CG2	40:DF:207:GLY:H	2.31	0.43
33:D8:56:GLU:C	33:D8:58:ILE:H	2.23	0.43
35:BA:186:G:C2	35:BA:211:A:C2	3.06	0.43
57:BY:77:PRO:O	57:BY:78:ALA:CB	2.67	0.43
1:CA:1003:G:N2	1:CA:1004:A:H1'	2.33	0.43
5:AE:78:HIS:HE1	5:AE:80:ILE:HG23	1.83	0.43
3:CC:47:LEU:HB3	3:CC:52:LEU:HD22	2.00	0.43
3:CC:77:ILE:O	3:CC:84:ILE:HG22	2.18	0.43
35:BA:2615:U:H2'	35:BA:2616:C:H6	1.84	0.43
24:CY:13:ARG:HH11	24:CY:277:VAL:HA	1.84	0.43
31:B6:17:LYS:O	31:B6:18:ARG:O	2.37	0.43
5:CE:145:LYS:O	5:CE:149:GLU:HG2	2.19	0.43
40:BF:10:PRO:HB3	40:BF:127:GLU:CG	2.49	0.43
40:BF:17:ARG:HG3	40:BF:17:ARG:NH1	2.34	0.43
48:BP:11:GLY:O	48:BP:12:ALA:O	2.36	0.43
24:AY:276:VAL:HG12	24:AY:277:VAL:N	2.34	0.43
27:D2:13:ALA:O	27:D2:14:ARG:C	2.56	0.43
48:DP:115:LEU:CD2	48:DP:115:LEU:N	2.81	0.43
2:CB:58:ILE:H	2:CB:58:ILE:HG13	1.68	0.43
35:DA:143:G:H2'	35:DA:143(A):C:H6	1.84	0.43
39:BE:68:ALA:C	39:BE:70:ALA:H	2.22	0.43
39:BE:51:PHE:O	39:BE:74:PRO:HB3	2.18	0.43
35:BA:143(A):C:H2'	35:BA:143(A):C:O2	2.17	0.43
58:DZ:17:ALA:C	58:DZ:20:ARG:HG2	2.38	0.43
30:B5:48:GLU:C	30:B5:49:CYS:SG	2.98	0.43
27:B2:36:ARG:O	27:B2:37:PHE:C	2.56	0.43
20:CT:22:ARG:O	20:CT:26:ASN:ND2	2.52	0.43
1:AA:322:C:H4'	20:AT:23:ARG:HD2	2.01	0.43
20:CT:16:HIS:O	20:CT:19:SER:HB3	2.18	0.43
19:CS:15:LEU:HD13	19:CS:31:ILE:HD11	2.01	0.43
35:BA:545:C:C3'	35:BA:547:A:C5'	2.95	0.43
6:CF:67:MET:CE	6:CF:75:LEU:HD22	2.49	0.43
35:DA:978:G:N2	35:DA:979:G:H1'	2.34	0.43
42:DH:120:GLY:C	42:DH:121:ILE:HG13	2.38	0.43
42:DH:137:ASP:HB2	42:DH:140:LYS:CD	2.47	0.43
42:DH:149:ARG:HD3	42:DH:164:TYR:HE1	1.79	0.43
35:BA:977:G:H2'	35:BA:978:G:H8	1.83	0.43
52:DT:50:ILE:HD11	52:DT:64:ARG:HB3	2.00	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:CY:492:ASP:CG	24:CY:512:ILE:O	2.58	0.43
24:CY:428:LEU:N	24:CY:428:LEU:HD23	2.29	0.43
1:AA:769:G:O2'	1:AA:770:C:H5'	2.19	0.43
35:BA:2488:A:H2'	35:BA:2489:G:C8	2.54	0.43
55:DW:66:GLU:HA	55:DW:69:LEU:HD12	2.01	0.43
34:D9:1:MET:SD	35:DA:2478:A:OP2	2.76	0.43
52:DT:126:ALA:C	52:DT:128:GLU:N	2.72	0.43
35:DA:886:C:H2'	35:DA:887:A:O4'	2.19	0.43
15:CO:39:LEU:HD22	15:CO:43:LEU:HG	2.00	0.43
9:AI:46:ALA:C	9:AI:47:LEU:HD12	2.39	0.43
24:AY:229:LEU:O	24:AY:231:TYR:N	2.52	0.43
35:DA:746:A:HO2'	35:DA:2611:U:HO2'	1.63	0.43
46:BN:18:ALA:HB1	46:BN:21:LYS:HB2	2.01	0.43
42:DH:18:GLU:CB	42:DH:25:LYS:HB2	2.45	0.43
28:D3:22:ALA:HA	28:D3:46:ASN:ND2	2.33	0.43
35:BA:739:G:OP2	35:BA:739:G:H8	2.02	0.43
56:BX:41:ASN:HD22	56:BX:41:ASN:N	2.16	0.43
24:AY:659:LEU:O	24:AY:659:LEU:HD13	2.18	0.43
38:DD:218:ARG:NH1	38:DD:218:ARG:HG3	2.33	0.43
20:CT:74:LYS:HB2	20:CT:75:ASN:H	1.45	0.43
55:DW:37:ARG:HG3	55:DW:38:TYR:CD2	2.54	0.43
39:DE:7:VAL:CG1	39:DE:27:LEU:HB3	2.47	0.43
16:CP:6:LEU:HD11	16:CP:19:ILE:CD1	2.49	0.43
32:D7:12:ARG:HG3	35:DA:686:G:O6	2.19	0.43
1:CA:345:C:H5'	1:CA:346:G:OP2	2.18	0.43
24:CY:293:THR:HG23	24:CY:297:GLU:HG3	2.01	0.43
39:DE:26:ILE:HG13	39:DE:182:LEU:HB3	2.00	0.43
1:CA:1157:A:H4'	1:CA:1158:C:O5'	2.18	0.43
13:AM:10:PRO:O	13:AM:11:ARG:CB	2.66	0.43
51:DS:40:ILE:HG22	51:DS:41:ASP:H	1.84	0.43
35:DA:1396:U:O2	35:DA:1396:U:C2'	2.67	0.43
35:DA:2078:C:H1'	35:DA:2434:A:H1'	2.01	0.43
1:CA:98:G:C2'	1:CA:99:U:H5'	2.49	0.43
35:DA:406:G:O2'	35:DA:407:G:C8	2.60	0.43
55:DW:11:ARG:HD3	55:DW:11:ARG:O	2.18	0.43
35:BA:708:C:H42	35:BA:723:G:H1	1.67	0.43
35:BA:1545:A:N7	35:BA:1546:C:C2	2.86	0.43
1:AA:534:U:H5'	1:AA:534:U:H6	1.84	0.43
45:BL:79:UNK:O	45:BL:80:UNK:C	2.67	0.43
2:CB:9:GLU:HG2	2:CB:10:LEU:N	2.34	0.43
37:DC:184:GLU:OE1	37:DC:185:LYS:HD2	2.19	0.43
46:BN:34:LEU:O	46:BN:116:LEU:HD22	2.19	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:CE:155:GLU:N	8:CH:64:LYS:HE2	2.34	0.43
35:DA:1666:G:H2'	35:DA:1667:G:H5'	2.00	0.43
35:BA:1161:C:H2'	35:BA:1162:G:C8	2.54	0.43
15:CO:27:VAL:O	15:CO:31:LEU:HD23	2.18	0.43
15:AO:33:THR:HG23	15:AO:63:ARG:NH1	2.33	0.43
21:AU:8:THR:O	21:AU:9:ARG:C	2.56	0.43
28:B3:1:MET:HB3	28:B3:2:PRO:HD2	2.01	0.43
9:AI:56:LEU:HD23	9:AI:56:LEU:O	2.19	0.43
38:DD:45:ASN:CG	38:DD:46:GLN:H	2.21	0.43
22:AV:9:G:N3	22:AV:45:G:H2'	2.33	0.43
1:AA:596:C:H6	1:AA:596:C:O5'	2.02	0.43
1:CA:811:C:H4'	1:CA:900:A:N6	2.34	0.43
8:CH:100:ILE:HA	8:CH:101:PRO:HD3	1.74	0.43
17:CQ:60:ILE:HG22	17:CQ:72:ARG:O	2.19	0.43
35:DA:452:G:N3	35:DA:457:A:H2	2.16	0.43
35:DA:1836:C:O2'	35:DA:1837:C:H5'	2.18	0.43
35:BA:2576:G:H3'	35:BA:2576:G:N3	2.33	0.43
35:DA:527:C:O4'	35:DA:527:C:O2	2.34	0.43
58:BZ:175:VAL:HB	58:BZ:176:PRO:HD2	2.00	0.43
40:DF:116:ASP:OD2	48:DP:5:ASP:N	2.52	0.42
29:B4:25:TYR:N	29:B4:25:TYR:CD1	2.86	0.42
41:BG:145:THR:OG1	41:BG:146:TYR:N	2.52	0.42
4:AD:30:LYS:HB3	4:AD:35:ARG:HD2	2.00	0.42
24:AY:182:ARG:NH1	24:AY:182:ARG:HG3	2.34	0.42
24:AY:206:LEU:O	24:AY:209:ALA:HB3	2.19	0.42
35:BA:1204:A:H2	35:BA:1241:A:N1	2.17	0.42
53:DU:59:ARG:CG	53:DU:59:ARG:HH11	2.24	0.42
53:BU:53:ARG:HG3	53:BU:57:PHE:HE1	1.84	0.42
33:B8:48:PHE:HB3	33:B8:49:VAL:H	1.46	0.42
57:DY:14:LEU:HB2	57:DY:24:VAL:HG22	2.00	0.42
16:CP:57:ARG:O	16:CP:58:TYR:C	2.57	0.42
56:BX:28:PHE:N	56:BX:28:PHE:CD1	2.82	0.42
35:DA:1902:C:C4'	38:DD:244:ARG:HB2	2.49	0.42
35:BA:300:A:P	57:BY:97:ARG:HE	2.41	0.42
5:AE:78:HIS:ND1	5:AE:79:GLU:N	2.67	0.42
3:CC:43:LEU:C	3:CC:45:LYS:N	2.72	0.42
3:CC:68:VAL:HG12	3:CC:70:VAL:HG23	2.00	0.42
30:D5:3:LYS:HG2	35:DA:747:U:C4	2.54	0.42
24:CY:224:ASP:HB2	24:CY:227:ILE:HD12	2.01	0.42
1:CA:1296:C:H3'	1:CA:1297:C:H6	1.84	0.42
30:B5:44:THR:O	30:B5:51:TYR:CE1	2.70	0.42
51:BS:101:LEU:C	51:BS:101:LEU:CD1	2.87	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:CE:145:LYS:HA	8:CH:107:LEU:HD21	2.01	0.42
35:BA:811:U:O2	35:BA:1251:C:C6	2.71	0.42
35:BA:811:U:O2	35:BA:1251:C:C5	2.72	0.42
35:DA:2309:A:H2'	35:DA:2310:A:C5'	2.49	0.42
41:DG:168:GLU:O	41:DG:170:ARG:N	2.52	0.42
35:DA:2849:U:H1'	35:DA:2866:U:H6	1.84	0.42
24:AY:526:VAL:HG23	24:AY:565:VAL:O	2.18	0.42
46:DN:60:ILE:HG22	46:DN:61:ARG:N	2.33	0.42
1:AA:1442(A):G:O2'	1:AA:1442(B):A:H5''	2.18	0.42
27:B2:38:GLN:HE21	27:B2:44:LEU:HB2	1.84	0.42
20:AT:26:ASN:HD22	20:AT:27:LYS:H	1.66	0.42
2:CB:223:ILE:HG12	2:CB:226:ARG:HH22	1.79	0.42
2:AB:28:PHE:CE1	2:AB:31:TYR:HB2	2.54	0.42
19:CS:41:VAL:CG2	19:CS:44:MET:HB2	2.37	0.42
49:BQ:52:VAL:HG12	49:BQ:53:ALA:N	2.33	0.42
15:AO:17:ARG:NH1	15:AO:77:ARG:NH1	2.66	0.42
35:DA:1827:C:H2'	35:DA:1828:G:C5'	2.49	0.42
50:DR:13:HIS:O	50:DR:14:SER:C	2.57	0.42
42:DH:74:ASN:OD1	42:DH:138:LYS:HE3	2.19	0.42
47:DO:24:VAL:O	47:DO:24:VAL:CG2	2.65	0.42
47:DO:69:ILE:CD1	47:DO:77:ILE:HG23	2.41	0.42
35:BA:8:A:H2'	35:BA:9:U:C6	2.54	0.42
9:CI:125:TYR:HD2	9:CI:126:SER:N	2.17	0.42
1:CA:1277:C:H3'	1:CA:1277:C:C6	2.53	0.42
41:DG:4:ASP:HA	41:DG:8:LYS:HG2	2.00	0.42
19:AS:9:VAL:HG21	29:B4:53:GLU:CG	2.49	0.42
35:DA:460:A:H2'	35:DA:461:C:O4'	2.18	0.42
40:BF:160:ASN:ND2	40:BF:161:GLU:N	2.67	0.42
35:BA:1128:A:C8	35:BA:2518:A:N6	2.87	0.42
35:BA:2389:G:H5''	35:BA:2390:U:O4'	2.19	0.42
38:DD:127:VAL:HA	38:DD:193:VAL:HG13	2.00	0.42
35:DA:2489:G:C6	35:DA:2490:G:C6	3.07	0.42
35:DA:2126:A:N1	35:DA:2162:G:O2'	2.46	0.42
24:AY:327:PHE:HA	24:AY:375:GLY:O	2.19	0.42
37:BC:98:GLU:HA	37:BC:101:ILE:CD1	2.48	0.42
50:BR:21:TYR:N	50:BR:21:TYR:CD2	2.87	0.42
35:BA:817:C:O2'	35:BA:839:U:OP1	2.37	0.42
10:CJ:40:LEU:HD23	10:CJ:40:LEU:H	1.81	0.42
35:DA:2020:A:N1	35:DA:2022:U:C2	2.87	0.42
35:BA:2147:G:H2'	35:BA:2148:G:C4'	2.49	0.42
34:B9:29:ASN:N	34:B9:29:ASN:ND2	2.66	0.42
49:DQ:12:GLN:HG2	49:DQ:73:PRO:HD2	2.01	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:BT:16:ARG:HG3	52:BT:16:ARG:HH11	1.84	0.42
1:AA:674:G:H2'	1:AA:675:A:H8	1.83	0.42
4:CD:159:ARG:NH1	4:CD:159:ARG:HG3	2.33	0.42
29:B4:29:PRO:HB2	29:B4:30:GLU:OE1	2.19	0.42
1:AA:1101:A:H4'	1:AA:1102:A:H4'	2.01	0.42
1:AA:360:A:O2'	1:AA:361:G:H5'	2.19	0.42
38:DD:176:ARG:NH1	38:DD:176:ARG:CG	2.81	0.42
35:DA:688:U:C4'	35:DA:1780:A:C2	3.01	0.42
24:AY:395:PRO:HB2	24:AY:397:VAL:HG13	2.01	0.42
1:AA:1157:A:H4'	1:AA:1158:C:O5'	2.19	0.42
1:CA:186:C:C2	1:CA:187:C:C5	3.07	0.42
35:BA:1360:A:H5'	35:BA:1361:G:OP2	2.19	0.42
35:DA:1941:C:C4	35:DA:1942:C:C4	3.06	0.42
35:DA:729:G:O2'	35:DA:763:G:H4'	2.19	0.42
1:CA:202:U:H5'	1:CA:203:U:H5	1.84	0.42
3:AC:53:ALA:HB1	3:AC:114:PRO:HB2	2.01	0.42
42:BH:136:ILE:HD12	42:BH:136:ILE:H	1.84	0.42
35:BA:245:G:O2'	35:BA:246:C:H5'	2.19	0.42
35:BA:1888:G:N3	35:BA:1888:G:H5'	2.34	0.42
35:BA:2839:G:H2'	35:BA:2840:C:H6	1.83	0.42
38:DD:31:LYS:O	38:DD:33:LEU:N	2.51	0.42
1:AA:311:C:H2'	1:AA:312:C:H6	1.84	0.42
35:BA:520:G:H2'	35:BA:521:G:C8	2.53	0.42
11:CK:21:ILE:CD1	11:CK:21:ILE:N	2.82	0.42
35:BA:2604:U:H2'	35:BA:2605:U:H6	1.83	0.42
35:DA:200:U:C2'	35:DA:201:C:H5'	2.46	0.42
4:CD:140:VAL:HG12	4:CD:141:ARG:O	2.19	0.42
43:BJ:118:UNK:N	43:BJ:121:UNK:O	2.52	0.42
1:CA:47:C:H6	1:CA:365:U:H2'	1.84	0.42
32:B7:33:ARG:HH11	32:B7:33:ARG:HB2	1.84	0.42
35:DA:68:G:H2'	35:DA:69:C:H6	1.84	0.42
3:AC:101:LEU:HD23	3:AC:102:ASN:N	2.33	0.42
35:DA:1461:G:H2'	35:DA:1462:C:C6	2.53	0.42
22:AW:77:A:N6	35:BA:2422:A:O4'	2.52	0.42
35:BA:1973:G:H2'	35:BA:1974:C:C6	2.54	0.42
1:AA:556:C:C2'	1:AA:557:G:H5'	2.50	0.42
1:AA:318:G:O2'	1:AA:319:G:H5'	2.19	0.42
4:AD:170:VAL:O	4:AD:171:GLY:C	2.57	0.42
49:BQ:26:TYR:CD1	49:BQ:140:ALA:HB3	2.54	0.42
1:CA:316:G:C6	1:CA:338:A:C6	3.07	0.42
35:BA:1131:G:N3	35:BA:1132:A:C8	2.87	0.42
35:BA:2089:U:O2'	35:BA:2090:G:H5'	2.19	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
20:CT:81:LYS:C	20:CT:83:ARG:H	2.23	0.42
8:CH:99:GLU:O	8:CH:100:ILE:C	2.57	0.42
17:AQ:22:LEU:HD13	17:AQ:41:LYS:HG2	2.00	0.42
55:BW:13:SER:HB3	55:BW:16:LYS:HD2	2.00	0.42
32:B7:16:HIS:ND1	35:BA:684:G:OP1	2.51	0.42
1:CA:994:A:H2'	1:CA:994:A:N3	2.33	0.42
35:DA:2460:U:O2	35:DA:2460:U:H2'	2.18	0.42
35:DA:1786:A:C2	35:DA:2606:C:H1'	2.54	0.42
50:BR:13:HIS:O	50:BR:14:SER:C	2.56	0.42
42:DH:154:PRO:C	42:DH:156:ALA:H	2.17	0.42
29:B4:7:PRO:O	29:B4:8:LYS:HD2	2.19	0.42
10:AJ:31:GLY:O	10:AJ:32:ALA:C	2.58	0.42
35:BA:2579:C:H2'	35:BA:2580:U:O4'	2.20	0.42
24:CY:678:GLU:HG2	24:CY:679:VAL:O	2.20	0.42
61:CY:702:FUA:C23	61:CY:702:FUA:C12	2.84	0.42
35:BA:904:C:H2'	35:BA:905:U:C6	2.53	0.42
40:BF:119:ARG:NH1	40:BF:119:ARG:HG2	2.33	0.42
53:DU:53:ARG:CA	53:DU:56:ASP:OD2	2.62	0.42
53:DU:98:LEU:HA	53:DU:101:ARG:O	2.19	0.42
31:B6:26:ASN:O	31:B6:27:LYS:HB2	2.19	0.42
58:DZ:29:TYR:O	58:DZ:30:ASN:HB3	2.19	0.42
35:BA:272(J):C:H5'	35:BA:274:G:OP1	2.18	0.42
41:DG:53:LEU:HD12	41:DG:56:ALA:HB2	2.01	0.42
24:CY:112:GLN:CG	24:CY:115:GLU:HB3	2.48	0.42
24:CY:148:LEU:HD13	24:CY:151:ARG:NH1	2.29	0.42
40:DF:7:TYR:CD2	40:DF:16:GLY:CA	3.00	0.42
51:BS:89:ARG:CG	51:BS:92:TYR:CA	2.88	0.42
35:DA:2290:G:H4'	35:DA:2381:C:O2'	2.19	0.42
12:AL:83:VAL:HG12	12:AL:84:LEU:N	2.34	0.42
12:CL:18:VAL:O	12:CL:19:ARG:CB	2.67	0.42
24:AY:191:ASP:O	24:AY:266:ASN:ND2	2.52	0.42
58:DZ:145:GLU:CG	58:DZ:146:ILE:H	2.32	0.42
35:BA:1815:A:H1'	35:BA:1817:G:C8	2.54	0.42
48:DP:23:PRO:O	48:DP:29:LYS:O	2.37	0.42
2:CB:208:ILE:HA	2:CB:211:ILE:HD12	2.00	0.42
2:CB:82:ARG:NH1	2:CB:82:ARG:HG3	2.33	0.42
36:DB:40:U:H3'	36:DB:41:U:H5''	2.00	0.42
35:BA:2889:C:H2'	35:BA:2891:G:O4'	2.19	0.42
35:BA:2809:A:C2	35:BA:2892:A:N3	2.87	0.42
35:BA:821:A:H2'	35:BA:946:G:H5''	2.00	0.42
39:BE:144:ARG:HB3	39:BE:145:LYS:H	1.53	0.42
35:DA:359:A:H3'	35:DA:360:G:C8	2.54	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:963:G:H21	10:CJ:55:LYS:HD2	1.84	0.42
35:DA:1146:C:H2'	35:DA:1146:C:O2	2.18	0.42
27:B2:33:MET:HG2	27:B2:37:PHE:CE1	2.53	0.42
3:AC:47:LEU:HD21	3:AC:68:VAL:HG11	2.00	0.42
35:DA:2820:A:HO2'	35:DA:2821:A:P	2.42	0.42
35:DA:2820:A:H8	39:DE:191:PRO:HB3	1.84	0.42
38:BD:267:SER:C	38:BD:270:ILE:HD11	2.40	0.42
13:AM:91:ARG:CD	13:AM:97:PRO:O	2.67	0.42
54:BV:19:LYS:HG2	54:BV:94:LEU:CB	2.48	0.42
2:AB:238:LEU:O	2:AB:239:VAL:C	2.57	0.42
24:AY:289:ILE:HD12	24:AY:331:TYR:CE2	2.54	0.42
25:D0:60:PHE:HE2	35:DA:2365:G:C4'	2.25	0.42
1:CA:1399:C:C2	1:CA:1401:G:C5	3.07	0.42
52:BT:2:ASN:O	52:BT:4:GLY:N	2.51	0.42
42:DH:146:ALA:O	42:DH:147:ASN:C	2.57	0.42
1:CA:815:A:H62	1:CA:1509:C:H1'	1.83	0.42
24:CY:509:HIS:O	24:CY:510:VAL:CG2	2.67	0.42
27:D2:35:LEU:HD22	27:D2:50:ILE:CG1	2.49	0.42
40:DF:63:LYS:HA	40:DF:76:GLY:O	2.19	0.42
13:AM:19:LEU:HA	13:AM:22:ILE:HD13	2.00	0.42
35:BA:1541:G:H4'	35:BA:1542:A:O4'	2.19	0.42
40:DF:134:GLY:HA3	40:DF:165:ARG:NH1	2.34	0.42
42:DH:52:VAL:HG12	42:DH:52:VAL:O	2.19	0.42
1:CA:666:G:C2	1:CA:667:G:C8	3.08	0.42
37:BC:134:PRO:HB2	37:BC:135:ARG:HD2	2.01	0.42
50:DR:41:ALA:O	50:DR:43:GLU:N	2.53	0.42
39:DE:82:ARG:HG3	39:DE:82:ARG:HH11	1.84	0.42
1:CA:1150:U:O4	1:CA:1151:A:N6	2.52	0.42
35:BA:2776:A:C6	35:BA:2782:G:H1'	2.53	0.42
9:AI:105:ASP:OD1	9:AI:107:ARG:HD3	2.18	0.42
40:BF:20:LEU:HD13	40:BF:203:GLN:OE1	2.18	0.42
1:CA:193:C:C2	1:CA:194:C:C5	3.08	0.42
55:BW:50:VAL:HG13	55:BW:51:LEU:N	2.34	0.42
24:CY:69:VAL:CG2	24:CY:80:ASN:HB3	2.49	0.42
1:AA:1371:G:C5	1:AA:1372:U:C5	3.07	0.42
7:CG:144:MET:O	7:CG:147:ALA:HB3	2.19	0.42
49:DQ:35:VAL:HG23	49:DQ:101:ARG:C	2.39	0.42
9:CI:46:ALA:C	9:CI:47:LEU:HD12	2.39	0.42
9:CI:43:ALA:HA	9:CI:74:ILE:HD13	2.01	0.42
36:BB:81:G:O6	36:BB:96:U:O2	2.37	0.42
15:AO:43:LEU:C	15:AO:45:VAL:H	2.21	0.42
58:DZ:77:ASP:C	58:DZ:78:LYS:HG2	2.40	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2428:G:H5'	35:BA:2429:G:P	2.59	0.42
35:BA:88:G:OP1	35:BA:90:U:C5	2.63	0.42
20:AT:69:GLY:O	20:AT:73:HIS:NE2	2.52	0.42
13:CM:54:VAL:C	13:CM:56:LEU:N	2.72	0.42
1:AA:333:G:O2'	1:AA:334:C:H5'	2.18	0.42
42:BH:76:VAL:C	42:BH:78:GLY:H	2.21	0.42
43:BJ:74:UNK:O	43:BJ:76:UNK:N	2.52	0.42
35:BA:2537:U:H2'	35:BA:2538:C:H6	1.81	0.42
49:BQ:76:LYS:HE2	49:BQ:77:LYS:O	2.18	0.42
32:D7:46:VAL:HG12	32:D7:47:ARG:H	1.82	0.42
35:BA:2328:A:O5'	35:BA:2328:A:H8	2.02	0.42
24:CY:539:ILE:CA	24:CY:542:VAL:HG12	2.48	0.42
37:DC:65:LEU:HD21	37:DC:162:ILE:HD11	2.00	0.42
24:CY:538:TYR:HD1	24:CY:579:GLU:HA	1.84	0.42
35:BA:2025:C:H2'	35:BA:2026:C:H6	1.84	0.42
44:DK:86:LYS:HZ3	44:DK:86:LYS:HB3	1.84	0.42
24:CY:309:LEU:HB3	24:CY:391:GLY:N	2.34	0.42
17:AQ:53:LEU:HD23	17:AQ:54:GLY:N	2.34	0.42
7:CG:61:VAL:O	7:CG:64:GLN:HB3	2.19	0.42
35:DA:37:C:H2'	35:DA:37:C:O2	2.18	0.42
24:AY:140:ASP:OD2	24:AY:265:LYS:HE2	2.19	0.42
15:AO:64:ARG:CG	15:AO:64:ARG:HH11	2.32	0.42
35:BA:2511:U:H4'	39:BE:123:ALA:HB3	2.00	0.42
2:AB:178:ARG:HD2	8:AH:71:GLY:C	2.40	0.42
35:DA:2336:A:H3'	35:DA:2337:G:H8	1.84	0.42
35:DA:2861:G:C4	35:DA:2862:G:C8	3.07	0.42
1:AA:1080:A:C5'	5:AE:16:THR:HG21	2.49	0.42
4:AD:132:ARG:HD2	4:AD:132:ARG:C	2.39	0.42
35:BA:772:C:O2'	35:BA:773:U:H5'	2.20	0.42
35:BA:773:U:H2'	35:BA:774:A:H5'	2.00	0.42
35:BA:685:A:C6	35:BA:774:A:C2	3.07	0.42
8:AH:19:VAL:HG23	8:AH:21:LYS:HB2	2.01	0.42
35:BA:1131:G:C2	35:BA:1132:A:C5	3.07	0.42
9:CI:51:ARG:HG3	9:CI:56:LEU:HD12	2.01	0.42
13:CM:72:ALA:O	13:CM:75:ALA:N	2.53	0.42
49:BQ:63:LYS:NZ	58:BZ:175:VAL:HG21	2.34	0.42
1:CA:582:U:OP1	15:CO:68:ARG:NH2	2.52	0.42
35:BA:1932:A:H2'	35:BA:1933:G:O4'	2.19	0.42
47:DO:98:VAL:CG2	47:DO:118:ALA:HA	2.49	0.42
1:CA:1386:G:O2'	1:CA:1387:G:H5'	2.19	0.42
18:AR:63:GLN:OE1	18:AR:63:GLN:HA	2.19	0.42
1:AA:605:U:O2'	1:AA:606:G:H5'	2.19	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:CV:50:U:H2'	22:CV:51:C:C6	2.54	0.42
42:DH:141:VAL:O	42:DH:142:GLY:C	2.57	0.42
35:BA:2531:A:OP1	42:BH:177:GLY:O	2.38	0.42
40:DF:34:TRP:CB	48:DP:10:PRO:HB2	2.36	0.42
10:AJ:34:VAL:HG13	10:AJ:73:ASP:O	2.20	0.42
1:AA:541:G:O2'	1:AA:542:G:H5'	2.19	0.42
24:AY:252:ASP:HB3	24:AY:254:LYS:NZ	2.34	0.42
24:AY:21:ILE:HG23	24:AY:86:GLY:O	2.19	0.42
40:BF:116:ASP:OD2	48:BP:5:ASP:HB2	2.18	0.42
35:DA:1710:C:H2'	35:DA:1711:C:C6	2.53	0.42
31:B6:9:LEU:HD21	31:B6:26:ASN:HD22	1.83	0.42
1:CA:1221:G:OP1	1:CA:1320:C:N4	2.52	0.42
57:BY:39:VAL:O	57:BY:40:GLU:CD	2.57	0.42
57:BY:7:VAL:HB	57:BY:8:LYS:NZ	2.35	0.42
35:DA:615:G:OP2	40:DF:40:GLN:NE2	2.47	0.42
48:DP:66:GLY:O	48:DP:67:MET:CB	2.67	0.42
29:D4:5:ILE:HD13	29:D4:6:HIS:CD2	2.54	0.42
35:BA:322:A:C3'	40:BF:169:ASN:HD21	2.32	0.42
57:BY:84:ARG:HG2	57:BY:85:VAL:H	1.84	0.42
50:DR:85:PRO:C	50:DR:87:TYR:N	2.73	0.42
24:CY:181:LEU:HD21	24:CY:243:VAL:CG2	2.37	0.42
37:DC:126:SER:C	37:DC:128:LEU:H	2.23	0.42
37:DC:138:LEU:O	37:DC:139:PRO:C	2.57	0.42
35:DA:805:G:H4'	35:DA:806:C:OP2	2.20	0.42
51:BS:87:PHE:CG	51:BS:88:ASP:N	2.87	0.42
46:DN:133:GLN:HG2	46:DN:134:ARG:H	1.83	0.42
27:D2:14:ARG:HD3	27:D2:63:VAL:CG2	2.49	0.42
35:DA:26:G:N1	35:DA:27:G:N2	2.67	0.42
44:DK:112:MET:HE1	44:DK:120:LEU:HD21	2.00	0.42
24:CY:342:TYR:O	24:CY:389:LEU:HA	2.19	0.42
1:AA:267:C:H2'	1:AA:268:C:C6	2.48	0.42
35:DA:143(A):C:H2'	35:DA:143(A):C:O2	2.18	0.42
35:BA:947:G:N3	35:BA:984:A:H2	2.18	0.42
1:CA:963:G:HO2'	10:CJ:54:PHE:HZ	1.65	0.42
35:BA:1019:U:N3	35:BA:1142(A):A:N6	2.66	0.42
1:CA:1054:C:C2'	1:CA:1054:C:O2	2.68	0.42
51:DS:87:PHE:CG	51:DS:88:ASP:N	2.87	0.42
52:DT:89:VAL:C	52:DT:91:ARG:N	2.72	0.42
29:D4:29:PRO:HB2	29:D4:30:GLU:OE1	2.19	0.42
27:B2:41:ILE:HD11	27:B2:44:LEU:CD1	2.38	0.42
3:AC:87:LEU:O	3:AC:90:GLU:N	2.53	0.42
20:AT:26:ASN:HD22	20:AT:27:LYS:N	2.17	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:13:ARG:O	24:AY:79:ILE:HA	2.20	0.42
24:AY:289:ILE:HD12	24:AY:331:TYR:CZ	2.54	0.42
47:BO:69:ILE:CD1	47:BO:77:ILE:HG23	2.36	0.42
5:CE:6:PHE:N	5:CE:6:PHE:CD1	2.87	0.42
13:CM:91:ARG:NH2	19:CS:81:ARG:NH2	2.67	0.42
17:AQ:59:ILE:HG22	17:AQ:71:PHE:CD1	2.54	0.42
3:CC:40:ARG:NH1	3:CC:40:ARG:HG3	2.34	0.42
47:BO:19:ILE:HD12	47:BO:41:ALA:CB	2.48	0.42
52:BT:8:LYS:O	52:BT:10:VAL:N	2.51	0.42
44:DK:10:LEU:HD11	44:DK:27:LEU:CD1	2.49	0.42
38:BD:158:ALA:O	38:BD:196:VAL:CG1	2.63	0.42
1:CA:1509:C:C2'	1:CA:1510:U:H5'	2.49	0.42
24:AY:152:THR:C	24:AY:154:GLN:H	2.21	0.42
35:DA:1947:C:C3'	35:DA:1948:G:H5''	2.50	0.42
1:AA:1277:C:H3'	1:AA:1277:C:C6	2.54	0.42
35:DA:2389:G:H5''	35:DA:2390:U:O4'	2.20	0.42
3:CC:167:TRP:O	3:CC:168:ALA:CB	2.67	0.42
9:CI:84:ALA:O	9:CI:86:VAL:N	2.52	0.42
58:BZ:24:LEU:HD12	58:BZ:41:LEU:HD23	2.01	0.42
1:AA:182:U:O2	1:AA:182:U:H2'	2.19	0.42
39:BE:82:ARG:O	39:BE:83:ASP:C	2.57	0.42
53:DU:21:ALA:O	53:DU:22:LYS:C	2.57	0.42
9:CI:104:ARG:O	9:CI:105:ASP:N	2.52	0.42
13:AM:99:ARG:O	13:AM:100:GLY:O	2.37	0.42
51:DS:47:THR:HG22	51:DS:49:VAL:O	2.19	0.42
20:CT:89:ARG:HD2	20:CT:104:LEU:CD1	2.49	0.42
10:CJ:40:LEU:CB	10:CJ:41:PRO:HD2	2.49	0.42
35:DA:1186:G:H2'	35:DA:1187:G:H5'	2.01	0.42
4:AD:58:LEU:C	4:AD:58:LEU:CD2	2.86	0.42
24:AY:316:ILE:HD13	24:AY:316:ILE:N	2.34	0.42
20:AT:43:LEU:O	20:AT:44:ALA:C	2.57	0.42
35:BA:2122:U:H4'	37:BC:167:ASP:HB3	2.01	0.42
35:DA:653:A:H5'	35:DA:654:A:P	2.58	0.42
4:CD:4:TYR:CG	4:CD:5:ILE:N	2.85	0.42
52:BT:45:PHE:HE2	52:BT:74:ARG:HB2	1.81	0.42
26:D1:87:PRO:HG2	26:D1:88:LYS:H	1.85	0.42
35:BA:2184:G:H2'	35:BA:2185:C:C6	2.54	0.42
3:AC:110:ASN:HD21	3:AC:140:ARG:HB3	1.84	0.42
42:BH:37:VAL:HG12	42:BH:38:SER:H	1.80	0.42
46:DN:56:ASN:HA	46:DN:125:GLY:N	2.34	0.42
24:CY:553:GLY:H	24:CY:557:GLY:C	2.22	0.42
9:AI:42:ARG:O	9:AI:44:VAL:N	2.52	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:DE:26:ILE:CG2	39:DE:196:VAL:HG21	2.47	0.42
48:DP:121:LYS:HB2	48:DP:123:LEU:HD21	2.01	0.42
35:DA:1385:G:H4'	35:DA:1386:C:OP1	2.18	0.42
41:BG:10:LYS:O	41:BG:14:GLU:HB2	2.19	0.42
52:DT:35:LYS:HZ3	52:DT:41:ARG:HH11	1.64	0.42
24:CY:541:ALA:CB	24:CY:579:GLU:HG2	2.47	0.42
24:AY:456:GLU:HB2	24:AY:657:THR:HG21	2.01	0.42
10:AJ:29:ARG:CG	10:AJ:29:ARG:HH11	2.30	0.42
42:DH:94:TYR:N	42:DH:94:TYR:HD1	2.17	0.42
35:BA:1317:A:H2'	35:BA:1318:C:C6	2.54	0.42
1:AA:1061:G:H1'	10:AJ:56:HIS:CE1	2.53	0.42
58:BZ:127:LYS:HZ3	58:BZ:164:ALA:HB2	1.84	0.42
1:AA:893:C:O2'	1:AA:894:G:H5'	2.20	0.42
36:DB:105:A:OP1	58:DZ:72:ARG:NH1	2.51	0.42
47:DO:10:VAL:HG21	47:DO:16:ALA:O	2.20	0.42
1:AA:452:A:H5'	16:AP:72:ARG:NH2	2.34	0.42
35:DA:329:G:H22	57:DY:19:LYS:HE3	1.83	0.42
24:CY:302:HIS:O	24:CY:304:ASP:N	2.49	0.42
22:CW:29:C:O2'	22:CW:30:G:H5'	2.19	0.42
35:DA:1415:U:H3	35:DA:1587:A:H61	1.66	0.42
8:AH:74:PRO:O	8:AH:75:ARG:C	2.57	0.42
35:BA:2684:U:H2'	35:BA:2685:G:O4'	2.19	0.42
38:DD:85:ASP:OD2	38:DD:88:ARG:NH1	2.50	0.42
35:DA:1530:C:H2'	35:DA:1531:C:H6	1.83	0.42
44:BK:48:MET:HB2	44:BK:49:GLY:H	1.69	0.42
9:AI:90:PRO:HG2	9:AI:91:ASP:H	1.84	0.42
43:DJ:45:UNK:C	43:DJ:47:UNK:H	2.31	0.42
1:CA:767:A:H2'	1:CA:768:A:C8	2.55	0.42
35:DA:594:U:H2'	35:DA:595:C:C6	2.54	0.42
41:BG:97:ASP:O	41:BG:101:ILE:CB	2.68	0.42
41:BG:56:ALA:HB1	41:BG:153:ARG:NH2	2.35	0.42
41:BG:96:ARG:O	41:BG:97:ASP:CB	2.68	0.42
35:BA:2012:G:O3'	55:BW:96:ILE:HG13	2.19	0.42
22:AW:37:U:H2'	22:AW:38:A:H8	1.84	0.42
35:BA:611:C:H2'	35:BA:612:C:C6	2.54	0.42
24:AY:90:PHE:HB2	24:AY:454:MET:CE	2.49	0.42
46:DN:2:LYS:HE2	53:DU:95:LEU:HD21	2.02	0.42
46:BN:4:TYR:O	46:BN:5:VAL:C	2.57	0.42
53:BU:59:ARG:NH1	53:BU:59:ARG:HG2	2.29	0.42
56:DX:27:THR:HB	56:DX:80:ILE:CG2	2.45	0.42
57:DY:86:ARG:CB	57:DY:88:LYS:HZ1	2.30	0.42
40:DF:184:TYR:O	40:DF:188:ARG:HG2	2.19	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
31:D6:11:LEU:HD13	31:D6:11:LEU:C	2.39	0.42
33:D8:56:GLU:O	33:D8:59:LYS:CE	2.62	0.42
33:D8:34:TRP:HB2	35:DA:2420:C:OP1	2.19	0.42
10:CJ:32:ALA:HB1	10:CJ:75:ILE:CG1	2.48	0.42
52:BT:70:VAL:HG12	52:BT:71:GLY:N	2.34	0.42
38:BD:245:PRO:O	38:BD:246:PRO:O	2.37	0.42
3:CC:78:GLY:CA	3:CC:83:ARG:HB3	2.50	0.42
51:BS:89:ARG:CG	51:BS:92:TYR:CB	2.96	0.42
35:DA:2345:G:N7	35:DA:2372:G:C2	2.87	0.42
50:BR:82:GLU:O	50:BR:85:PRO:HD2	2.19	0.42
46:DN:15:LEU:HD13	46:DN:15:LEU:C	2.39	0.42
35:BA:662:G:P	48:BP:18:ARG:HD2	2.59	0.42
28:B3:31:LEU:CD1	28:B3:32:GLN:HG2	2.33	0.42
35:BA:512:G:O2'	35:BA:513:A:H8	2.02	0.42
2:CB:142:LEU:O	2:CB:146:GLN:HB2	2.19	0.42
35:DA:1819:A:H4'	35:DA:1820:U:H5''	2.00	0.42
35:DA:1821:A:H2'	35:DA:1822:G:C8	2.51	0.42
35:DA:2206:G:H21	35:DA:2207:G:H4'	1.84	0.42
39:DE:51:PHE:HD1	39:DE:52:LEU:HD12	1.83	0.42
39:DE:51:PHE:O	39:DE:74:PRO:HB3	2.20	0.42
39:DE:50:GLY:CA	39:DE:74:PRO:HG3	2.50	0.42
35:DA:1349:A:N6	35:DA:1598:C:N4	2.67	0.42
35:BA:143:G:H2'	35:BA:143(A):C:H6	1.84	0.42
1:AA:394:G:H2'	1:AA:395:C:C6	2.55	0.42
58:DZ:14:LYS:O	58:DZ:18:LEU:CD1	2.67	0.42
50:BR:28:LEU:HA	50:BR:34:ILE:CG1	2.49	0.42
1:AA:323:U:H5'	20:AT:23:ARG:HB2	2.00	0.42
2:AB:24:TRP:HA	2:AB:190:THR:O	2.19	0.42
2:AB:204:ASN:HD21	2:AB:206:ASP:H	1.60	0.42
5:CE:33:VAL:HG12	5:CE:112:LEU:HD12	2.01	0.42
2:CB:170:GLU:C	2:CB:172:ILE:HD12	2.40	0.42
35:BA:2103:C:N4	35:BA:2186:G:H1	2.18	0.42
1:CA:690:G:H2'	1:CA:691:G:O4'	2.20	0.42
35:DA:1952:A:C2	47:DO:22:ILE:HG23	2.55	0.42
24:AY:416:LYS:CD	24:AY:417:THR:N	2.67	0.42
58:BZ:115:GLY:HA2	58:BZ:177:PRO:CG	2.49	0.42
52:DT:102:ILE:O	52:DT:103:ARG:C	2.57	0.42
4:AD:190:ASP:HB3	4:AD:193:ASP:OD2	2.19	0.42
29:B4:22:ILE:HG22	29:B4:24:THR:HG23	2.00	0.42
19:CS:9:VAL:HG13	19:CS:39:THR:HB	2.02	0.42
9:CI:95:LYS:NZ	9:CI:96:LEU:CD1	2.76	0.42
35:DA:1541:G:H4'	35:DA:1542:A:O4'	2.19	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:AI:126:SER:O	9:AI:127:LYS:HB3	2.20	0.42
1:AA:437:U:H2'	1:AA:438:G:O4'	2.20	0.42
58:BZ:52:SER:OG	58:BZ:53:ILE:N	2.52	0.42
34:D9:29:ASN:ND2	34:D9:32:HIS:CG	2.88	0.42
10:CJ:63:PHE:HB3	14:CN:58:LYS:CA	2.42	0.42
39:BE:45:THR:O	39:BE:46:ALA:CB	2.66	0.42
36:DB:114:C:H2'	36:DB:115:G:H8	1.84	0.42
51:DS:49:VAL:CG1	51:DS:50:SER:N	2.81	0.42
35:DA:1052:C:C6	35:DA:1052:C:C3'	3.03	0.42
1:CA:308:C:H2'	1:CA:309:G:C8	2.53	0.42
10:AJ:35:SER:O	10:AJ:36:GLY:O	2.37	0.42
35:BA:893:C:H2'	35:BA:894:C:C6	2.54	0.42
35:BA:2665:A:H2'	35:BA:2666:C:O4'	2.19	0.42
35:DA:953:A:O2'	35:DA:954:G:H5'	2.20	0.42
1:AA:1074:G:H4'	2:AB:104:ASN:HB2	2.01	0.42
13:CM:3:ARG:CA	13:CM:9:ILE:HG13	2.45	0.42
1:AA:1351:U:H5'	7:AG:33:ASP:OD1	2.20	0.42
35:BA:1682:G:O2'	35:BA:1683:C:H5'	2.19	0.42
55:DW:68:ARG:HA	55:DW:110:LYS:CG	2.48	0.42
1:AA:1090:U:H4'	1:AA:1170:A:H2	1.85	0.42
11:AK:120:ARG:NH1	11:AK:126:ARG:NE	2.67	0.42
42:BH:94:TYR:N	42:BH:94:TYR:HD1	2.17	0.42
22:AW:73:A:H2'	22:AW:74:A:O4'	2.19	0.42
28:B3:35:ARG:HD3	28:B3:37:LEU:HD21	2.02	0.42
22:AV:61:C:H2'	22:AV:62:C:H6	1.85	0.42
32:D7:4:THR:O	35:DA:687:C:H5'	2.20	0.42
1:AA:539:A:OP2	12:AL:115:LYS:HE3	2.19	0.42
24:CY:293:THR:OG1	24:CY:297:GLU:HG2	2.20	0.42
35:DA:2428:G:C5'	35:DA:2429:G:OP1	2.66	0.42
1:CA:658:G:H2'	1:CA:659:U:H6	1.83	0.42
24:CY:400:GLU:O	24:CY:402:ILE:CD1	2.64	0.42
4:AD:127:THR:HG23	4:AD:147:ALA:HB3	2.01	0.42
1:CA:189(B):C:C2	1:CA:189(J):G:C2	3.07	0.42
35:BA:1209:G:H21	35:BA:1210:A:H62	1.66	0.42
35:BA:1491:G:N3	35:BA:1491:G:H2'	2.34	0.42
35:DA:1669:A:OP2	35:DA:2550:G:OP1	2.38	0.42
12:AL:98:TYR:N	12:AL:98:TYR:CD1	2.86	0.42
58:BZ:105:VAL:CG1	58:BZ:105:VAL:O	2.66	0.42
20:CT:61:SER:O	20:CT:63:ILE:N	2.52	0.42
41:DG:13:GLU:O	41:DG:14:GLU:HB2	2.20	0.42
47:DO:13:ASN:ND2	47:DO:97:ARG:HB2	2.34	0.42
24:AY:456:GLU:O	24:AY:457:LEU:C	2.58	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1314:C:N4	19:AS:4:SER:N	2.67	0.42
24:CY:308:PRO:O	24:CY:332:SER:CB	2.65	0.42
1:AA:505:G:C6	1:AA:535:A:C2	3.07	0.42
42:DH:94:TYR:O	42:DH:95:ARG:HB3	2.19	0.42
6:CF:12:PRO:C	6:CF:14:LEU:H	2.23	0.42
8:AH:6:ILE:HG21	8:AH:85:ARG:NH1	2.34	0.42
1:CA:1414:U:H2'	1:CA:1415:G:C8	2.54	0.42
35:DA:1150:C:O2'	35:DA:1151:G:H5'	2.18	0.42
1:CA:96:U:O2'	1:CA:97:G:H8	2.02	0.42
46:BN:34:LEU:HD13	46:BN:34:LEU:HA	1.90	0.42
3:CC:67:THR:HA	3:CC:102:ASN:HB2	2.01	0.42
1:AA:1515:C:H2'	1:AA:1516:G:C8	2.54	0.42
37:BC:76:LEU:HD21	37:BC:104:ILE:CD1	2.48	0.42
49:DQ:136:ALA:C	49:DQ:138:ASP:H	2.20	0.42
49:DQ:135:ASP:CG	58:DZ:49:ARG:NH1	2.73	0.42
24:CY:625:ASN:C	24:CY:627:ARG:N	2.73	0.42
1:CA:622:A:C8	1:CA:623:C:C6	3.07	0.42
36:DB:74:U:C2'	36:DB:75:G:H5'	2.49	0.42
35:DA:2134:A:H1'	35:DA:2158:A:C2	2.54	0.42
24:CY:527:ASN:ND2	24:CY:527:ASN:C	2.73	0.42
47:BO:14:THR:HG21	47:BO:86:ILE:HD13	2.02	0.42
35:BA:2154:G:C2	35:BA:2155:G:C4	3.08	0.42
3:AC:147:LYS:O	3:AC:203:PHE:HD2	2.02	0.42
46:DN:38:HIS:C	53:DU:67:ALA:HB1	2.39	0.42
24:AY:308:PRO:O	24:AY:333:GLY:N	2.52	0.42
49:DQ:25:ASP:HA	49:DQ:100:GLY:O	2.18	0.42
58:DZ:27:VAL:O	58:DZ:87:ASP:HA	2.19	0.42
43:BJ:42:UNK:HA	43:BJ:45:UNK:CB	2.49	0.42
38:BD:96:HIS:CE1	38:BD:102:LYS:HE2	2.54	0.42
37:BC:196:ALA:O	37:BC:199:ALA:HB3	2.19	0.42
52:BT:67:SER:O	52:BT:68:TYR:HB2	2.20	0.42
20:AT:64:ASP:OD1	20:AT:81:LYS:HD2	2.19	0.42
22:AV:76:A:H4'	22:AV:76:A:OP1	2.19	0.42
15:AO:3:ILE:O	15:AO:3:ILE:HG13	2.19	0.42
51:BS:48:LEU:N	51:BS:48:LEU:HD12	2.34	0.42
25:D0:28:GLY:O	35:DA:923:C:O2'	2.31	0.42
36:BB:40:U:H3'	36:BB:41:U:H5''	2.00	0.42
41:BG:53:LEU:HD12	41:BG:56:ALA:CB	2.50	0.42
41:BG:39:ILE:HG12	41:BG:92:VAL:HG22	2.01	0.42
10:AJ:30:SER:HA	10:AJ:80:LYS:CE	2.49	0.42
35:DA:1657:C:H4'	39:DE:133:LYS:HG2	2.02	0.42
24:AY:122:TRP:O	24:AY:124:GLN:N	2.51	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:238:THR:HG22	24:AY:241:GLU:CB	2.49	0.42
40:BF:116:ASP:OD2	48:BP:5:ASP:N	2.52	0.42
48:BP:5:ASP:OD2	48:BP:9:ASN:ND2	2.51	0.42
53:DU:83:LEU:CD1	53:DU:113:ALA:HB2	2.49	0.42
33:B8:56:GLU:O	33:B8:59:LYS:CE	2.65	0.42
57:DY:88:LYS:HE2	57:DY:93:GLY:HA3	2.00	0.42
40:DF:118:ALA:O	40:DF:121:GLY:N	2.51	0.42
40:DF:198:ALA:HA	40:DF:201:VAL:HG12	2.00	0.42
33:D8:32:LEU:H	33:D8:32:LEU:CD2	2.32	0.42
30:D5:44:THR:CG2	30:D5:45:VAL:N	2.79	0.42
35:DA:1502:C:H2'	35:DA:1503:U:C6	2.54	0.42
35:BA:1453:U:OP1	50:BR:63:ARG:NH2	2.52	0.42
50:BR:82:GLU:O	50:BR:84:ALA:N	2.52	0.42
22:CW:20:G:C4	35:DA:2169:A:C2	3.08	0.42
35:BA:1814:G:C4'	38:BD:51:VAL:HG21	2.49	0.42
35:DA:1858:G:OP2	35:DA:1858:G:H8	2.03	0.42
48:DP:98:GLU:H	48:DP:101:VAL:HG13	1.83	0.42
48:BP:144:GLU:N	48:BP:145:PRO:HD3	2.34	0.42
2:CB:204:ASN:ND2	2:CB:207:ALA:H	2.17	0.42
44:BK:103:GLN:C	44:BK:106:GLU:HG2	2.39	0.42
35:DA:1493:C:H4'	35:DA:1494:A:OP2	2.19	0.42
39:BE:31:CYS:HA	39:BE:32:PRO:HD3	1.83	0.42
39:BE:50:GLY:CA	39:BE:74:PRO:HG3	2.49	0.42
35:BA:2298:A:H2'	35:BA:2299:G:O4'	2.20	0.42
35:BA:2713:A:OP2	35:BA:2713:A:H4'	2.19	0.42
58:DZ:14:LYS:HB2	58:DZ:17:ALA:HB3	2.01	0.42
35:BA:2849:U:H4'	35:BA:2868:A:C2	2.54	0.42
49:BQ:70:PRO:HA	49:BQ:95:ALA:HB2	2.01	0.42
35:DA:1062:G:H22	35:DA:1077:A:H1'	1.85	0.42
2:AB:17:PHE:O	2:AB:18:GLY:O	2.36	0.42
2:AB:55:PHE:HE1	2:AB:218:ALA:HA	1.84	0.42
24:AY:335:LEU:CD2	24:AY:355:LEU:HD11	2.49	0.42
24:AY:97:SER:O	24:AY:100:VAL:CG1	2.67	0.42
25:D0:37:LEU:N	25:D0:59:LEU:O	2.49	0.42
42:BH:43:VAL:CG1	42:BH:51:ARG:O	2.68	0.42
35:DA:1826:G:H2'	35:DA:1827:C:H6	1.85	0.42
26:D1:84:GLY:O	26:D1:86:SER:OG	2.35	0.42
42:DH:70:THR:C	42:DH:72:ILE:N	2.72	0.42
42:DH:83:TYR:HB3	42:DH:134:SER:CA	2.40	0.42
24:CY:510:VAL:HG13	24:CY:569:ASP:O	2.19	0.42
35:BA:1609:A:H1'	35:BA:1616:A:C1'	2.49	0.42
58:BZ:109:ALA:O	58:BZ:111:VAL:N	2.52	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
58:BZ:111:VAL:O	58:BZ:112:ARG:CB	2.68	0.42
9:AI:84:ALA:O	9:AI:86:VAL:N	2.52	0.42
35:BA:1539:G:N1	35:BA:1540:U:O2	2.52	0.42
38:DD:155:LEU:CD1	38:DD:155:LEU:N	2.82	0.42
24:CY:31:ARG:HA	24:CY:31:ARG:HD3	1.84	0.42
4:CD:91:SER:O	4:CD:92:VAL:C	2.56	0.42
35:BA:1478:G:O2'	35:BA:1558:A:C2	2.72	0.42
1:CA:178:C:C2'	1:CA:179:A:H5'	2.49	0.42
1:AA:309:G:H1'	1:AA:608:A:H2	1.81	0.42
4:AD:61:LYS:HG3	4:AD:203:VAL:HG13	2.01	0.42
35:DA:1276:A:C1'	50:DR:16:HIS:HE1	2.31	0.42
50:DR:12:ARG:CG	50:DR:12:ARG:NH1	2.81	0.42
56:DX:63:LYS:HB3	56:DX:72:LYS:HG2	2.01	0.42
9:CI:43:ALA:O	9:CI:45:ALA:N	2.53	0.42
1:CA:1000:U:H6	1:CA:1000:U:H3'	1.84	0.42
12:CL:105:TYR:CD2	12:CL:105:TYR:N	2.87	0.42
11:AK:126:ARG:O	11:AK:127:LYS:C	2.57	0.42
24:CY:351:ARG:O	24:CY:351:ARG:HG3	2.18	0.42
42:BH:94:TYR:O	42:BH:95:ARG:HB3	2.18	0.42
35:BA:799:G:C3'	35:BA:800:A:H5''	2.46	0.42
35:BA:1430:C:H42	35:BA:1563:G:H1	1.67	0.42
35:DA:2794:C:N4	35:DA:2801(A):A:H61	2.14	0.42
48:DP:110:TYR:O	48:DP:111:ARG:O	2.38	0.42
5:AE:144:THR:C	5:AE:146:ALA:N	2.70	0.42
9:AI:42:ARG:O	9:AI:43:ALA:C	2.57	0.42
28:B3:6:VAL:HG23	28:B3:6:VAL:O	2.18	0.42
35:BA:483:A:C2	35:BA:484:C:C1'	3.03	0.42
32:B7:46:VAL:CG1	32:B7:47:ARG:H	2.33	0.42
35:BA:1342:A:C2	35:BA:1345:C:C5	3.08	0.42
56:BX:77:LYS:O	56:BX:77:LYS:HG2	2.19	0.42
55:DW:72:LYS:H	55:DW:107:LEU:HA	1.85	0.42
37:DC:225:ILE:C	37:DC:225:ILE:HD12	2.39	0.42
35:DA:2078:C:C4	35:DA:2079:U:C4	3.07	0.42
35:DA:1509(B):A:H2'	35:DA:1510:G:C8	2.55	0.42
24:CY:685:GLU:HA	24:CY:688:ILE:HD13	2.02	0.42
35:DA:987:G:H2'	35:DA:988:A:O4'	2.19	0.42
37:BC:225:ILE:C	37:BC:225:ILE:HD12	2.40	0.42
7:AG:65:ALA:HB2	7:AG:128:ALA:HB2	2.02	0.42
1:AA:312:C:H2'	1:AA:313:A:C8	2.55	0.42
36:BB:18:G:H2'	36:BB:19:G:C8	2.51	0.42
43:DJ:35:UNK:C	43:DJ:37:UNK:H	2.32	0.42
35:DA:918:A:H1'	36:DB:80:U:O2'	2.19	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:BD:112:GLN:HB2	38:BD:115:GLN:HE21	1.84	0.42
37:BC:11:LEU:C	37:BC:13:GLU:H	2.22	0.42
1:AA:961:U:OP2	1:AA:1223:C:C4'	2.67	0.42
43:DJ:32:UNK:C	43:DJ:33:UNK:O	2.67	0.42
55:BW:79:GLY:C	55:BW:100:THR:CG2	2.87	0.42
35:DA:1635:G:H2'	35:DA:1636:C:H6	1.84	0.42
7:CG:23:VAL:HG13	7:CG:43:PHE:CE2	2.54	0.42
35:BA:1433:U:H1'	35:BA:1561:G:N2	2.34	0.42
36:DB:105:A:P	58:DZ:72:ARG:HH12	2.42	0.42
1:CA:555:C:H2'	1:CA:556:C:H6	1.84	0.42
35:DA:1433:U:H1'	35:DA:1561:G:N2	2.34	0.42
38:DD:4:LYS:NZ	38:DD:20:ASP:HA	2.34	0.42
35:DA:86:C:H4'	35:DA:104:U:O2	2.19	0.42
5:CE:150:ARG:HB2	5:CE:150:ARG:CZ	2.49	0.42
24:CY:610:VAL:CG2	24:CY:643:ILE:HB	2.49	0.42
35:BA:2693:A:H2'	35:BA:2694:G:H8	1.85	0.42
27:D2:27:GLU:O	27:D2:28:LYS:C	2.58	0.42
43:DJ:95:UNK:O	43:DJ:97:UNK:N	2.52	0.42
35:DA:271(M):G:C2'	35:DA:271(N):U:H5''	2.49	0.42
25:B0:28:GLY:O	35:BA:923:C:O2'	2.34	0.42
38:DD:85:ASP:CG	38:DD:88:ARG:HG2	2.40	0.42
1:CA:617:G:H4'	16:CP:44:THR:O	2.19	0.42
35:BA:562:U:C4	35:BA:2036:C:H1'	2.55	0.42
35:DA:1632:A:C5	35:DA:1633:G:C6	3.08	0.42
17:CQ:51:TYR:CZ	17:CQ:73:VAL:HG11	2.54	0.42
35:DA:654(B):C:H2'	35:DA:654(C):G:C8	2.55	0.42
35:BA:2341:G:H2'	35:BA:2342:C:C6	2.54	0.42
35:DA:975:C:H4'	35:DA:975:C:OP2	2.19	0.42
55:DW:61:ASN:HA	55:DW:61:ASN:HD22	1.62	0.42
35:BA:1960:A:H8	35:BA:1960:A:H5''	1.85	0.42
24:CY:268:GLY:HA2	24:CY:271:LEU:HD12	2.02	0.42
24:CY:409:ILE:HD13	24:CY:409:ILE:HA	1.82	0.42
40:BF:157:VAL:HA	40:BF:176:LEU:O	2.18	0.42
35:DA:2578:G:N2	35:DA:2579:C:C2	2.88	0.42
24:AY:260:LEU:O	24:AY:268:GLY:HA3	2.19	0.42
61:AY:702:FUA:H323	61:AY:702:FUA:C15	2.49	0.42
31:B6:11:LEU:CB	31:B6:26:ASN:HD21	2.32	0.42
31:B6:8:LYS:HZ1	35:BA:2285:C:H5	1.58	0.42
33:B8:37:SER:O	33:B8:38:GLY:C	2.56	0.42
58:DZ:9:TYR:HB3	58:DZ:35:ARG:NH2	2.33	0.42
19:CS:35:SER:C	19:CS:37:ARG:H	2.22	0.42
40:DF:181:LEU:O	40:DF:205:ARG:NH1	2.53	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:DF:124:LEU:CD2	40:DF:191:ARG:HH21	2.32	0.42
36:DB:42:C:C5'	41:DG:67:LYS:HD2	2.49	0.42
41:DG:39:ILE:HD11	41:DG:92:VAL:CG2	2.50	0.42
10:CJ:32:ALA:CB	10:CJ:76:ASN:HB3	2.49	0.42
37:DC:115:VAL:HA	37:DC:145:THR:CG2	2.48	0.42
37:DC:132:LEU:HB3	37:DC:137:LEU:C	2.40	0.42
5:CE:142:LEU:O	5:CE:143:ARG:CD	2.67	0.42
5:CE:82:VAL:HG21	5:CE:138:ALA:CA	2.41	0.42
9:AI:16:ARG:O	9:AI:63:ILE:HG23	2.20	0.42
3:CC:155:GLY:O	3:CC:156:ARG:CB	2.67	0.42
44:DK:93:ARG:HB2	58:DZ:112:ARG:NH2	2.35	0.42
35:DA:1803:A:C8	35:DA:1804:C:C5	3.07	0.42
44:DK:100:THR:CA	44:DK:139:VAL:HB	2.43	0.42
35:BA:27:G:H1'	35:BA:513:A:H62	1.84	0.42
35:DA:1782:C:O5'	35:DA:1782:C:H6	2.02	0.42
2:CB:97:TRP:CZ3	2:CB:173:ALA:HA	2.54	0.42
35:BA:1858:G:H8	35:BA:1858:G:OP2	2.02	0.42
46:BN:130:HIS:O	46:BN:130:HIS:CG	2.73	0.42
40:BF:83:PHE:O	40:BF:84:VAL:C	2.57	0.42
39:DE:56:PRO:O	39:DE:57:LYS:O	2.36	0.42
35:BA:2206:G:H21	35:BA:2207:G:H4'	1.84	0.42
51:DS:74:ALA:HB2	51:DS:101:LEU:HD22	2.01	0.42
35:DA:1142(A):A:C6	35:DA:1144:G:C5	3.07	0.42
1:CA:322:C:H41	1:CA:328:C:H6	1.66	0.42
4:AD:129:ASN:N	4:AD:129:ASN:ND2	2.68	0.42
24:AY:329:ARG:HG3	24:AY:331:TYR:CZ	2.54	0.42
30:B5:42:PRO:O	30:B5:43:HIS:HB2	2.20	0.42
5:CE:7:GLU:HB3	5:CE:35:GLY:O	2.20	0.42
25:D0:49:LYS:HG3	25:D0:80:HIS:ND1	2.34	0.42
33:D8:39:LYS:HE3	35:DA:2365:G:O6	2.19	0.42
17:CQ:52:LYS:N	17:CQ:52:LYS:HD2	2.20	0.42
26:D1:53:VAL:HG11	26:D1:90:ILE:HG21	2.02	0.42
22:CW:73:A:C2'	22:CW:74:A:O5'	2.68	0.42
13:CM:19:LEU:CD2	13:CM:19:LEU:H	2.32	0.42
25:B0:51:VAL:HG12	25:B0:59:LEU:HD22	2.02	0.42
44:BK:93:ARG:HD2	44:BK:93:ARG:O	2.20	0.42
13:AM:19:LEU:H	13:AM:19:LEU:CD2	2.32	0.42
35:BA:2126:A:H1'	35:BA:2127:G:O4'	2.20	0.42
27:B2:47:ASN:O	27:B2:49:LYS:N	2.53	0.42
19:AS:9:VAL:C	19:AS:11:VAL:N	2.73	0.42
35:DA:1478:G:O2'	35:DA:1558:A:C2	2.72	0.42
9:CI:11:LYS:O	9:CI:12:GLU:HB2	2.20	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:BN:35:ARG:HB3	46:BN:42:TRP:CZ3	2.55	0.42
1:AA:1122:U:H2'	1:AA:1123:A:H5'	2.01	0.42
7:CG:153:HIS:CE1	11:CK:58:PRO:HD2	2.55	0.42
35:DA:2147:G:H2'	35:DA:2148:G:C4'	2.50	0.42
35:BA:294:A:N6	35:BA:345:A:H1'	2.35	0.42
37:DC:102:GLN:O	37:DC:105:LEU:N	2.53	0.42
35:DA:817:C:O2'	35:DA:839:U:OP1	2.37	0.42
24:CY:15:ILE:O	24:CY:81:ILE:HG23	2.20	0.42
42:BH:18:GLU:CB	42:BH:25:LYS:HB2	2.43	0.42
42:DH:103:LEU:HD12	42:DH:104:GLU:N	2.35	0.42
24:AY:442:THR:HG23	24:AY:447:GLY:O	2.19	0.42
47:BO:31:LYS:HB3	47:BO:32:TYR:CE1	2.54	0.42
32:B7:27:GLY:HA2	32:B7:30:VAL:CG2	2.50	0.42
35:BA:1265:A:H5'	35:BA:1267:U:C1'	2.46	0.42
35:DA:696:G:C2	35:DA:767:U:O2	2.73	0.42
1:CA:356:A:H2'	1:CA:357:G:H8	1.85	0.42
35:DA:2033:A:O2'	35:DA:2034:U:P	2.78	0.42
3:AC:123:GLN:HB3	3:AC:128:PHE:CD2	2.44	0.42
3:CC:137:ALA:HA	3:CC:140:ARG:HH22	1.83	0.42
1:AA:1104:G:O2'	1:AA:1105:A:H5'	2.20	0.42
37:BC:117:THR:O	37:BC:120:VAL:HG22	2.19	0.42
37:BC:78:ILE:HG21	37:BC:124:VAL:CG2	2.49	0.42
35:BA:2078:C:C4	35:BA:2079:U:C4	3.08	0.42
49:DQ:75:THR:HG22	49:DQ:76:LYS:H	1.82	0.42
35:BA:2552:U:H2'	35:BA:2554:U:H5''	2.01	0.42
4:CD:102:ASP:HA	4:CD:121:VAL:HG21	2.00	0.42
36:BB:30:C:OP2	51:BS:32:LEU:HD21	2.20	0.42
16:CP:9:PHE:HE2	16:CP:18:ARG:HD2	1.83	0.42
50:BR:24:GLN:HB2	50:BR:44:LEU:HD23	2.01	0.42
1:CA:201:C:C3'	1:CA:202:U:H5''	2.50	0.42
35:DA:2553:G:H2'	35:DA:2554:U:C4'	2.49	0.42
57:BY:103:GLY:O	57:BY:105:ALA:N	2.52	0.42
1:AA:499:A:O2'	1:AA:500:G:C8	2.64	0.42
35:DA:1362:C:H2'	35:DA:1363:C:C6	2.55	0.42
1:AA:954:G:H2'	1:AA:955:U:H6	1.83	0.42
35:BA:1006:C:O2'	46:BN:106:MET:HB3	2.18	0.42
35:BA:201:C:C5	35:BA:202:U:C5	3.08	0.42
7:AG:118:VAL:O	7:AG:121:ALA:HB3	2.20	0.42
41:DG:18:GLU:HG2	41:DG:175:LEU:HD13	2.02	0.42
37:BC:7:ARG:O	37:BC:11:LEU:HG	2.20	0.42
41:DG:147:ASP:C	41:DG:149:VAL:N	2.73	0.42
35:BA:2422:A:H8	35:BA:2422:A:H3'	1.84	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:CV:74:C:H2'	22:CV:75:C:C5'	2.49	0.42
1:AA:28:G:O2'	1:AA:296:U:OP1	2.35	0.42
1:CA:238:G:P	17:CQ:25:ARG:HH22	2.43	0.42
35:DA:1133:U:O2	35:DA:1137:G:C5'	2.68	0.42
3:AC:127:ARG:NH1	3:AC:127:ARG:HG2	2.34	0.42
47:BO:88:ASN:O	47:BO:90:GLN:N	2.53	0.42
35:DA:349:G:C2'	35:DA:350:U:H5'	2.50	0.42
6:AF:100:ASN:O	18:AR:28:GLU:HG2	2.18	0.42
53:DU:37:GLU:O	53:DU:40:PHE:HB2	2.19	0.42
34:D9:16:VAL:O	35:DA:1033:U:H5	2.03	0.42
35:DA:1771:C:H2'	35:DA:1772:G:H8	1.85	0.42
38:DD:138:VAL:HA	38:DD:165:ILE:CG2	2.50	0.42
35:DA:1805:U:H2'	35:DA:1806:C:C6	2.55	0.42
1:AA:1338:G:H2'	1:AA:1339:A:C8	2.55	0.42
1:AA:745:C:H2'	1:AA:746:A:C8	2.54	0.42
1:AA:1399:C:C2	1:AA:1401:G:C5	3.08	0.42
15:CO:69:TYR:CZ	15:CO:73:GLU:HG3	2.54	0.42
2:AB:52:GLU:O	2:AB:56:ARG:HG2	2.20	0.42
1:CA:1483:A:H2'	1:CA:1484:C:O4'	2.19	0.42
35:BA:868:U:C4	35:BA:869:G:N7	2.88	0.42
11:AK:91:ARG:O	11:AK:91:ARG:HG2	2.20	0.42
12:CL:91:LYS:HE2	12:CL:91:LYS:HB2	1.71	0.42
7:CG:88:PRO:HG2	7:CG:88:PRO:O	2.20	0.42
8:CH:97:VAL:HG13	8:CH:98:LYS:N	2.34	0.42
24:CY:457:LEU:HD23	24:CY:460:GLU:OE1	2.18	0.42
40:BF:124:LEU:CD2	40:BF:191:ARG:HH21	2.32	0.42
24:AY:205:TYR:O	24:AY:206:LEU:C	2.57	0.42
40:BF:31:HIS:O	40:BF:32:LEU:C	2.57	0.42
46:DN:3:THR:CG2	46:DN:4:TYR:H	2.29	0.42
35:BA:1043:C:H2'	35:BA:1044:G:C5'	2.19	0.42
31:B6:9:LEU:CD1	31:B6:26:ASN:HB2	2.49	0.42
33:B8:25:MET:HB3	33:B8:26:LYS:H	1.69	0.42
33:B8:34:TRP:HB2	35:BA:2420:C:OP1	2.20	0.42
48:BP:46:LYS:HG2	48:BP:52:GLU:CG	2.49	0.42
57:DY:13:VAL:HG22	57:DY:14:LEU:N	2.33	0.42
16:CP:58:TYR:CD1	16:CP:59:TRP:N	2.88	0.42
51:BS:14:VAL:CG1	51:BS:16:ASN:HD22	2.32	0.42
31:D6:35:GLU:HB3	31:D6:51:GLU:N	2.35	0.42
29:D4:25:TYR:N	29:D4:25:TYR:CD1	2.87	0.42
36:DB:42:C:N4	41:DG:91:ARG:CZ	2.83	0.42
35:BA:1827:C:H2'	35:BA:1828:G:C5'	2.49	0.42
50:DR:55:ALA:HB2	50:DR:79:LEU:CD1	2.49	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:CC:72:LYS:C	3:CC:72:LYS:HE3	2.40	0.42
35:BA:2015:A:H2'	35:BA:2016:U:O4'	2.19	0.42
35:BA:805:G:H4'	35:BA:806:C:OP2	2.20	0.42
35:BA:2292:C:O2'	35:BA:2293:C:H5'	2.20	0.42
51:BS:98:VAL:O	51:BS:100:ALA:N	2.51	0.42
50:BR:83:ILE:HG22	50:BR:83:ILE:O	2.19	0.42
1:AA:1130:A:H5'	9:AI:18:PHE:HE1	1.84	0.42
3:CC:156:ARG:NH2	3:CC:161:GLU:HA	2.34	0.42
35:DA:1301:A:HO2'	35:DA:1302:A:P	2.41	0.42
49:DQ:61:GLY:O	58:DZ:178:GLU:HB2	2.19	0.42
35:BA:1814:G:H2'	35:BA:1815:A:C8	2.54	0.42
39:DE:145:LYS:O	39:DE:146:THR:C	2.58	0.42
35:DA:637:A:N6	35:DA:652:C:H4'	2.35	0.42
17:AQ:63:ARG:HG2	17:AQ:64:PRO:HD2	2.02	0.42
35:DA:143:G:H2'	35:DA:143(A):C:C6	2.54	0.42
36:DB:40:U:O2'	36:DB:43:C:C5	2.66	0.42
19:AS:19:VAL:HG13	19:AS:44:MET:HG2	2.02	0.42
35:BA:1493:C:C2'	35:BA:1493:C:O2	2.67	0.42
39:BE:78:LEU:O	39:BE:78:LEU:HD12	2.20	0.42
35:BA:1022:G:O2'	35:BA:1023:U:OP2	2.37	0.42
35:DA:1019:U:O2'	35:DA:1021:A:C2	2.71	0.42
2:AB:207:ALA:C	2:AB:209:ARG:N	2.71	0.42
5:CE:11:ILE:HG22	5:CE:12:LEU:N	2.35	0.42
35:DA:2246:G:H2'	35:DA:2247:A:C8	2.55	0.42
35:DA:2103:C:H3'	35:DA:2104:G:H5''	1.99	0.42
25:D0:59:LEU:HD23	25:D0:59:LEU:HA	1.85	0.42
39:BE:25:VAL:CG1	39:BE:181:LEU:HD12	2.49	0.42
35:DA:980:A:C4	35:DA:1136:G:O4'	2.73	0.42
26:B1:4:VAL:HG21	26:B1:11:ARG:HH11	1.84	0.42
2:AB:32:ILE:O	2:AB:32:ILE:HG23	2.19	0.42
30:D5:36:CYS:HG	30:D5:49:CYS:HB3	1.85	0.42
24:CY:170:ARG:O	24:CY:171:GLU:CG	2.68	0.42
42:DH:162:ILE:O	42:DH:162:ILE:HG13	2.20	0.42
52:DT:108:ARG:HA	52:DT:111:ARG:HH11	1.85	0.42
24:CY:232:LEU:N	24:CY:232:LEU:HD13	2.35	0.42
58:BZ:71:VAL:HG11	58:BZ:74:VAL:HG23	2.01	0.42
55:DW:44:ALA:O	55:DW:47:VAL:N	2.52	0.42
37:BC:101:ILE:HG23	37:BC:128:LEU:HD21	2.01	0.42
37:BC:126:SER:C	37:BC:128:LEU:H	2.22	0.42
36:DB:96:U:H2'	36:DB:97:G:C8	2.54	0.42
35:DA:802:A:C5	35:DA:803:U:C4	3.08	0.42
35:DA:285:C:H2'	35:DA:286:C:C5'	2.48	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2665:A:H2'	35:DA:2666:C:O4'	2.20	0.42
4:AD:179:GLU:C	4:AD:181:MET:H	2.23	0.42
35:BA:750:A:C3'	35:BA:751:A:H5''	2.48	0.42
16:CP:53:VAL:CG2	16:CP:54:GLU:N	2.82	0.42
49:DQ:37:LEU:HG	49:DQ:129:THR:HA	2.02	0.42
1:AA:1475:G:OP1	35:BA:1689:A:H1'	2.19	0.42
1:AA:1134:G:H2'	1:AA:1135:U:H5'	2.01	0.42
1:AA:271:C:H2'	1:AA:272:C:H6	1.84	0.42
1:AA:1423:G:P	47:BO:49:ARG:HH22	2.42	0.42
12:CL:47:LYS:NZ	12:CL:48:PRO:HD3	2.34	0.42
35:BA:953:A:H2'	35:BA:954:G:H8	1.84	0.42
58:BZ:29:TYR:O	58:BZ:30:ASN:CB	2.68	0.42
52:BT:74:ARG:C	52:BT:75:ILE:HD12	2.40	0.42
36:DB:77:U:P	58:DZ:19:ARG:HH22	2.43	0.42
35:DA:2033:A:HO2'	35:DA:2034:U:P	2.43	0.42
35:BA:2428:G:C5'	35:BA:2429:G:OP1	2.67	0.42
3:AC:134:ILE:O	3:AC:135:LYS:C	2.58	0.42
39:DE:183:LEU:N	39:DE:183:LEU:HD12	2.35	0.42
35:BA:1638:C:O2'	35:BA:1639:U:H5'	2.19	0.42
5:AE:153:LYS:H	8:AH:64:LYS:HZ3	1.68	0.42
35:DA:271(J):C:C2'	35:DA:271(J):C:O2	2.63	0.42
35:DA:784:A:HO2'	35:DA:785:G:H8	1.66	0.42
35:DA:1278:A:C5'	50:DR:36:THR:HG22	2.48	0.42
36:BB:56:G:H4'	41:BG:27:ASN:HD21	1.83	0.42
35:BA:1343:G:N3	35:BA:1384:A:H2	2.18	0.42
35:BA:1230:C:H2'	35:BA:1231:G:H8	1.84	0.42
20:CT:94:ALA:O	20:CT:95:ALA:HB3	2.20	0.42
35:DA:1329:U:H5'	35:DA:1330:C:C5	2.49	0.42
42:BH:70:THR:C	42:BH:72:ILE:N	2.72	0.42
1:AA:1332:A:H2'	1:AA:1333:A:H8	1.84	0.42
35:DA:1416:G:H1'	35:DA:1417:C:C5	2.54	0.42
35:BA:2840:C:H2'	35:BA:2841:C:C6	2.54	0.42
7:AG:65:ALA:HA	7:AG:128:ALA:CA	2.49	0.42
11:AK:79:SER:CB	11:AK:106:LYS:HD2	2.50	0.42
7:AG:38:LEU:O	7:AG:38:LEU:HD12	2.20	0.42
1:AA:807:A:C5	1:AA:808:C:C4	3.08	0.42
24:AY:580:MET:SD	35:BA:1913:A:N6	2.93	0.42
1:CA:329:A:H3'	1:CA:330:C:H5'	2.00	0.42
25:B0:23:VAL:HG13	25:B0:38:VAL:HG22	2.02	0.42
6:AF:29:ALA:O	6:AF:30:LEU:C	2.58	0.42
1:CA:15:G:H4'	5:CE:24:ARG:HH12	1.84	0.42
35:DA:444:C:H2'	35:DA:445:C:C6	2.54	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:685:A:C6	35:DA:774:A:C2	3.08	0.42
13:AM:72:ALA:O	13:AM:75:ALA:N	2.53	0.42
8:CH:19:VAL:CG2	8:CH:21:LYS:HB2	2.50	0.42
9:AI:117:HIS:C	9:AI:118:LYS:HG3	2.40	0.42
9:CI:117:HIS:O	9:CI:118:LYS:HG3	2.19	0.42
1:CA:341:C:O2	1:CA:349:A:C2	2.73	0.42
9:CI:35:GLU:HA	9:CI:38:GLN:HB2	2.02	0.42
35:DA:2154:G:C2	35:DA:2155:G:C4	3.08	0.42
46:DN:38:HIS:O	53:DU:67:ALA:HB1	2.20	0.42
35:DA:2701:C:H2'	35:DA:2702:U:H2'	2.02	0.42
35:BA:696:G:C2	35:BA:767:U:O2	2.72	0.42
35:BA:823:G:C6	35:BA:824:A:C6	3.07	0.42
50:BR:56:LYS:HE2	50:BR:88:ARG:N	2.35	0.42
35:BA:2516:G:C6	35:BA:2517:C:C4	3.08	0.42
50:DR:56:LYS:C	50:DR:58:GLY:H	2.22	0.42
15:CO:48:LYS:HD3	15:CO:48:LYS:HA	1.74	0.42
35:DA:2361:A:N3	35:DA:2361:A:H2'	2.35	0.42
11:CK:22:HIS:CD2	11:CK:22:HIS:C	2.92	0.42
42:DH:97:ARG:HG2	42:DH:97:ARG:O	2.20	0.42
24:CY:519:ARG:CZ	24:CY:677:GLN:HA	2.50	0.42
40:BF:206:ILE:CG2	40:BF:207:GLY:H	2.31	0.42
24:AY:21:ILE:CG1	35:BA:2661:G:H5''	2.40	0.42
35:BA:1009:A:H1'	53:BU:59:ARG:NH1	2.34	0.42
53:BU:92:ARG:CZ	54:BV:11:GLN:H	2.32	0.42
54:BV:38:LEU:HD12	54:BV:56:SER:CA	2.50	0.42
35:DA:1747(A):G:C2'	35:DA:1748:G:C5'	2.76	0.42
35:DA:2131:G:C8	35:DA:2133:G:N2	2.88	0.42
35:DA:2131:G:C8	35:DA:2133:G:C2	3.08	0.42
19:CS:37:ARG:HG3	19:CS:37:ARG:H	1.43	0.42
57:DY:80:GLY:O	57:DY:81:LYS:O	2.38	0.42
38:BD:34:VAL:O	38:BD:36:PRO:HD2	2.19	0.42
35:BA:84:A:N3	35:BA:85:G:H1'	2.34	0.42
40:DF:110:LEU:HD13	40:DF:202:PHE:HE1	1.84	0.42
40:DF:121:GLY:C	40:DF:123:LEU:H	2.23	0.42
33:D8:26:LYS:HE2	33:D8:47:LYS:HD2	2.01	0.42
13:CM:5:ALA:O	41:DG:113:ARG:NH1	2.53	0.42
41:DG:117:PHE:CE1	41:DG:119:GLY:HA2	2.55	0.42
41:DG:142:PRO:HG2	41:DG:143:GLU:CD	2.39	0.42
58:BZ:168:GLU:HA	58:BZ:168:GLU:OE2	2.20	0.42
38:BD:242:ARG:HB2	38:BD:243:GLY:H	1.59	0.42
35:BA:1902:C:H1'	38:BD:244:ARG:HG3	2.01	0.42
30:D5:44:THR:HG21	50:DR:101:ALA:CB	2.28	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
50:DR:79:LEU:HD22	50:DR:83:ILE:HB	2.01	0.42
41:DG:38:VAL:CG1	41:DG:93:THR:HA	2.49	0.42
41:BG:131:TYR:HE2	41:BG:133:LEU:CB	2.27	0.42
50:BR:76:VAL:CG1	50:BR:77:ARG:N	2.82	0.42
1:AA:1129:C:O2'	1:AA:1130:A:O5'	2.38	0.42
35:BA:583:G:C5	35:BA:584:C:C5	3.07	0.42
5:CE:50:GLU:CG	5:CE:52:PRO:HD2	2.34	0.42
35:BA:2507:C:H2'	35:BA:2508:G:H8	1.84	0.42
33:B8:61:LEU:HG	33:B8:61:LEU:H	1.33	0.42
44:BK:103:GLN:HA	44:BK:106:GLU:OE2	2.19	0.42
35:BA:1142(A):A:C6	35:BA:1144:G:C5	3.08	0.42
38:BD:270:ILE:HD12	38:BD:270:ILE:N	2.35	0.42
20:AT:30:LYS:HZ2	20:AT:34:LYS:CE	2.33	0.42
2:AB:235:SER:OG	2:AB:236:TYR:N	2.49	0.42
2:AB:81:VAL:O	2:AB:82:ARG:C	2.58	0.42
10:CJ:50:ILE:HD11	14:CN:41:ARG:HH11	1.79	0.42
47:BO:69:ILE:HB	47:BO:77:ILE:CG2	2.49	0.42
35:BA:2795:G:N2	35:BA:2796:U:H5	2.14	0.42
26:D1:83:GLU:OE2	26:D1:83:GLU:C	2.58	0.42
25:D0:41:ARG:O	25:D0:42:GLY:O	2.37	0.42
42:DH:72:ILE:O	42:DH:73:ALA:C	2.58	0.42
22:CV:56:C:C2	41:DG:83:ARG:HG2	2.55	0.42
24:CY:512:ILE:N	24:CY:512:ILE:CD1	2.82	0.42
35:BA:1678:G:N2	35:BA:1989:G:N2	2.57	0.42
27:D2:48:HIS:HA	27:D2:51:ARG:HG2	2.01	0.42
55:DW:50:VAL:HG13	55:DW:51:LEU:N	2.33	0.42
1:CA:1284:C:O5'	1:CA:1284:C:H6	2.03	0.42
9:CI:125:TYR:CD2	9:CI:126:SER:N	2.87	0.42
50:BR:10:LEU:CB	50:BR:17:ARG:HD3	2.41	0.42
35:BA:598:G:H5'	48:BP:15:ARG:CB	2.43	0.42
51:DS:67:ARG:NH2	51:DS:100:ALA:HB3	2.34	0.42
19:AS:11:VAL:HG23	19:AS:38:SER:HB2	2.02	0.42
12:AL:6:THR:H	12:AL:9:GLN:NE2	2.16	0.42
35:BA:862:G:H2'	35:BA:863:A:O4'	2.20	0.42
39:BE:96:PHE:O	39:BE:175:VAL:HG11	2.20	0.42
22:AV:35:A:C2	23:AX:18:G:C2	3.08	0.42
1:CA:1115:C:C4	1:CA:1116:C:C5	3.07	0.42
36:BB:111:G:O2'	36:BB:112:U:H5'	2.20	0.42
42:BH:152:ARG:O	42:BH:153:LYS:C	2.56	0.42
37:BC:101:ILE:O	37:BC:101:ILE:HG22	2.19	0.42
37:BC:127:LYS:O	37:BC:128:LEU:CG	2.67	0.42
20:AT:89:ARG:HD2	20:AT:104:LEU:CD1	2.49	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
15:CO:56:LEU:HD21	35:DA:715:G:C2	2.54	0.42
35:DA:877:U:C2'	35:DA:878:A:H5''	2.50	0.42
1:AA:178:C:C2'	1:AA:179:A:H5'	2.49	0.42
4:CD:62:GLN:O	4:CD:66:ARG:HD2	2.19	0.42
55:BW:44:ALA:O	55:BW:47:VAL:N	2.53	0.42
12:AL:47:LYS:NZ	12:AL:48:PRO:HD3	2.35	0.42
35:DA:781:A:H2	35:DA:1776:G:N3	2.18	0.42
35:DA:694:U:H2'	35:DA:695:G:O5'	2.20	0.42
12:CL:98:TYR:CD1	12:CL:98:TYR:N	2.88	0.42
3:AC:139:GLN:O	3:AC:140:ARG:C	2.57	0.42
39:DE:25:VAL:CG1	39:DE:181:LEU:HD12	2.48	0.42
35:DA:2688:U:H1'	35:DA:2721:A:H61	1.82	0.42
35:DA:464:U:H2'	35:DA:465:G:O4'	2.19	0.42
46:BN:125:GLY:HA3	46:BN:126:PRO:O	2.20	0.42
1:AA:658:G:C6	1:AA:749:C:N4	2.87	0.42
57:BY:51:VAL:HG12	57:BY:53:PRO:CD	2.48	0.42
35:DA:605:C:C4	35:DA:606:U:C5	3.08	0.42
39:BE:101:ARG:CZ	39:BE:171:GLU:HB2	2.49	0.42
27:B2:58:ALA:O	27:B2:61:LEU:N	2.53	0.42
39:BE:142:GLY:C	39:BE:143:ASN:ND2	2.73	0.42
39:DE:101:ARG:HG3	39:DE:169:ASN:ND2	2.35	0.42
41:DG:13:GLU:O	41:DG:14:GLU:CB	2.68	0.42
54:DV:13:ARG:CG	54:DV:13:ARG:HH11	2.33	0.42
54:BV:13:ARG:CG	54:BV:13:ARG:HH11	2.33	0.42
7:AG:64:GLN:HG2	7:AG:128:ALA:HB1	2.01	0.42
35:DA:1841:U:H2'	35:DA:1842:G:H8	1.84	0.42
56:DX:18:TYR:HA	56:DX:21:PHE:CE1	2.55	0.42
6:CF:12:PRO:HG3	6:CF:55:ASP:OD1	2.19	0.42
8:CH:20:TYR:CE2	8:CH:75:ARG:HB3	2.55	0.42
8:CH:66:GLY:O	8:CH:76:PRO:CB	2.68	0.42
11:AK:21:ILE:HG13	11:AK:30:VAL:CG1	2.49	0.42
35:BA:987:G:H2'	35:BA:988:A:O4'	2.20	0.42
35:BA:1461:G:H2'	35:BA:1462:C:C6	2.54	0.42
1:CA:1009:G:C2	1:CA:1010:G:C8	3.08	0.42
47:DO:52:VAL:C	47:DO:53:LYS:HG3	2.39	0.42
43:DJ:144:UNK:C	43:DJ:146:UNK:N	2.82	0.42
37:DC:10:ALA:O	37:DC:13:GLU:HG2	2.20	0.42
46:DN:34:LEU:HD13	46:DN:34:LEU:HA	1.88	0.42
16:CP:1:MET:SD	16:CP:3:LYS:HE3	2.59	0.42
35:DA:1666:G:O2'	35:DA:1667:G:H5'	2.20	0.42
16:AP:1:MET:HG3	16:AP:65:GLN:HG3	2.00	0.42
3:AC:29:TYR:CG	14:AN:36:PHE:HE1	2.38	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:290:LYS:HD3	24:AY:298:VAL:HG21	2.02	0.42
8:AH:30:ARG:CB	8:AH:30:ARG:NH1	2.83	0.42
21:AU:10:ARG:HA	21:AU:13:ILE:HD12	2.00	0.42
1:CA:532:A:C2'	1:CA:533:A:OP1	2.68	0.42
40:BF:109:GLY:HA2	40:BF:112:MET:HB2	2.01	0.42
44:DK:104:VAL:CG2	44:DK:127:ILE:HB	2.50	0.42
24:AY:484:ARG:HD2	24:AY:559:PRO:HB2	2.02	0.42
1:CA:784:C:H4'	35:DA:1837:C:OP1	2.20	0.42
20:AT:81:LYS:C	20:AT:83:ARG:H	2.23	0.42
24:CY:443:HIS:CD2	24:CY:450:ILE:HD11	2.55	0.42
8:AH:99:GLU:O	8:AH:100:ILE:C	2.58	0.42
1:AA:151:A:C2'	1:AA:152:A:H5'	2.49	0.42
43:BJ:37:UNK:C	43:BJ:39:UNK:N	2.83	0.42
55:DW:62:HIS:O	55:DW:63:ASP:C	2.58	0.42
9:AI:97:LYS:N	9:AI:98:PRO:CD	2.83	0.42
36:BB:58:A:H2'	36:BB:59:A:O4'	2.19	0.42
35:BA:864:G:H21	35:BA:866:A:H61	1.67	0.42
35:DA:2684:U:H2'	35:DA:2685:G:O4'	2.20	0.42
52:BT:78:LEU:HD22	52:BT:78:LEU:O	2.19	0.42
58:DZ:85:HIS:ND1	58:DZ:86:VAL:N	2.67	0.42
24:AY:354:ARG:O	24:AY:378:VAL:HG23	2.20	0.42
24:AY:537:GLU:H	24:AY:537:GLU:HG3	1.57	0.42
24:AY:34:TYR:O	24:AY:38:ARG:HB2	2.19	0.42
2:AB:160:ASP:O	2:AB:161:ALA:HB2	2.20	0.42
8:CH:11:THR:HA	8:CH:14:ARG:NH1	2.34	0.42
35:DA:1204:A:H1'	35:DA:1206:G:N7	2.35	0.42
40:DF:39:TRP:HB2	40:DF:101:LEU:HD22	2.02	0.42
41:BG:54:GLU:C	41:BG:57:ALA:HB3	2.39	0.42
1:CA:979:C:C2'	1:CA:980:C:H5''	2.47	0.42
24:AY:250:THR:C	24:AY:252:ASP:H	2.22	0.42
9:CI:60:ASP:O	9:CI:61:ALA:O	2.37	0.42
35:BA:902:C:H2'	35:BA:903:C:H6	1.85	0.42
54:DV:40:LEU:HD13	54:DV:46:VAL:H	1.84	0.42
35:BA:534:U:O2'	53:BU:49:HIS:CD2	2.72	0.42
61:AY:702:FUA:H231	61:AY:702:FUA:C12	2.45	0.42
58:DZ:29:TYR:CB	58:DZ:34:ASN:CB	2.93	0.42
40:DF:169:ASN:OD1	40:DF:169:ASN:O	2.38	0.42
38:BD:61:LEU:HA	38:BD:61:LEU:HD13	1.76	0.42
1:AA:1002:G:C8	1:AA:1003:G:N7	2.88	0.42
35:BA:212:G:C5'	35:BA:212:G:C8	2.98	0.42
10:CJ:32:ALA:CB	10:CJ:78:ASN:HD21	2.33	0.42
10:CJ:79:ARG:HD3	10:CJ:79:ARG:HA	1.67	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2597:G:H5''	38:DD:243:GLY:HA2	2.02	0.42
37:DC:132:LEU:HD22	37:DC:137:LEU:CB	2.50	0.42
24:CY:33:LEU:CD1	24:CY:36:THR:HG21	2.49	0.42
35:BA:2290:G:H4'	35:BA:2381:C:O2'	2.20	0.42
3:CC:22:TRP:CH2	3:CC:32:LEU:HB2	2.55	0.42
5:CE:92:LYS:HB3	5:CE:119:LEU:HB2	2.01	0.42
35:DA:1301:A:C8	35:DA:1303:G:C8	3.08	0.42
47:BO:60:ALA:HA	47:BO:87:ILE:HD11	2.00	0.42
47:BO:87:ILE:HG22	47:BO:92:GLU:C	2.40	0.42
39:DE:116:VAL:CG2	39:DE:122:PHE:CG	3.03	0.42
35:DA:811:U:C3'	35:DA:812:C:C5'	2.98	0.42
2:CB:142:LEU:HD23	2:CB:142:LEU:O	2.19	0.42
46:BN:43:THR:HG22	46:BN:45:ASN:HD22	1.84	0.42
35:DA:624:C:N4	48:DP:107:LYS:HZ2	2.15	0.42
1:AA:1403:C:O2	1:AA:1403:C:C2'	2.66	0.42
35:BA:624:C:N4	48:BP:107:LYS:HZ2	2.17	0.42
2:CB:17:PHE:O	2:CB:18:GLY:O	2.38	0.42
35:DA:1799:G:H22	35:DA:1818:U:H2'	1.84	0.42
44:BK:6:ALA:HB1	44:BK:8:VAL:HG23	2.01	0.42
39:BE:55:ASN:HA	39:BE:55:ASN:HD22	1.55	0.42
39:BE:56:PRO:O	39:BE:57:LYS:O	2.38	0.42
19:AS:20:LEU:HA	19:AS:23:ASN:CB	2.46	0.42
39:BE:110:GLY:HA2	39:BE:162:ALA:H	1.85	0.42
1:AA:972:C:O2'	10:AJ:55:LYS:HB3	2.20	0.42
35:DA:2295:C:H2'	35:DA:2296:U:C6	2.54	0.42
52:BT:117:ASP:O	52:BT:118:ARG:C	2.58	0.42
35:BA:359:A:H3'	35:BA:360:G:C8	2.55	0.42
35:BA:1348:G:C3'	35:BA:1349:A:H5''	2.49	0.42
24:AY:357:ARG:HG3	24:AY:357:ARG:NH2	2.34	0.42
24:AY:370:LYS:O	24:AY:371:ALA:C	2.58	0.42
35:BA:2837:G:H2'	35:BA:2838:G:H8	1.84	0.42
41:BG:76:SER:OG	41:BG:83:ARG:HB3	2.17	0.42
1:CA:251:G:H4'	1:CA:252:U:O5'	2.19	0.42
1:CA:235:C:C5'	17:CQ:70:ARG:HG2	2.44	0.42
35:BA:545:C:H3'	35:BA:547:A:C5'	2.50	0.42
42:DH:46:GLU:CG	42:DH:51:ARG:HB2	2.50	0.42
2:AB:21:ARG:HA	2:AB:40:HIS:ND1	2.35	0.42
52:DT:10:VAL:C	52:DT:12:SER:H	2.22	0.42
4:CD:98:GLU:CB	4:CD:189:PRO:HG3	2.49	0.42
1:AA:368:U:OP2	24:AY:353:ALA:CB	2.68	0.42
40:DF:160:ASN:ND2	40:DF:162:LEU:HB2	2.31	0.42
35:BA:2467:C:O2	49:BQ:124:LYS:NZ	2.52	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:CD:96:LEU:CD2	4:CD:96:LEU:H	2.26	0.42
51:BS:42:ASP:O	51:BS:43:GLU:CB	2.68	0.42
24:CY:19:ALA:C	24:CY:121:VAL:HG11	2.40	0.42
35:BA:1319:G:C2	35:BA:1334:G:C6	3.08	0.42
35:DA:953:A:H2'	35:DA:954:G:H8	1.85	0.42
9:CI:43:ALA:HA	9:CI:74:ILE:HG21	2.02	0.42
18:CR:51:LEU:HA	18:CR:52:PRO:HD3	1.81	0.42
57:DY:58:GLY:O	57:DY:59:GLY:O	2.38	0.42
13:AM:34:LEU:HA	13:AM:34:LEU:HD23	1.89	0.42
36:BB:96:U:H2'	36:BB:97:G:C8	2.54	0.42
35:DA:914:C:C2'	35:DA:915:C:H5'	2.44	0.42
37:BC:140:ASN:H	37:BC:145:THR:HB	1.85	0.42
8:AH:123:GLU:O	8:AH:126:LYS:HB3	2.20	0.42
46:DN:18:ALA:HB1	46:DN:21:LYS:HB2	2.02	0.42
35:DA:418:G:H2'	35:DA:419:C:H6	1.85	0.42
51:BS:19:LYS:C	51:BS:20:ARG:CZ	2.88	0.42
35:DA:739:G:OP2	35:DA:739:G:H8	2.02	0.42
5:AE:72:GLN:NE2	5:AE:144:THR:HG22	2.33	0.42
13:AM:37:THR:HG21	13:AM:56:LEU:CD2	2.46	0.42
20:AT:84:LEU:C	20:AT:86:ARG:N	2.72	0.42
48:DP:122:PRO:O	48:DP:123:LEU:CB	2.68	0.42
1:AA:666:G:C2	1:AA:667:G:C8	3.08	0.42
3:CC:53:ALA:HB1	3:CC:114:PRO:HB2	2.01	0.42
38:BD:227:ASN:O	38:BD:228:PRO:C	2.58	0.42
35:DA:271(E):U:H3	35:DA:271(S):G:H1	1.68	0.42
1:AA:892:A:O2'	1:AA:1415:G:H4'	2.19	0.42
57:DY:54:LYS:HE2	57:DY:55:TYR:HE2	1.84	0.42
35:BA:223:A:C4	35:BA:422:A:C8	3.08	0.42
35:DA:519:U:H2'	35:DA:520:G:H8	1.85	0.42
1:CA:1429:C:H2'	1:CA:1430:C:H6	1.84	0.42
22:AV:28:C:O2	22:AV:43:A:C2	2.72	0.42
49:BQ:136:ALA:C	49:BQ:138:ASP:H	2.22	0.42
1:CA:807:A:C5	1:CA:808:C:C4	3.08	0.42
32:B7:35:ARG:O	32:B7:38:GLY:N	2.48	0.42
35:DA:438:G:H2'	35:DA:440:G:H8	1.85	0.42
46:BN:109:LYS:HE3	46:BN:109:LYS:H	1.84	0.42
1:CA:1258:G:C6	1:CA:1259:C:N4	2.88	0.42
58:BZ:100:VAL:CG2	58:BZ:126:VAL:HG22	2.50	0.42
35:DA:1565:C:H2'	38:DD:21:PHE:CE1	2.55	0.42
3:AC:54:ARG:HG2	3:AC:54:ARG:NH1	2.34	0.42
35:DA:2193:G:O2'	35:DA:2194:G:H5'	2.20	0.42
35:BA:2693:A:H61	35:BA:2716:U:H3	1.68	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
27:D2:30:ARG:O	27:D2:34:GLU:HB2	2.19	0.42
1:AA:757:U:H2'	1:AA:758:G:O4'	2.20	0.42
50:DR:56:LYS:HE2	50:DR:88:ARG:N	2.35	0.42
35:BA:347:A:H2'	35:BA:348:G:C8	2.55	0.42
52:DT:20:PRO:O	52:DT:22:PHE:HD2	2.03	0.42
45:BL:4:UNK:C	45:BL:6:UNK:N	2.83	0.42
8:CH:91:ARG:CG	8:CH:91:ARG:HH11	2.31	0.42
35:DA:2402:C:C6	35:DA:2402:C:OP2	2.73	0.42
24:CY:434:GLU:O	24:CY:434:GLU:HG2	2.18	0.42
35:BA:2751:G:OP1	35:BA:2751:G:N2	2.52	0.42
9:AI:99:LEU:HD22	9:AI:99:LEU:N	2.34	0.42
22:CV:53:G:O2'	22:CV:54:5MU:H5''	2.20	0.42
16:AP:57:ARG:O	16:AP:58:TYR:C	2.57	0.42
40:DF:22:ALA:C	40:DF:24:LEU:N	2.72	0.42
13:AM:5:ALA:O	41:BG:113:ARG:NH1	2.53	0.42
41:BG:103:LEU:O	41:BG:104:GLU:C	2.58	0.42
41:BG:109:VAL:HG12	41:BG:110:ALA:N	2.35	0.42
10:AJ:32:ALA:CB	10:AJ:76:ASN:HB3	2.50	0.42
39:BE:119:ARG:NH1	39:BE:156:MET:O	2.53	0.42
56:BX:12:VAL:CG1	56:BX:27:THR:O	2.59	0.42
10:CJ:34:VAL:HG13	10:CJ:73:ASP:O	2.19	0.42
24:AY:124:GLN:HE21	24:AY:124:GLN:HB2	1.53	0.42
1:CA:1130:A:H5'	9:CI:18:PHE:HE1	1.85	0.42
54:DV:46:VAL:HG22	54:DV:47:VAL:N	2.25	0.42
40:DF:170:LEU:N	40:DF:170:LEU:CD2	2.83	0.42
57:DY:77:PRO:O	57:DY:78:ALA:CB	2.68	0.42
57:DY:7:VAL:HG21	57:DY:8:LYS:HZ1	1.85	0.42
33:D8:49:VAL:O	33:D8:53:PRO:HD3	2.20	0.42
3:AC:70:VAL:HG21	3:AC:76:VAL:HG11	2.01	0.42
40:BF:167:ALA:C	40:BF:170:LEU:HD23	2.39	0.42
1:CA:1238:A:C8	1:CA:1303:C:H1'	2.55	0.42
35:DA:832:G:OP1	48:DP:40:SER:HB3	2.20	0.42
31:B6:41:PRO:HD3	31:B6:47:THR:HG22	2.02	0.42
51:BS:101:LEU:O	51:BS:102:ALA:O	2.38	0.42
51:BS:35:ILE:HG22	51:BS:53:SER:HB2	2.02	0.42
50:BR:83:ILE:HA	50:BR:86:ARG:HD3	2.01	0.42
5:CE:101:ILE:H	5:CE:101:ILE:CD1	2.26	0.42
46:DN:133:GLN:CG	46:DN:135:PRO:HD3	2.38	0.42
12:AL:54:LYS:O	12:AL:70:ILE:HG12	2.20	0.42
53:BU:12:ARG:O	53:BU:13:LYS:C	2.58	0.42
35:BA:1820:U:OP1	35:BA:1820:U:H6	2.03	0.42
26:B1:78:LYS:O	26:B1:80:LEU:N	2.53	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:CB:81:VAL:O	2:CB:82:ARG:C	2.59	0.42
1:AA:703:G:O2'	1:AA:704:A:P	2.78	0.42
44:BK:27:LEU:HA	44:BK:30:HIS:HB2	2.02	0.42
34:D9:18:ARG:O	34:D9:18:ARG:CG	2.57	0.42
35:BA:968:G:C6	35:BA:969:U:C4	3.08	0.42
40:DF:81:PRO:C	40:DF:83:PHE:N	2.73	0.42
35:DA:360:G:O2'	35:DA:361:G:H5'	2.19	0.42
1:AA:1054:C:O2	1:AA:1054:C:C2'	2.66	0.42
39:BE:79:ARG:HH11	39:BE:79:ARG:HG2	1.85	0.42
35:DA:1016:G:H1	35:DA:1146:C:H42	1.67	0.42
35:DA:2713:A:H4'	35:DA:2713:A:OP2	2.19	0.42
37:DC:149:ASN:ND2	37:DC:149:ASN:C	2.73	0.42
35:DA:190:A:H3'	35:DA:204:A:H61	1.85	0.42
35:DA:977:G:H2'	35:DA:978:G:H8	1.84	0.42
42:BH:46:GLU:H	42:BH:46:GLU:HG2	1.36	0.42
42:BH:54:ARG:HH11	42:BH:54:ARG:HG2	1.84	0.42
35:BA:1325:G:OP2	35:BA:1616:A:H2'	2.20	0.42
35:BA:1608:A:C6	35:BA:1611:C:C2	3.07	0.42
1:CA:1256:A:N6	1:CA:1278:U:H1'	2.35	0.42
35:DA:1654:A:OP1	50:DR:3:HIS:HB2	2.20	0.42
41:DG:5:VAL:H	41:DG:8:LYS:HB3	1.84	0.42
1:AA:624:C:O3'	16:AP:10:GLY:HA2	2.19	0.42
12:AL:6:THR:H	12:AL:9:GLN:HE21	1.68	0.42
58:BZ:25:PRO:O	58:BZ:85:HIS:HA	2.19	0.42
52:DT:33:LYS:NZ	52:DT:43:GLN:NE2	2.67	0.42
1:CA:663:A:C2'	1:CA:664:G:H5'	2.50	0.42
35:DA:239:U:H1'	35:DA:259:G:N2	2.34	0.42
39:BE:4:ILE:HD13	39:BE:28:ALA:HB1	2.01	0.42
23:AX:16:A:H2'	23:AX:17:U:C6	2.55	0.42
24:CY:370:LYS:O	24:CY:371:ALA:C	2.57	0.42
35:BA:1052:C:C6	35:BA:1052:C:C3'	3.02	0.42
24:CY:106:VAL:CG2	24:CY:132:ARG:HG3	2.49	0.42
35:BA:120:U:C2'	35:BA:120:U:O2	2.60	0.42
1:CA:631:G:H5'	1:CA:631:G:C8	2.52	0.42
35:DA:1722:A:C2	35:DA:1740:G:C8	3.08	0.42
32:B7:25:PRO:CA	32:B7:28:ARG:NH2	2.83	0.42
32:D7:8:ASN:HD22	32:D7:9:ARG:H	1.63	0.42
35:DA:2184:G:H2'	35:DA:2185:C:C6	2.54	0.42
35:BA:603:A:O2'	35:BA:604:G:OP1	2.31	0.42
48:BP:89:ALA:HB1	48:BP:121:LYS:HD2	2.02	0.42
58:BZ:17:ALA:O	58:BZ:21:ALA:HB2	2.19	0.42
1:CA:186:C:H2'	1:CA:187:C:C6	2.55	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:724:U:O2'	35:DA:725:G:H5'	2.20	0.42
38:BD:73:VAL:C	38:BD:75:ILE:H	2.24	0.42
38:BD:28:GLU:CD	38:BD:28:GLU:N	2.74	0.42
2:CB:156:LYS:O	2:CB:157:ARG:CB	2.63	0.42
35:BA:1843:C:H5'	38:BD:253:GLN:NE2	2.34	0.42
26:D1:11:ARG:HB2	26:D1:12:PRO:HD2	2.01	0.42
35:DA:1090:U:O2	35:DA:1102:C:H1'	2.19	0.42
35:DA:1570:A:H2'	35:DA:1571:A:C8	2.54	0.42
35:DA:1569:A:O2'	35:DA:1570:A:H5'	2.19	0.42
24:CY:221:ALA:C	24:CY:223:PHE:H	2.22	0.42
35:BA:519:U:H2'	35:BA:520:G:H8	1.84	0.42
35:BA:2033:A:O2'	35:BA:2034:U:P	2.77	0.42
1:CA:402:G:C5	1:CA:403:C:C5	3.08	0.42
1:CA:402:G:C6	1:CA:403:C:C4	3.08	0.42
16:CP:75:ARG:O	16:CP:77:ALA:N	2.51	0.42
1:AA:936:C:O2'	22:AW:35:C:H5'	2.20	0.42
37:DC:7:ARG:O	37:DC:11:LEU:HG	2.19	0.42
1:AA:414:A:O2'	1:AA:415:A:H5'	2.20	0.42
6:AF:20:ALA:O	6:AF:21:LEU:C	2.59	0.42
35:DA:1891:G:O5'	35:DA:1891:G:H8	2.02	0.42
22:AV:39:C:H2'	22:AV:40:C:C6	2.54	0.42
35:DA:1131:G:C2	35:DA:1132:A:C5	3.08	0.42
35:BA:1770:G:C2'	35:BA:1771:C:H5'	2.49	0.42
1:AA:923:A:O2'	1:AA:924:C:H5'	2.20	0.42
4:AD:168:ARG:HD2	4:AD:168:ARG:N	2.33	0.42
8:AH:100:ILE:HA	8:AH:101:PRO:HD3	1.74	0.42
11:CK:93:GLN:O	11:CK:94:ALA:C	2.57	0.42
43:DJ:153:UNK:C	43:DJ:155:UNK:N	2.82	0.42
35:DA:700:G:H2'	35:DA:701:G:H8	1.84	0.42
35:DA:347:A:H2'	35:DA:348:G:C8	2.55	0.42
35:BA:2322:A:O2'	35:BA:2323:G:H5'	2.20	0.42
55:BW:31:GLU:O	55:BW:35:ILE:HG12	2.19	0.42
53:DU:29:SER:OG	53:DU:30:LYS:HE2	2.20	0.42
4:CD:50:ARG:HA	4:CD:51:PRO:HD3	1.90	0.42
35:BA:2825:C:H2'	35:BA:2826:A:O4'	2.20	0.42
40:DF:116:ASP:OD1	40:DF:119:ARG:NH2	2.47	0.41
41:BG:86:MET:N	41:BG:87:PRO:CD	2.75	0.41
10:AJ:32:ALA:HB1	10:AJ:76:ASN:HB3	2.02	0.41
24:CY:407:PRO:O	24:CY:408:VAL:HG13	2.20	0.41
40:BF:28:ILE:N	40:BF:28:ILE:CD1	2.80	0.41
24:AY:9:LEU:HA	24:AY:12:LEU:HD23	2.02	0.41
56:DX:53:LYS:HB3	56:DX:82:GLN:HB3	2.02	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
48:BP:47:ASP:OD1	48:BP:48:PRO:O	2.38	0.41
1:CA:1318:A:C1'	19:CS:37:ARG:HH21	2.06	0.41
35:DA:294:A:N6	35:DA:345:A:H1'	2.35	0.41
38:BD:34:VAL:CG2	38:BD:35:LYS:H	2.04	0.41
35:DA:272(I):U:C5	35:DA:363(A):A:C2	3.07	0.41
40:DF:152:GLU:HB3	40:DF:190:GLU:HB2	2.01	0.41
31:D6:9:LEU:CD1	31:D6:28:ARG:HG2	2.50	0.41
31:D6:9:LEU:HD21	31:D6:26:ASN:HD22	1.84	0.41
1:AA:793:U:C3'	1:AA:794:A:C5'	2.92	0.41
41:DG:46:ALA:C	41:DG:51:ARG:HG3	2.41	0.41
19:CS:50:ALA:O	19:CS:51:VAL:C	2.58	0.41
50:DR:76:VAL:CG1	50:DR:77:ARG:N	2.83	0.41
44:DK:34:ILE:H	44:DK:34:ILE:HG12	1.59	0.41
35:BA:643:A:H2'	35:BA:644:A:O4'	2.20	0.41
35:BA:1453:U:H2'	35:BA:1455:G:C8	2.55	0.41
2:CB:166:ASP:HA	2:CB:167:PRO:HD2	1.93	0.41
48:BP:16:ARG:NH2	48:BP:18:ARG:HG3	2.35	0.41
27:D2:21:LEU:CD1	27:D2:64:LEU:HG	2.50	0.41
47:DO:17:ARG:HH21	47:DO:47:ILE:HD11	1.83	0.41
53:DU:8:VAL:O	53:DU:9:VAL:C	2.57	0.41
35:BA:27:G:H2'	35:BA:28:A:OP2	2.19	0.41
26:B1:56:GLN:CA	26:B1:56:GLN:NE2	2.82	0.41
29:D4:3:GLU:HG2	36:DB:40:U:C4	2.55	0.41
12:CL:54:LYS:HB3	12:CL:70:ILE:HG13	2.02	0.41
34:B9:19:ARG:O	34:B9:20:HIS:HB2	2.20	0.41
35:BA:2820:A:H8	39:BE:191:PRO:HB3	1.85	0.41
38:BD:239:ARG:NH2	38:BD:239:ARG:HG2	2.34	0.41
1:CA:1442(A):G:H2'	52:DT:118:ARG:HH11	1.85	0.41
41:DG:34:LEU:HB2	41:DG:99:MET:HE1	2.02	0.41
3:AC:78:GLY:CA	3:AC:83:ARG:HB3	2.49	0.41
10:AJ:50:ILE:CD1	14:AN:41:ARG:HD3	2.50	0.41
35:BA:360:G:O2'	35:BA:361:G:H5'	2.19	0.41
2:AB:82:ARG:NH1	2:AB:82:ARG:HG3	2.35	0.41
52:BT:85:LYS:NZ	52:BT:85:LYS:CB	2.71	0.41
5:CE:33:VAL:CG1	5:CE:34:VAL:N	2.81	0.41
19:CS:64:GLU:HG2	29:D4:48:ARG:HH22	1.82	0.41
13:CM:81:LEU:O	13:CM:89:GLY:HA3	2.20	0.41
13:CM:89:GLY:O	13:CM:90:LEU:O	2.38	0.41
35:BA:2740:A:H2'	35:BA:2741:A:C8	2.55	0.41
17:AQ:59:ILE:HD13	17:AQ:59:ILE:HA	1.79	0.41
1:CA:253:U:H2'	1:CA:254:G:H8	1.84	0.41
35:BA:2468:G:N2	35:BA:2481:G:O2'	2.54	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
52:BT:12:SER:O	52:BT:15:VAL:HG13	2.19	0.41
24:CY:204:GLU:O	24:CY:205:TYR:C	2.57	0.41
24:CY:170:ARG:NH2	24:CY:205:TYR:HE1	2.17	0.41
24:AY:553:GLY:H	24:AY:557:GLY:C	2.23	0.41
46:DN:130:HIS:O	46:DN:130:HIS:CG	2.72	0.41
29:D4:43:TYR:HD2	29:D4:44:THR:HG23	1.85	0.41
27:D2:35:LEU:HD11	27:D2:49:LYS:HB3	2.00	0.41
24:CY:126:GLU:O	24:CY:128:TYR:N	2.53	0.41
19:CS:11:VAL:HG23	19:CS:38:SER:HB2	2.02	0.41
51:DS:98:VAL:HG12	51:DS:100:ALA:CB	2.50	0.41
4:AD:91:SER:O	4:AD:92:VAL:C	2.57	0.41
22:CV:36:U:OP1	24:CY:573:HIS:HE1	2.03	0.41
24:CY:573:HIS:HD2	24:CY:575:VAL:H	1.68	0.41
37:DC:100:ILE:O	37:DC:102:GLN:N	2.53	0.41
42:BH:162:ILE:O	42:BH:162:ILE:HG13	2.20	0.41
4:AD:159:ARG:O	4:AD:160:GLN:C	2.58	0.41
6:CF:97:PHE:N	18:CR:30:ASP:OD1	2.52	0.41
4:CD:58:LEU:CD2	4:CD:58:LEU:C	2.88	0.41
35:DA:748:G:C8	55:DW:89:ALA:HB1	2.55	0.41
55:BW:68:ARG:HA	55:BW:110:LYS:CG	2.48	0.41
19:CS:25:LYS:O	19:CS:26:GLY:C	2.59	0.41
7:AG:79:ARG:O	7:AG:80:VAL:HG13	2.19	0.41
15:CO:9:GLN:O	15:CO:11:VAL:N	2.53	0.41
18:CR:45:SER:OG	18:CR:46:GLU:N	2.51	0.41
35:BA:482:A:N6	35:BA:506:G:C8	2.88	0.41
35:DA:476:G:H4'	35:DA:502:A:N1	2.35	0.41
1:AA:1349:A:OP1	9:AI:120:ARG:HB2	2.20	0.41
1:CA:1162:C:C2	1:CA:1175:G:N2	2.88	0.41
35:BA:2617:C:H2'	35:BA:2618:G:H5'	2.01	0.41
51:DS:19:LYS:C	51:DS:20:ARG:CZ	2.89	0.41
22:AV:4:G:O2'	22:AV:5:G:C8	2.69	0.41
35:BA:528:A:N1	35:BA:2042:A:H2'	2.35	0.41
35:BA:826:U:H2'	35:BA:828:U:O4'	2.19	0.41
1:CA:1202:G:H2'	1:CA:1203:C:H5'	2.01	0.41
51:BS:17:ARG:C	51:BS:19:LYS:H	2.23	0.41
1:CA:1329:A:H5''	13:CM:26:GLY:N	2.35	0.41
1:CA:333:G:O2'	1:CA:334:C:H5'	2.20	0.41
12:AL:117:ARG:O	12:AL:119:LYS:O	2.36	0.41
1:AA:1245:A:C2	1:AA:1293:G:C2	3.08	0.41
35:DA:782:A:N1	38:DD:226:MET:HE3	2.34	0.41
2:AB:25:ASN:O	2:AB:27:LYS:N	2.53	0.41
43:BJ:72:UNK:C	43:BJ:74:UNK:N	2.82	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
57:BY:52:SER:O	57:BY:53:PRO:C	2.59	0.41
32:B7:46:VAL:HG12	32:B7:47:ARG:H	1.83	0.41
1:AA:189(B):C:C2	1:AA:189(J):G:C2	3.08	0.41
38:BD:8:PRO:C	38:BD:10:THR:H	2.23	0.41
52:DT:35:LYS:HZ1	52:DT:41:ARG:NH1	2.17	0.41
4:CD:105:VAL:HG13	4:CD:110:PHE:HB2	2.02	0.41
39:DE:101:ARG:HA	39:DE:101:ARG:HD3	1.67	0.41
1:AA:724:G:O2'	1:AA:725:G:H5'	2.20	0.41
24:AY:443:HIS:HA	24:AY:444:PRO:HD2	1.92	0.41
2:AB:60:ASP:O	2:AB:64:ARG:CZ	2.68	0.41
35:DA:1196:C:O4'	35:DA:1226:A:C2	2.73	0.41
1:CA:8:A:C6	4:CD:209:ARG:HB2	2.55	0.41
1:AA:1479:C:H2'	1:AA:1480:G:C8	2.52	0.41
35:BA:1227:G:O2'	35:BA:1228:G:H5'	2.20	0.41
1:AA:688:G:H2'	1:AA:689:C:C6	2.54	0.41
2:AB:178:ARG:CG	2:AB:178:ARG:NH1	2.80	0.41
35:BA:436:C:H2'	35:BA:437:G:H8	1.85	0.41
11:AK:31:THR:O	11:AK:31:THR:CG2	2.68	0.41
58:DZ:72:ARG:HG3	58:DZ:72:ARG:NH1	2.34	0.41
35:BA:444:C:H2'	35:BA:445:C:H6	1.85	0.41
1:AA:1430:C:C2	1:AA:1471:G:C2	3.08	0.41
35:DA:1854:A:H2'	35:DA:1855:G:O4'	2.20	0.41
4:CD:170:VAL:O	4:CD:171:GLY:C	2.56	0.41
1:CA:78:G:C2	1:CA:79:G:H1'	2.55	0.41
4:CD:43:HIS:HB3	4:CD:46:LYS:HD3	2.02	0.41
1:CA:757:U:O2'	1:CA:879:C:H1'	2.19	0.41
35:DA:602:G:C2	35:DA:656:G:C6	3.07	0.41
20:AT:81:LYS:C	20:AT:83:ARG:N	2.73	0.41
50:BR:56:LYS:C	50:BR:58:GLY:H	2.23	0.41
24:AY:134:ALA:HB3	24:AY:258:VAL:HG22	2.02	0.41
39:DE:138:PRO:HG2	39:DE:139:GLY:N	2.35	0.41
37:DC:16:ASP:O	37:DC:18:ASN:N	2.52	0.41
56:DX:47:PHE:CD2	56:DX:89:ILE:HG21	2.55	0.41
17:CQ:88:TYR:O	17:CQ:89:LEU:C	2.58	0.41
35:DA:562:U:C4	35:DA:2036:C:H1'	2.55	0.41
24:AY:348:ARG:HG2	24:AY:382:GLU:HG3	2.01	0.41
35:BA:430:G:H2'	35:BA:431:U:H5'	2.01	0.41
24:CY:603:GLU:C	24:CY:676:TYR:HD1	2.23	0.41
24:CY:408:VAL:HG22	24:CY:454:MET:HA	2.02	0.41
24:CY:25:LYS:NZ	62:CY:703:GDP:PB	2.93	0.41
24:CY:88:VAL:O	24:CY:90:PHE:HD1	2.03	0.41
24:AY:21:ILE:HG21	24:AY:88:VAL:CG1	2.44	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
58:DZ:171:ILE:C	58:DZ:171:ILE:HD12	2.40	0.41
40:BF:32:LEU:C	40:BF:32:LEU:CD2	2.88	0.41
35:DA:1159:U:H5''	35:DA:1159:U:H6	1.85	0.41
53:DU:92:ARG:NH1	54:DV:11:GLN:CG	2.83	0.41
46:BN:3:THR:CG2	46:BN:4:TYR:N	2.79	0.41
58:DZ:63:ASP:HB2	58:DZ:65:GLN:HG3	2.02	0.41
1:AA:1001(A):G:H8	1:AA:1002:G:C8	2.38	0.41
33:D8:36:LYS:O	33:D8:37:SER:O	2.38	0.41
33:D8:59:LYS:HD3	48:DP:50:ARG:HB3	2.02	0.41
3:AC:50:ALA:HA	3:AC:72:LYS:HB3	2.02	0.41
3:CC:80:GLY:HA3	3:CC:82:GLU:OE1	2.20	0.41
30:B5:2:ALA:HB2	35:BA:2015:A:O4'	2.20	0.41
35:DA:1485:G:H8	35:DA:1485:G:H5'	1.85	0.41
35:DA:1485:G:N2	35:DA:1504:C:O2	2.53	0.41
35:DA:2616:C:H2'	35:DA:2616:C:O2	2.21	0.41
35:DA:2167:U:H2'	35:DA:2168:G:O4'	2.20	0.41
1:CA:1239:A:H62	1:CA:1299:A:H62	1.68	0.41
1:CA:1300:G:O2'	1:CA:1301:U:OP2	2.38	0.41
30:B5:40:LYS:NZ	30:B5:46:CYS:N	2.59	0.41
51:BS:67:ARG:O	51:BS:70:GLY:N	2.53	0.41
31:D6:15:GLU:N	31:D6:49:HIS:CD2	2.88	0.41
24:CY:590:ILE:HA	24:CY:590:ILE:HD13	1.85	0.41
5:CE:50:GLU:HB3	5:CE:53:LEU:HG	2.02	0.41
35:DA:2031:A:N3	35:DA:2455:G:O2'	2.47	0.41
48:DP:91:PHE:HZ	48:DP:100:LEU:CD1	2.31	0.41
39:DE:34:VAL:HG13	39:DE:34:VAL:O	2.21	0.41
35:BA:1022:G:H22	35:BA:1142(A):A:H2	1.65	0.41
58:DZ:17:ALA:HA	58:DZ:20:ARG:CD	2.50	0.41
3:AC:83:ARG:O	3:AC:85:ARG:N	2.53	0.41
1:AA:108:G:N2	1:AA:109:A:H2	2.18	0.41
35:BA:1877:A:H5'	35:BA:1878:G:OP2	2.20	0.41
19:CS:20:LEU:HA	19:CS:23:ASN:CB	2.47	0.41
49:BQ:55:VAL:HG23	58:BZ:178:GLU:HG2	2.01	0.41
15:AO:17:ARG:HD3	15:AO:26:GLU:CG	2.48	0.41
15:AO:24:SER:O	15:AO:25:THR:C	2.57	0.41
42:DH:50:VAL:CG1	42:DH:51:ARG:N	2.83	0.41
52:BT:55:ASN:O	52:BT:55:ASN:CG	2.59	0.41
25:B0:50:ASN:CA	25:B0:62:LEU:HD12	2.41	0.41
4:CD:60:GLU:OE2	4:CD:198:VAL:HA	2.20	0.41
49:DQ:27:VAL:O	49:DQ:28:ALA:CB	2.67	0.41
35:DA:1948:G:O2'	35:DA:1949:G:H5'	2.19	0.41
42:DH:19:VAL:CG1	42:DH:20:ALA:N	2.83	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1342:C:H1'	9:AI:124:GLN:CG	2.49	0.41
1:AA:625:G:H4'	16:AP:16:HIS:HD2	1.82	0.41
40:BF:134:GLY:HA3	40:BF:165:ARG:NH1	2.35	0.41
51:BS:49:VAL:CG1	51:BS:50:SER:H	2.23	0.41
53:DU:107:ALA:HA	53:DU:110:VAL:HG21	2.02	0.41
20:AT:54:LYS:HA	20:AT:57:ARG:NH2	2.35	0.41
35:DA:2464:C:O2'	35:DA:2465:C:P	2.78	0.41
35:BA:1185:C:H5'	35:BA:1186:G:OP1	2.20	0.41
52:BT:126:ALA:C	52:BT:128:GLU:N	2.73	0.41
46:BN:65:LYS:HB3	46:BN:65:LYS:NZ	2.30	0.41
7:CG:143:ARG:O	7:CG:145:ALA:O	2.38	0.41
24:AY:229:LEU:C	24:AY:231:TYR:N	2.73	0.41
55:BW:14:PRO:CG	55:BW:78:GLU:HB2	2.49	0.41
22:AW:25:U:H2'	22:AW:26:C:H6	1.82	0.41
12:AL:57:LYS:CG	12:AL:67:THR:HG22	2.47	0.41
36:DB:69:G:C2	36:DB:70:C:C2	3.08	0.41
40:BF:89:VAL:O	40:BF:91:GLY:N	2.49	0.41
2:AB:96:ARG:N	2:AB:96:ARG:CD	2.82	0.41
13:AM:16:ASP:N	13:AM:16:ASP:OD2	2.52	0.41
48:BP:110:TYR:O	48:BP:111:ARG:O	2.38	0.41
15:AO:39:LEU:HD22	15:AO:43:LEU:HG	2.01	0.41
1:CA:59:A:H3'	1:CA:331:G:N2	2.35	0.41
1:CA:368:U:P	24:CY:351:ARG:HH11	2.43	0.41
1:AA:1100:C:C2'	1:AA:1101:A:H5''	2.48	0.41
1:AA:1310:G:C2	1:AA:1328:C:N3	2.88	0.41
58:DZ:82:ARG:HG2	58:DZ:82:ARG:HH11	1.84	0.41
35:DA:566:U:O4	54:DV:78:LYS:HE3	2.19	0.41
11:AK:23:ALA:O	11:AK:86:GLY:HA3	2.19	0.41
12:CL:110:VAL:HG21	12:CL:120:TYR:CD2	2.54	0.41
1:CA:1305:G:H5''	21:CU:4:GLY:C	2.40	0.41
35:BA:1640:C:H2'	35:BA:1641:A:O4'	2.20	0.41
35:DA:2832:U:H1'	35:DA:2834:G:C4	2.55	0.41
1:AA:1305:G:H22	1:AA:1331:G:C2'	2.30	0.41
35:DA:657:U:H2'	35:DA:658:C:C5	2.54	0.41
47:DO:103:ALA:O	47:DO:106:LEU:HG	2.19	0.41
4:CD:126:ILE:CD1	4:CD:126:ILE:N	2.83	0.41
38:DD:148:GLU:CB	38:DD:151:LYS:HG3	2.49	0.41
38:BD:73:VAL:O	38:BD:75:ILE:N	2.54	0.41
35:DA:1669:A:C2	35:DA:1994:C:H1'	2.55	0.41
35:BA:1943:U:C2'	35:BA:1943:U:O2	2.67	0.41
20:AT:58:LYS:O	20:AT:59:ALA:C	2.57	0.41
47:BO:13:ASN:ND2	47:BO:97:ARG:HB2	2.36	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
53:BU:102:GLU:HG3	54:BV:2:PHE:CE1	2.55	0.41
7:CG:61:VAL:O	7:CG:62:PHE:C	2.58	0.41
10:CJ:29:ARG:CG	10:CJ:29:ARG:HH11	2.31	0.41
1:AA:123:C:OP1	1:AA:311:C:O2'	2.38	0.41
24:CY:637:ARG:NH1	24:CY:637:ARG:HG3	2.32	0.41
35:DA:2511:U:H4'	39:DE:123:ALA:HB3	2.02	0.41
35:BA:737:C:O2'	35:BA:738:G:H5'	2.20	0.41
11:AK:66:LEU:O	11:AK:67:ASP:C	2.58	0.41
35:DA:438:G:H2'	35:DA:440:G:C8	2.56	0.41
16:AP:9:PHE:HE2	16:AP:18:ARG:CD	2.32	0.41
37:DC:11:LEU:C	37:DC:13:GLU:H	2.22	0.41
58:BZ:100:VAL:HG21	58:BZ:126:VAL:HG21	2.01	0.41
22:CV:24:U:H2'	22:CV:25:C:H6	1.84	0.41
6:AF:15:ASP:O	6:AF:17:SER:N	2.52	0.41
50:DR:48:VAL:O	50:DR:51:LEU:N	2.53	0.41
35:BA:104:U:C6	35:BA:105:C:C6	3.08	0.41
38:BD:165:ILE:HD13	38:BD:175:LEU:CD2	2.49	0.41
35:DA:1956:U:H2'	35:DA:1957:C:H5'	2.02	0.41
1:CA:520:A:N1	1:CA:536:C:H1'	2.35	0.41
8:AH:53:VAL:HB	8:AH:58:TYR:CE1	2.55	0.41
24:AY:484:ARG:CD	24:AY:559:PRO:HB2	2.50	0.41
35:DA:2154:G:H2'	35:DA:2155:G:H8	1.85	0.41
50:BR:88:ARG:HD2	50:BR:88:ARG:O	2.20	0.41
4:CD:68:TYR:O	4:CD:69:GLY:C	2.58	0.41
35:BA:2003:G:C6	35:BA:2004:G:C5	3.08	0.41
35:BA:452:G:N3	35:BA:457:A:H2	2.18	0.41
1:AA:573:A:C2	1:AA:574:A:C2	3.08	0.41
24:AY:145:ASP:HB3	24:AY:148:LEU:HB2	2.02	0.41
35:DA:2384:G:H2'	35:DA:2386:C:OP1	2.20	0.41
1:CA:282:A:H3'	1:CA:283:C:C6	2.55	0.41
26:B1:71:TYR:N	26:B1:71:TYR:CD1	2.88	0.41
3:AC:120:VAL:O	3:AC:121:ALA:C	2.57	0.41
2:AB:23:ARG:HA	2:AB:23:ARG:HD2	1.88	0.41
58:BZ:78:LYS:N	58:BZ:78:LYS:HD3	2.35	0.41
35:DA:1830:C:O5'	35:DA:1830:C:H6	2.03	0.41
35:BA:1147:C:H2'	35:BA:1148:A:H8	1.85	0.41
30:B5:29:THR:HG21	35:BA:2814:C:O2'	2.19	0.41
35:DA:1024:G:C8	35:DA:1025:G:H2'	2.55	0.41
15:AO:67:LEU:HA	15:AO:67:LEU:HD23	1.88	0.41
55:DW:26:GLY:HA2	55:DW:71:VAL:O	2.19	0.41
35:BA:2093:G:C6	35:BA:2225:A:C8	3.08	0.41
56:BX:53:LYS:HB3	56:BX:82:GLN:HB3	2.02	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
40:BF:179:GLU:O	40:BF:181:LEU:N	2.53	0.41
35:DA:2051:A:N6	35:DA:2614:A:C8	2.88	0.41
24:AY:209:ALA:O	24:AY:211:GLU:N	2.54	0.41
24:AY:17:ILE:HG21	24:AY:25:LYS:HA	2.01	0.41
40:BF:29:ASN:HB3	40:BF:32:LEU:HB3	2.03	0.41
53:DU:50:ARG:HH11	54:DV:70:ILE:CG2	2.33	0.41
53:DU:76:TYR:O	53:DU:79:PHE:HB3	2.20	0.41
24:AY:10:LYS:HE2	24:AY:284:LEU:HD23	2.02	0.41
24:AY:420:ASP:C	24:AY:422:GLU:N	2.72	0.41
24:AY:434:GLU:O	24:AY:435:ASP:HB2	2.20	0.41
38:DD:34:VAL:O	38:DD:36:PRO:CD	2.68	0.41
33:B8:49:VAL:O	33:B8:53:PRO:HD3	2.20	0.41
58:DZ:9:TYR:CD1	58:DZ:35:ARG:NH1	2.86	0.41
57:DY:99:CYS:SG	57:DY:99:CYS:O	2.79	0.41
29:D4:28:LYS:HA	29:D4:28:LYS:HE3	2.01	0.41
41:DG:136:ARG:O	41:DG:153:ARG:O	2.38	0.41
58:BZ:166:SER:HB2	58:BZ:168:GLU:N	2.33	0.41
35:DA:1902:C:H1'	38:DD:244:ARG:HG3	2.02	0.41
3:AC:72:LYS:HE3	3:AC:72:LYS:C	2.40	0.41
50:DR:78:LYS:O	50:DR:78:LYS:HG2	2.20	0.41
50:DR:83:ILE:HG22	50:DR:83:ILE:O	2.20	0.41
1:CA:1298:C:C2'	1:CA:1298:C:O2	2.61	0.41
40:DF:10:PRO:CG	40:DF:13:SER:OG	2.69	0.41
40:DF:7:TYR:CD2	40:DF:16:GLY:HA3	2.35	0.41
31:D6:17:LYS:CB	31:D6:44:ARG:NH1	2.83	0.41
50:BR:78:LYS:HG2	50:BR:78:LYS:O	2.20	0.41
24:AY:273:LEU:HA	24:AY:276:VAL:CG2	2.50	0.41
24:AY:75:LYS:O	24:AY:77:HIS:CD2	2.72	0.41
35:DA:1156:A:O2'	35:DA:1157:G:OP1	2.34	0.41
35:BA:1819:A:O2'	35:BA:1820:U:P	2.78	0.41
18:CR:36:ASN:OD1	18:CR:39:VAL:HB	2.20	0.41
35:DA:1251:C:OP2	53:DU:10:ARG:NE	2.52	0.41
2:CB:117:GLU:O	2:CB:120:ALA:HB3	2.20	0.41
48:BP:83:VAL:H	48:BP:115:LEU:HD23	1.83	0.41
2:CB:44:LEU:H	2:CB:44:LEU:CD1	2.08	0.41
35:BA:2309:A:H2'	35:BA:2310:A:C5'	2.50	0.41
44:BK:10:LEU:HD11	44:BK:27:LEU:HD11	2.02	0.41
44:BK:99:ILE:HD12	44:BK:103:GLN:CB	2.47	0.41
35:DA:1495:A:H2'	35:DA:1496:A:C2	2.55	0.41
1:AA:1055:A:H8	1:AA:1055:A:O5'	2.04	0.41
13:AM:49:THR:HG22	13:AM:51:ALA:N	2.16	0.41
39:BE:31:CYS:O	39:BE:91:VAL:N	2.50	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2317:C:O2'	35:BA:2318:G:H5'	2.20	0.41
52:DT:120:ARG:O	52:DT:124:ASP:OD1	2.38	0.41
1:CA:1250:A:C2	1:CA:1251:A:C4	3.08	0.41
29:D4:30:GLU:C	29:D4:31:ILE:HD12	2.39	0.41
50:BR:38:VAL:HB	50:BR:39:PRO:CD	2.36	0.41
10:AJ:50:ILE:HD11	14:AN:41:ARG:HH11	1.80	0.41
2:AB:187:LEU:HD21	2:AB:214:ILE:HG13	2.02	0.41
35:DA:1877:A:H5'	35:DA:1878:G:OP2	2.21	0.41
13:CM:81:LEU:HD22	13:CM:81:LEU:H	1.82	0.41
35:BA:2762:G:C5'	35:BA:2762:G:C8	3.01	0.41
15:AO:82:ILE:O	15:AO:82:ILE:HD13	2.20	0.41
42:BH:50:VAL:CG1	42:BH:51:ARG:N	2.83	0.41
26:B1:4:VAL:HG22	26:B1:5:CYS:N	2.35	0.41
58:DZ:129:SER:CB	58:DZ:131:ARG:HD2	2.50	0.41
42:BH:120:GLY:C	42:BH:121:ILE:HG13	2.40	0.41
55:DW:29:LEU:HD11	55:DW:51:LEU:CD1	2.41	0.41
12:AL:44:THR:HA	12:AL:45:PRO:HD3	1.82	0.41
12:AL:46:LYS:NZ	12:AL:94:PRO:HG3	2.34	0.41
1:AA:1026:G:H3'	1:AA:1027:C:H5'	2.01	0.41
27:B2:48:HIS:CG	27:B2:49:LYS:N	2.89	0.41
35:BA:1314:C:OP1	35:BA:1315:C:OP2	2.38	0.41
35:DA:8:A:H2'	35:DA:9:U:C6	2.55	0.41
30:D5:26:THR:HA	30:D5:27:PRO:HD3	1.96	0.41
35:DA:1128:A:C8	35:DA:2518:A:N6	2.88	0.41
35:BA:2513:G:C5	35:BA:2514:U:C4	3.08	0.41
35:BA:2777:G:C5'	35:BA:2778:A:H5''	2.50	0.41
35:DA:881:G:H2'	35:DA:882:G:C5'	2.50	0.41
35:BA:654(S):G:H3'	35:BA:654(T):C:C4'	2.50	0.41
35:BA:877:U:C2'	35:BA:878:A:H5''	2.50	0.41
16:AP:75:ARG:C	16:AP:77:ALA:N	2.74	0.41
47:DO:31:LYS:HB3	47:DO:32:TYR:CE1	2.54	0.41
35:BA:856:C:H2'	35:BA:857:C:C6	2.55	0.41
1:AA:674:G:O4'	18:AR:81:PHE:CE1	2.74	0.41
28:D3:40:THR:O	28:D3:44:ARG:HG3	2.19	0.41
1:CA:1402:C:H2'	1:CA:1403:C:O4'	2.21	0.41
13:CM:16:ASP:OD2	13:CM:16:ASP:N	2.52	0.41
4:CD:179:GLU:C	4:CD:181:MET:H	2.24	0.41
12:CL:7:ILE:CG2	12:CL:8:ASN:N	2.82	0.41
35:BA:481:G:HO2'	35:BA:482:A:H8	1.68	0.41
27:B2:22:GLU:C	27:B2:24:LEU:N	2.74	0.41
25:B0:73:GLY:C	25:B0:75:LEU:N	2.71	0.41
1:AA:1329:A:H5''	13:AM:26:GLY:N	2.36	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
22:AV:69:C:O2'	22:AV:70:G:H5'	2.21	0.41
37:DC:119:ASP:OD1	37:DC:120:VAL:HG13	2.21	0.41
24:AY:491:VAL:CG1	24:AY:492:ASP:N	2.83	0.41
35:BA:775:G:C4	35:BA:794:G:C8	3.08	0.41
42:DH:124:GLU:HB2	42:DH:132:ARG:CG	2.49	0.41
1:CA:318:G:O2'	1:CA:319:G:H5'	2.20	0.41
35:BA:2688:U:H5	35:BA:2720:U:OP1	2.03	0.41
17:CQ:63:ARG:HG2	17:CQ:64:PRO:HD2	2.02	0.41
1:CA:1245:A:C2	1:CA:1293:G:C2	3.08	0.41
1:AA:748:C:O2'	1:AA:749:C:H6	2.03	0.41
50:DR:18:LEU:C	50:DR:20:LEU:N	2.74	0.41
35:BA:2349:G:H5'	35:BA:2349:G:H8	1.85	0.41
1:CA:1104:G:O2'	1:CA:1105:A:H5'	2.20	0.41
35:BA:2248:C:H2'	35:BA:2249:U:C5'	2.50	0.41
35:BA:1396:U:O2	35:BA:1396:U:C2'	2.67	0.41
35:DA:2078:C:C1'	35:DA:2434:A:H1'	2.51	0.41
22:AW:50:G:H8	22:AW:50:G:O5'	2.03	0.41
35:DA:1499:C:C2'	35:DA:1500:G:H5'	2.50	0.41
35:DA:1888:G:N3	35:DA:1888:G:H5'	2.35	0.41
24:CY:580:MET:SD	35:DA:1913:A:N6	2.94	0.41
1:CA:913:A:H4'	1:CA:914:A:OP1	2.21	0.41
35:DA:1930:G:O2'	35:DA:1931:U:OP2	2.38	0.41
35:BA:2202:C:H2'	38:BD:151:LYS:HZ1	1.83	0.41
22:CW:70:C:H2'	22:CW:71:G:O4'	2.20	0.41
1:AA:142:G:N3	1:AA:196:A:H2	2.18	0.41
35:BA:2376:A:H2'	35:BA:2377:A:O4'	2.20	0.41
37:DC:178:LYS:HG2	37:DC:181:PHE:CE1	2.55	0.41
58:DZ:4:ARG:HH12	58:DZ:66:SER:HB2	1.85	0.41
35:DA:436:C:H2'	35:DA:437:G:C8	2.56	0.41
37:BC:10:ALA:O	37:BC:13:GLU:HG2	2.21	0.41
43:BJ:48:UNK:O	43:BJ:90:UNK:CB	2.67	0.41
35:DA:2624:G:O2'	35:DA:2625:G:H5'	2.20	0.41
1:CA:948:C:H2'	1:CA:949:A:C8	2.56	0.41
35:DA:444:C:H2'	35:DA:445:C:H6	1.85	0.41
35:BA:271(M):G:C2'	35:BA:271(N):U:H5''	2.50	0.41
15:AO:27:VAL:O	15:AO:31:LEU:HD23	2.20	0.41
7:CG:21:VAL:HG23	7:CG:22:LEU:N	2.36	0.41
35:DA:270:A:O2'	35:DA:271:A:H5'	2.19	0.41
9:AI:97:LYS:O	9:AI:98:PRO:C	2.59	0.41
15:AO:29:VAL:HG11	15:AO:67:LEU:HD21	2.02	0.41
51:BS:22:GLY:O	51:BS:23:ARG:O	2.39	0.41
6:CF:95:GLU:HA	6:CF:96:PRO:HD3	1.89	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2072:G:C2	35:BA:2073:C:C2	3.08	0.41
9:CI:99:LEU:HD22	9:CI:99:LEU:N	2.36	0.41
35:BA:2460:U:H2'	35:BA:2460:U:O2	2.20	0.41
15:CO:70:LEU:HD12	15:CO:70:LEU:HA	1.90	0.41
2:CB:23:ARG:HA	2:CB:23:ARG:HD2	1.85	0.41
35:BA:2321:G:H2'	35:BA:2321:G:N3	2.36	0.41
35:BA:1945:G:N3	35:BA:1945:G:H2'	2.33	0.41
8:AH:36:LEU:O	8:AH:37:ARG:C	2.59	0.41
37:BC:226:ASN:HA	37:BC:227:PRO:HD2	1.84	0.41
35:DA:1203:G:OP2	35:DA:1204:A:H2'	2.21	0.41
40:DF:117:ARG:NH1	40:DF:120:GLU:OE1	2.53	0.41
24:AY:617:MET:O	24:AY:618:GLY:C	2.57	0.41
29:B4:3:GLU:CG	36:BB:43:C:OP1	2.67	0.41
41:BG:181:ARG:HH11	41:BG:181:ARG:HG3	1.84	0.41
41:BG:55:LYS:HD3	41:BG:55:LYS:C	2.41	0.41
41:BG:98:ARG:N	41:BG:98:ARG:NH1	2.65	0.41
23:AX:13:A:H2'	23:AX:14:A:H5"	2.02	0.41
40:BF:177:ALA:HB1	40:BF:178:PRO:CD	2.50	0.41
39:DE:131:ALA:HB3	39:DE:134:ILE:CD1	2.17	0.41
24:AY:238:THR:C	24:AY:240:GLU:N	2.74	0.41
58:DZ:120:ILE:CG2	58:DZ:120:ILE:O	2.67	0.41
35:BA:1204:A:H1'	35:BA:1206:G:N7	2.35	0.41
38:DD:34:VAL:O	38:DD:36:PRO:HD2	2.21	0.41
1:AA:981:U:H2'	1:AA:982:U:C5	2.56	0.41
57:DY:90:LEU:HB2	57:DY:91:GLU:OE2	2.20	0.41
35:DA:272(J):C:N4	35:DA:363:G:H22	2.19	0.41
31:D6:10:LEU:N	31:D6:10:LEU:HD23	2.31	0.41
31:D6:27:LYS:HB3	31:D6:30:THR:CG2	2.51	0.41
33:D8:19:SER:HB2	33:D8:21:LYS:HG3	2.01	0.41
48:DP:47:ASP:CB	48:DP:48:PRO:CA	2.93	0.41
58:BZ:54:HIS:HA	58:BZ:98:MET:CE	2.50	0.41
57:BY:96:ILE:CD1	57:BY:99:CYS:SG	3.06	0.41
3:CC:47:LEU:HD21	3:CC:68:VAL:HG11	2.02	0.41
51:BS:74:ALA:CB	51:BS:103:GLU:HB2	2.46	0.41
3:CC:60:ALA:N	3:CC:63:ASN:OD1	2.51	0.41
35:BA:26:G:H1'	35:BA:515:A:N6	2.31	0.41
35:DA:948:G:OP1	35:DA:962:G:OP1	2.39	0.41
35:DA:968:G:C6	35:DA:969:U:C4	3.08	0.41
1:CA:1103:C:C5'	2:CB:98:LEU:HD13	2.49	0.41
46:BN:45:ASN:N	46:BN:45:ASN:ND2	2.54	0.41
1:AA:1502:A:C2	1:AA:1505:G:N1	2.60	0.41
2:AB:114:ARG:O	2:AB:117:GLU:HB2	2.21	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1348:G:C3'	35:DA:1349:A:H5''	2.48	0.41
39:BE:51:PHE:HD1	39:BE:52:LEU:N	2.16	0.41
51:DS:63:THR:O	51:DS:66:ALA:N	2.53	0.41
52:BT:92:GLY:C	52:BT:94:ALA:H	2.24	0.41
27:B2:38:GLN:CA	27:B2:41:ILE:HG12	2.50	0.41
3:AC:90:GLU:C	3:AC:93:LYS:HB3	2.35	0.41
1:AA:1226:C:C4	13:AM:104:ARG:HB2	2.55	0.41
2:AB:17:PHE:HB3	2:AB:44:LEU:CD2	2.45	0.41
2:AB:211:ILE:HG13	2:AB:211:ILE:H	1.70	0.41
52:BT:29:ARG:CD	52:BT:86:ILE:HG22	2.48	0.41
1:CA:1014:A:C2	19:CS:34:TRP:CE2	3.08	0.41
35:DA:2103:C:N4	35:DA:2186:G:H1	2.19	0.41
17:AQ:52:LYS:HD2	17:AQ:52:LYS:N	2.20	0.41
17:AQ:52:LYS:CD	17:AQ:55:ASP:OD2	2.68	0.41
47:BO:22:ILE:O	47:BO:23:ARG:HB3	2.19	0.41
42:BH:41:MET:HG3	42:BH:42:ARG:N	2.36	0.41
52:DT:2:ASN:O	52:DT:4:GLY:N	2.53	0.41
26:D1:86:SER:HB2	26:D1:90:ILE:CG1	2.47	0.41
13:CM:23:TYR:O	13:CM:66:LEU:HB3	2.20	0.41
57:BY:62:GLU:HG2	57:BY:63:LYS:N	2.28	0.41
35:BA:1676:A:H2'	35:BA:1677:A:O4'	2.20	0.41
38:BD:21:PHE:O	38:BD:24:ILE:HG23	2.20	0.41
10:AJ:61:GLU:OE2	14:AN:45:ARG:NH1	2.51	0.41
35:DA:1654:A:C2	39:DE:113:PHE:HD1	2.37	0.41
58:BZ:24:LEU:C	58:BZ:24:LEU:HD23	2.41	0.41
24:CY:264:LEU:HD23	24:CY:265:LYS:HD3	2.02	0.41
12:AL:33:ARG:CG	12:AL:60:LEU:HD12	2.50	0.41
51:BS:47:THR:HG22	51:BS:49:VAL:O	2.19	0.41
12:CL:27:LEU:C	12:CL:29:GLY:H	2.24	0.41
1:CA:1122:U:H2'	1:CA:1123:A:H5'	2.02	0.41
12:CL:20:LYS:CD	12:CL:20:LYS:N	2.83	0.41
1:AA:1298:C:O2'	1:AA:1299:A:C2	2.74	0.41
35:BA:2664:G:C2'	35:BA:2665:A:O5'	2.68	0.41
34:B9:29:ASN:C	34:B9:31:LYS:H	2.24	0.41
35:BA:1276:A:C1'	50:BR:16:HIS:HE1	2.33	0.41
20:AT:49:ALA:HB3	20:AT:99:LEU:CD1	2.50	0.41
1:AA:176:C:C2	1:AA:177:C:C5	3.08	0.41
24:AY:232:LEU:HD22	24:AY:232:LEU:H	1.84	0.41
20:CT:43:LEU:O	20:CT:44:ALA:C	2.58	0.41
56:BX:63:LYS:HB3	56:BX:72:LYS:HG2	2.03	0.41
35:DA:1175:U:P	35:DA:1176:G:H5''	2.61	0.41
1:CA:1100:C:C2'	1:CA:1101:A:H5''	2.48	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
16:AP:53:VAL:CG2	16:AP:54:GLU:H	2.29	0.41
35:DA:2543:G:O2'	35:DA:2544:G:H5'	2.21	0.41
35:BA:760:G:H2'	35:BA:761:A:H5'	2.02	0.41
35:DA:88:G:OP1	35:DA:90:U:C5	2.63	0.41
27:D2:59:ARG:HB3	35:DA:77:C:H5'	2.01	0.41
42:BH:128:PRO:HG2	42:BH:129:THR:HG23	2.02	0.41
11:CK:121:PRO:HB2	11:CK:126:ARG:HB2	2.02	0.41
35:BA:88:G:N3	35:BA:88:G:H2'	2.36	0.41
28:D3:35:ARG:CD	28:D3:37:LEU:HD21	2.50	0.41
1:CA:1347:G:H2'	1:CA:1373:G:H1	1.85	0.41
35:DA:603:A:O2'	35:DA:604:G:OP1	2.35	0.41
49:BQ:75:THR:CG2	49:BQ:76:LYS:H	2.34	0.41
35:BA:2397:G:H2'	35:BA:2398:U:C6	2.56	0.41
41:DG:11:TYR:OH	41:DG:33:ARG:HB3	2.20	0.41
35:DA:1834:U:O3'	35:DA:1835:G:H8	2.04	0.41
35:DA:1073:A:H2'	35:DA:1074:G:H5'	2.01	0.41
30:B5:16:ARG:HG2	30:B5:16:ARG:HH11	1.84	0.41
24:CY:197:ARG:O	24:CY:199:ILE:HG23	2.20	0.41
24:CY:334:THR:HG21	24:CY:368:GLU:HB2	2.02	0.41
36:DB:18:G:H2'	36:DB:19:G:C8	2.50	0.41
19:AS:61:TYR:CG	19:AS:62:ILE:N	2.88	0.41
32:D7:39:ARG:NH2	35:DA:468:G:N7	2.63	0.41
11:AK:30:VAL:O	11:AK:30:VAL:HG23	2.21	0.41
35:BA:463:G:C2	35:BA:467:G:C6	3.08	0.41
3:CC:141:VAL:O	3:CC:144:SER:N	2.53	0.41
3:CC:141:VAL:CG1	3:CC:146:ALA:HB3	2.51	0.41
5:CE:100:VAL:O	5:CE:100:VAL:CG2	2.68	0.41
7:CG:104:LEU:HA	7:CG:104:LEU:HD13	1.91	0.41
35:BA:436:C:H2'	35:BA:437:G:C8	2.56	0.41
58:BZ:128:VAL:CG2	58:BZ:132:ASN:HB2	2.49	0.41
8:AH:32:LYS:O	8:AH:33:GLU:C	2.58	0.41
22:CW:19:G:OP1	37:DC:168:LYS:NZ	2.54	0.41
1:CA:110:C:H2'	1:CA:111:G:O4'	2.21	0.41
28:D3:1:MET:HB3	28:D3:2:PRO:HD2	2.02	0.41
50:DR:52:ILE:HG21	50:DR:94:TYR:CG	2.55	0.41
35:DA:1131:G:N3	35:DA:1132:A:C8	2.87	0.41
25:B0:23:VAL:HA	25:B0:38:VAL:HG13	2.03	0.41
2:CB:149:LEU:HD23	2:CB:149:LEU:HA	1.85	0.41
1:AA:238:G:O2'	1:AA:239:U:H5'	2.21	0.41
9:AI:51:ARG:HG3	9:AI:56:LEU:HD12	2.03	0.41
7:CG:57:GLU:O	7:CG:58:PRO:C	2.58	0.41
43:DJ:50:UNK:O	43:DJ:51:UNK:CB	2.68	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:398:C:H2'	1:CA:399:G:C8	2.54	0.41
7:AG:50:ILE:HG21	7:AG:58:PRO:HA	2.03	0.41
36:BB:4:C:H2'	36:BB:5:C:C6	2.54	0.41
35:DA:2154:G:H21	35:DA:2155:G:H1'	1.86	0.41
26:B1:71:TYR:HA	26:B1:74:VAL:HG23	2.03	0.41
24:CY:543:GLN:O	24:CY:547:GLU:HB2	2.20	0.41
7:CG:31:MET:SD	7:CG:36:LYS:HB2	2.60	0.41
52:DT:78:LEU:HB3	52:DT:79:HIS:ND1	2.35	0.41
22:CV:72:A:H2'	22:CV:73:A:C8	2.56	0.41
7:CG:52:GLU:O	7:CG:53:LYS:C	2.58	0.41
35:BA:1645:G:OP1	35:BA:1646:C:H5'	2.20	0.41
40:DF:102:PRO:HB2	40:DF:105:VAL:HG23	2.01	0.41
44:BK:33:ASN:C	44:BK:35:MET:H	2.24	0.41
35:BA:2128:C:OP1	37:BC:37:LYS:N	2.52	0.41
35:BA:836:G:C5	35:BA:837:C:C4	3.08	0.41
35:BA:1118:C:H2'	35:BA:1119:C:C6	2.56	0.41
9:CI:77:ILE:O	9:CI:78:LYS:C	2.58	0.41
35:DA:669:G:C2'	35:DA:669:G:N3	2.84	0.41
42:DH:130:ARG:HB3	42:DH:130:ARG:NH1	2.35	0.41
4:CD:73:ARG:HD3	4:CD:73:ARG:HA	1.76	0.41
35:DA:1142:U:O5'	35:DA:1142:U:H6	2.04	0.41
24:CY:500:GLN:HB2	24:CY:500:GLN:HE21	1.66	0.41
9:CI:90:PRO:HG2	9:CI:91:ASP:H	1.85	0.41
42:DH:173:PRO:HG2	42:DH:174:GLY:H	1.85	0.41
40:DF:28:ILE:N	40:DF:28:ILE:CD1	2.83	0.41
40:DF:31:HIS:O	40:DF:32:LEU:C	2.59	0.41
40:DF:187:VAL:CG1	48:DP:7:ARG:NH2	2.83	0.41
24:AY:622:GLY:O	24:AY:623:ASP:C	2.58	0.41
4:CD:11:LEU:C	4:CD:13:ARG:N	2.69	0.41
24:CY:670:VAL:HB	24:CY:672:PHE:CE1	2.54	0.41
24:AY:111:SER:OG	24:AY:141:LYS:HB3	2.20	0.41
24:AY:20:HIS:CG	24:AY:117:GLN:HB3	2.55	0.41
24:AY:117:GLN:O	24:AY:117:GLN:OE1	2.38	0.41
24:AY:124:GLN:HA	24:AY:127:LYS:HD2	2.03	0.41
53:DU:57:PHE:O	53:DU:59:ARG:N	2.54	0.41
53:BU:92:ARG:NH1	54:BV:11:GLN:CG	2.82	0.41
35:DA:1568:G:H4'	38:DD:59:LYS:HB3	2.02	0.41
35:BA:664:C:H4'	35:BA:941:A:OP1	2.19	0.41
1:CA:1318:A:C1'	19:CS:37:ARG:NH2	2.74	0.41
35:BA:301:G:C4	35:BA:302:C:C5	3.09	0.41
31:D6:29:ASN:O	31:D6:30:THR:C	2.59	0.41
41:DG:55:LYS:O	41:DG:57:ALA:N	2.53	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
10:CJ:32:ALA:HB1	10:CJ:76:ASN:HB3	2.01	0.41
38:BD:245:PRO:O	38:BD:245:PRO:HG2	2.20	0.41
5:AE:143:ARG:NH1	8:AH:77:GLU:CD	2.74	0.41
30:D5:2:ALA:HB2	35:DA:2015:A:O4'	2.20	0.41
30:D5:2:ALA:N	35:DA:2015:A:C1'	2.83	0.41
37:DC:115:VAL:CG1	37:DC:145:THR:HG23	2.47	0.41
47:DO:112:MET:O	47:DO:113:LYS:C	2.58	0.41
51:BS:63:THR:O	51:BS:64:GLU:C	2.59	0.41
31:D6:41:PRO:HD3	31:D6:47:THR:HG22	2.01	0.41
50:BR:55:ALA:HB2	50:BR:79:LEU:CD1	2.49	0.41
24:AY:590:ILE:C	24:AY:592:GLU:N	2.73	0.41
35:DA:28:A:H1'	35:DA:513:A:C2	2.56	0.41
33:D8:62:LEU:HD13	35:DA:242:G:C5'	2.43	0.41
26:B1:90:ILE:HG22	26:B1:94:LEU:HD11	2.02	0.41
35:DA:1038:C:H3'	35:DA:1039:G:C5'	2.36	0.41
48:BP:98:GLU:H	48:BP:101:VAL:HG13	1.86	0.41
44:BK:30:HIS:CA	44:BK:59:ILE:HD12	2.39	0.41
35:BA:2786:U:O2'	39:BE:62:PRO:HA	2.21	0.41
58:DZ:14:LYS:HB2	58:DZ:17:ALA:CB	2.50	0.41
13:AM:89:GLY:O	13:AM:90:LEU:O	2.39	0.41
2:AB:17:PHE:H	2:AB:17:PHE:HD2	1.69	0.41
24:AY:16:GLY:N	24:AY:101:LEU:CD1	2.83	0.41
24:AY:289:ILE:HD11	24:AY:331:TYR:CZ	2.55	0.41
9:CI:114:TYR:O	9:CI:114:TYR:CD2	2.74	0.41
5:CE:12:LEU:CD1	5:CE:31:LEU:CB	2.99	0.41
19:CS:19:VAL:HG12	19:CS:20:LEU:N	2.34	0.41
1:CA:253:U:H2'	1:CA:254:G:C8	2.55	0.41
1:CA:1505:G:H5'	1:CA:1506:U:OP1	2.20	0.41
57:DY:44:ILE:O	57:DY:62:GLU:HB3	2.20	0.41
39:BE:25:VAL:HG22	39:BE:183:LEU:HG	2.02	0.41
2:CB:21:ARG:O	2:CB:22:LYS:HB2	2.20	0.41
26:B1:4:VAL:CG2	26:B1:10:LYS:O	2.66	0.41
58:DZ:128:VAL:CG1	58:DZ:132:ASN:O	2.69	0.41
1:CA:1495:U:O2'	35:DA:1919:A:N1	2.48	0.41
58:BZ:81:ARG:CZ	58:BZ:81:ARG:HB3	2.50	0.41
35:DA:1948:G:H8	35:DA:1948:G:C5'	2.32	0.41
1:AA:1511:G:C6	1:AA:1512:U:C4	3.08	0.41
2:CB:12:GLU:CA	2:CB:16:HIS:ND1	2.83	0.41
41:BG:15:VAL:HG22	41:BG:175:LEU:O	2.20	0.41
19:CS:9:VAL:C	19:CS:11:VAL:N	2.73	0.41
35:BA:2000:G:OP2	50:BR:3:HIS:HE1	2.03	0.41
40:BF:132:VAL:CG2	40:BF:133:ASN:H	2.29	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:AM:23:TYR:O	13:AM:66:LEU:HB3	2.20	0.41
20:CT:54:LYS:HA	20:CT:57:ARG:NH2	2.35	0.41
36:DB:81:G:O6	36:DB:96:U:O2	2.38	0.41
50:BR:41:ALA:C	50:BR:43:GLU:H	2.22	0.41
4:AD:205:GLU:OE1	5:AE:100:VAL:HG22	2.20	0.41
1:AA:1202:G:H2'	1:AA:1203:C:C5'	2.51	0.41
16:AP:75:ARG:O	16:AP:77:ALA:N	2.52	0.41
7:AG:146:GLU:OE2	7:AG:149:ARG:HD2	2.20	0.41
20:AT:44:ALA:O	20:AT:92:LEU:HD23	2.20	0.41
35:DA:750:A:C3'	35:DA:751:A:H5''	2.50	0.41
20:CT:44:ALA:HA	20:CT:92:LEU:HD21	2.02	0.41
35:DA:1430:C:H42	35:DA:1563:G:H1	1.68	0.41
35:BA:2455:G:H2'	35:BA:2456:C:H6	1.79	0.41
35:BA:1741:A:H2'	35:BA:1742:G:O4'	2.20	0.41
20:CT:73:HIS:O	20:CT:74:LYS:O	2.37	0.41
37:BC:139:PRO:HA	37:BC:145:THR:HG21	2.03	0.41
39:DE:7:VAL:HG13	39:DE:7:VAL:O	2.20	0.41
35:BA:2557:G:H2'	35:BA:2558:C:C6	2.55	0.41
24:CY:415:PRO:CG	24:CY:421:GLN:HG2	2.51	0.41
3:AC:206:GLU:O	3:AC:208:ILE:N	2.53	0.41
37:BC:48:LEU:N	37:BC:48:LEU:CD1	2.82	0.41
1:CA:1347:G:H1'	1:CA:1348:U:H5	1.86	0.41
27:B2:58:ALA:O	27:B2:62:THR:N	2.48	0.41
35:DA:729:G:C5	38:DD:208:LYS:HB2	2.55	0.41
38:DD:28:GLU:CD	38:DD:28:GLU:N	2.73	0.41
1:CA:955:U:H2'	1:CA:956:U:C6	2.56	0.41
42:BH:35:VAL:HG21	42:BH:75:ALA:CB	2.51	0.41
1:CA:151:A:H2'	1:CA:152:A:H5'	2.02	0.41
35:BA:118:A:H5'	35:BA:119:A:H8	1.86	0.41
50:DR:28:LEU:HD23	50:DR:29:LEU:HD12	2.00	0.41
52:BT:100:TYR:CD1	52:BT:100:TYR:N	2.89	0.41
7:AG:61:VAL:O	7:AG:64:GLN:HB3	2.20	0.41
35:DA:36:G:H2'	35:DA:37:C:H6	1.85	0.41
42:DH:92:ILE:HG22	42:DH:93:GLY:N	2.36	0.41
1:CA:44:G:C2	1:CA:45:U:H1'	2.55	0.41
1:AA:51:A:H4'	1:AA:52:G:C5'	2.51	0.41
1:CA:1061:G:H1'	10:CJ:56:HIS:CE1	2.56	0.41
8:CH:38:ILE:O	8:CH:39:LEU:C	2.58	0.41
35:DA:1317:A:H2'	35:DA:1318:C:H6	1.85	0.41
1:AA:318:G:C2	1:AA:336:C:N3	2.88	0.41
6:CF:29:ALA:O	6:CF:30:LEU:C	2.59	0.41
9:AI:35:GLU:HA	9:AI:38:GLN:HB2	2.01	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:AB:229:VAL:CG1	2:AB:230:VAL:N	2.83	0.41
7:AG:21:VAL:HG23	7:AG:22:LEU:H	1.85	0.41
35:BA:2288:A:C2	35:BA:2325:G:N7	2.88	0.41
35:DA:414:C:O2	35:DA:1864:U:O2'	2.26	0.41
35:DA:152:G:H1	35:DA:174:C:H42	1.68	0.41
2:CB:160:ASP:O	2:CB:161:ALA:HB2	2.20	0.41
35:BA:1956:U:C2'	35:BA:1957:C:H5'	2.50	0.41
4:AD:68:TYR:O	4:AD:69:GLY:C	2.59	0.41
22:AW:55:5MU:H2'	22:AW:56:U:C6	2.55	0.41
9:CI:97:LYS:N	9:CI:98:PRO:CD	2.83	0.41
14:CN:32:SER:O	14:CN:40:CYS:HA	2.20	0.41
42:BH:169:VAL:O	42:BH:170:ARG:CG	2.68	0.41
29:B4:27:THR:O	29:B4:28:LYS:CB	2.69	0.41
1:CA:408:A:H4'	4:CD:112:VAL:HG11	2.01	0.41
1:CA:429:U:OP1	4:CD:9:CYS:O	2.39	0.41
24:CY:142:THR:C	24:CY:144:ALA:N	2.74	0.41
40:BF:184:TYR:O	40:BF:188:ARG:HG2	2.21	0.41
35:DA:2579:C:H2'	35:DA:2580:U:O4'	2.20	0.41
10:CJ:4:ILE:HD13	10:CJ:74:ILE:CG1	2.43	0.41
40:BF:31:HIS:O	40:BF:34:TRP:HB3	2.20	0.41
35:BA:559:G:N2	53:BU:49:HIS:CD2	2.85	0.41
53:BU:53:ARG:O	53:BU:54:LYS:C	2.57	0.41
53:BU:55:ARG:HA	53:BU:58:ARG:CB	2.50	0.41
58:DZ:44:PHE:CZ	58:DZ:48:PHE:HD2	2.39	0.41
40:DF:157:VAL:CG2	40:DF:194:MET:HA	2.50	0.41
31:D6:7:ILE:HG23	31:D6:29:ASN:HD22	1.85	0.41
31:D6:53:LYS:HG3	31:D6:54:ILE:H	1.85	0.41
35:BA:212:G:O2'	35:BA:213:A:H5'	2.21	0.41
1:CA:1001(A):G:H8	1:CA:1002:G:C8	2.38	0.41
3:CC:76:VAL:HG23	3:CC:77:ILE:HG13	2.02	0.41
37:DC:114:VAL:O	37:DC:139:PRO:HG3	2.21	0.41
24:CY:274:ASP:O	24:CY:277:VAL:HG12	2.20	0.41
35:BA:2345:G:H5'	35:BA:2346:A:H5'	2.03	0.41
35:BA:2380:C:C4	35:BA:2381:C:C5	3.09	0.41
31:D6:43:CYS:O	31:D6:44:ARG:CB	2.64	0.41
44:DK:125:ARG:HG2	44:DK:125:ARG:HH11	1.85	0.41
24:CY:546:ILE:HG21	24:CY:565:VAL:HG21	2.02	0.41
53:BU:13:LYS:O	53:BU:17:ILE:HG13	2.21	0.41
40:BF:78:ILE:H	40:BF:78:ILE:HG12	1.64	0.41
48:DP:147:LEU:C	48:DP:148:LEU:HD12	2.41	0.41
48:BP:88:LEU:HD11	48:BP:95:VAL:HG11	2.02	0.41
39:DE:59:VAL:HG11	39:DE:63:LEU:HA	2.02	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:973:G:O4'	10:CJ:55:LYS:CG	2.60	0.41
35:BA:1495:A:H2'	35:BA:1496:A:C2	2.55	0.41
29:D4:31:ILE:HG22	29:D4:31:ILE:O	2.20	0.41
20:CT:26:ASN:HD22	20:CT:27:LYS:N	2.18	0.41
50:DR:45:ARG:O	50:DR:46:GLY:C	2.59	0.41
3:AC:77:ILE:O	3:AC:84:ILE:HG22	2.20	0.41
39:BE:132:HIS:HA	39:BE:135:HIS:CE1	2.56	0.41
44:BK:12:LEU:HA	44:BK:13:PRO:HD3	1.85	0.41
57:DY:11:ASP:O	57:DY:27:VAL:HA	2.21	0.41
38:DD:158:ALA:O	38:DD:196:VAL:CG1	2.67	0.41
42:BH:17:VAL:O	42:BH:45:VAL:CG2	2.62	0.41
2:AB:39:ILE:O	2:AB:41:ILE:HD13	2.20	0.41
46:DN:91:LEU:HD21	46:DN:98:VAL:HG11	2.02	0.41
44:DK:10:LEU:HD11	44:DK:27:LEU:HD11	2.01	0.41
50:DR:117:VAL:CG1	50:DR:118:GLU:H	2.32	0.41
52:DT:8:LYS:C	52:DT:10:VAL:H	2.24	0.41
1:CA:297:G:N2	1:CA:299:G:H3'	2.36	0.41
47:DO:69:ILE:HB	47:DO:77:ILE:CG2	2.51	0.41
35:DA:94:C:O2	35:DA:94:C:H2'	2.20	0.41
35:DA:1314:C:C6	35:DA:1314:C:H5'	2.37	0.41
35:DA:2388:A:H5'	35:DA:2389:G:OP2	2.20	0.41
1:AA:1343:G:H1'	9:AI:121:ARG:HH12	1.86	0.41
38:DD:177:LEU:O	38:DD:179:SER:N	2.54	0.41
1:CA:1026:G:H3'	1:CA:1027:C:H5'	2.02	0.41
1:AA:791:G:N2	1:AA:1497:G:O3'	2.48	0.41
35:DA:862:G:H2'	35:DA:863:A:O4'	2.19	0.41
35:DA:1052:C:O2'	35:DA:1053:C:P	2.79	0.41
1:AA:1122:U:H2'	1:AA:1123:A:C5'	2.50	0.41
11:CK:58:PRO:O	11:CK:59:TYR:C	2.58	0.41
35:BA:1052:C:O2'	35:BA:1053:C:P	2.78	0.41
35:BA:881:G:H2'	35:BA:882:G:C5'	2.51	0.41
35:DA:532:A:N1	35:DA:2020:A:H1'	2.35	0.41
35:BA:2593:U:C2	35:BA:2594:C:C5	3.09	0.41
32:B7:48:LYS:NZ	35:BA:125:G:H21	2.18	0.41
35:BA:748:G:C8	55:BW:89:ALA:HB1	2.56	0.41
35:BA:120:U:C5'	35:BA:121:G:OP1	2.68	0.41
1:CA:674:G:O4'	18:CR:81:PHE:CE1	2.73	0.41
12:AL:7:ILE:HA	12:AL:10:LEU:HD12	2.03	0.41
35:BA:17:G:H4'	53:BU:25:TRP:CH2	2.54	0.41
53:BU:25:TRP:CD1	53:BU:26:GLY:N	2.89	0.41
27:B2:20:GLU:C	27:B2:20:GLU:OE1	2.59	0.41
11:AK:120:ARG:HA	11:AK:121:PRO:HD3	1.82	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:960:A:C8	35:BA:962:G:C8	3.09	0.41
11:CK:48:ILE:N	11:CK:48:ILE:CD1	2.79	0.41
35:BA:688:U:H2'	35:BA:689:A:C8	2.56	0.41
35:DA:733:G:C6	35:DA:761:A:C8	3.08	0.41
1:CA:1305:G:H22	1:CA:1331:G:C2'	2.33	0.41
1:CA:335:C:O2'	1:CA:336:C:H5'	2.20	0.41
35:DA:688:U:H5'	35:DA:1780:A:H2	1.85	0.41
46:BN:56:ASN:HA	46:BN:125:GLY:N	2.36	0.41
14:CN:12:ARG:CB	14:CN:12:ARG:NH1	2.83	0.41
21:AU:2:GLY:C	21:AU:4:GLY:H	2.24	0.41
38:BD:166:GLN:CA	38:BD:166:GLN:NE2	2.82	0.41
26:B1:8:SER:HB3	26:B1:66:HIS:CG	2.56	0.41
35:DA:603:A:O2'	35:DA:604:G:P	2.79	0.41
49:DQ:76:LYS:CB	49:DQ:91:GLU:HG3	2.49	0.41
1:AA:1248:A:C5	1:AA:1249:C:C5	3.08	0.41
41:BG:27:ASN:HB3	41:BG:30:GLU:HB2	2.03	0.41
35:BA:1235:G:C2	35:BA:1236:G:N2	2.88	0.41
35:DA:1034:G:C6	35:DA:1035:U:N3	2.88	0.41
15:AO:83:GLU:C	15:AO:85:LEU:N	2.69	0.41
15:AO:83:GLU:O	15:AO:85:LEU:N	2.52	0.41
1:CA:102:G:N3	1:CA:151:A:H2	2.19	0.41
35:DA:764:A:C5	38:DD:209:ALA:HB1	2.55	0.41
54:DV:1:MET:HB3	54:DV:2:PHE:H	1.52	0.41
35:BA:343:C:O2'	35:BA:344:G:H5'	2.20	0.41
22:CW:69:C:H2'	22:CW:70:C:C6	2.55	0.41
2:AB:7:VAL:O	2:AB:11:LEU:CG	2.69	0.41
35:BA:541:C:H42	35:BA:552:G:H1	1.67	0.41
22:AV:30:G:N2	22:AV:31:G:H1'	2.36	0.41
13:CM:119:GLY:C	13:CM:121:LYS:H	2.23	0.41
43:DJ:128:UNK:C	43:DJ:130:UNK:N	2.81	0.41
47:DO:53:LYS:O	47:DO:54:GLU:C	2.59	0.41
1:CA:946:A:H3'	1:CA:947:G:C8	2.55	0.41
1:CA:946:A:C2	1:CA:947:G:C5	3.08	0.41
49:BQ:120:ILE:O	49:BQ:121:ALA:C	2.58	0.41
55:BW:12:ILE:HG13	55:BW:42:ARG:HH11	1.84	0.41
6:CF:20:ALA:O	6:CF:21:LEU:C	2.59	0.41
35:DA:1572:A:O2'	35:DA:1573:G:H5'	2.20	0.41
39:BE:152:LYS:HG3	39:BE:153:GLY:H	1.85	0.41
53:BU:37:GLU:O	53:BU:40:PHE:HB2	2.21	0.41
1:CA:1216:G:H2'	1:CA:1217:C:H6	1.84	0.41
3:CC:127:ARG:NH1	3:CC:127:ARG:HG2	2.36	0.41
1:CA:532:A:O2'	1:CA:533:A:P	2.79	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1856:G:H1	35:BA:1886:C:N4	2.18	0.41
35:BA:2154:G:H21	35:BA:2155:G:H1'	1.85	0.41
17:CQ:8:GLY:O	17:CQ:56:VAL:HA	2.21	0.41
9:AI:50:LEU:C	9:AI:52:ALA:N	2.74	0.41
1:CA:1435:G:H2'	1:CA:1436:U:C6	2.55	0.41
20:AT:38:LYS:O	20:AT:40:ALA:N	2.52	0.41
37:BC:19:LYS:HG2	37:BC:20:VAL:N	2.36	0.41
13:AM:40:ASN:HD21	13:AM:42:ALA:HB3	1.86	0.41
35:BA:1415:U:H3	35:BA:1587:A:H61	1.67	0.41
44:DK:33:ASN:C	44:DK:35:MET:H	2.23	0.41
35:DA:654(E):G:H2'	35:DA:654(F):C:H5'	2.03	0.41
57:BY:20:TYR:CD1	57:BY:20:TYR:N	2.88	0.41
1:CA:1145:C:H6	1:CA:1145:C:H5''	1.86	0.41
10:CJ:28:ARG:NH1	10:CJ:28:ARG:HG2	2.36	0.41
17:AQ:26:GLN:HG2	17:AQ:37:LYS:HG3	2.02	0.41
35:DA:1118:C:H2'	35:DA:1119:C:C6	2.56	0.41
48:DP:6:LEU:HG	48:DP:7:ARG:H	1.84	0.41
41:BG:42:GLY:C	41:BG:43:LEU:HD22	2.41	0.41
41:BG:55:LYS:C	41:BG:57:ALA:H	2.22	0.41
41:BG:73:ALA:H	41:BG:87:PRO:CD	2.32	0.41
1:CA:542:G:H5'	4:CD:41:GLY:HA3	2.01	0.41
24:CY:629:GLY:HA3	24:CY:647:VAL:HG12	2.03	0.41
1:AA:409:G:H5'	4:AD:24:GLU:OE1	2.20	0.41
40:BF:201:VAL:HA	40:BF:204:ASN:HD22	1.86	0.41
40:BF:107:LYS:HD2	40:BF:205:ARG:O	2.21	0.41
24:AY:170:ARG:O	24:AY:171:GLU:CG	2.59	0.41
35:DA:902:C:H2'	35:DA:903:C:H6	1.86	0.41
40:BF:39:TRP:CH2	40:BF:106:ARG:NE	2.81	0.41
48:BP:7:ARG:CB	48:BP:8:PRO:CD	2.94	0.41
46:DN:3:THR:CG2	46:DN:4:TYR:N	2.80	0.41
53:DU:92:ARG:CZ	54:DV:11:GLN:H	2.33	0.41
53:BU:88:ILE:O	53:BU:90:VAL:N	2.50	0.41
35:DA:611:C:H2'	35:DA:612:C:C6	2.55	0.41
35:BA:2393:A:O2'	35:BA:2394:C:H5'	2.20	0.41
40:DF:168:ARG:HG2	40:DF:175:THR:HG21	2.02	0.41
57:DY:28:LYS:HB2	57:DY:28:LYS:HE3	1.91	0.41
40:DF:152:GLU:OE1	40:DF:191:ARG:HD2	2.20	0.41
5:CE:131:ILE:O	5:CE:134:ALA:HB3	2.21	0.41
41:DG:141:PHE:O	41:DG:144:ILE:HG22	2.20	0.41
41:DG:73:ALA:H	41:DG:87:PRO:HG2	1.86	0.41
10:CJ:81:THR:OG1	10:CJ:82:ILE:N	2.54	0.41
58:BZ:119:GLU:HG3	58:BZ:119:GLU:O	2.20	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
30:B5:2:ALA:O	30:B5:3:LYS:CB	2.67	0.41
35:DA:2015:A:H2'	35:DA:2016:U:O4'	2.21	0.41
35:DA:2615:U:H2'	35:DA:2616:C:H6	1.85	0.41
35:BA:832:G:OP1	48:BP:40:SER:HB3	2.21	0.41
35:BA:806:C:P	48:BP:39:LYS:HD3	2.60	0.41
40:DF:17:ARG:HG3	40:DF:17:ARG:NH1	2.35	0.41
35:BA:2287:A:H2	35:BA:2346:A:C2	2.37	0.41
5:CE:76:ILE:HG22	5:CE:118:ILE:HD13	2.03	0.41
5:CE:149:GLU:O	5:CE:153:LYS:HE2	2.21	0.41
5:CE:73:ASN:HD22	5:CE:73:ASN:N	2.16	0.41
35:DA:2468:G:N2	35:DA:2481:G:O2'	2.54	0.41
27:D2:63:VAL:HG12	27:D2:64:LEU:N	2.36	0.41
4:CD:129:ASN:H	4:CD:129:ASN:HD22	1.69	0.41
26:B1:84:GLY:O	26:B1:86:SER:OG	2.32	0.41
46:BN:120:LEU:HD11	46:BN:122:VAL:CG2	2.50	0.41
35:BA:2507:C:C2	35:BA:2583:G:C2	3.09	0.41
35:DA:2575:C:OP1	39:DE:144:ARG:HG3	2.21	0.41
48:BP:114:ILE:HD12	48:BP:114:ILE:C	2.40	0.41
2:CB:214:ILE:O	2:CB:218:ALA:HB2	2.20	0.41
44:BK:10:LEU:HD11	44:BK:27:LEU:CD1	2.51	0.41
1:AA:251:G:H4'	1:AA:252:U:O5'	2.19	0.41
1:AA:1103:C:C5'	2:AB:98:LEU:HD13	2.51	0.41
35:BA:2820:A:O4'	50:BR:5:LYS:HG3	2.20	0.41
1:CA:1194:U:H2'	1:CA:1195:C:C6	2.56	0.41
1:CA:1442(A):G:N2	52:DT:119:LYS:HA	2.36	0.41
52:BT:91:ARG:HG2	52:BT:116:ALA:HA	2.02	0.41
27:B2:38:GLN:NE2	27:B2:44:LEU:CB	2.84	0.41
35:DA:2838:G:C1'	50:DR:45:ARG:HH11	2.33	0.41
3:AC:43:LEU:C	3:AC:45:LYS:N	2.73	0.41
35:DA:2689:U:H4'	35:DA:2690:C:OP2	2.21	0.41
20:CT:18:GLN:O	20:CT:19:SER:C	2.59	0.41
9:CI:114:TYR:N	9:CI:114:TYR:CD2	2.89	0.41
2:AB:220:ASP:O	2:AB:222:ILE:N	2.54	0.41
35:BA:1658:C:C2	35:BA:1659:U:C5	3.08	0.41
22:AW:28:U:O2'	22:AW:29:C:H5'	2.21	0.41
2:CB:28:PHE:CE1	2:CB:31:TYR:HB2	2.55	0.41
57:BY:10:GLY:C	57:BY:27:VAL:HG13	2.41	0.41
26:B1:12:PRO:HG3	35:BA:1365:A:H5''	2.02	0.41
46:BN:67:LEU:HD22	46:BN:87:LEU:HB3	2.03	0.41
1:CA:815:A:N6	1:CA:1509:C:H1'	2.36	0.41
36:BB:63:G:C2	36:BB:64:C:C2	3.09	0.41
24:CY:510:VAL:HG13	24:CY:567:LEU:HD13	2.02	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:CM:19:LEU:HA	13:CM:22:ILE:HD13	2.01	0.41
24:CY:413:ILE:CG2	24:CY:413:ILE:O	2.68	0.41
25:B0:49:LYS:H	25:B0:80:HIS:HD1	1.68	0.41
58:BZ:143:GLY:O	58:BZ:144:LEU:HD13	2.20	0.41
35:BA:598:G:C5'	48:BP:15:ARG:HB2	2.40	0.41
47:DO:104:ARG:HE	52:DT:33:LYS:CE	2.25	0.41
37:BC:111:PHE:CE1	37:BC:137:LEU:HD13	2.39	0.41
1:CA:1269:A:H5'	21:CU:18:TYR:O	2.21	0.41
10:CJ:35:SER:O	10:CJ:36:GLY:O	2.38	0.41
51:DS:49:VAL:CG1	51:DS:50:SER:H	2.26	0.41
35:DA:893:C:H2'	35:DA:894:C:C6	2.55	0.41
35:BA:1187:G:H5''	54:BV:81:TYR:CE2	2.55	0.41
24:CY:298:VAL:HG22	24:CY:299:VAL:H	1.85	0.41
35:DA:2197:U:H1'	35:DA:2198:A:C8	2.55	0.41
1:AA:1372:U:OP1	9:AI:71:SER:HB3	2.20	0.41
58:DZ:100:VAL:CG2	58:DZ:126:VAL:HG21	2.51	0.41
49:DQ:36:ALA:HA	49:DQ:129:THR:HG22	2.03	0.41
1:CA:1169:A:H2'	1:CA:1170:A:C8	2.56	0.41
32:B7:26:GLY:O	32:B7:30:VAL:HG23	2.21	0.41
35:BA:2453:A:O2'	35:BA:2454:G:H5'	2.21	0.41
13:CM:16:ASP:HB3	13:CM:41:PRO:HB3	2.03	0.41
45:BL:67:UNK:C	45:BL:69:UNK:N	2.83	0.41
28:B3:15:TYR:HD1	28:B3:15:TYR:H	1.68	0.41
28:B3:22:ALA:HA	28:B3:46:ASN:ND2	2.34	0.41
24:AY:519:ARG:NH2	24:AY:678:GLU:H	2.19	0.41
22:AV:5:G:O2'	22:AV:6:G:H5'	2.20	0.41
22:AV:68:C:O5'	22:AV:68:C:H6	2.02	0.41
24:AY:491:VAL:CG1	24:AY:492:ASP:H	2.33	0.41
35:DA:2720:U:C2	35:DA:2721:A:C8	3.09	0.41
1:CA:334:C:H2'	1:CA:335:C:C6	2.56	0.41
35:BA:1114:G:H2'	35:BA:1115:G:C5'	2.50	0.41
9:AI:37:PHE:HB3	9:AI:43:ALA:HB2	2.02	0.41
26:D1:49:VAL:O	26:D1:59:THR:HA	2.21	0.41
1:CA:1332:A:H2'	1:CA:1333:A:H8	1.85	0.41
29:B4:39:CYS:SG	29:B4:42:PHE:CE2	3.08	0.41
30:D5:29:THR:O	30:D5:42:PRO:HD2	2.21	0.41
35:DA:118:A:H5'	35:DA:119:A:H8	1.85	0.41
35:BA:1825:A:OP1	38:BD:249:PRO:HD3	2.20	0.41
35:BA:332:A:H4'	35:BA:333:G:OP1	2.20	0.41
2:AB:156:LYS:O	2:AB:157:ARG:CB	2.66	0.41
35:DA:1360:A:H5'	35:DA:1361:G:OP2	2.20	0.41
35:DA:18:C:O2'	53:DU:23:GLY:HA2	2.20	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1409:C:H2'	1:AA:1410:G:C8	2.51	0.41
42:DH:106:THR:HG22	42:DH:112:PRO:HB3	2.01	0.41
53:BU:75:ASN:ND2	53:BU:77:SER:OG	2.53	0.41
55:BW:11:ARG:O	55:BW:11:ARG:HD3	2.20	0.41
1:CA:67:C:H2'	1:CA:68:G:H8	1.84	0.41
1:AA:822:C:O2'	1:AA:823:G:H5'	2.20	0.41
1:AA:425:G:O2'	1:AA:426:G:H5'	2.21	0.41
1:AA:1458:G:OP1	20:AT:35:THR:HG21	2.21	0.41
1:CA:602:A:H2'	1:CA:603:U:C6	2.56	0.41
1:CA:824:C:H2'	1:CA:825:G:C8	2.54	0.41
1:CA:154:C:H2'	1:CA:155:C:C6	2.56	0.41
7:AG:134:ALA:O	7:AG:135:VAL:C	2.57	0.41
39:DE:161:GLY:O	39:DE:162:ALA:C	2.59	0.41
38:DD:205:VAL:HG12	38:DD:205:VAL:O	2.21	0.41
1:CA:532:A:H61	3:CC:193:TYR:HB3	1.84	0.41
36:DB:29:A:C2	36:DB:56:G:C2	3.09	0.41
24:CY:358:MET:HE3	24:CY:363:ARG:HG2	2.01	0.41
35:DA:1786:A:H2	35:DA:2606:C:H1'	1.86	0.41
24:CY:478:LYS:HA	24:CY:479:PRO:HD3	1.75	0.41
1:AA:224:C:H2'	1:AA:225:C:H6	1.85	0.41
37:DC:19:LYS:HG2	37:DC:20:VAL:N	2.36	0.41
35:DA:1645:G:OP1	35:DA:1646:C:H5'	2.21	0.41
49:DQ:34:LEU:HB2	49:DQ:118:LEU:HD22	2.03	0.41
35:BA:1142:U:H6	35:BA:1142:U:O5'	2.03	0.41
35:DA:1960:A:H8	35:DA:1960:A:H5''	1.85	0.41
1:CA:610:G:H2'	1:CA:610:G:N3	2.35	0.41
5:AE:26:PHE:CD1	5:AE:26:PHE:N	2.88	0.41
35:BA:972:G:OP2	35:BA:974:G:H5''	2.20	0.41
35:DA:1765:C:H2'	35:DA:1766:U:H6	1.86	0.41
29:B4:26:SER:OG	29:B4:27:THR:N	2.51	0.41
41:BG:97:ASP:O	41:BG:101:ILE:CG1	2.68	0.41
41:BG:31:VAL:O	41:BG:33:ARG:HD3	2.21	0.41
39:BE:120:TRP:CE3	39:BE:155:LYS:HE3	2.56	0.41
24:AY:162:VAL:HG21	24:AY:255:ILE:CD1	2.51	0.41
40:BF:187:VAL:CG1	48:BP:7:ARG:HH22	2.34	0.41
35:DA:185:U:H2'	35:DA:186:G:C8	2.56	0.41
35:DA:212:G:O2'	35:DA:213:A:H5'	2.20	0.41
35:BA:996:A:O3'	53:BU:92:ARG:CG	2.69	0.41
46:BN:2:LYS:HE2	53:BU:95:LEU:HD21	2.03	0.41
53:BU:50:ARG:O	53:BU:52:ARG:N	2.53	0.41
53:BU:76:TYR:O	53:BU:79:PHE:HB3	2.20	0.41
54:BV:38:LEU:C	54:BV:39:LEU:HD22	2.41	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:AY:489:LYS:HG3	24:AY:597:GLY:HA2	2.03	0.41
35:BA:2283:C:H2'	35:BA:2284:C:O4'	2.21	0.41
48:BP:33:ARG:O	48:BP:34:GLY:O	2.38	0.41
48:BP:47:ASP:HB3	48:BP:48:PRO:C	2.41	0.41
35:DA:295:G:OP1	57:DY:2:ARG:NH2	2.54	0.41
57:DY:28:LYS:HD2	57:DY:37:VAL:HG11	2.03	0.41
40:DF:179:GLU:O	40:DF:181:LEU:N	2.54	0.41
31:D6:53:LYS:CG	31:D6:54:ILE:H	2.33	0.41
31:D6:5:VAL:HG22	35:DA:2283:C:OP1	2.21	0.41
29:D4:9:LEU:HD12	29:D4:10:VAL:H	1.86	0.41
41:DG:53:LEU:HD12	41:DG:56:ALA:CB	2.50	0.41
58:BZ:122:ARG:O	58:BZ:123:ASP:OD1	2.38	0.41
35:DA:1058:G:N2	44:DK:126:MET:HE3	2.35	0.41
1:CA:976:G:H5'	1:CA:1358:U:O2'	2.20	0.41
35:BA:271(P):C:H2'	35:BA:271(Q):G:O4'	2.19	0.41
35:BA:2584:U:O5'	35:BA:2584:U:O2	2.39	0.41
48:DP:100:LEU:CD2	48:DP:100:LEU:N	2.84	0.41
48:DP:114:ILE:C	48:DP:114:ILE:HD12	2.40	0.41
48:DP:114:ILE:HG13	48:DP:130:PHE:HD1	1.85	0.41
48:BP:114:ILE:HG13	48:BP:130:PHE:HD1	1.85	0.41
35:BA:967:C:O2'	35:BA:968:G:H5'	2.20	0.41
24:CY:631:ILE:HG21	35:DA:1067:A:N9	2.35	0.41
1:CA:1053:G:N7	1:CA:1200:C:C5'	2.76	0.41
1:CA:1055:A:O5'	1:CA:1055:A:H8	2.02	0.41
51:DS:70:GLY:C	51:DS:101:LEU:CD2	2.88	0.41
35:DA:2376:A:N6	51:DS:92:TYR:HE2	2.19	0.41
35:DA:2318:G:C2'	35:DA:2319:G:OP2	2.69	0.41
50:BR:28:LEU:HD23	50:BR:29:LEU:HD12	2.02	0.41
9:AI:114:TYR:N	9:AI:114:TYR:CD2	2.88	0.41
27:D2:5:GLU:O	27:D2:9:GLN:HG3	2.20	0.41
5:CE:7:GLU:HG2	5:CE:112:LEU:HD21	2.02	0.41
25:D0:60:PHE:CD1	25:D0:60:PHE:C	2.94	0.41
37:DC:84:ILE:HG23	37:DC:95:VAL:HG12	2.03	0.41
5:AE:34:VAL:O	5:AE:34:VAL:HG13	2.21	0.41
58:DZ:128:VAL:CG2	58:DZ:132:ASN:HB2	2.44	0.41
44:DK:3:LYS:HE3	44:DK:29:GLN:HB3	2.02	0.41
24:CY:490:PRO:HG3	24:CY:516:PRO:HD2	2.02	0.41
50:DR:13:HIS:HA	50:DR:17:ARG:NH2	2.35	0.41
22:CV:56:C:O2	41:DG:83:ARG:HG2	2.21	0.41
58:BZ:150:LEU:H	58:BZ:150:LEU:HD23	1.82	0.41
25:B0:12:ASN:C	25:B0:14:ARG:H	2.22	0.41
9:AI:84:ALA:C	9:AI:86:VAL:N	2.74	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
47:DO:104:ARG:NH2	52:DT:33:LYS:CE	2.80	0.41
1:CA:894:G:H2'	1:CA:895:G:O4'	2.21	0.41
35:BA:2068:U:C4	35:BA:2430:A:H2	2.38	0.41
39:BE:81:ILE:O	39:BE:82:ARG:C	2.59	0.41
39:DE:1:MET:O	39:DE:2:LYS:C	2.58	0.41
39:DE:46:ALA:HA	39:DE:82:ARG:O	2.21	0.41
39:DE:82:ARG:O	39:DE:83:ASP:C	2.57	0.41
35:DA:973:A:O4'	35:DA:1188:U:C6	2.74	0.41
21:CU:24:ARG:HG2	21:CU:24:ARG:HH11	1.85	0.41
9:AI:9:ARG:HB3	9:AI:104:ARG:HH12	1.85	0.41
13:CM:99:ARG:O	13:CM:100:GLY:C	2.58	0.41
35:BA:883:G:N2	35:BA:894:C:C2	2.89	0.41
35:DA:803:U:HO2'	35:DA:804:A:H5'	1.84	0.41
42:DH:105:LEU:CD2	42:DH:105:LEU:N	2.84	0.41
26:D1:67:ILE:HB	26:D1:68:PRO:CD	2.51	0.41
35:BA:418:G:H2'	35:BA:419:C:H6	1.85	0.41
24:AY:514:VAL:HG21	24:AY:593:ALA:HB3	1.98	0.41
1:AA:676:A:H1'	11:AK:115:PRO:HB3	2.03	0.41
28:D3:22:ALA:CA	28:D3:46:ASN:HD22	2.34	0.41
49:BQ:110:THR:HG23	49:BQ:113:GLN:HG3	2.02	0.41
10:CJ:18:ALA:C	10:CJ:20:ALA:N	2.72	0.41
10:AJ:22:LYS:C	10:AJ:24:VAL:H	2.23	0.41
27:B2:8:LYS:O	27:B2:9:GLN:C	2.58	0.41
24:CY:315:LYS:C	24:CY:316:ILE:HD13	2.41	0.41
1:AA:1347:G:H2'	1:AA:1373:G:H1	1.85	0.41
8:AH:119:LEU:HB3	8:AH:123:GLU:HB3	2.01	0.41
36:DB:21:G:O2'	36:DB:22:U:P	2.78	0.41
35:DA:2412:A:N6	35:DA:2413:G:C2	2.89	0.41
12:AL:117:ARG:HH22	12:AL:124:LYS:HB2	1.84	0.41
5:AE:145:LYS:O	5:AE:149:GLU:HG2	2.20	0.41
38:BD:14:ARG:HG3	38:BD:15:PHE:H	1.85	0.41
26:B1:27:GLU:O	26:B1:28:GLY:C	2.58	0.41
14:AN:12:ARG:NH1	14:AN:12:ARG:CB	2.84	0.41
1:CA:1378:C:C5	1:CA:1379:G:C8	3.09	0.41
30:D5:42:PRO:O	30:D5:43:HIS:HB2	2.21	0.41
38:BD:7:LYS:HB3	38:BD:8:PRO:HD2	2.03	0.41
35:BA:2009:G:O2'	35:BA:2010:G:H5'	2.20	0.41
35:DA:1064:C:N4	35:DA:1074:G:H1	2.19	0.41
35:DA:1841:U:H2'	35:DA:1842:G:C8	2.55	0.41
35:BA:329:G:H22	57:BY:19:LYS:HE3	1.86	0.41
1:AA:956:U:C5	1:AA:957:U:C5	3.08	0.41
1:AA:143:A:N1	1:AA:220:G:O6	2.54	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:AD:140:VAL:HG12	4:AD:141:ARG:O	2.20	0.41
35:BA:626:U:N3	48:BP:105:LEU:HG	2.35	0.41
46:DN:97:ARG:HB3	46:DN:101:HIS:HD2	1.86	0.41
17:AQ:51:TYR:CE1	17:AQ:73:VAL:HG11	2.56	0.41
55:BW:80:PRO:O	55:BW:100:THR:CG2	2.69	0.41
38:BD:3:VAL:HG12	38:BD:17:THR:HB	2.03	0.41
22:CW:3:C:H2'	22:CW:4:G:H5''	2.01	0.41
54:DV:72:VAL:HG23	54:DV:72:VAL:O	2.21	0.41
7:AG:99:LEU:HD22	7:AG:103:TRP:CZ2	2.56	0.41
7:AG:103:TRP:O	7:AG:104:LEU:C	2.58	0.41
1:AA:652:U:C2	1:AA:752:G:N2	2.89	0.41
35:BA:2706:G:N3	35:BA:2706:G:H2'	2.35	0.41
35:DA:1131:G:OP1	46:DN:80:GLY:N	2.49	0.41
1:CA:1047:G:O2'	1:CA:1048:G:H5'	2.21	0.41
38:DD:125:ILE:O	38:DD:126:GLN:HB3	2.20	0.41
1:AA:341:C:O2	1:AA:349:A:C2	2.73	0.41
38:BD:205:VAL:HG12	38:BD:205:VAL:O	2.20	0.41
1:CA:398:C:O2'	1:CA:399:G:H5'	2.21	0.41
1:CA:32:A:H3'	1:CA:33:A:H8	1.85	0.41
18:AR:66:LEU:HG	18:AR:70:ILE:HD11	2.01	0.41
24:CY:443:HIS:HB3	24:CY:446:THR:HG23	2.02	0.41
58:DZ:74:VAL:HG22	58:DZ:86:VAL:HG13	2.01	0.41
17:CQ:88:TYR:O	17:CQ:91:ARG:N	2.54	0.41
35:BA:1651:G:C2	35:BA:2007:C:C2	3.09	0.41
1:AA:282:A:H3'	1:AA:283:C:C6	2.56	0.41
52:BT:20:PRO:O	52:BT:22:PHE:HD2	2.03	0.41
36:BB:36:C:H2'	36:BB:37:C:C6	2.56	0.41
35:DA:2563:U:H2'	35:DA:2565:A:OP2	2.21	0.41
35:BA:398:G:H2'	35:BA:399:G:C8	2.56	0.41
35:BA:592:G:N2	35:BA:593:G:H1'	2.36	0.41
15:CO:57:LEU:N	15:CO:57:LEU:HD23	2.36	0.41
35:DA:1214:A:H2'	35:DA:1215:G:O4'	2.21	0.41
42:DH:169:VAL:HG13	42:DH:170:ARG:H	1.82	0.41
40:DF:103:LYS:HA	40:DF:106:ARG:CG	2.51	0.41
29:B4:10:VAL:CG2	29:B4:11:PRO:CD	2.99	0.41
29:B4:6:HIS:C	29:B4:8:LYS:N	2.74	0.41
41:BG:111:LEU:HD21	41:BG:120:LEU:HD21	2.02	0.41
29:B4:10:VAL:CG1	29:B4:27:THR:HA	2.51	0.41
41:BG:102:PHE:O	41:BG:105:LYS:N	2.53	0.41
41:BG:56:ALA:CA	41:BG:59:GLU:OE1	2.66	0.41
10:AJ:6:ILE:CG2	10:AJ:98:ILE:HD12	2.41	0.41
10:AJ:4:ILE:H	10:AJ:4:ILE:HD12	1.81	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:BC:118:PRO:C	37:BC:121:MET:HG2	2.42	0.41
4:CD:18:LYS:HE2	4:CD:20:TYR:CE2	2.56	0.41
24:CY:606:MET:SD	24:CY:673:PHE:HA	2.60	0.41
24:CY:138:LYS:HG2	62:CY:703:GDP:C6	2.54	0.41
23:AX:13:A:C3'	23:AX:14:A:C5'	2.78	0.41
40:BF:110:LEU:CD1	40:BF:202:PHE:HE1	2.34	0.41
40:BF:181:LEU:O	40:BF:205:ARG:NH1	2.54	0.41
10:CJ:6:ILE:O	10:CJ:71:LEU:HD12	2.21	0.41
24:AY:111:SER:O	24:AY:112:GLN:C	2.58	0.41
24:AY:25:LYS:N	62:AY:703:GDP:O2B	2.54	0.41
24:AY:138:LYS:HE2	62:AY:703:GDP:C4	2.56	0.41
24:AY:117:GLN:O	24:AY:118:SER:C	2.58	0.41
24:AY:120:THR:O	24:AY:124:GLN:CD	2.59	0.41
24:AY:138:LYS:HE2	62:AY:703:GDP:N9	2.36	0.41
53:DU:50:ARG:O	53:DU:52:ARG:N	2.53	0.41
16:AP:32:TYR:CD2	16:AP:32:TYR:O	2.61	0.41
41:BG:77:ILE:O	41:BG:78:SER:C	2.59	0.41
53:BU:46:ALA:O	53:BU:47:TYR:C	2.59	0.41
53:BU:50:ARG:HH11	54:BV:70:ILE:CG2	2.34	0.41
48:BP:31:ALA:C	48:BP:33:ARG:N	2.73	0.41
58:DZ:28:MET:O	58:DZ:34:ASN:HB2	2.21	0.41
35:DA:82:G:N1	35:DA:103:A:OP2	2.53	0.41
40:DF:168:ARG:O	40:DF:170:LEU:N	2.53	0.41
57:DY:77:PRO:HB2	57:DY:99:CYS:SG	2.61	0.41
57:DY:87:LYS:O	57:DY:88:LYS:HB2	2.20	0.41
58:BZ:97:GLU:HB3	58:BZ:125:LEU:HD11	2.03	0.41
51:BS:15:ARG:CB	51:BS:18:ILE:HD11	2.36	0.41
27:B2:67:LYS:O	27:B2:69:ARG:N	2.53	0.41
48:DP:56:SER:O	48:DP:58:THR:N	2.54	0.41
29:D4:10:VAL:CG1	29:D4:27:THR:HA	2.51	0.41
29:D4:27:THR:O	29:D4:28:LYS:CB	2.69	0.41
1:AA:794:A:O2'	1:AA:795:C:H5'	2.21	0.41
41:DG:114:ILE:O	41:DG:115:ARG:HB2	2.20	0.41
10:CJ:31:GLY:O	10:CJ:32:ALA:C	2.58	0.41
30:D5:44:THR:O	30:D5:51:TYR:CE1	2.70	0.41
1:CA:1037:C:H2'	1:CA:1038:C:N3	2.34	0.41
35:DA:1453:U:H2'	35:DA:1455:G:C8	2.56	0.41
3:CC:83:ARG:O	3:CC:86:VAL:N	2.54	0.41
30:B5:2:ALA:N	35:BA:2015:A:C1'	2.84	0.41
30:D5:3:LYS:NZ	35:DA:2613:U:O2'	2.49	0.41
37:DC:134:PRO:HB2	37:DC:135:ARG:HD2	2.03	0.41
24:CY:151:ARG:O	24:CY:155:GLU:HB2	2.21	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
12:AL:17:LYS:CD	12:AL:18:VAL:HG22	2.47	0.41
35:DA:820:A:N3	35:DA:943:U:O2'	2.47	0.41
41:BG:133:LEU:C	41:BG:133:LEU:CD1	2.89	0.41
31:B6:20:ASN:ND2	31:B6:44:ARG:HH22	2.18	0.41
51:BS:92:TYR:CG	51:BS:93:LYS:N	2.89	0.41
51:BS:87:PHE:HB2	51:BS:106:ARG:HH21	1.85	0.41
35:DA:2370:G:H2'	35:DA:2371:G:O4'	2.21	0.41
3:CC:59:ARG:HG3	3:CC:64:VAL:HA	2.01	0.41
44:DK:121:GLU:O	44:DK:125:ARG:NE	2.53	0.41
46:DN:120:LEU:HD13	46:DN:121:LYS:N	2.36	0.41
49:DQ:55:VAL:CG1	49:DQ:56:ARG:H	2.29	0.41
40:BF:10:PRO:HG2	40:BF:11:VAL:N	2.36	0.41
38:BD:67:PHE:HD2	38:BD:67:PHE:HA	1.73	0.41
1:CA:1452:C:O4'	1:CA:1452:C:OP1	2.39	0.41
26:B1:84:GLY:O	26:B1:85:LEU:C	2.59	0.41
35:BA:1882:C:H2'	35:BA:1883:G:O4'	2.20	0.41
48:DP:83:VAL:H	48:DP:115:LEU:HD23	1.83	0.41
48:DP:106:LEU:HD12	48:DP:106:LEU:N	2.36	0.41
35:BA:1803:A:C8	35:BA:1804:C:C5	3.09	0.41
35:DA:813:U:C2	35:DA:814:C:C5	3.09	0.41
39:BE:117:MET:HA	39:BE:122:PHE:N	2.18	0.41
35:DA:1820:U:H3	38:DD:199:ALA:HA	1.86	0.41
44:BK:55:VAL:HG13	44:BK:57:ILE:HD11	2.03	0.41
44:BK:6:ALA:CB	44:BK:30:HIS:CE1	3.04	0.41
26:D1:26:ARG:HG3	26:D1:27:GLU:CG	2.43	0.41
39:DE:59:VAL:CG2	39:DE:62:PRO:O	2.69	0.41
35:DA:2786:U:O2'	39:DE:62:PRO:HA	2.20	0.41
1:AA:1014:A:H4'	19:AS:14:HIS:CG	2.55	0.41
35:DA:1495:A:H2'	35:DA:1496:A:N3	2.36	0.41
35:BA:2572:A:C5'	35:BA:2574:G:H4'	2.35	0.41
35:DA:361:G:N2	35:DA:362:U:H1'	2.35	0.41
1:AA:1053:G:C4	1:AA:1199:U:C5	3.08	0.41
35:DA:130:C:O3'	35:DA:1349:A:H1'	2.21	0.41
35:BA:1141:U:OP1	46:BN:25:ARG:NH1	2.54	0.41
46:BN:22:THR:HB	46:BN:25:ARG:CB	2.47	0.41
35:BA:2318:G:C2'	35:BA:2319:G:OP2	2.69	0.41
35:BA:2712:U:O4'	35:BA:2712:U:O2	2.39	0.41
51:DS:101:LEU:O	51:DS:102:ALA:O	2.39	0.41
51:DS:74:ALA:CB	51:DS:103:GLU:HB2	2.46	0.41
35:DA:1144:G:C6	35:DA:1145:C:C4	3.08	0.41
41:DG:34:LEU:HD13	41:DG:99:MET:CE	2.51	0.41
1:AA:1442(B):A:N3	1:AA:1442(B):A:H2'	2.36	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:323:U:H2'	1:CA:324:G:O4'	2.21	0.41
35:DA:2820:A:O4'	50:DR:5:LYS:HG3	2.20	0.41
35:BA:192:C:O2'	35:BA:802:A:N3	2.49	0.41
13:AM:81:LEU:H	13:AM:81:LEU:HD22	1.83	0.41
55:DW:10:VAL:HG21	55:DW:103:ILE:HG13	2.03	0.41
52:BT:30:VAL:HG22	52:BT:84:GLN:O	2.21	0.41
2:AB:222:ILE:HB	2:AB:226:ARG:NH2	2.31	0.41
35:BA:2838:G:C1'	50:BR:45:ARG:HH11	2.34	0.41
19:CS:20:LEU:HA	19:CS:20:LEU:HD23	1.83	0.41
29:D4:48:ARG:O	29:D4:49:PHE:HD1	2.01	0.41
35:BA:1657:C:H2'	35:BA:1658:C:C6	2.55	0.41
1:CA:953:G:H5'	1:CA:965:A:N6	2.28	0.41
17:AQ:21:VAL:HG21	17:AQ:59:ILE:HD11	2.03	0.41
1:CA:252:U:C4	1:CA:253:U:O4	2.74	0.41
1:AA:1250:A:C2	1:AA:1251:A:C4	3.09	0.41
1:CA:1392:G:N2	1:CA:1502:A:H8	2.19	0.41
35:DA:614(B):G:H5''	35:DA:614(C):A:OP1	2.21	0.41
50:DR:38:VAL:HB	50:DR:39:PRO:CD	2.39	0.41
39:BE:183:LEU:HD12	39:BE:183:LEU:N	2.34	0.41
41:DG:77:ILE:C	41:DG:80:PHE:H	2.23	0.41
15:AO:74:ASP:OD1	15:AO:76:GLU:HB3	2.21	0.41
55:BW:6:ILE:HA	55:BW:103:ILE:O	2.20	0.41
46:DN:94:HIS:HA	46:DN:96:GLU:OE1	2.21	0.41
38:DD:266:SER:C	38:DD:267:SER:O	2.59	0.41
25:D0:40:GLN:HE21	25:D0:43:THR:HA	1.77	0.41
24:AY:485:GLU:CB	24:AY:560:VAL:HG22	2.48	0.41
47:DO:69:ILE:HD13	47:DO:77:ILE:CG2	2.42	0.41
1:AA:1284:C:O5'	1:AA:1284:C:H6	2.03	0.41
24:CY:126:GLU:O	24:CY:129:LYS:N	2.54	0.41
1:AA:814:A:H5'	1:AA:1511:G:H4'	2.02	0.41
1:AA:1277:C:H2'	1:AA:1278:U:C5'	2.42	0.41
35:DA:1528(A):A:C8	35:DA:1529:G:C8	3.09	0.41
35:DA:1539:G:N1	35:DA:1540:U:O2	2.54	0.41
50:BR:3:HIS:O	50:BR:4:LEU:CB	2.68	0.41
9:CI:79:LEU:O	9:CI:82:ALA:N	2.54	0.41
9:CI:50:LEU:HD23	9:CI:85:LEU:CD2	2.50	0.41
9:CI:84:ALA:C	9:CI:86:VAL:N	2.73	0.41
1:AA:439:A:H2'	1:AA:441:A:C5'	2.51	0.41
24:CY:229:LEU:HA	24:CY:232:LEU:HD23	2.02	0.41
35:BA:2464:C:O2'	35:BA:2465:C:P	2.78	0.41
40:DF:133:ASN:N	40:DF:162:LEU:HD23	2.35	0.41
51:BS:49:VAL:CG1	51:BS:50:SER:N	2.79	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:861:A:C2	35:BA:917:A:C4	3.09	0.41
39:BE:46:ALA:HA	39:BE:82:ARG:O	2.21	0.41
53:BU:21:ALA:HA	53:BU:24:TYR:CE1	2.56	0.41
11:AK:33:THR:HB	11:AK:38:ASN:C	2.41	0.41
35:BA:1497:U:C2	35:BA:1578:U:OP1	2.74	0.41
36:BB:9:G:C6	36:BB:113:G:C6	3.09	0.41
1:CA:176:C:C2	1:CA:177:C:C5	3.08	0.41
1:CA:103:C:H2'	1:CA:103:C:O2	2.21	0.41
38:BD:124:PRO:O	38:BD:129:ASN:ND2	2.53	0.41
35:DA:677:A:O2'	35:DA:678:C:H5'	2.21	0.41
15:CO:43:LEU:C	15:CO:45:VAL:N	2.74	0.41
35:BA:1164:G:H1	35:BA:1185:C:N4	2.19	0.41
35:DA:2020:A:C6	35:DA:2022:U:C2	3.08	0.41
14:AN:27:CYS:SG	14:AN:40:CYS:SG	3.18	0.41
24:CY:15:ILE:HD13	24:CY:105:ILE:CD1	2.50	0.41
24:CY:20:HIS:O	24:CY:23:ALA:HB2	2.20	0.41
1:CA:1074:G:O2'	1:CA:1075:C:H5'	2.20	0.41
24:AY:447:GLY:O	24:AY:448:GLN:C	2.58	0.41
1:AA:277:C:H5'	17:AQ:68:ARG:NH1	2.36	0.41
35:BA:1996:C:OP1	47:BO:31:LYS:HE2	2.20	0.41
3:CC:14:ILE:CG1	3:CC:15:THR:N	2.84	0.41
55:BW:36:LEU:CD1	55:BW:47:VAL:HG12	2.49	0.41
35:BA:1697:G:H3'	35:BA:1698:A:C5'	2.47	0.41
35:BA:64:A:O2'	35:BA:65:C:H5'	2.20	0.41
24:AY:530:VAL:CG2	24:AY:531:GLY:N	2.79	0.41
55:BW:70:TYR:O	55:BW:107:LEU:HB3	2.21	0.41
12:AL:47:LYS:CD	12:AL:48:PRO:HD3	2.49	0.41
1:AA:1133:G:N3	1:AA:1142:G:N2	2.69	0.41
58:BZ:103:ARG:HD2	58:BZ:136:PHE:CG	2.56	0.41
1:CA:470:C:H2'	1:CA:471:G:OP1	2.21	0.41
35:BA:954:G:O2'	35:BA:955:C:H5'	2.21	0.41
1:AA:470:C:H2'	1:AA:471:G:OP1	2.21	0.41
1:CA:1134:G:H2'	1:CA:1135:U:H5'	2.03	0.41
15:AO:55:GLY:O	15:AO:56:LEU:C	2.59	0.41
1:AA:1090:U:H4'	1:AA:1170:A:C2	2.56	0.41
55:BW:37:ARG:HG3	55:BW:38:TYR:CD2	2.55	0.41
24:CY:352:VAL:HG23	24:CY:377:VAL:HB	2.01	0.41
54:BV:64:HIS:HA	54:BV:92:THR:HA	2.01	0.41
42:DH:128:PRO:HG2	42:DH:129:THR:HG23	2.03	0.41
37:BC:138:LEU:HD22	37:BC:139:PRO:CD	2.49	0.41
14:CN:29:ARG:HH11	14:CN:29:ARG:CG	2.31	0.41
37:DC:117:THR:O	37:DC:120:VAL:HG22	2.21	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2617:C:H2'	35:DA:2618:G:H5'	2.02	0.41
35:DA:2618:G:H2'	35:DA:2619:C:C6	2.55	0.41
54:DV:64:HIS:HA	54:DV:92:THR:HA	2.03	0.41
20:AT:75:ASN:O	20:AT:76:ALA:C	2.59	0.41
35:BA:464:U:H2'	35:BA:465:G:O4'	2.21	0.41
35:BA:688:U:H2'	35:BA:689:A:H8	1.86	0.41
35:BA:464:U:C4	35:BA:788:A:N7	2.89	0.41
3:AC:136:GLN:HG3	3:AC:139:GLN:CB	2.47	0.41
28:B3:35:ARG:CD	28:B3:37:LEU:HD21	2.51	0.41
1:CA:318:G:C2	1:CA:336:C:N3	2.89	0.41
1:CA:261:U:N3	1:CA:264:U:OP2	2.42	0.41
35:BA:20:C:H2'	35:BA:21:A:C8	2.54	0.41
42:DH:76:VAL:C	42:DH:78:GLY:N	2.74	0.41
2:CB:194:PRO:O	2:CB:195:ASP:C	2.60	0.41
1:CA:748:C:O2'	1:CA:749:C:H6	2.04	0.41
39:BE:26:ILE:CG2	39:BE:196:VAL:HG21	2.47	0.41
35:DA:606:U:C2'	35:DA:606:U:O2	2.65	0.41
4:CD:133:VAL:HG12	4:CD:134:ASP:N	2.35	0.41
35:BA:657:U:H2'	35:BA:658:C:C5	2.55	0.41
1:CA:619:U:O5'	1:CA:619:U:H6	2.04	0.41
37:DC:46:ALA:O	37:DC:48:LEU:HD12	2.21	0.41
35:DA:483:A:H3'	35:DA:484:C:C6	2.56	0.41
4:AD:102:ASP:HA	4:AD:121:VAL:HG21	2.02	0.41
1:CA:992:U:HO2'	1:CA:993:G:P	2.44	0.41
3:AC:53:ALA:HB2	3:AC:115:LEU:HG	2.02	0.41
20:CT:33:ILE:HD11	20:CT:62:LEU:O	2.21	0.41
20:AT:33:ILE:O	20:AT:37:SER:OG	2.34	0.41
58:BZ:47:VAL:O	58:BZ:51:ALA:HB3	2.20	0.41
1:AA:201:C:C3'	1:AA:202:U:H5''	2.51	0.41
24:AY:188:TYR:OH	24:AY:271:LEU:HD11	2.21	0.41
35:DA:78:A:H2'	35:DA:79:G:H8	1.85	0.41
35:DA:1196:C:O2'	35:DA:1197:G:H5'	2.21	0.41
35:BA:1221(A):C:C2	35:BA:1229:G:N2	2.89	0.41
35:DA:2115:G:C3'	35:DA:2116:G:H5''	2.51	0.41
11:CK:21:ILE:HG13	11:CK:30:VAL:CG1	2.51	0.41
35:DA:1472:A:H2'	35:DA:1473:G:H8	1.85	0.41
35:DA:1248:G:OP2	40:DF:92:PRO:HB3	2.20	0.41
35:DA:1664:A:OP1	35:DA:1665:A:OP2	2.39	0.41
47:BO:53:LYS:O	47:BO:54:GLU:O	2.38	0.41
1:AA:977:A:H3'	1:AA:977:A:N3	2.34	0.41
35:DA:437:G:H2'	35:DA:438:G:C8	2.56	0.41
13:AM:36:LYS:HG3	13:AM:59:TYR:OH	2.21	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:1573:G:C2'	35:BA:1574:C:H5'	2.51	0.41
17:AQ:45:HIS:O	17:AQ:73:VAL:HG23	2.21	0.41
35:BA:2681:C:H5	35:BA:2725:A:N6	2.18	0.41
44:DK:61:ALA:O	44:DK:63:ARG:N	2.54	0.41
3:AC:141:VAL:O	3:AC:144:SER:N	2.53	0.41
46:BN:76:SER:O	46:BN:78:TYR:N	2.53	0.41
3:AC:30:ARG:HD2	14:AN:38:GLY:HA3	2.03	0.41
7:AG:137:LYS:HE2	7:AG:141:VAL:HG23	2.03	0.41
38:BD:138:VAL:O	38:BD:138:VAL:HG13	2.21	0.41
9:AI:33:PHE:O	9:AI:35:GLU:N	2.49	0.41
14:CN:5:ALA:O	14:CN:8:GLU:HB2	2.21	0.41
1:AA:337:C:H2'	1:AA:338:A:C8	2.56	0.41
35:DA:128:C:O2'	35:DA:129:C:P	2.79	0.41
5:CE:88:LYS:HB3	5:CE:123:LEU:O	2.20	0.41
36:DB:5:C:O2'	36:DB:6:C:H5'	2.21	0.41
35:BA:2880:C:H6	35:BA:2880:C:O5'	2.04	0.41
1:CA:802:A:H3'	1:CA:803:G:C8	2.56	0.41
2:CB:213:LEU:O	2:CB:213:LEU:HD23	2.20	0.41
52:DT:19:LEU:HA	52:DT:20:PRO:HD3	1.81	0.41
39:DE:137:HIS:CB	39:DE:138:PRO:HD2	2.51	0.41
58:BZ:78:LYS:H	58:BZ:78:LYS:HD3	1.86	0.41
35:DA:2534:A:H2'	35:DA:2535:G:O5'	2.20	0.41
2:CB:158:LEU:HA	2:CB:159:PRO:HD3	1.93	0.41
56:BX:47:PHE:CD2	56:BX:89:ILE:HG21	2.55	0.41
35:DA:2825:C:H2'	35:DA:2826:A:O4'	2.21	0.41
24:AY:364:GLU:HG2	24:AY:366:VAL:HG13	2.03	0.41
14:CN:9:LYS:HE3	14:CN:9:LYS:HB2	1.91	0.41
1:AA:1437:C:H2'	1:AA:1438:G:H8	1.85	0.41
22:CW:46:G:O2'	22:CW:47:G:H5'	2.20	0.41
22:CV:61:C:H2'	22:CV:62:C:H6	1.86	0.41
46:BN:79:PRO:C	46:BN:81:GLY:H	2.24	0.41
8:CH:36:LEU:O	8:CH:37:ARG:C	2.58	0.41
44:DK:48:MET:HB2	44:DK:49:GLY:H	1.70	0.41
7:AG:138:LYS:HE3	7:AG:142:GLU:OE1	2.21	0.41
35:DA:2128:C:OP1	37:DC:37:LYS:HG3	2.21	0.41
9:AI:77:ILE:O	9:AI:78:LYS:C	2.59	0.41
46:DN:79:PRO:C	46:DN:81:GLY:H	2.24	0.41
41:DG:49:ASP:O	41:DG:50:ALA:HB3	2.20	0.41
5:AE:59:GLY:O	5:AE:62:ALA:HB3	2.21	0.41
35:BA:2534:A:H2'	35:BA:2535:G:O5'	2.21	0.41
42:DH:61:HIS:O	42:DH:62:LYS:C	2.57	0.41
24:AY:621:ILE:HG23	24:AY:631:ILE:HG12	2.02	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
13:CM:88:ARG:HG2	13:CM:88:ARG:HH11	1.86	0.41
4:CD:97:LEU:HA	4:CD:97:LEU:HD23	1.85	0.41
35:DA:2751:G:N2	35:DA:2751:G:OP1	2.54	0.41
35:DA:2322:A:O2'	35:DA:2323:G:H5'	2.21	0.41
4:CD:6:GLY:O	4:CD:7:PRO:C	2.59	0.41
42:BH:97:ARG:O	42:BH:97:ARG:HG2	2.21	0.41
10:AJ:38:ILE:N	10:AJ:71:LEU:O	2.50	0.41
1:AA:432:A:N7	1:AA:433:C:C4	2.89	0.41
35:BA:1326:U:H4'	35:BA:2011:U:O4'	2.20	0.41
24:AY:83:ASP:O	24:AY:84:THR:OG1	2.32	0.41
24:AY:89:ASP:HB2	24:AY:90:PHE:H	1.36	0.41
53:DU:51:LYS:HA	53:DU:54:LYS:HE2	2.02	0.41
35:BA:2134:A:H1'	35:BA:2158:A:C2	2.56	0.41
31:B6:53:LYS:CG	31:B6:54:ILE:H	2.34	0.41
33:B8:50:LEU:C	33:B8:52:LYS:N	2.74	0.41
35:DA:83:G:H22	35:DA:102:G:H2'	1.83	0.41
1:AA:1037:C:H2'	1:AA:1038:C:N3	2.35	0.41
42:BH:12:PRO:HB2	42:BH:15:VAL:CG1	2.40	0.41
31:D6:8:LYS:NZ	35:DA:2285:C:C5	2.76	0.41
41:DG:140:ILE:H	41:DG:140:ILE:HG13	1.71	0.41
41:DG:61:ALA:O	41:DG:64:THR:HG22	2.21	0.41
57:BY:96:ILE:HG21	57:BY:99:CYS:HB3	2.02	0.41
30:D5:2:ALA:O	30:D5:3:LYS:CB	2.69	0.41
35:DA:1301:A:HO2'	35:DA:1302:A:C2'	2.31	0.41
1:CA:1321:C:C4	1:CA:1322:C:C4	3.09	0.41
27:B2:3:LEU:CD2	27:B2:7:ARG:HH12	2.14	0.41
35:BA:1251:C:OP2	53:BU:10:ARG:NE	2.50	0.41
3:AC:22:TRP:CH2	3:AC:32:LEU:HB2	2.55	0.41
53:DU:10:ARG:C	53:DU:12:ARG:N	2.74	0.41
35:DA:1882:C:H2'	35:DA:1883:G:O4'	2.21	0.41
27:D2:67:LYS:O	27:D2:69:ARG:N	2.53	0.41
35:DA:570:G:O6	35:DA:2499:C:OP1	2.39	0.41
44:BK:8:VAL:O	44:BK:56:GLU:HA	2.21	0.41
56:DX:35:THR:CG2	56:DX:36:LYS:N	2.83	0.41
42:DH:66:GLY:O	42:DH:67:LEU:C	2.58	0.41
2:AB:121:LEU:HA	2:AB:124:SER:CB	2.51	0.41
35:DA:2889:C:H2'	35:DA:2891:G:C8	2.56	0.41
39:DE:107:THR:C	39:DE:190:GLY:HA2	2.36	0.41
41:DG:168:GLU:C	41:DG:170:ARG:N	2.74	0.41
51:DS:35:ILE:HG22	51:DS:53:SER:HB2	2.02	0.41
51:DS:24:LEU:CB	51:DS:85:VAL:HG12	2.38	0.41
51:DS:92:TYR:CG	51:DS:93:LYS:N	2.89	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
46:DN:57:ALA:HB3	46:DN:124:ALA:HA	2.01	0.41
29:D4:16:CYS:HB3	29:D4:20:ASN:O	2.21	0.41
41:DG:34:LEU:CD1	41:DG:34:LEU:N	2.76	0.41
1:AA:1442(B):A:C5	52:BT:118:ARG:NE	2.89	0.41
52:BT:90:GLN:O	52:BT:92:GLY:N	2.53	0.41
1:AA:953:G:H5'	1:AA:965:A:N6	2.30	0.41
27:D2:4:SER:C	27:D2:6:VAL:N	2.74	0.41
39:BE:9:VAL:HG22	39:BE:10:GLY:H	1.84	0.41
42:DH:45:VAL:O	42:DH:47:GLU:N	2.54	0.41
42:DH:136:ILE:O	42:DH:136:ILE:HG22	2.21	0.41
41:DG:76:SER:CB	41:DG:83:ARG:HA	2.50	0.41
4:AD:173:TRP:CB	4:AD:187:ARG:NH1	2.83	0.41
39:BE:128:SER:OG	39:BE:129:HIS:N	2.54	0.41
35:DA:234:C:H2'	35:DA:235:U:H6	1.86	0.41
35:BA:2018:G:H21	53:BU:34:LYS:HZ2	1.68	0.41
38:DD:92:ILE:H	38:DD:92:ILE:CD1	2.34	0.41
35:BA:239:U:H1'	35:BA:259:G:N2	2.36	0.41
29:D4:53:GLU:HB3	29:D4:55:ARG:CZ	2.50	0.41
56:BX:64:LYS:HE2	56:BX:64:LYS:HB3	1.85	0.41
9:AI:8:GLY:HA3	9:AI:79:LEU:HB3	2.03	0.41
9:CI:93:ARG:C	9:CI:95:LYS:N	2.74	0.41
35:BA:1529:G:C6	35:BA:1541:G:N1	2.88	0.41
19:AS:9:VAL:HG13	19:AS:39:THR:HB	2.03	0.41
1:CA:437:U:H2'	1:CA:438:G:O4'	2.21	0.41
34:D9:29:ASN:OD1	34:D9:32:HIS:NE2	2.54	0.41
15:AO:80:ALA:O	15:AO:81:LEU:C	2.59	0.41
13:AM:66:LEU:O	13:AM:67:GLU:O	2.38	0.41
35:BA:558:G:OP1	46:BN:111:PRO:HD2	2.20	0.41
38:BD:126:GLN:O	38:BD:127:VAL:C	2.59	0.41
35:DA:676:A:C1'	35:DA:2443:C:H1'	2.45	0.41
35:DA:557:U:H2'	35:DA:558:G:C8	2.55	0.41
35:DA:558:G:OP1	46:DN:111:PRO:HD2	2.20	0.41
4:AD:165:MET:HE2	4:AD:176:LEU:HD22	2.03	0.41
1:AA:1371:G:OP2	9:AI:11:LYS:HD2	2.21	0.41
35:DA:910:A:C6	35:DA:911:A:C6	3.09	0.41
35:DA:1174:A:H5'	35:DA:1175:U:H5''	2.02	0.41
35:BA:1683:C:O2'	35:BA:1684:C:H5'	2.21	0.41
35:DA:481:G:N2	35:DA:507:A:H1'	2.35	0.41
24:AY:610:VAL:CG2	24:AY:643:ILE:HB	2.51	0.41
49:BQ:37:LEU:HG	49:BQ:129:THR:HA	2.03	0.41
35:BA:1721:G:C2	35:BA:1739:U:OP2	2.74	0.41
35:BA:733:G:C6	35:BA:761:A:C8	3.09	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
36:BB:74:U:C2'	36:BB:75:G:H5'	2.51	0.41
12:CL:105:TYR:C	12:CL:107:ALA:H	2.25	0.41
49:DQ:68:ILE:CG2	49:DQ:103:MET:HA	2.51	0.41
24:CY:114:VAL:O	24:CY:114:VAL:CG1	2.66	0.41
58:BZ:158:PRO:O	58:BZ:160:GLY:N	2.47	0.41
35:BA:1638:C:H1'	35:BA:2698:U:O2'	2.21	0.41
1:AA:585:G:C6	1:AA:586:C:C4	3.08	0.41
37:BC:119:ASP:OD1	37:BC:120:VAL:HG13	2.21	0.41
1:CA:943:U:H2'	1:CA:944:G:C5'	2.49	0.41
24:AY:402:ILE:H	24:AY:402:ILE:CD1	2.33	0.41
1:CA:923:A:OP1	5:CE:21:ALA:HB2	2.21	0.41
35:BA:763:G:C4	35:BA:765:G:C8	3.09	0.41
35:BA:1491:G:N3	35:BA:1492:G:C8	2.89	0.41
39:BE:143:ASN:N	39:BE:143:ASN:ND2	2.69	0.41
35:DA:1523:U:H2'	35:DA:1524:G:H8	1.81	0.41
7:AG:15:ASP:OD2	7:AG:16:LEU:N	2.54	0.41
18:AR:26:LEU:CD2	18:AR:42:ARG:NH1	2.84	0.41
35:DA:327:G:N2	35:DA:328:U:H1'	2.36	0.41
56:BX:90:GLU:O	56:BX:92:LEU:N	2.53	0.41
35:DA:1491:G:N3	35:DA:1492:G:C8	2.89	0.41
13:CM:64:TRP:N	13:CM:64:TRP:CD1	2.89	0.41
41:DG:9:ARG:O	41:DG:10:LYS:C	2.60	0.41
35:BA:1941:C:C4	35:BA:1942:C:C4	3.09	0.41
35:BA:1526:G:H2'	35:BA:1527:G:O4'	2.21	0.41
22:CW:69:C:C4	22:CW:70:C:N4	2.89	0.41
35:DA:1198:U:O2	35:DA:1198:U:C2'	2.69	0.41
47:DO:91:LEU:N	47:DO:91:LEU:CD2	2.83	0.41
1:AA:1255:G:H2'	1:AA:1279:A:H62	1.86	0.41
2:CB:178:ARG:HD3	2:CB:178:ARG:HA	1.80	0.41
51:DS:42:ASP:O	51:DS:43:GLU:CB	2.69	0.41
35:BA:705:A:C6	35:BA:727:A:H1'	2.56	0.41
16:CP:75:ARG:HA	16:CP:80:PHE:HD1	1.85	0.41
36:BB:77:U:OP1	58:BZ:19:ARG:NH2	2.53	0.41
35:DA:2422:A:H3'	35:DA:2422:A:H8	1.86	0.41
35:DA:2696:U:H2'	35:DA:2697:G:H8	1.86	0.41
1:CA:17:U:H1'	1:CA:1080:A:N3	2.35	0.41
24:AY:673:PHE:CD2	24:AY:674:ASP:N	2.89	0.41
1:AA:32:A:C2	1:AA:33:A:C4	3.09	0.41
1:CA:32:A:C6	1:CA:33:A:C6	3.09	0.41
35:DA:2881:C:H2'	35:DA:2882:A:H8	1.87	0.41
35:BA:270:A:O2'	35:BA:271:A:H5'	2.20	0.41
20:AT:38:LYS:O	20:AT:39:LYS:C	2.58	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
56:DX:23:GLU:O	56:DX:25:LYS:N	2.48	0.41
8:AH:1:MET:O	8:AH:2:LEU:O	2.39	0.41
35:BA:1084:A:OP1	43:BJ:55:UNK:HA	2.20	0.41
35:DA:2773:C:H5'	39:DE:164:ARG:HG2	2.03	0.41
36:DB:36:C:H2'	36:DB:37:C:C6	2.55	0.41
1:AA:619:U:H6	1:AA:619:U:O5'	2.03	0.41
10:AJ:39:PRO:HG2	10:AJ:39:PRO:O	2.21	0.41
48:BP:119:GLU:HA	48:BP:119:GLU:OE1	2.21	0.41
1:AA:340:U:C2	1:AA:350:G:C2	3.09	0.41
24:CY:252:ASP:O	24:CY:254:LYS:HE3	2.21	0.41
45:DL:3:UNK:O	45:DL:7:UNK:CB	4.15	0.41
41:BG:117:PHE:HE1	41:BG:119:GLY:C	2.24	0.40
10:AJ:32:ALA:HB1	10:AJ:75:ILE:CG1	2.49	0.40
10:AJ:4:ILE:HD11	10:AJ:77:PRO:HB3	2.03	0.40
24:CY:86:GLY:O	24:CY:88:VAL:N	2.54	0.40
24:CY:87:HIS:O	24:CY:88:VAL:C	2.59	0.40
24:AY:104:ALA:O	24:AY:132:ARG:HB2	2.21	0.40
24:AY:168:ILE:HG23	24:AY:205:TYR:CE2	2.55	0.40
24:AY:211:GLU:O	24:AY:215:LYS:HG3	2.20	0.40
22:AW:19:G:C6	22:AW:58:A:C6	3.08	0.40
46:BN:3:THR:CG2	46:BN:4:TYR:H	2.27	0.40
53:BU:78:THR:O	53:BU:79:PHE:C	2.59	0.40
53:BU:95:LEU:HD13	54:BV:4:ILE:CG2	2.48	0.40
24:AY:468:ARG:C	24:AY:470:PHE:N	2.73	0.40
33:B8:50:LEU:HA	33:B8:53:PRO:HG3	2.04	0.40
58:BZ:56:VAL:HG13	58:BZ:69:THR:O	2.21	0.40
35:BA:2334:G:N3	51:BS:18:ILE:HD13	2.36	0.40
48:DP:50:ARG:HG3	48:DP:51:PHE:N	2.35	0.40
41:DG:105:LYS:H	41:DG:105:LYS:HG3	1.49	0.40
24:CY:227:ILE:HD13	24:CY:242:LEU:HD23	2.03	0.40
37:DC:132:LEU:O	37:DC:138:LEU:N	2.48	0.40
41:BG:125:PHE:CZ	41:BG:173:LEU:HD12	2.56	0.40
50:BR:79:LEU:HD22	50:BR:83:ILE:HB	2.01	0.40
46:DN:13:TRP:O	46:DN:135:PRO:HD2	2.21	0.40
48:BP:12:ALA:CB	48:BP:16:ARG:HB3	2.50	0.40
12:AL:70:ILE:HG23	12:AL:100:ILE:HD12	2.03	0.40
44:DK:93:ARG:HD2	44:DK:93:ARG:O	2.20	0.40
58:DZ:110:GLY:HA2	58:DZ:145:GLU:OE1	2.21	0.40
39:BE:38:THR:HG23	39:BE:39:PRO:HD2	2.02	0.40
46:BN:128:HIS:O	46:BN:130:HIS:N	2.54	0.40
48:DP:81:GLN:HE21	48:DP:81:GLN:HB2	1.67	0.40
39:BE:29:GLY:O	39:BE:30:PRO:C	2.58	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:2712:U:O2'	35:BA:2712(A):A:C8	2.42	0.40
49:BQ:70:PRO:CA	49:BQ:95:ALA:HB2	2.51	0.40
3:AC:87:LEU:C	3:AC:89:GLU:N	2.69	0.40
35:DA:1061:U:H4'	35:DA:1070:A:C1'	2.45	0.40
35:DA:1061:U:H5''	35:DA:1062:G:OP2	2.20	0.40
35:DA:1999:C:H4'	35:DA:2723:C:O2	2.20	0.40
38:BD:266:SER:C	38:BD:267:SER:O	2.58	0.40
35:BA:2441:C:O2'	35:BA:2442:C:H5'	2.21	0.40
55:DW:5:ALA:HB2	55:DW:54:ALA:CB	2.39	0.40
55:DW:6:ILE:HA	55:DW:103:ILE:O	2.21	0.40
24:AY:300:GLU:O	24:AY:301:ILE:HD13	2.20	0.40
24:AY:335:LEU:HD23	24:AY:355:LEU:HD11	2.03	0.40
35:DA:545:C:C3'	35:DA:547:A:C5'	2.95	0.40
44:DK:27:LEU:HA	44:DK:30:HIS:HB2	2.02	0.40
52:DT:55:ASN:HD22	52:DT:58:ASN:HD21	1.66	0.40
42:BH:163:TYR:CD1	42:BH:163:TYR:N	2.89	0.40
35:BA:979:G:H2'	35:BA:982:C:H41	1.86	0.40
24:CY:530:VAL:CG1	24:CY:533:VAL:CG2	2.99	0.40
4:AD:192:GLU:O	4:AD:194:LEU:N	2.54	0.40
35:BA:1668:A:H4'	35:BA:1669:A:O5'	2.20	0.40
1:CA:523:A:N1	12:CL:92:ASP:HB2	2.36	0.40
12:CL:46:LYS:NZ	12:CL:94:PRO:HG3	2.35	0.40
1:AA:1511:G:C2'	1:AA:1512:U:H5'	2.51	0.40
8:AH:10:LEU:HD22	8:AH:83:ILE:CD1	2.45	0.40
35:BA:94:C:O2	35:BA:94:C:H2'	2.20	0.40
50:DR:3:HIS:O	50:DR:4:LEU:CB	2.69	0.40
1:CA:439:A:H2'	1:CA:441:A:C5'	2.51	0.40
40:BF:132:VAL:O	40:BF:138:GLU:OE1	2.39	0.40
24:AY:505:GLY:HA3	24:AY:576:ASP:OD1	2.20	0.40
1:CA:740:U:O2'	1:CA:741:G:C5'	2.68	0.40
12:CL:28:LYS:HE2	12:CL:33:ARG:CZ	2.51	0.40
13:AM:66:LEU:HA	13:AM:70:LEU:CD1	2.50	0.40
1:CA:1370:G:C2	1:CA:1371:G:N7	2.89	0.40
35:DA:1042:G:C6	35:DA:1114:G:N1	2.89	0.40
35:DA:2488:A:H2'	35:DA:2489:G:C8	2.57	0.40
1:CA:1121:U:O2'	1:CA:1122:U:H5'	2.22	0.40
35:BA:2657:A:O2'	42:BH:160:LYS:CE	2.68	0.40
43:DJ:58:UNK:O	43:DJ:61:UNK:N	2.53	0.40
46:DN:35:ARG:HB3	46:DN:42:TRP:CZ3	2.56	0.40
16:AP:75:ARG:HG3	16:AP:75:ARG:HH11	1.86	0.40
34:B9:29:ASN:HA	34:B9:30:PRO:HD2	1.89	0.40
9:AI:11:LYS:O	9:AI:12:GLU:HB2	2.21	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:CD:53:ASP:O	4:CD:57:ARG:HD2	2.21	0.40
24:AY:679:VAL:O	24:AY:681:LYS:N	2.46	0.40
35:DA:654(S):G:H3'	35:DA:654(T):C:C4'	2.51	0.40
10:CJ:24:VAL:C	10:CJ:26:ALA:N	2.75	0.40
3:AC:14:ILE:CG1	3:AC:15:THR:N	2.83	0.40
24:CY:168:ILE:HD12	24:CY:176:GLY:CA	2.45	0.40
35:DA:1788:C:H2'	35:DA:1789:A:C8	2.55	0.40
2:AB:110:GLN:H	2:AB:110:GLN:HG3	1.57	0.40
27:D2:59:ARG:HA	35:DA:76:C:HO2'	1.86	0.40
35:DA:695:G:N2	35:DA:696:G:H1'	2.36	0.40
42:BH:89:ILE:HD13	42:BH:94:TYR:HB3	2.03	0.40
35:DA:1640:C:H2'	35:DA:1641:A:O4'	2.21	0.40
32:B7:11:LYS:HE2	35:BA:686:G:H5''	2.03	0.40
1:CA:476:G:H2'	1:CA:477:A:C8	2.56	0.40
47:DO:64:ARG:NH1	47:DO:83:ALA:CB	2.83	0.40
39:BE:167:VAL:HG13	39:BE:170:LEU:HD11	2.03	0.40
1:CA:160:A:H1'	1:CA:344:A:C4	2.57	0.40
54:DV:35:LEU:HB2	54:DV:57:VAL:HG12	2.03	0.40
48:BP:121:LYS:HB2	48:BP:123:LEU:HD21	2.03	0.40
35:DA:2652:C:C4	35:DA:2653:U:C4	3.09	0.40
35:BA:2242:G:N2	35:BA:2434:A:H2	2.19	0.40
35:DA:483:A:H3'	35:DA:484:C:H6	1.86	0.40
4:AD:121:VAL:N	4:AD:126:ILE:HD13	2.36	0.40
41:DG:11:TYR:OH	41:DG:33:ARG:CB	2.69	0.40
35:DA:1669:A:O3'	35:DA:2549:G:H5'	2.22	0.40
35:DA:1328:G:H2'	35:DA:1330:C:C5	2.56	0.40
20:AT:63:ILE:C	20:AT:65:LYS:N	2.74	0.40
24:CY:369:LEU:N	24:CY:369:LEU:CD1	2.84	0.40
50:DR:28:LEU:HA	50:DR:34:ILE:CG1	2.51	0.40
35:DA:13:A:H1'	35:DA:15:G:N7	2.36	0.40
43:DJ:37:UNK:O	43:DJ:39:UNK:N	2.54	0.40
17:CQ:53:LEU:HD23	17:CQ:54:GLY:N	2.35	0.40
13:AM:119:GLY:C	13:AM:121:LYS:H	2.24	0.40
35:BA:71:A:H5''	35:BA:72:U:O5'	2.21	0.40
35:DA:1973:G:H2'	35:DA:1974:C:C6	2.56	0.40
24:CY:689:LYS:CG	24:CY:690:GLY:N	2.84	0.40
1:CA:707:C:H2'	1:CA:708:C:C6	2.55	0.40
17:CQ:45:HIS:HB2	17:CQ:65:ILE:CD1	2.51	0.40
37:BC:75:VAL:HG12	37:BC:76:LEU:N	2.36	0.40
35:BA:2861:G:C4	35:BA:2862:G:C8	3.09	0.40
1:AA:1493:A:O2'	1:AA:1494:G:OP1	2.33	0.40
35:BA:1270:C:H5''	35:BA:1271:G:C5'	2.51	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
39:BE:103:ASP:OD2	39:BE:168:MET:HE2	2.20	0.40
39:DE:168:MET:CE	39:DE:202:LYS:HE2	2.51	0.40
35:DA:1590:U:H2'	35:DA:1591:G:C8	2.56	0.40
1:AA:32:A:H3'	1:AA:33:A:H8	1.86	0.40
26:B1:53:VAL:CG1	26:B1:54:ALA:N	2.83	0.40
47:DO:119:PRO:HB2	52:DT:68:TYR:CE2	2.56	0.40
37:BC:181:PHE:HA	37:BC:182:PRO:HD3	1.85	0.40
1:AA:596:C:OP2	1:AA:597:G:OP2	2.39	0.40
24:AY:145:ASP:OD2	24:AY:148:LEU:HB2	2.21	0.40
1:AA:224:C:H2'	1:AA:225:C:C6	2.55	0.40
2:CB:130:ARG:HA	2:CB:131:PRO:HD2	1.84	0.40
8:AH:56:LYS:HA	8:AH:57:PRO:HD2	1.82	0.40
1:AA:1098:C:O2'	1:AA:1099:G:H5'	2.21	0.40
56:DX:29:TRP:CZ3	56:DX:76:ARG:HB2	2.55	0.40
24:CY:219:VAL:HA	24:CY:222:ASP:OD2	2.22	0.40
35:DA:646:A:H2'	35:DA:647:G:O4'	2.21	0.40
1:CA:933:G:OP2	7:CG:3:ARG:HB3	2.21	0.40
35:BA:1863:G:H2'	35:BA:1864:U:O4'	2.22	0.40
24:CY:196:ILE:C	24:CY:196:ILE:HD12	2.41	0.40
10:AJ:12:ASP:OD1	10:AJ:15:THR:HG23	2.21	0.40
1:CA:1359:C:OP2	14:CN:22:THR:HG21	2.21	0.40
7:AG:52:GLU:O	7:AG:53:LYS:C	2.58	0.40
11:AK:93:GLN:O	11:AK:94:ALA:C	2.60	0.40
40:DF:32:LEU:C	40:DF:32:LEU:CD2	2.87	0.40
35:BA:2577:A:C5'	35:BA:2578:G:C5'	2.99	0.40
37:BC:84:ILE:HG23	37:BC:95:VAL:HG12	2.02	0.40
24:AY:20:HIS:CE1	24:AY:21:ILE:HG12	2.57	0.40
24:AY:216:LEU:CD2	24:AY:216:LEU:C	2.89	0.40
24:AY:238:THR:HG22	24:AY:241:GLU:H	1.83	0.40
53:DU:53:ARG:O	53:DU:54:LYS:C	2.59	0.40
24:AY:286:ILE:HG23	24:AY:287:PRO:HD2	2.04	0.40
53:BU:57:PHE:O	53:BU:59:ARG:N	2.54	0.40
1:CA:793:U:C3'	1:CA:794:A:C5'	2.90	0.40
24:AY:420:ASP:HB3	24:AY:472:VAL:HG13	2.02	0.40
31:B6:12:GLU:HG2	31:B6:23:THR:CG2	2.52	0.40
48:BP:56:SER:O	48:BP:58:THR:N	2.54	0.40
58:DZ:42:VAL:CG1	58:DZ:43:GLU:N	2.83	0.40
57:DY:97:ARG:O	57:DY:98:VAL:HB	2.21	0.40
58:BZ:99:TYR:CE2	58:BZ:125:LEU:HB2	2.56	0.40
40:DF:182:ASN:ND2	40:DF:185:ASP:OD2	2.35	0.40
35:DA:2285:C:H5'	35:DA:2288:A:N6	2.36	0.40
29:D4:6:HIS:HB3	29:D4:7:PRO:CD	2.51	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
41:DG:71:THR:HG23	41:DG:89:GLY:HA3	2.03	0.40
19:CS:58:VAL:O	19:CS:60:VAL:HG12	2.21	0.40
57:BY:90:LEU:HB2	57:BY:91:GLU:OE2	2.20	0.40
1:AA:1320:C:N4	19:AS:36:ARG:HG3	2.36	0.40
5:AE:79:GLU:HB3	5:AE:93:PRO:CD	2.52	0.40
35:DA:805:G:H5'	35:DA:806:C:C5	2.56	0.40
48:DP:38:GLN:CG	48:DP:39:LYS:H	2.04	0.40
51:BS:65:VAL:C	51:BS:67:ARG:N	2.75	0.40
49:DQ:52:VAL:C	49:DQ:54:MET:N	2.74	0.40
35:DA:511:U:C5	35:DA:512:G:C4	3.10	0.40
44:DK:77:LEU:CD2	44:DK:77:LEU:N	2.77	0.40
48:DP:101:VAL:HG23	48:DP:102:ARG:N	2.36	0.40
48:BP:100:LEU:CD2	48:BP:100:LEU:N	2.84	0.40
48:BP:81:GLN:HG2	48:BP:106:LEU:HA	2.02	0.40
48:BP:107:LYS:HE3	48:BP:107:LYS:HB2	1.79	0.40
19:AS:45:VAL:O	19:AS:47:HIS:N	2.51	0.40
1:CA:1054:C:OP1	1:CA:1198:G:OP2	2.39	0.40
52:DT:89:VAL:CB	52:DT:91:ARG:HG3	2.50	0.40
29:D4:14:ILE:HG23	29:D4:31:ILE:HG22	2.03	0.40
10:AJ:50:ILE:HD11	14:AN:41:ARG:CZ	2.51	0.40
35:DA:2822:G:OP2	39:DE:110:GLY:O	2.39	0.40
40:BF:68:LYS:HG3	40:BF:69:HIS:CD2	2.55	0.40
2:AB:55:PHE:HD1	2:AB:221:LEU:HG	1.86	0.40
29:D4:49:PHE:O	29:D4:50:VAL:O	2.40	0.40
58:DZ:157:LEU:O	58:DZ:158:PRO:O	2.39	0.40
35:BA:1061:U:H4'	35:BA:1070:A:C1'	2.45	0.40
44:BK:52:ILE:HG22	44:BK:53:VAL:N	2.37	0.40
2:CB:32:ILE:HG23	2:CB:32:ILE:O	2.20	0.40
2:CB:39:ILE:HG22	2:CB:41:ILE:HD12	2.02	0.40
46:DN:91:LEU:O	46:DN:95:PRO:HB3	2.22	0.40
35:DA:271(P):C:H2'	35:DA:271(Q):G:O4'	2.20	0.40
52:DT:57:PHE:C	52:DT:58:ASN:ND2	2.73	0.40
38:DD:136:ILE:O	38:DD:136:ILE:HG22	2.20	0.40
42:BH:87:LEU:HD22	42:BH:163:TYR:O	2.21	0.40
24:AY:486:THR:CG2	24:AY:600:VAL:HG13	2.50	0.40
15:CO:82:ILE:O	15:CO:82:ILE:HD13	2.22	0.40
24:CY:128:TYR:HE2	24:CY:130:VAL:HG23	1.83	0.40
40:DF:61:GLY:O	40:DF:62:ARG:C	2.59	0.40
38:DD:27:THR:CG2	38:DD:27:THR:O	2.70	0.40
58:BZ:109:ALA:HB3	58:BZ:144:LEU:O	2.21	0.40
51:DS:97:ARG:CA	51:DS:97:ARG:HE	2.34	0.40
35:DA:1529:G:C6	35:DA:1541:G:N1	2.89	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:244:U:C6	1:CA:894:G:C2	3.09	0.40
11:AK:34:ASP:HB3	11:AK:40:ILE:HD11	2.03	0.40
39:DE:95:ILE:CD1	39:DE:95:ILE:H	2.32	0.40
36:DB:115:G:H2'	36:DB:116:G:C8	2.53	0.40
4:AD:53:ASP:O	4:AD:57:ARG:HD2	2.22	0.40
4:AD:58:LEU:HD23	4:AD:62:GLN:HG2	2.03	0.40
4:AD:62:GLN:O	4:AD:66:ARG:HD2	2.21	0.40
20:AT:44:ALA:HA	20:AT:92:LEU:HD21	2.02	0.40
14:CN:23:ARG:CD	14:CN:28:GLY:O	2.65	0.40
35:BA:2122:U:O2'	37:BC:173:HIS:HD2	2.04	0.40
7:AG:80:VAL:CG2	7:AG:81:GLY:N	2.80	0.40
1:AA:1351:U:O2'	1:AA:1352:C:H5'	2.22	0.40
35:DA:1741:A:H2'	35:DA:1742:G:O4'	2.20	0.40
13:AM:16:ASP:HB3	13:AM:41:PRO:HB3	2.03	0.40
35:DA:2033:A:H2'	35:DA:2035:G:OP2	2.21	0.40
1:AA:50:A:N6	1:AA:361:G:C4'	2.79	0.40
28:B3:4:LEU:HD23	28:B3:58:VAL:HA	2.02	0.40
1:CA:1329:A:C2'	1:CA:1330:U:H5'	2.51	0.40
25:B0:20:ARG:CG	25:B0:20:ARG:NH1	2.84	0.40
1:AA:538:G:H2'	1:AA:539:A:C8	2.56	0.40
49:DQ:75:THR:CG2	49:DQ:76:LYS:H	2.34	0.40
4:AD:36:ARG:CG	4:AD:36:ARG:NH1	2.83	0.40
35:DA:2202:C:H2'	38:DD:151:LYS:HZ3	1.86	0.40
35:BA:1342:A:O2'	35:BA:1344:G:OP2	2.32	0.40
35:BA:1345:C:C2'	35:BA:1346:G:H5'	2.50	0.40
27:B2:57:ILE:HG22	27:B2:61:LEU:CD1	2.51	0.40
28:D3:59:VAL:CG1	28:D3:60:GLU:N	2.81	0.40
6:AF:12:PRO:C	6:AF:14:LEU:H	2.22	0.40
35:BA:1499:C:H2'	35:BA:1500:G:O4'	2.21	0.40
1:CA:203:U:C4'	1:CA:204:U:OP1	2.70	0.40
35:DA:1320:C:H2'	35:DA:1329:U:OP2	2.21	0.40
35:BA:1062:G:H22	35:BA:1077:A:H1'	1.86	0.40
35:BA:1523:U:H2'	35:BA:1524:G:H8	1.84	0.40
57:BY:18:GLY:O	57:BY:21:LYS:HB2	2.21	0.40
1:AA:313:A:H2'	1:AA:314:C:C6	2.56	0.40
1:AA:955:U:H2'	1:AA:956:U:C6	2.56	0.40
24:CY:637:ARG:HG3	24:CY:642:VAL:CG2	2.51	0.40
53:DU:75:ASN:ND2	53:DU:77:SER:OG	2.54	0.40
7:CG:38:LEU:HD12	7:CG:38:LEU:O	2.22	0.40
19:CS:53:ASN:C	19:CS:55:LYS:N	2.75	0.40
35:DA:1907:G:C6	35:DA:1908:C:C4	3.09	0.40
39:DE:165:VAL:HB	39:DE:189:PRO:CB	2.52	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
16:AP:9:PHE:HE2	16:AP:18:ARG:NE	2.19	0.40
1:AA:556:C:O2'	1:AA:557:G:H5'	2.21	0.40
22:AW:20:G:O6	22:AW:57:C:N4	2.54	0.40
8:CH:114:THR:C	8:CH:116:LYS:N	2.74	0.40
36:DB:73:A:C8	36:DB:74:U:C5	3.09	0.40
1:AA:532:A:O2'	1:AA:533:A:P	2.78	0.40
9:CI:56:LEU:HD23	9:CI:56:LEU:O	2.21	0.40
52:DT:113:LYS:C	52:DT:114:LEU:HD23	2.42	0.40
26:B1:53:VAL:HG12	26:B1:54:ALA:N	2.36	0.40
1:AA:597:G:H1'	1:AA:644:G:N2	2.37	0.40
55:DW:62:HIS:O	55:DW:63:ASP:O	2.39	0.40
9:CI:97:LYS:O	9:CI:98:PRO:C	2.58	0.40
8:AH:1:MET:O	8:AH:2:LEU:C	2.59	0.40
1:AA:427:U:C4	1:AA:428:G:C6	3.09	0.40
4:CD:65:ARG:HD3	4:CD:75:PHE:CD2	2.55	0.40
45:DL:112:UNK:O	45:DL:117:UNK:CB	2.69	0.40
24:AY:304:ASP:C	24:AY:306:ASN:H	2.24	0.40
35:DA:1856:G:H1	35:DA:1886:C:H42	1.68	0.40
1:CA:1339:A:H2'	1:CA:1340:A:O4'	2.21	0.40
35:BA:1664:A:OP1	35:BA:1665:A:OP2	2.39	0.40
20:CT:38:LYS:O	20:CT:39:LYS:C	2.59	0.40
17:AQ:10:VAL:HG13	17:AQ:19:VAL:HB	2.03	0.40
35:BA:594:U:H2'	35:BA:595:C:C6	2.56	0.40
1:CA:1397:C:H6	1:CA:1397:C:H3'	1.87	0.40
3:AC:124:ILE:O	3:AC:124:ILE:HG22	2.21	0.40
1:AA:902:G:H2'	1:AA:903:G:H8	1.86	0.40
29:B4:6:HIS:HB3	29:B4:7:PRO:CD	2.51	0.40
41:BG:71:THR:HG23	41:BG:90:LEU:CA	2.51	0.40
41:BG:7:LEU:O	41:BG:8:LYS:C	2.58	0.40
10:AJ:79:ARG:NH1	10:AJ:79:ARG:HG2	2.36	0.40
4:AD:28:SER:HB3	4:AD:29:PRO:CD	2.49	0.40
7:AG:82:GLY:CA	23:AX:13:A:H2	2.32	0.40
9:CI:60:ASP:O	9:CI:61:ALA:C	2.60	0.40
7:CG:82:GLY:CA	23:CX:13:A:H2	2.33	0.40
48:BP:6:LEU:HG	48:BP:7:ARG:H	1.84	0.40
54:DV:38:LEU:HD12	54:DV:56:SER:CA	2.51	0.40
54:DV:39:LEU:HD13	54:DV:51:VAL:HA	2.01	0.40
24:AY:487:ILE:HB	24:AY:597:GLY:O	2.21	0.40
58:DZ:34:ASN:O	58:DZ:35:ARG:HG2	2.21	0.40
19:CS:4:SER:O	19:CS:5:LEU:C	2.60	0.40
57:DY:87:LYS:HB3	57:DY:87:LYS:HE2	1.90	0.40
57:DY:7:VAL:HG11	57:DY:8:LYS:HZ1	1.85	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
58:DZ:10:ARG:HD2	58:DZ:36:LYS:HB3	2.04	0.40
35:BA:272(J):C:N4	35:BA:363:G:H22	2.20	0.40
1:AA:1002:G:H3'	1:AA:1003:G:C8	2.56	0.40
57:BY:30:VAL:HG12	57:BY:31:LEU:N	2.37	0.40
40:DF:118:ALA:HA	40:DF:123:LEU:HB3	2.03	0.40
31:D6:5:VAL:CG2	35:DA:2283:C:OP1	2.70	0.40
35:DA:665:C:O5'	35:DA:665:C:H6	2.05	0.40
33:D8:25:MET:HB2	48:DP:62:LEU:HD21	2.04	0.40
41:DG:47:LYS:HB3	41:DG:48:GLU:H	1.69	0.40
1:AA:946:A:H3'	1:AA:947:G:C8	2.56	0.40
57:BY:76:CYS:O	57:BY:77:PRO:C	2.60	0.40
1:AA:1319:A:OP1	19:AS:10:PHE:CZ	2.73	0.40
5:AE:78:HIS:HE1	5:AE:80:ILE:CG2	2.34	0.40
51:BS:74:ALA:HB2	51:BS:101:LEU:HD21	2.03	0.40
51:BS:66:ALA:O	51:BS:99:LYS:HD3	2.21	0.40
50:BR:30:THR:HA	50:BR:78:LYS:HZ3	1.85	0.40
50:BR:85:PRO:C	50:BR:87:TYR:N	2.73	0.40
8:CH:107:LEU:HD23	8:CH:107:LEU:HA	1.88	0.40
5:CE:51:VAL:O	5:CE:52:PRO:C	2.58	0.40
35:BA:511:U:H5	35:BA:512:G:C5	2.39	0.40
2:CB:97:TRP:CH2	2:CB:176:GLU:OE2	2.74	0.40
2:AB:152:PHE:O	2:AB:152:PHE:HD1	2.04	0.40
1:AA:1053:G:O6	1:AA:1199:U:H2'	2.21	0.40
1:CA:1053:G:C4	1:CA:1199:U:C5	3.09	0.40
35:BA:2850:A:H2	50:BR:61:HIS:CD2	2.39	0.40
35:BA:654(L):G:C2'	35:BA:654(M):C:H4'	2.51	0.40
13:AM:117:VAL:O	13:AM:118:ALA:O	2.38	0.40
2:AB:204:ASN:ND2	2:AB:207:ALA:H	2.19	0.40
35:BA:2741:A:H2'	35:BA:2742:C:O4'	2.22	0.40
52:DT:30:VAL:HG22	52:DT:84:GLN:O	2.22	0.40
52:BT:8:LYS:C	52:BT:10:VAL:H	2.23	0.40
35:DA:979:G:H2'	35:DA:982:C:H41	1.87	0.40
42:BH:46:GLU:HG3	42:BH:51:ARG:CB	2.51	0.40
2:AB:21:ARG:HB3	2:AB:39:ILE:HG12	2.02	0.40
44:DK:5:VAL:HA	44:DK:59:ILE:HG23	2.02	0.40
52:BT:55:ASN:ND2	52:BT:55:ASN:O	2.55	0.40
1:CA:1511:G:H8	1:CA:1511:G:O5'	2.03	0.40
29:B4:16:CYS:HB3	29:B4:20:ASN:O	2.21	0.40
35:BA:260:G:C1'	35:BA:621:A:H1'	2.52	0.40
40:BF:63:LYS:HA	40:BF:76:GLY:O	2.21	0.40
3:CC:149:ALA:HA	3:CC:201:TYR:O	2.22	0.40
41:DG:5:VAL:CB	41:DG:8:LYS:HB2	2.43	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:CY:265:LYS:C	24:CY:267:LYS:H	2.25	0.40
1:AA:363:A:H5'	12:AL:34:ARG:HB2	2.02	0.40
47:DO:104:ARG:CZ	52:DT:33:LYS:HD2	2.50	0.40
52:DT:32:TYR:O	52:DT:33:LYS:HB2	2.22	0.40
37:DC:30:VAL:HG11	37:DC:42:VAL:HG13	2.04	0.40
42:DH:41:MET:HG3	42:DH:42:ARG:N	2.36	0.40
35:BA:461:C:N4	35:BA:469:G:N2	2.69	0.40
39:BE:28:ALA:CB	39:BE:93:VAL:HG22	2.51	0.40
35:DA:2076:U:C5	35:DA:2596:U:C2	3.08	0.40
39:DE:96:PHE:O	39:DE:175:VAL:HG11	2.21	0.40
35:DA:1051:G:C4	35:DA:1052:C:N4	2.89	0.40
35:DA:827:U:H4'	35:DA:828:U:O2	2.21	0.40
35:BA:1053:C:H2'	35:BA:1054:A:O4'	2.22	0.40
35:BA:887:A:N3	35:BA:887:A:H2'	2.37	0.40
35:BA:746:A:H2'	35:BA:2612:C:H5''	2.03	0.40
4:AD:4:TYR:CG	4:AD:5:ILE:N	2.86	0.40
35:BA:1175:U:P	35:BA:1176:G:H5''	2.61	0.40
28:B3:22:ALA:CA	28:B3:46:ASN:HD22	2.34	0.40
2:AB:95:GLN:HA	2:AB:95:GLN:OE1	2.22	0.40
22:CV:4:G:O2'	22:CV:5:G:H8	2.03	0.40
15:AO:9:GLN:C	15:AO:11:VAL:N	2.75	0.40
35:DA:915:C:H2'	35:DA:916:G:C8	2.56	0.40
26:D1:30:VAL:CG2	26:D1:31:GLY:N	2.76	0.40
3:AC:134:ILE:O	3:AC:136:GLN:N	2.54	0.40
3:CC:134:ILE:O	3:CC:135:LYS:C	2.59	0.40
42:BH:124:GLU:HB2	42:BH:132:ARG:CG	2.49	0.40
1:CA:321:A:C2	1:CA:333:G:C2	3.09	0.40
1:AA:186:C:H2'	1:AA:187:C:C6	2.56	0.40
35:BA:1917:U:H2'	35:BA:1918:A:C5'	2.51	0.40
24:CY:448:GLN:HE22	24:CY:480:GLN:NE2	2.18	0.40
20:CT:84:LEU:C	20:CT:86:ARG:N	2.72	0.40
24:CY:507:TYR:O	24:CY:577:SER:HA	2.21	0.40
49:BQ:68:ILE:CG2	49:BQ:103:MET:HA	2.52	0.40
57:DY:52:SER:O	57:DY:53:PRO:C	2.60	0.40
35:BA:729:G:C5	38:BD:208:LYS:HB2	2.56	0.40
41:BG:14:GLU:C	41:BG:17:PRO:HD2	2.41	0.40
35:BA:1073:A:H2'	35:BA:1074:G:H5'	2.02	0.40
35:BA:2026:C:C4	35:BA:2027:G:C8	3.09	0.40
35:BA:2841:C:O2'	35:BA:2842:G:H5'	2.21	0.40
35:BA:321:G:N2	35:BA:341:G:H5''	2.36	0.40
35:BA:341:G:H2'	35:BA:342:G:C8	2.56	0.40
1:CA:1424:C:O2'	1:CA:1425:U:H5'	2.21	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
24:CY:309:LEU:O	24:CY:390:VAL:HA	2.21	0.40
35:BA:216:A:C4	35:BA:432:A:C2	3.10	0.40
35:DA:1226:A:H2'	35:DA:1227:G:H5'	2.04	0.40
35:DA:1993:U:C5'	39:DE:128:SER:HB3	2.52	0.40
35:BA:654(O):G:H2'	35:BA:654(P):C:C5	2.56	0.40
34:B9:10:ILE:HG13	34:B9:10:ILE:H	1.74	0.40
8:CH:26:VAL:HG23	8:CH:27:PRO:HD2	2.02	0.40
8:AH:6:ILE:H	8:AH:6:ILE:HD12	1.81	0.40
17:CQ:53:LEU:C	17:CQ:53:LEU:HD23	2.42	0.40
37:DC:181:PHE:HA	37:DC:182:PRO:HD3	1.84	0.40
35:BA:205:G:HO2'	35:BA:206:U:P	2.42	0.40
11:CK:99:GLN:HG2	11:CK:105:VAL:HG21	2.03	0.40
22:AW:77:A:H61	35:BA:2422:A:H5''	1.86	0.40
1:AA:894:G:H2'	1:AA:895:G:O4'	2.22	0.40
35:DA:1398:C:H2'	35:DA:1399:C:C6	2.55	0.40
1:AA:238:G:P	17:AQ:25:ARG:HH22	2.44	0.40
1:CA:908:A:O2'	1:CA:909:A:H5'	2.22	0.40
35:DA:1270:C:H5''	35:DA:1271:G:C5'	2.51	0.40
49:DQ:26:TYR:CD1	49:DQ:140:ALA:HB3	2.57	0.40
35:BA:1131:G:OP1	46:BN:80:GLY:N	2.49	0.40
38:DD:165:ILE:HD13	38:DD:175:LEU:CD2	2.51	0.40
27:B2:31:GLU:O	27:B2:35:LEU:N	2.46	0.40
1:CA:841:U:H3'	1:CA:848:C:O4'	2.21	0.40
44:BK:104:VAL:CG2	44:BK:127:ILE:HB	2.51	0.40
55:BW:62:HIS:O	55:BW:63:ASP:O	2.39	0.40
20:CT:64:ASP:OD1	20:CT:81:LYS:HD2	2.21	0.40
58:BZ:175:VAL:HB	58:BZ:176:PRO:CD	2.52	0.40
35:DA:854:G:H1	35:DA:923:C:H42	1.70	0.40
37:BC:37:LYS:O	37:BC:38:PHE:HB3	2.21	0.40
48:BP:119:GLU:CA	48:BP:119:GLU:OE1	2.69	0.40
35:DA:2354:G:H2'	35:DA:2355:C:H6	1.86	0.40
4:AD:6:GLY:O	4:AD:7:PRO:C	2.60	0.40
16:AP:6:LEU:HA	16:AP:6:LEU:HD12	1.89	0.40
37:DC:3:LYS:O	37:DC:3:LYS:HD3	2.21	0.40
35:BA:523:C:H6	35:BA:523:C:H3'	1.87	0.40
5:AE:124:GLY:O	5:AE:125:SER:C	2.59	0.40
15:CO:33:THR:HG23	15:CO:63:ARG:HH12	1.86	0.40
35:BA:700:G:H2'	35:BA:701:G:H8	1.85	0.40
40:DF:29:ASN:HB3	40:DF:32:LEU:HB3	2.03	0.40
41:BG:139:LEU:HA	41:BG:144:ILE:HD13	2.04	0.40
41:BG:119:GLY:CA	41:BG:181:ARG:H	2.35	0.40
41:BG:41:GLN:NE2	41:BG:60:LEU:HD21	2.37	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:2012:G:O3'	55:DW:96:ILE:HG13	2.20	0.40
37:BC:149:ASN:HD22	37:BC:149:ASN:C	2.24	0.40
37:BC:154:ILE:HA	37:BC:157:ILE:HD12	2.03	0.40
4:AD:25:ARG:C	4:AD:27:TYR:N	2.75	0.40
24:CY:141:LYS:O	24:CY:144:ALA:CB	2.69	0.40
35:BA:613:G:C2	35:BA:615:G:C5	3.09	0.40
35:DA:2474:C:H5'	35:DA:2475:C:C5	2.56	0.40
58:DZ:120:ILE:O	58:DZ:121:HIS:HB2	2.20	0.40
22:AW:6:G:H2'	22:AW:7:G:O4'	2.21	0.40
53:BU:99:ALA:HB2	53:BU:106:PHE:CZ	2.56	0.40
61:AY:702:FUA:H72	61:AY:702:FUA:H212	1.88	0.40
38:DD:35:LYS:HA	38:DD:64:ILE:H	1.86	0.40
31:B6:27:LYS:HB3	31:B6:30:THR:CG2	2.51	0.40
31:B6:8:LYS:O	31:B6:9:LEU:O	2.39	0.40
58:DZ:29:TYR:CB	58:DZ:34:ASN:HB2	2.36	0.40
35:BA:1568:G:H4'	38:BD:59:LYS:HB3	2.04	0.40
35:DA:272(J):C:H3'	35:DA:274:G:C5'	2.32	0.40
58:BZ:67:LEU:HD23	58:BZ:90:VAL:CG1	2.51	0.40
31:D6:11:LEU:HA	31:D6:54:ILE:O	2.22	0.40
31:D6:8:LYS:HA	31:D6:27:LYS:HA	2.02	0.40
33:D8:32:LEU:HB2	33:D8:36:LYS:HD2	2.03	0.40
35:DA:2392:A:H2	35:DA:2424:C:N4	2.19	0.40
33:D8:58:ILE:CG2	48:DP:49:ARG:HD3	2.52	0.40
41:DG:46:ALA:HA	41:DG:51:ARG:CB	2.51	0.40
57:BY:87:LYS:O	57:BY:88:LYS:HB2	2.20	0.40
35:DA:820:A:N3	35:DA:943:U:H4'	2.37	0.40
24:CY:35:TYR:HB2	24:CY:273:LEU:HD11	2.04	0.40
24:AY:590:ILE:O	24:AY:592:GLU:N	2.53	0.40
18:AR:36:ASN:O	18:AR:39:VAL:HG23	2.22	0.40
40:BF:10:PRO:CG	40:BF:13:SER:OG	2.69	0.40
12:CL:17:LYS:CD	12:CL:18:VAL:HG22	2.47	0.40
1:CA:975:A:H4'	1:CA:976:G:C5'	2.33	0.40
35:BA:1156:A:O2'	35:BA:1157:G:P	2.80	0.40
53:BU:17:ILE:C	53:BU:19:LYS:N	2.75	0.40
35:BA:1819:A:O2'	35:BA:1820:U:OP2	2.33	0.40
27:D2:24:LEU:HD13	27:D2:60:LEU:HD21	2.02	0.40
39:DE:144:ARG:HB3	39:DE:145:LYS:H	1.57	0.40
2:CB:236:TYR:O	2:CB:237:ALA:C	2.60	0.40
2:CB:58:ILE:O	2:CB:61:LEU:N	2.47	0.40
44:BK:57:ILE:CD1	44:BK:57:ILE:H	2.30	0.40
39:DE:55:ASN:C	39:DE:57:LYS:N	2.74	0.40
42:BH:66:GLY:O	42:BH:67:LEU:C	2.58	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
38:DD:150:LYS:HA	38:DD:150:LYS:HD3	1.98	0.40
39:DE:31:CYS:HA	39:DE:32:PRO:HD3	1.82	0.40
39:DE:36:ARG:HH21	39:DE:88:GLY:N	2.20	0.40
2:AB:165:VAL:CG2	2:AB:166:ASP:N	2.73	0.40
27:B2:38:GLN:NE2	27:B2:44:LEU:HB2	2.36	0.40
1:CA:109:A:C6	1:CA:326:G:C6	3.08	0.40
9:AI:114:TYR:N	9:AI:114:TYR:HD2	2.20	0.40
5:CE:105:VAL:O	5:CE:106:PRO:C	2.58	0.40
1:CA:1228:C:C5	1:CA:1229:A:N7	2.90	0.40
1:AA:671:G:N2	1:AA:736:C:C2	2.89	0.40
37:DC:154:ILE:HA	37:DC:157:ILE:HD12	2.04	0.40
35:DA:204:A:OP1	35:DA:204:A:H8	2.04	0.40
35:DA:1608:A:C6	35:DA:1611:C:C2	3.09	0.40
42:BH:83:TYR:CB	42:BH:135:GLY:H	2.27	0.40
24:CY:171:GLU:HG3	24:CY:172:ASP:N	2.37	0.40
13:CM:68:GLY:O	13:CM:70:LEU:N	2.52	0.40
46:BN:94:HIS:HA	46:BN:96:GLU:OE1	2.21	0.40
35:BA:2174:C:O2'	35:BA:2175:C:H5'	2.21	0.40
35:DA:1314:C:H6	35:DA:1314:C:C5'	2.26	0.40
58:BZ:80:ARG:O	58:BZ:81:ARG:C	2.59	0.40
38:DD:92:ILE:HA	38:DD:107:ALA:H	1.87	0.40
1:CA:1342:C:H1'	9:CI:124:GLN:CG	2.52	0.40
7:AG:46:ALA:O	7:AG:49:ILE:N	2.55	0.40
12:AL:60:LEU:CD2	12:AL:60:LEU:N	2.83	0.40
5:CE:81:GLU:HA	5:CE:89:ILE:O	2.21	0.40
1:CA:725:G:O2'	1:CA:726:C:H5'	2.21	0.40
35:DA:1434:A:H2'	35:DA:1434:A:N3	2.36	0.40
35:DA:1053:C:H2'	35:DA:1054:A:O4'	2.21	0.40
37:BC:29:LEU:O	37:BC:32:GLU:N	2.43	0.40
37:BC:100:ILE:O	37:BC:102:GLN:N	2.54	0.40
1:CA:625:G:C4	1:CA:626:U:C5	3.09	0.40
1:AA:631:G:H5'	1:AA:631:G:C8	2.52	0.40
56:DX:8:ILE:CD1	56:DX:42:ALA:O	2.69	0.40
35:DA:883:G:N2	35:DA:894:C:C2	2.89	0.40
24:CY:122:TRP:O	24:CY:124:GLN:N	2.55	0.40
16:AP:74:LEU:O	16:AP:77:ALA:HB3	2.22	0.40
35:BA:752:A:H4'	35:BA:753:C:O5'	2.22	0.40
7:CG:146:GLU:O	7:CG:147:ALA:C	2.60	0.40
4:CD:61:LYS:HG3	4:CD:203:VAL:HG13	2.02	0.40
35:BA:1334:G:O3'	56:BX:65:ARG:NH2	2.55	0.40
25:D0:24:LYS:HA	25:D0:24:LYS:HD3	1.93	0.40
35:BA:2031:A:N3	35:BA:2455:G:O2'	2.53	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:AA:1423:G:OP1	47:BO:49:ARG:NH2	2.55	0.40
28:B3:22:ALA:HA	28:B3:46:ASN:HD22	1.86	0.40
35:BA:13:A:H1'	35:BA:15:G:N7	2.37	0.40
35:DA:1789:A:H2'	35:DA:1790:C:O4'	2.21	0.40
10:AJ:24:VAL:C	10:AJ:26:ALA:N	2.73	0.40
1:AA:1094:G:HO2'	1:AA:1095:U:P	2.45	0.40
7:AG:120:ILE:O	7:AG:124:LEU:HB2	2.21	0.40
24:AY:496:LYS:HA	24:AY:509:HIS:HB2	2.04	0.40
47:DO:2:ILE:HD11	47:DO:82:ASN:ND2	2.33	0.40
39:BE:167:VAL:HG22	39:BE:170:LEU:HD11	2.02	0.40
48:DP:13:ASN:ND2	48:DP:13:ASN:O	2.54	0.40
5:AE:149:GLU:O	5:AE:153:LYS:HE2	2.21	0.40
46:BN:55:VAL:CG2	46:BN:127:ASP:N	2.83	0.40
35:BA:2412:A:N6	35:BA:2413:G:C2	2.89	0.40
38:DD:226:MET:HB3	38:DD:230:ASP:CB	2.48	0.40
1:AA:1157:A:C1'	1:AA:1181:G:H21	2.35	0.40
11:CK:34:ASP:OD2	11:CK:34:ASP:C	2.59	0.40
11:CK:34:ASP:HB2	11:CK:35:PRO:HD2	2.03	0.40
35:DA:1277:G:O2'	50:DR:24:GLN:HG2	2.20	0.40
39:BE:16:ARG:O	39:BE:18:ASP:N	2.55	0.40
1:AA:157:G:C2	1:AA:165:C:C2	3.08	0.40
35:BA:266:G:O6	35:BA:267:C:C4	2.75	0.40
35:DA:332:A:O2'	35:DA:333:G:P	2.80	0.40
13:AM:64:TRP:CD1	13:AM:64:TRP:N	2.88	0.40
35:BA:311:A:O4'	35:BA:332:A:C4	2.74	0.40
35:BA:332:A:C6	35:BA:335:C:C2	3.10	0.40
35:DA:654(O):G:H2'	35:DA:654(P):C:C5	2.56	0.40
35:BA:307:G:N2	35:BA:310:A:O5'	2.55	0.40
35:DA:206:U:C2'	35:DA:206:U:O2	2.69	0.40
35:BA:2422:A:H3'	35:BA:2422:A:C8	2.57	0.40
44:BK:61:ALA:O	44:BK:63:ARG:N	2.55	0.40
44:DK:61:ALA:C	44:DK:63:ARG:N	2.75	0.40
35:DA:2693:A:C6	35:DA:2717:G:C6	3.09	0.40
35:BA:2193:G:O2'	35:BA:2194:G:H5'	2.22	0.40
35:BA:1680:U:C2'	35:BA:1681:G:H5'	2.51	0.40
8:CH:35:ILE:HG22	8:CH:39:LEU:CD2	2.51	0.40
14:AN:24:CYS:SG	14:AN:39:LEU:HA	2.61	0.40
35:BA:2653:U:O2'	42:BH:110:SER:CB	2.69	0.40
1:AA:532:A:C2'	1:AA:533:A:OP1	2.69	0.40
24:AY:78:ARG:HH11	24:AY:78:ARG:HG3	1.87	0.40
1:CA:315:A:O2'	1:CA:316:G:P	2.79	0.40
35:DA:1005:C:OP2	35:DA:1011:G:H2'	2.22	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:DC:16:ASP:HA	37:DC:17:PRO:HD2	1.86	0.40
52:DT:78:LEU:HB3	52:DT:79:HIS:CE1	2.57	0.40
52:BT:19:LEU:HA	52:BT:20:PRO:HD3	1.80	0.40
1:AA:1481:U:H2'	1:AA:1482:G:C8	2.57	0.40
47:DO:68:GLU:CB	47:DO:78:ARG:HB2	2.52	0.40
47:DO:68:GLU:N	47:DO:68:GLU:OE2	2.54	0.40
8:AH:97:VAL:HG13	8:AH:98:LYS:N	2.35	0.40
28:B3:12:PRO:O	28:B3:13:ILE:C	2.58	0.40
3:AC:9:GLY:HA2	3:AC:12:LEU:HG	2.03	0.40
35:BA:1024:G:OP2	35:BA:1026:U:OP1	2.38	0.40
26:D1:17:SER:HB3	26:D1:38:SER:OG	2.22	0.40
1:CA:778:G:H1'	11:CK:119:CYS:HB3	2.03	0.40
26:D1:43:TYR:CD1	26:D1:43:TYR:N	2.89	0.40
35:DA:2880:C:H6	35:DA:2880:C:O5'	2.05	0.40
35:BA:2582:G:H2'	35:BA:2582:G:N3	2.35	0.40
11:AK:41:THR:HG23	11:AK:41:THR:O	2.21	0.40
18:CR:63:GLN:OE1	18:CR:63:GLN:HA	2.21	0.40
43:DJ:123:UNK:O	43:DJ:124:UNK:C	2.69	0.40
24:AY:616:TYR:O	24:AY:617:MET:C	2.60	0.40
41:BG:106:LEU:HG	41:BG:106:LEU:O	2.20	0.40
41:BG:34:LEU:HD11	41:BG:100:TRP:CZ2	2.55	0.40
41:BG:44:GLY:O	41:BG:47:LYS:CD	2.70	0.40
35:BA:2579:C:H6	35:BA:2579:C:O5'	2.05	0.40
1:CA:407:G:H2'	1:CA:408:A:C8	2.54	0.40
35:DA:1043:C:H6	35:DA:1043:C:O5'	2.05	0.40
24:CY:141:LYS:O	24:CY:144:ALA:HB2	2.22	0.40
30:B5:19:ARG:HA	35:BA:2046:G:H5''	2.01	0.40
40:BF:157:VAL:CG2	40:BF:194:MET:HA	2.52	0.40
9:CI:4:TYR:CB	9:CI:19:LEU:HB2	2.22	0.40
34:D9:3:VAL:HG21	35:DA:2539:C:H4'	2.04	0.40
46:BN:40:PRO:O	53:BU:64:ARG:NH2	2.53	0.40
24:AY:435:ASP:OD2	24:AY:437:THR:OG1	2.35	0.40
58:DZ:35:ARG:NH1	58:DZ:35:ARG:CG	2.82	0.40
35:BA:83:G:H22	35:BA:102:G:H2'	1.84	0.40
35:BA:1485:G:N2	35:BA:1504:C:O2	2.55	0.40
40:DF:157:VAL:HA	40:DF:176:LEU:O	2.21	0.40
35:DA:2393:A:H2'	35:DA:2394:C:O4'	2.22	0.40
35:DA:1453:U:OP1	50:DR:63:ARG:NH2	2.54	0.40
47:DO:114:ILE:O	47:DO:117:LEU:N	2.45	0.40
41:BG:37:VAL:HG22	41:BG:159:VAL:HB	2.03	0.40
5:CE:101:ILE:CD1	5:CE:118:ILE:O	2.67	0.40
35:BA:812:C:C2	35:BA:813:U:C5	3.09	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:DA:1010:A:H1'	35:DA:1153:C:C1'	2.49	0.40
35:DA:999:U:O2	35:DA:1157:G:C2	2.75	0.40
35:DA:811:U:O2	35:DA:1251:C:C6	2.75	0.40
2:CB:121:LEU:HA	2:CB:124:SER:CB	2.50	0.40
35:DA:2454:G:H2'	35:DA:2455:G:C5'	2.52	0.40
35:BA:637:A:N6	35:BA:652:C:H4'	2.36	0.40
48:BP:91:PHE:HZ	48:BP:100:LEU:CD1	2.32	0.40
34:D9:19:ARG:O	34:D9:20:HIS:HB2	2.21	0.40
13:CM:49:THR:C	13:CM:51:ALA:H	2.25	0.40
35:BA:1016:G:H1	35:BA:1146:C:H42	1.69	0.40
1:CA:1442(B):A:C5	52:DT:118:ARG:NE	2.89	0.40
1:AA:963:G:H21	10:AJ:55:LYS:HD2	1.86	0.40
35:BA:2867:G:OP2	52:BT:119:LYS:NZ	2.54	0.40
54:DV:19:LYS:HG2	54:DV:94:LEU:CB	2.47	0.40
35:DA:2821:A:OP2	39:DE:110:GLY:O	2.39	0.40
2:AB:212:GLN:OE1	2:AB:216:SER:HB2	2.22	0.40
57:BY:11:ASP:O	57:BY:27:VAL:HA	2.22	0.40
42:BH:41:MET:HE2	42:BH:43:VAL:HA	2.04	0.40
26:B1:12:PRO:HG3	35:BA:1365:A:H5'	2.04	0.40
58:DZ:129:SER:HB2	58:DZ:131:ARG:CD	2.52	0.40
44:DK:30:HIS:CE1	44:DK:59:ILE:HB	2.56	0.40
44:DK:6:ALA:HB3	44:DK:59:ILE:HG22	2.03	0.40
35:DA:271(P):C:H2'	35:DA:271(Q):G:C8	2.56	0.40
1:CA:301:G:H2'	1:CA:302:G:H8	1.87	0.40
24:AY:554:PRO:HG2	24:AY:555:LEU:HG	2.04	0.40
15:CO:74:ASP:O	15:CO:76:GLU:N	2.53	0.40
52:BT:50:ILE:HD11	52:BT:64:ARG:HB3	2.03	0.40
24:CY:128:TYR:CD1	24:CY:128:TYR:O	2.75	0.40
24:AY:152:THR:CG2	24:AY:153:MET:N	2.84	0.40
53:DU:33:ARG:C	53:DU:35:ALA:H	2.25	0.40
35:DA:2019:A:C4'	53:DU:34:LYS:HD2	2.51	0.40
35:BA:1337:G:H2'	35:BA:1338:G:H8	1.86	0.40
10:AJ:61:GLU:HG3	14:AN:58:LYS:HE2	2.03	0.40
1:CA:436:C:O2'	1:CA:437:U:P	2.80	0.40
42:BH:19:VAL:O	42:BH:20:ALA:CB	2.69	0.40
35:DA:1049:C:H6	35:DA:1049:C:H5'	1.86	0.40
1:AA:1296:C:O2'	1:AA:1302:U:C5	2.63	0.40
6:AF:97:PHE:N	18:AR:30:ASP:OD1	2.51	0.40
35:BA:121:G:N2	35:BA:122:G:H1'	2.36	0.40
10:CJ:22:LYS:C	10:CJ:24:VAL:H	2.25	0.40
40:BF:89:VAL:CG1	40:BF:90:PHE:H	2.27	0.40
4:CD:159:ARG:O	4:CD:160:GLN:C	2.60	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
35:BA:910:A:C6	35:BA:911:A:C6	3.10	0.40
35:DA:482:A:N6	35:DA:506:G:C8	2.89	0.40
58:BZ:162:GLU:O	58:BZ:163:LEU:C	2.60	0.40
16:CP:60:LEU:HA	16:CP:60:LEU:HD23	1.94	0.40
39:DE:167:VAL:HG13	39:DE:170:LEU:HD11	2.03	0.40
1:CA:267:C:H2'	1:CA:268:C:C6	2.47	0.40
10:AJ:67:THR:HG22	10:AJ:67:THR:O	2.21	0.40
42:DH:28:GLY:HA3	42:DH:79:VAL:HG21	2.02	0.40
48:BP:71:VAL:N	48:BP:72:PRO:CD	2.85	0.40
44:BK:41:PHE:O	44:BK:43:ALA:N	2.54	0.40
2:AB:194:PRO:O	2:AB:195:ASP:C	2.59	0.40
35:DA:2652:C:H42	35:DA:2668:G:H1	1.70	0.40
35:BA:2244:U:O5'	35:BA:2244:U:H6	2.04	0.40
35:BA:2078:C:H1'	35:BA:2434:A:H1'	2.04	0.40
36:BB:29:A:C2	36:BB:56:G:C2	3.10	0.40
24:CY:507:TYR:C	24:CY:507:TYR:HD1	2.22	0.40
35:BA:1278:A:C5'	50:BR:36:THR:HG22	2.50	0.40
54:BV:32:THR:HG23	54:BV:60:GLU:HA	2.04	0.40
4:CD:190:ASP:HB3	4:CD:193:ASP:OD2	2.22	0.40
54:DV:32:THR:HG23	54:DV:60:GLU:HA	2.04	0.40
35:BA:271(E):U:H2'	35:BA:271(F):C:H6	1.85	0.40
24:AY:455:GLY:O	24:AY:456:GLU:C	2.59	0.40
7:AG:61:VAL:O	7:AG:62:PHE:C	2.59	0.40
17:AQ:53:LEU:HD23	17:AQ:53:LEU:C	2.42	0.40
1:CA:313:A:H2'	1:CA:314:C:C6	2.57	0.40
24:AY:137:ASN:O	24:AY:262:SER:HA	2.21	0.40
35:BA:572:A:H2'	35:BA:573:G:O4'	2.22	0.40
1:CA:977:A:HO2'	1:CA:978:A:H5'	1.87	0.40
35:DA:626:U:N3	48:DP:105:LEU:HG	2.36	0.40
35:BA:1398:C:H2'	35:BA:1399:C:C6	2.54	0.40
35:BA:1459:G:O2'	35:BA:1461:G:H5'	2.22	0.40
1:AA:262:A:C6	1:AA:263:A:C6	3.09	0.40
4:AD:149:ALA:O	4:AD:153:ARG:HG3	2.22	0.40
58:BZ:127:LYS:HZ3	58:BZ:127:LYS:HB3	1.86	0.40
27:B2:29:LYS:O	27:B2:32:LEU:N	2.55	0.40
8:CH:43:GLY:O	8:CH:64:LYS:NZ	2.42	0.40
1:AA:707:C:H2'	1:AA:708:C:C6	2.57	0.40
53:DU:104:GLN:HB3	54:DV:44:LYS:HZ3	1.87	0.40
35:BA:635:C:O2'	35:BA:639:U:OP1	2.38	0.40
9:CI:16:ARG:O	9:CI:63:ILE:HG23	2.21	0.40
35:DA:772:C:O2'	35:DA:773:U:H5'	2.21	0.40
1:AA:910:C:O2'	1:AA:911:U:H5'	2.22	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
37:DC:172:ILE:HG21	37:DC:197:LEU:HD11	2.03	0.40
6:CF:50:TYR:HB2	6:CF:51:PRO:HD2	2.03	0.40
7:CG:134:ALA:O	7:CG:135:VAL:C	2.60	0.40
1:CA:841:U:H3'	1:CA:848:C:H5'	2.04	0.40
35:BA:777:A:C2	35:BA:778:G:C4	3.10	0.40
35:DA:2352:A:C2'	35:DA:2353:G:H5'	2.51	0.40
35:BA:1571:A:H8	35:BA:1571:A:O5'	2.04	0.40
35:BA:2516:G:O2'	35:BA:2517:C:H5'	2.21	0.40
50:DR:88:ARG:HD2	50:DR:88:ARG:O	2.21	0.40
35:DA:312:G:H2'	35:DA:313:C:O4'	2.22	0.40
1:AA:1465:C:C2'	1:AA:1466:C:H5'	2.52	0.40
1:AA:563:A:N7	1:AA:567:G:H1'	2.36	0.40
5:CE:128:PRO:O	5:CE:129:ILE:C	2.60	0.40
1:AA:1109:C:C2'	1:AA:1110:A:H5'	2.51	0.40
7:AG:77:SER:OG	22:AW:33:C:O3'	2.40	0.40
3:CC:9:GLY:HA2	3:CC:12:LEU:HG	2.04	0.40
1:AA:226:G:O2'	1:AA:227:G:H5'	2.22	0.40
13:CM:40:ASN:HD21	13:CM:42:ALA:HB3	1.86	0.40
24:CY:345:THR:O	24:CY:345:THR:HG22	2.21	0.40
16:AP:52:ASP:C	16:AP:52:ASP:OD2	2.58	0.40
43:DJ:69:UNK:O	43:DJ:70:UNK:O	2.40	0.40
17:CQ:10:VAL:HG13	17:CQ:19:VAL:HB	2.03	0.40

All (2) 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)
2:CB:65:GLY:O	37:DC:28:ARG:NH2[2_646]	1.56	0.64
2:CB:65:GLY:O	37:DC:28:ARG:CZ[2_646]	1.87	0.33

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%)	139 (60%)	53 (23%)	41 (18%)	0	4
2	CB	233/256 (91%)	140 (60%)	51 (22%)	42 (18%)	0	4
3	AC	205/239 (86%)	133 (65%)	50 (24%)	22 (11%)	1	15
3	CC	205/239 (86%)	132 (64%)	52 (25%)	21 (10%)	1	17
4	AD	206/209 (99%)	134 (65%)	50 (24%)	22 (11%)	1	15
4	CD	206/209 (99%)	134 (65%)	51 (25%)	21 (10%)	1	17
5	AE	149/162 (92%)	119 (80%)	21 (14%)	9 (6%)	2	34
5	CE	149/162 (92%)	117 (78%)	24 (16%)	8 (5%)	3	38
6	AF	99/101 (98%)	75 (76%)	17 (17%)	7 (7%)	2	29
6	CF	99/101 (98%)	74 (75%)	18 (18%)	7 (7%)	2	29
7	AG	153/156 (98%)	109 (71%)	34 (22%)	10 (6%)	2	32
7	CG	153/156 (98%)	110 (72%)	32 (21%)	11 (7%)	2	29
8	AH	136/138 (99%)	103 (76%)	30 (22%)	3 (2%)	10	64
8	CH	136/138 (99%)	105 (77%)	27 (20%)	4 (3%)	7	58
9	AI	121/128 (94%)	81 (67%)	26 (22%)	14 (12%)	1	13
9	CI	121/128 (94%)	82 (68%)	27 (22%)	12 (10%)	1	18
10	AJ	97/105 (92%)	60 (62%)	21 (22%)	16 (16%)	0	6
10	CJ	97/105 (92%)	61 (63%)	20 (21%)	16 (16%)	0	6
11	AK	117/129 (91%)	91 (78%)	20 (17%)	6 (5%)	3	40
11	CK	117/129 (91%)	91 (78%)	20 (17%)	6 (5%)	3	40
12	AL	123/132 (93%)	82 (67%)	23 (19%)	18 (15%)	0	8
12	CL	123/132 (93%)	82 (67%)	22 (18%)	19 (15%)	0	6
13	AM	123/126 (98%)	77 (63%)	25 (20%)	21 (17%)	0	5
13	CM	123/126 (98%)	77 (63%)	26 (21%)	20 (16%)	0	6
14	AN	58/61 (95%)	47 (81%)	7 (12%)	4 (7%)	2	30
14	CN	58/61 (95%)	46 (79%)	7 (12%)	5 (9%)	1	22
15	AO	86/89 (97%)	55 (64%)	23 (27%)	8 (9%)	1	20
15	CO	86/89 (97%)	53 (62%)	24 (28%)	9 (10%)	1	15
16	AP	82/88 (93%)	60 (73%)	15 (18%)	7 (8%)	1	23
16	CP	82/88 (93%)	60 (73%)	15 (18%)	7 (8%)	1	23
17	AQ	98/105 (93%)	78 (80%)	15 (15%)	5 (5%)	3	40
17	CQ	98/105 (93%)	78 (80%)	16 (16%)	4 (4%)	4	47

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
18	AR	68/88 (77%)	52 (76%)	11 (16%)	5 (7%)	2	28
18	CR	68/88 (77%)	51 (75%)	12 (18%)	5 (7%)	2	28
19	AS	77/93 (83%)	43 (56%)	14 (18%)	20 (26%)	0	1
19	CS	77/93 (83%)	43 (56%)	15 (20%)	19 (25%)	0	1
20	AT	97/106 (92%)	52 (54%)	30 (31%)	15 (16%)	0	6
20	CT	97/106 (92%)	53 (55%)	29 (30%)	15 (16%)	0	6
21	AU	23/27 (85%)	14 (61%)	6 (26%)	3 (13%)	0	11
21	CU	23/27 (85%)	14 (61%)	5 (22%)	4 (17%)	0	5
24	AY	663/691 (96%)	435 (66%)	137 (21%)	91 (14%)	0	9
24	CY	663/691 (96%)	449 (68%)	134 (20%)	80 (12%)	1	12
25	B0	82/85 (96%)	64 (78%)	14 (17%)	4 (5%)	3	41
25	D0	82/85 (96%)	64 (78%)	14 (17%)	4 (5%)	3	41
26	B1	92/98 (94%)	64 (70%)	15 (16%)	13 (14%)	0	9
26	D1	92/98 (94%)	67 (73%)	13 (14%)	12 (13%)	0	11
27	B2	69/72 (96%)	35 (51%)	18 (26%)	16 (23%)	0	2
27	D2	69/72 (96%)	29 (42%)	31 (45%)	9 (13%)	0	11
28	B3	58/60 (97%)	41 (71%)	12 (21%)	5 (9%)	1	22
28	D3	58/60 (97%)	41 (71%)	12 (21%)	5 (9%)	1	22
29	B4	56/71 (79%)	27 (48%)	14 (25%)	15 (27%)	0	1
29	D4	56/71 (79%)	28 (50%)	13 (23%)	15 (27%)	0	1
30	B5	57/60 (95%)	37 (65%)	9 (16%)	11 (19%)	0	3
30	D5	57/60 (95%)	38 (67%)	7 (12%)	12 (21%)	0	3
31	B6	48/54 (89%)	21 (44%)	12 (25%)	15 (31%)	0	0
31	D6	48/54 (89%)	22 (46%)	12 (25%)	14 (29%)	0	0
32	B7	47/49 (96%)	35 (74%)	11 (23%)	1 (2%)	11	65
32	D7	47/49 (96%)	35 (74%)	11 (23%)	1 (2%)	11	65
33	B8	62/65 (95%)	34 (55%)	16 (26%)	12 (19%)	0	3
33	D8	62/65 (95%)	34 (55%)	16 (26%)	12 (19%)	0	3
34	B9	35/37 (95%)	21 (60%)	9 (26%)	5 (14%)	0	8
34	D9	35/37 (95%)	21 (60%)	8 (23%)	6 (17%)	0	5
37	BC	226/229 (99%)	163 (72%)	51 (23%)	12 (5%)	3	38

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
37	DC	226/229 (99%)	163 (72%)	50 (22%)	13 (6%)	3	35
38	BD	273/276 (99%)	189 (69%)	50 (18%)	34 (12%)	1	12
38	DD	273/276 (99%)	188 (69%)	50 (18%)	35 (13%)	0	11
39	BE	203/206 (98%)	122 (60%)	45 (22%)	36 (18%)	0	4
39	DE	203/206 (98%)	124 (61%)	44 (22%)	35 (17%)	0	5
40	BF	206/210 (98%)	132 (64%)	44 (21%)	30 (15%)	0	8
40	DF	206/210 (98%)	133 (65%)	42 (20%)	31 (15%)	0	7
41	BG	177/182 (97%)	110 (62%)	43 (24%)	24 (14%)	0	9
41	DG	177/182 (97%)	115 (65%)	36 (20%)	26 (15%)	0	8
42	BH	165/180 (92%)	86 (52%)	40 (24%)	39 (24%)	0	1
42	DH	165/180 (92%)	86 (52%)	40 (24%)	39 (24%)	0	1
44	BK	138/147 (94%)	92 (67%)	35 (25%)	11 (8%)	1	25
44	DK	138/147 (94%)	92 (67%)	35 (25%)	11 (8%)	1	25
46	BN	137/140 (98%)	88 (64%)	28 (20%)	21 (15%)	0	6
46	DN	137/140 (98%)	88 (64%)	28 (20%)	21 (15%)	0	6
47	BO	120/122 (98%)	91 (76%)	19 (16%)	10 (8%)	1	23
47	DO	120/122 (98%)	93 (78%)	17 (14%)	10 (8%)	1	23
48	BP	144/150 (96%)	72 (50%)	45 (31%)	27 (19%)	0	3
48	DP	144/150 (96%)	72 (50%)	44 (31%)	28 (19%)	0	3
49	BQ	139/141 (99%)	106 (76%)	26 (19%)	7 (5%)	3	40
49	DQ	139/141 (99%)	106 (76%)	26 (19%)	7 (5%)	3	40
50	BR	115/118 (98%)	81 (70%)	20 (17%)	14 (12%)	1	12
50	DR	115/118 (98%)	81 (70%)	20 (17%)	14 (12%)	1	12
51	BS	97/112 (87%)	41 (42%)	35 (36%)	21 (22%)	0	2
51	DS	97/112 (87%)	41 (42%)	35 (36%)	21 (22%)	0	2
52	BT	136/146 (93%)	76 (56%)	32 (24%)	28 (21%)	0	3
52	DT	136/146 (93%)	75 (55%)	32 (24%)	29 (21%)	0	2
53	BU	115/118 (98%)	66 (57%)	37 (32%)	12 (10%)	1	16
53	DU	115/118 (98%)	67 (58%)	35 (30%)	13 (11%)	1	14
54	BV	99/101 (98%)	69 (70%)	12 (12%)	18 (18%)	0	4
54	DV	99/101 (98%)	69 (70%)	12 (12%)	18 (18%)	0	4

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
55	BW	111/113 (98%)	80 (72%)	21 (19%)	10 (9%)	1	21
55	DW	111/113 (98%)	81 (73%)	21 (19%)	9 (8%)	1	24
56	BX	91/96 (95%)	56 (62%)	26 (29%)	9 (10%)	1	18
56	DX	91/96 (95%)	57 (63%)	25 (28%)	9 (10%)	1	18
57	BY	105/110 (96%)	42 (40%)	36 (34%)	27 (26%)	0	1
57	DY	105/110 (96%)	43 (41%)	36 (34%)	26 (25%)	0	1
58	BZ	183/206 (89%)	108 (59%)	42 (23%)	33 (18%)	0	4
58	DZ	183/206 (89%)	114 (62%)	37 (20%)	32 (18%)	0	4
All	All	13200/13966 (94%)	8607 (65%)	2874 (22%)	1719 (13%)	0	11

All (1719) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AB	12	GLU
2	AB	13	ALA
2	AB	15	VAL
2	AB	20	GLU
2	AB	95	GLN
2	AB	129	GLU
2	AB	190	THR
2	AB	195	ASP
2	AB	233	SER
2	AB	239	VAL
3	AC	12	LEU
3	AC	47	LEU
3	AC	61	ALA
3	AC	95	THR
3	AC	154	SER
3	AC	156	ARG
3	AC	207	VAL
4	AD	3	ARG
4	AD	13	ARG
4	AD	14	ARG
4	AD	18	LYS
4	AD	30	LYS
4	AD	32	ALA
4	AD	44	GLY
4	AD	153	ARG
4	AD	179	GLU

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Mol	Chain	Res	Type
5	AE	11	ILE
6	AF	39	LYS
7	AG	8	GLU
7	AG	52	GLU
7	AG	90	GLU
8	AH	105	ARG
9	AI	41	VAL
9	AI	43	ALA
9	AI	61	ALA
9	AI	89	ASN
10	AJ	33	GLN
10	AJ	36	GLY
10	AJ	55	LYS
10	AJ	56	HIS
10	AJ	57	LYS
10	AJ	59	SER
10	AJ	75	ILE
11	AK	123	LYS
11	AK	127	LYS
12	AL	18	VAL
12	AL	27	LEU
12	AL	28	LYS
12	AL	38	THR
12	AL	45	PRO
12	AL	81	SER
12	AL	91	LYS
13	AM	12	ASN
13	AM	67	GLU
13	AM	70	LEU
13	AM	83	ASP
13	AM	90	LEU
13	AM	91	ARG
13	AM	100	GLY
13	AM	118	ALA
13	AM	124	PRO
14	AN	15	LYS
14	AN	29	ARG
15	AO	24	SER
16	AP	83	GLU
17	AQ	13	ASP
17	AQ	49	GLU
18	AR	37	VAL

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Mol	Chain	Res	Type
18	AR	38	GLU
18	AR	45	SER
19	AS	10	PHE
19	AS	27	GLU
19	AS	28	LYS
19	AS	29	ARG
19	AS	47	HIS
19	AS	61	TYR
20	AT	48	LYS
20	AT	74	LYS
20	AT	99	LEU
21	AU	3	LYS
24	AY	6	GLU
24	AY	19	ALA
24	AY	21	ILE
24	AY	23	ALA
24	AY	66	THR
24	AY	68	ALA
24	AY	84	THR
24	AY	85	PRO
24	AY	88	VAL
24	AY	92	ILE
24	AY	119	GLU
24	AY	121	VAL
24	AY	129	LYS
24	AY	197	ARG
24	AY	203	GLU
24	AY	204	GLU
24	AY	205	TYR
24	AY	206	LEU
24	AY	209	ALA
24	AY	210	ARG
24	AY	251	ILE
24	AY	276	VAL
24	AY	360	ALA
24	AY	385	THR
24	AY	396	ARG
24	AY	402	ILE
24	AY	447	GLY
24	AY	448	GLN
24	AY	456	GLU
24	AY	498	ILE

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Mol	Chain	Res	Type
24	AY	519	ARG
24	AY	530	VAL
24	AY	559	PRO
24	AY	614	GLU
25	B0	74	ARG
26	B1	28	GLY
26	B1	52	ARG
26	B1	53	VAL
26	B1	85	LEU
27	B2	18	PRO
27	B2	19	VAL
27	B2	20	GLU
27	B2	47	ASN
27	B2	48	HIS
28	B3	3	ARG
29	B4	3	GLU
29	B4	26	SER
29	B4	38	LYS
29	B4	43	TYR
29	B4	50	VAL
29	B4	57	GLU
30	B5	49	CYS
30	B5	53	ALA
30	B5	56	LYS
30	B5	57	VAL
31	B6	7	ILE
31	B6	9	LEU
31	B6	18	ARG
31	B6	20	ASN
31	B6	27	LYS
31	B6	31	PRO
31	B6	44	ARG
31	B6	52	VAL
33	B8	31	HIS
33	B8	33	ASN
33	B8	43	GLN
33	B8	49	VAL
34	B9	2	LYS
34	B9	35	ARG
38	BD	19	ALA
38	BD	24	ILE
38	BD	25	THR

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Mol	Chain	Res	Type
38	BD	27	THR
38	BD	30	GLU
38	BD	34	VAL
38	BD	35	LYS
38	BD	127	VAL
38	BD	225	ALA
38	BD	239	ARG
38	BD	246	PRO
39	BE	35	GLN
39	BE	54	GLN
39	BE	77	ILE
39	BE	88	GLY
39	BE	90	THR
39	BE	145	LYS
39	BE	185	LYS
39	BE	189	PRO
40	BF	11	VAL
40	BF	21	ALA
40	BF	64	ILE
40	BF	89	VAL
40	BF	167	ALA
41	BG	4	ASP
41	BG	6	ALA
41	BG	47	LYS
41	BG	87	PRO
41	BG	96	ARG
41	BG	102	PHE
41	BG	109	VAL
41	BG	110	ALA
41	BG	181	ARG
42	BH	13	LYS
42	BH	20	ALA
42	BH	41	MET
42	BH	46	GLU
42	BH	55	PRO
42	BH	83	TYR
42	BH	154	PRO
42	BH	155	SER
42	BH	156	ALA
42	BH	157	TYR
42	BH	160	LYS
42	BH	169	VAL

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Mol	Chain	Res	Type
42	BH	173	PRO
44	BK	51	ALA
44	BK	115	LEU
46	BN	8	GLN
46	BN	36	GLY
46	BN	46	VAL
46	BN	47	ALA
46	BN	57	ALA
46	BN	58	ASP
46	BN	63	THR
46	BN	130	HIS
46	BN	133	GLN
47	BO	35	VAL
47	BO	48	PRO
47	BO	54	GLU
47	BO	68	GLU
48	BP	12	ALA
48	BP	14	LYS
48	BP	17	LYS
48	BP	31	ALA
48	BP	47	ASP
48	BP	48	PRO
48	BP	52	GLU
48	BP	57	THR
48	BP	58	THR
48	BP	111	ARG
48	BP	135	LEU
48	BP	147	LEU
49	BQ	27	VAL
49	BQ	135	ASP
50	BR	8	ARG
50	BR	14	SER
50	BR	58	GLY
50	BR	88	ARG
50	BR	107	ASP
50	BR	117	VAL
51	BS	13	ARG
51	BS	23	ARG
51	BS	97	ARG
51	BS	100	ALA
51	BS	102	ALA
51	BS	103	GLU

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Mol	Chain	Res	Type
52	BT	5	ALA
52	BT	6	LEU
52	BT	24	PRO
52	BT	28	VAL
52	BT	30	VAL
52	BT	55	ASN
52	BT	80	SER
52	BT	91	ARG
52	BT	104	ASN
52	BT	107	ASP
52	BT	130	ALA
52	BT	132	LYS
52	BT	135	ALA
53	BU	91	ASP
53	BU	93	LYS
54	BV	16	PRO
54	BV	18	LEU
54	BV	19	LYS
54	BV	46	VAL
54	BV	67	GLY
55	BW	63	ASP
56	BX	12	VAL
56	BX	42	ALA
57	BY	7	VAL
57	BY	24	VAL
57	BY	48	ALA
57	BY	60	PHE
57	BY	74	PRO
57	BY	77	PRO
57	BY	78	ALA
57	BY	99	CYS
57	BY	100	ALA
57	BY	104	GLY
58	BZ	27	VAL
58	BZ	51	ALA
58	BZ	78	LYS
58	BZ	80	ARG
58	BZ	81	ARG
58	BZ	120	ILE
58	BZ	121	HIS
58	BZ	142	SER
58	BZ	146	ILE

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Mol	Chain	Res	Type
58	BZ	152	ALA
58	BZ	163	LEU
58	BZ	168	GLU
58	BZ	185	GLU
58	BZ	186	GLU
2	CB	12	GLU
2	CB	13	ALA
2	CB	15	VAL
2	CB	20	GLU
2	CB	95	GLN
2	CB	129	GLU
2	CB	195	ASP
2	CB	233	SER
2	CB	239	VAL
3	CC	12	LEU
3	CC	47	LEU
3	CC	61	ALA
3	CC	95	THR
3	CC	154	SER
3	CC	156	ARG
3	CC	207	VAL
4	CD	3	ARG
4	CD	13	ARG
4	CD	14	ARG
4	CD	18	LYS
4	CD	30	LYS
4	CD	32	ALA
4	CD	44	GLY
4	CD	153	ARG
4	CD	171	GLY
5	CE	11	ILE
6	CF	39	LYS
7	CG	8	GLU
7	CG	52	GLU
7	CG	90	GLU
8	CH	105	ARG
9	CI	41	VAL
9	CI	43	ALA
9	CI	61	ALA
9	CI	89	ASN
10	CJ	33	GLN
10	CJ	36	GLY

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Mol	Chain	Res	Type
10	CJ	55	LYS
10	CJ	56	HIS
10	CJ	57	LYS
10	CJ	59	SER
10	CJ	75	ILE
11	CK	123	LYS
11	CK	127	LYS
12	CL	18	VAL
12	CL	27	LEU
12	CL	28	LYS
12	CL	38	THR
12	CL	45	PRO
12	CL	81	SER
12	CL	91	LYS
13	CM	12	ASN
13	CM	67	GLU
13	CM	70	LEU
13	CM	83	ASP
13	CM	90	LEU
13	CM	91	ARG
13	CM	100	GLY
13	CM	118	ALA
13	CM	124	PRO
14	CN	15	LYS
14	CN	29	ARG
15	CO	24	SER
16	CP	83	GLU
17	CQ	13	ASP
17	CQ	49	GLU
18	CR	37	VAL
18	CR	38	GLU
18	CR	45	SER
19	CS	10	PHE
19	CS	27	GLU
19	CS	28	LYS
19	CS	29	ARG
19	CS	47	HIS
19	CS	61	TYR
20	CT	48	LYS
20	CT	74	LYS
20	CT	99	LEU
21	CU	3	LYS

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Mol	Chain	Res	Type
24	CY	21	ILE
24	CY	39	ILE
24	CY	66	THR
24	CY	67	ALA
24	CY	84	THR
24	CY	92	ILE
24	CY	104	ALA
24	CY	138	LYS
24	CY	183	MET
24	CY	209	ALA
24	CY	210	ARG
24	CY	297	GLU
24	CY	299	VAL
24	CY	448	GLN
24	CY	456	GLU
24	CY	498	ILE
24	CY	530	VAL
24	CY	674	ASP
25	D0	74	ARG
26	D1	53	VAL
27	D2	47	ASN
27	D2	48	HIS
28	D3	3	ARG
29	D4	26	SER
29	D4	38	LYS
29	D4	43	TYR
29	D4	50	VAL
29	D4	57	GLU
30	D5	49	CYS
30	D5	53	ALA
30	D5	56	LYS
30	D5	57	VAL
31	D6	7	ILE
31	D6	9	LEU
31	D6	18	ARG
31	D6	20	ASN
31	D6	27	LYS
31	D6	31	PRO
31	D6	44	ARG
31	D6	52	VAL
33	D8	31	HIS
33	D8	33	ASN

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Mol	Chain	Res	Type
33	D8	43	GLN
33	D8	49	VAL
34	D9	2	LYS
34	D9	35	ARG
38	DD	19	ALA
38	DD	24	ILE
38	DD	25	THR
38	DD	27	THR
38	DD	34	VAL
38	DD	35	LYS
38	DD	127	VAL
38	DD	225	ALA
38	DD	239	ARG
38	DD	246	PRO
39	DE	35	GLN
39	DE	54	GLN
39	DE	77	ILE
39	DE	88	GLY
39	DE	90	THR
39	DE	145	LYS
39	DE	185	LYS
39	DE	189	PRO
40	DF	11	VAL
40	DF	21	ALA
40	DF	64	ILE
40	DF	89	VAL
40	DF	167	ALA
41	DG	4	ASP
41	DG	14	GLU
41	DG	47	LYS
41	DG	48	GLU
41	DG	75	LYS
41	DG	81	LYS
41	DG	82	LEU
41	DG	87	PRO
41	DG	96	ARG
41	DG	109	VAL
41	DG	110	ALA
42	DH	13	LYS
42	DH	20	ALA
42	DH	41	MET
42	DH	46	GLU

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Mol	Chain	Res	Type
42	DH	55	PRO
42	DH	83	TYR
42	DH	154	PRO
42	DH	155	SER
42	DH	156	ALA
42	DH	157	TYR
42	DH	160	LYS
42	DH	169	VAL
42	DH	173	PRO
42	DH	176	ALA
44	DK	51	ALA
44	DK	115	LEU
46	DN	8	GLN
46	DN	36	GLY
46	DN	46	VAL
46	DN	47	ALA
46	DN	58	ASP
46	DN	63	THR
46	DN	130	HIS
46	DN	133	GLN
47	DO	35	VAL
47	DO	48	PRO
47	DO	68	GLU
48	DP	12	ALA
48	DP	14	LYS
48	DP	17	LYS
48	DP	31	ALA
48	DP	47	ASP
48	DP	48	PRO
48	DP	52	GLU
48	DP	57	THR
48	DP	58	THR
48	DP	111	ARG
48	DP	135	LEU
48	DP	147	LEU
49	DQ	27	VAL
49	DQ	135	ASP
50	DR	8	ARG
50	DR	14	SER
50	DR	58	GLY
50	DR	88	ARG
50	DR	107	ASP

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Mol	Chain	Res	Type
50	DR	117	VAL
51	DS	13	ARG
51	DS	23	ARG
51	DS	57	LYS
51	DS	97	ARG
51	DS	100	ALA
51	DS	102	ALA
51	DS	103	GLU
52	DT	5	ALA
52	DT	6	LEU
52	DT	24	PRO
52	DT	28	VAL
52	DT	30	VAL
52	DT	55	ASN
52	DT	80	SER
52	DT	91	ARG
52	DT	97	ALA
52	DT	104	ASN
52	DT	107	ASP
52	DT	130	ALA
52	DT	132	LYS
52	DT	135	ALA
53	DU	91	ASP
53	DU	93	LYS
54	DV	16	PRO
54	DV	18	LEU
54	DV	19	LYS
54	DV	46	VAL
54	DV	67	GLY
55	DW	63	ASP
56	DX	12	VAL
56	DX	42	ALA
57	DY	7	VAL
57	DY	24	VAL
57	DY	48	ALA
57	DY	60	PHE
57	DY	74	PRO
57	DY	77	PRO
57	DY	78	ALA
57	DY	99	CYS
57	DY	100	ALA
57	DY	104	GLY

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Mol	Chain	Res	Type
58	DZ	38	TYR
58	DZ	42	VAL
58	DZ	80	ARG
58	DZ	112	ARG
58	DZ	136	PHE
58	DZ	146	ILE
58	DZ	158	PRO
58	DZ	177	PRO
58	DZ	181	GLU
58	DZ	186	GLU
2	AB	18	GLY
2	AB	24	TRP
2	AB	65	GLY
2	AB	83	MET
2	AB	128	GLU
2	AB	151	GLY
2	AB	152	PHE
2	AB	153	ARG
2	AB	165	VAL
2	AB	216	SER
2	AB	221	LEU
2	AB	224	GLN
2	AB	238	LEU
3	AC	26	LYS
3	AC	96	GLY
3	AC	129	ALA
3	AC	131	ARG
3	AC	135	LYS
3	AC	139	GLN
4	AD	5	ILE
4	AD	69	GLY
4	AD	156	GLU
4	AD	171	GLY
5	AE	8	GLU
6	AF	30	LEU
6	AF	34	GLY
6	AF	43	LEU
7	AG	80	VAL
8	AH	2	LEU
9	AI	34	ASN
9	AI	85	LEU
10	AJ	19	SER

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Mol	Chain	Res	Type
10	AJ	61	GLU
10	AJ	83	GLU
10	AJ	84	GLN
10	AJ	85	LEU
11	AK	88	GLY
12	AL	46	LYS
12	AL	71	PRO
12	AL	87	GLY
12	AL	89	ARG
12	AL	121	GLY
13	AM	4	ILE
13	AM	5	ALA
13	AM	7	VAL
13	AM	55	ARG
13	AM	114	ARG
14	AN	14	PRO
16	AP	34	GLU
18	AR	41	LYS
19	AS	14	HIS
19	AS	25	LYS
19	AS	26	GLY
19	AS	62	ILE
19	AS	63	THR
19	AS	73	GLU
20	AT	49	ALA
20	AT	62	LEU
20	AT	69	GLY
24	AY	10	LYS
24	AY	39	ILE
24	AY	112	GLN
24	AY	114	VAL
24	AY	183	MET
24	AY	196	ILE
24	AY	299	VAL
24	AY	347	GLY
24	AY	371	ALA
24	AY	380	LEU
24	AY	386	GLY
24	AY	399	LEU
24	AY	416	LYS
24	AY	418	LYS
24	AY	471	LYS

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Mol	Chain	Res	Type
24	AY	505	GLY
24	AY	657	THR
24	AY	678	GLU
25	B0	20	ARG
26	B1	69	LYS
26	B1	84	GLY
27	B2	21	LEU
27	B2	26	ARG
27	B2	49	LYS
28	B3	29	ARG
29	B4	5	ILE
29	B4	9	LEU
29	B4	20	ASN
29	B4	44	THR
29	B4	48	ARG
29	B4	51	ASP
30	B5	35	GLU
30	B5	36	CYS
30	B5	38	ALA
30	B5	58	LEU
30	B5	59	GLU
31	B6	16	CYS
31	B6	19	ARG
31	B6	23	THR
31	B6	28	ARG
31	B6	43	CYS
32	B7	17	GLY
33	B8	34	TRP
33	B8	37	SER
33	B8	40	GLU
34	B9	11	CYS
34	B9	12	ASP
37	BC	12	LEU
37	BC	30	VAL
37	BC	38	PHE
38	BD	3	VAL
38	BD	12	SER
38	BD	32	SER
38	BD	36	PRO
38	BD	42	GLY
38	BD	125	ILE
38	BD	197	GLY

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Mol	Chain	Res	Type
38	BD	198	ASN
38	BD	234	GLY
38	BD	260	ARG
38	BD	267	SER
38	BD	268	ARG
39	BE	2	LYS
39	BE	46	ALA
39	BE	53	PRO
39	BE	57	LYS
39	BE	66	HIS
39	BE	69	LYS
39	BE	71	GLY
39	BE	72	VAL
39	BE	118	LYS
39	BE	134	ILE
39	BE	144	ARG
39	BE	186	GLY
40	BF	5	ALA
40	BF	10	PRO
40	BF	84	VAL
40	BF	127	GLU
40	BF	169	ASN
40	BF	181	LEU
40	BF	206	ILE
40	BF	207	GLY
41	BG	14	GLU
41	BG	75	LYS
41	BG	81	LYS
41	BG	82	LEU
41	BG	166	ASP
42	BH	21	PRO
42	BH	42	ARG
42	BH	69	ARG
42	BH	138	LYS
42	BH	174	GLY
42	BH	176	ALA
44	BK	10	LEU
44	BK	42	ASN
44	BK	48	MET
44	BK	62	ASP
44	BK	82	ALA
44	BK	87	GLY

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Mol	Chain	Res	Type
46	BN	77	GLY
46	BN	125	GLY
46	BN	129	PRO
47	BO	5	GLN
47	BO	29	ASN
47	BO	89	ASN
47	BO	100	GLY
48	BP	34	GLY
48	BP	98	GLU
49	BQ	52	VAL
49	BQ	62	GLY
49	BQ	71	ASP
50	BR	45	ARG
50	BR	83	ILE
51	BS	37	ALA
51	BS	57	LYS
51	BS	59	LYS
51	BS	85	VAL
51	BS	94	TYR
51	BS	104	GLY
51	BS	107	GLU
52	BT	11	GLU
52	BT	12	SER
52	BT	58	ASN
52	BT	88	ILE
52	BT	97	ALA
52	BT	133	GLU
53	BU	11	ARG
53	BU	27	LEU
53	BU	32	PHE
53	BU	67	ALA
54	BV	2	PHE
54	BV	26	ASP
54	BV	31	ALA
54	BV	47	VAL
54	BV	53	GLU
54	BV	55	ALA
54	BV	78	LYS
55	BW	6	ILE
55	BW	11	ARG
56	BX	87	GLN
57	BY	17	SER

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Mol	Chain	Res	Type
57	BY	38	ILE
57	BY	39	VAL
57	BY	41	GLY
57	BY	59	GLY
57	BY	81	LYS
57	BY	98	VAL
57	BY	107	ASP
58	BZ	5	LEU
58	BZ	42	VAL
58	BZ	85	HIS
58	BZ	112	ARG
58	BZ	148	ASP
58	BZ	158	PRO
58	BZ	180	VAL
2	CB	18	GLY
2	CB	24	TRP
2	CB	65	GLY
2	CB	83	MET
2	CB	128	GLU
2	CB	151	GLY
2	CB	152	PHE
2	CB	153	ARG
2	CB	165	VAL
2	CB	190	THR
2	CB	216	SER
2	CB	221	LEU
2	CB	224	GLN
2	CB	236	TYR
2	CB	238	LEU
3	CC	26	LYS
3	CC	96	GLY
3	CC	129	ALA
3	CC	131	ARG
3	CC	135	LYS
3	CC	139	GLN
4	CD	5	ILE
4	CD	31	CYS
4	CD	69	GLY
4	CD	156	GLU
4	CD	179	GLU
5	CE	8	GLU
6	CF	30	LEU

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Mol	Chain	Res	Type
6	CF	34	GLY
6	CF	43	LEU
7	CG	41	ARG
7	CG	80	VAL
8	CH	2	LEU
9	CI	34	ASN
10	CJ	19	SER
10	CJ	61	GLU
10	CJ	84	GLN
10	CJ	85	LEU
11	CK	88	GLY
12	CL	46	LYS
12	CL	71	PRO
12	CL	72	GLY
12	CL	87	GLY
12	CL	89	ARG
12	CL	121	GLY
13	CM	4	ILE
13	CM	5	ALA
13	CM	7	VAL
13	CM	55	ARG
13	CM	114	ARG
13	CM	121	LYS
16	CP	34	GLU
16	CP	76	GLN
17	CQ	95	TYR
18	CR	41	LYS
19	CS	14	HIS
19	CS	25	LYS
19	CS	26	GLY
19	CS	62	ILE
19	CS	63	THR
19	CS	73	GLU
20	CT	49	ALA
20	CT	62	LEU
20	CT	69	GLY
24	CY	34	TYR
24	CY	86	GLY
24	CY	112	GLN
24	CY	127	LYS
24	CY	129	LYS
24	CY	143	GLY

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Mol	Chain	Res	Type
24	CY	144	ALA
24	CY	172	ASP
24	CY	203	GLU
24	CY	211	GLU
24	CY	300	GLU
24	CY	366	VAL
24	CY	416	LYS
24	CY	505	GLY
24	CY	531	GLY
24	CY	537	GLU
24	CY	547	GLU
24	CY	551	GLN
24	CY	595	GLN
24	CY	664	GLN
24	CY	673	PHE
24	CY	681	LYS
25	D0	20	ARG
26	D1	22	GLY
26	D1	30	VAL
26	D1	83	GLU
26	D1	84	GLY
26	D1	85	LEU
26	D1	94	LEU
26	D1	95	LEU
27	D2	5	GLU
27	D2	49	LYS
28	D3	29	ARG
29	D4	3	GLU
29	D4	5	ILE
29	D4	9	LEU
29	D4	20	ASN
29	D4	44	THR
29	D4	48	ARG
29	D4	51	ASP
30	D5	35	GLU
30	D5	36	CYS
30	D5	38	ALA
30	D5	58	LEU
30	D5	59	GLU
31	D6	16	CYS
31	D6	19	ARG
31	D6	23	THR

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Mol	Chain	Res	Type
31	D6	28	ARG
32	D7	17	GLY
33	D8	34	TRP
33	D8	37	SER
33	D8	40	GLU
34	D9	11	CYS
34	D9	12	ASP
37	DC	12	LEU
37	DC	30	VAL
37	DC	38	PHE
38	DD	3	VAL
38	DD	12	SER
38	DD	30	GLU
38	DD	32	SER
38	DD	36	PRO
38	DD	41	GLY
38	DD	42	GLY
38	DD	125	ILE
38	DD	197	GLY
38	DD	198	ASN
38	DD	236	GLY
38	DD	267	SER
38	DD	268	ARG
39	DE	2	LYS
39	DE	46	ALA
39	DE	53	PRO
39	DE	57	LYS
39	DE	66	HIS
39	DE	69	LYS
39	DE	71	GLY
39	DE	72	VAL
39	DE	118	LYS
39	DE	129	HIS
39	DE	134	ILE
39	DE	144	ARG
39	DE	186	GLY
40	DF	10	PRO
40	DF	82	ILE
40	DF	84	VAL
40	DF	127	GLU
40	DF	169	ASN
40	DF	181	LEU

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Mol	Chain	Res	Type
40	DF	206	ILE
41	DG	3	LEU
41	DG	76	SER
41	DG	104	GLU
41	DG	124	SER
41	DG	181	ARG
42	DH	21	PRO
42	DH	42	ARG
42	DH	69	ARG
42	DH	138	LYS
44	DK	10	LEU
44	DK	42	ASN
44	DK	48	MET
44	DK	62	ASP
44	DK	82	ALA
44	DK	87	GLY
46	DN	57	ALA
46	DN	77	GLY
46	DN	125	GLY
46	DN	129	PRO
47	DO	5	GLN
47	DO	29	ASN
47	DO	54	GLU
47	DO	89	ASN
47	DO	120	GLU
48	DP	34	GLY
48	DP	98	GLU
49	DQ	52	VAL
49	DQ	62	GLY
49	DQ	71	ASP
50	DR	45	ARG
51	DS	37	ALA
51	DS	59	LYS
51	DS	85	VAL
51	DS	94	TYR
51	DS	104	GLY
51	DS	107	GLU
52	DT	12	SER
52	DT	41	ARG
52	DT	88	ILE
52	DT	133	GLU
53	DU	11	ARG

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Mol	Chain	Res	Type
53	DU	27	LEU
53	DU	32	PHE
53	DU	67	ALA
54	DV	2	PHE
54	DV	26	ASP
54	DV	31	ALA
54	DV	47	VAL
54	DV	53	GLU
54	DV	55	ALA
55	DW	6	ILE
55	DW	11	ARG
56	DX	87	GLN
57	DY	17	SER
57	DY	38	ILE
57	DY	39	VAL
57	DY	41	GLY
57	DY	59	GLY
57	DY	81	LYS
57	DY	92	ASN
57	DY	98	VAL
57	DY	107	ASP
58	DZ	17	ALA
58	DZ	18	LEU
58	DZ	37	VAL
58	DZ	40	ASP
58	DZ	142	SER
58	DZ	148	ASP
58	DZ	159	PRO
2	AB	78	GLN
2	AB	79	ASP
2	AB	236	TYR
3	AC	4	LYS
3	AC	168	ALA
4	AD	31	CYS
4	AD	40	PRO
5	AE	140	ARG
5	AE	154	GLY
7	AG	14	PRO
7	AG	41	ARG
7	AG	62	PHE
9	AI	11	LYS
9	AI	44	VAL

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Mol	Chain	Res	Type
9	AI	95	LYS
12	AL	47	LYS
12	AL	51	ALA
12	AL	72	GLY
12	AL	92	ASP
13	AM	11	ARG
13	AM	121	LYS
14	AN	16	PHE
15	AO	14	GLU
15	AO	77	ARG
16	AP	13	HIS
16	AP	76	GLN
17	AQ	95	TYR
20	AT	97	ALA
24	AY	25	LYS
24	AY	34	TYR
24	AY	42	ILE
24	AY	89	ASP
24	AY	120	THR
24	AY	144	ALA
24	AY	148	LEU
24	AY	283	PRO
24	AY	393	ASP
24	AY	458	HIS
24	AY	469	GLU
24	AY	532	GLY
24	AY	535	PRO
24	AY	636	PRO
24	AY	680	PRO
26	B1	95	LEU
27	B2	43	GLN
27	B2	58	ALA
27	B2	68	ARG
28	B3	32	GLN
30	B5	37	LYS
33	B8	35	GLN
33	B8	57	ARG
37	BC	17	PRO
37	BC	127	LYS
38	BD	28	GLU
38	BD	41	GLY
38	BD	74	GLY

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Mol	Chain	Res	Type
38	BD	129	ASN
38	BD	134	ARG
38	BD	236	GLY
38	BD	242	ARG
39	BE	83	ASP
39	BE	86	PRO
39	BE	117	MET
39	BE	129	HIS
40	BF	3	GLU
40	BF	82	ILE
40	BF	108	LYS
40	BF	115	ALA
40	BF	122	LYS
40	BF	168	ARG
40	BF	195	ASP
41	BG	22	ARG
41	BG	43	LEU
41	BG	116	ASP
41	BG	163	ALA
42	BH	18	GLU
42	BH	47	GLU
42	BH	85	LYS
42	BH	98	LEU
42	BH	126	PRO
42	BH	158	HIS
42	BH	165	ALA
42	BH	170	ARG
42	BH	171	LEU
46	BN	40	PRO
46	BN	59	LYS
46	BN	110	GLY
46	BN	136	GLU
47	BO	120	GLU
48	BP	43	GLY
48	BP	49	ARG
48	BP	123	LEU
50	BR	12	ARG
51	BS	71	ARG
51	BS	90	GLY
51	BS	99	LYS
52	BT	3	ARG
52	BT	41	ARG

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Mol	Chain	Res	Type
52	BT	103	ARG
53	BU	83	LEU
53	BU	114	LYS
54	BV	3	ALA
54	BV	50	PRO
55	BW	18	ARG
56	BX	19	ALA
56	BX	22	ALA
56	BX	91	ALA
57	BY	46	LYS
57	BY	92	ASN
58	BZ	30	ASN
58	BZ	83	PRO
58	BZ	122	ARG
58	BZ	128	VAL
58	BZ	166	SER
58	BZ	170	THR
2	CB	78	GLN
2	CB	79	ASP
3	CC	4	LYS
3	CC	15	THR
3	CC	168	ALA
4	CD	40	PRO
5	CE	154	GLY
6	CF	29	ALA
7	CG	14	PRO
7	CG	62	PHE
9	CI	11	LYS
9	CI	44	VAL
9	CI	85	LEU
9	CI	95	LYS
10	CJ	83	GLU
12	CL	47	LYS
12	CL	51	ALA
12	CL	92	ASP
12	CL	116	SER
13	CM	11	ARG
14	CN	14	PRO
14	CN	16	PHE
15	CO	14	GLU
15	CO	77	ARG
16	CP	13	HIS

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Mol	Chain	Res	Type
19	CS	5	LEU
20	CT	97	ALA
24	CY	87	HIS
24	CY	91	THR
24	CY	123	ARG
24	CY	192	LEU
24	CY	239	GLU
24	CY	303	PRO
24	CY	380	LEU
24	CY	400	GLU
24	CY	421	GLN
24	CY	458	HIS
24	CY	502	GLY
24	CY	504	ARG
24	CY	519	ARG
24	CY	620	VAL
24	CY	680	PRO
27	D2	4	SER
27	D2	41	ILE
27	D2	68	ARG
27	D2	71	ASN
28	D3	32	GLN
30	D5	37	LYS
31	D6	43	CYS
33	D8	35	GLN
33	D8	57	ARG
37	DC	17	PRO
37	DC	82	GLU
37	DC	127	LYS
38	DD	28	GLU
38	DD	74	GLY
38	DD	129	ASN
38	DD	134	ARG
38	DD	234	GLY
38	DD	242	ARG
38	DD	260	ARG
39	DE	83	ASP
39	DE	86	PRO
40	DF	3	GLU
40	DF	5	ALA
40	DF	108	LYS
40	DF	115	ALA

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Mol	Chain	Res	Type
40	DF	126	VAL
40	DF	168	ARG
40	DF	195	ASP
40	DF	207	GLY
41	DG	21	ARG
41	DG	115	ARG
41	DG	117	PHE
41	DG	169	ALA
42	DH	18	GLU
42	DH	47	GLU
42	DH	85	LYS
42	DH	98	LEU
42	DH	126	PRO
42	DH	158	HIS
42	DH	165	ALA
42	DH	170	ARG
42	DH	171	LEU
42	DH	174	GLY
46	DN	40	PRO
46	DN	59	LYS
46	DN	110	GLY
46	DN	136	GLU
47	DO	100	GLY
48	DP	43	GLY
48	DP	49	ARG
48	DP	123	LEU
50	DR	12	ARG
50	DR	83	ILE
51	DS	71	ARG
51	DS	90	GLY
51	DS	99	LYS
52	DT	11	GLU
52	DT	58	ASN
53	DU	66	ASN
53	DU	83	LEU
53	DU	110	VAL
53	DU	114	LYS
54	DV	3	ALA
54	DV	50	PRO
54	DV	78	LYS
55	DW	18	ARG
56	DX	6	ASP

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Mol	Chain	Res	Type
56	DX	19	ALA
56	DX	22	ALA
56	DX	91	ALA
57	DY	46	LYS
57	DY	75	ILE
58	DZ	49	ARG
58	DZ	81	ARG
58	DZ	108	PRO
58	DZ	168	GLU
2	AB	29	ALA
2	AB	63	MET
2	AB	64	ARG
2	AB	97	TRP
2	AB	130	ARG
3	AC	15	THR
3	AC	44	GLU
3	AC	63	ASN
3	AC	65	ALA
4	AD	71	SER
5	AE	37	ARG
5	AE	136	MET
5	AE	138	ALA
6	AF	29	ALA
10	AJ	23	ILE
10	AJ	32	ALA
12	AL	19	ARG
12	AL	116	SER
13	AM	36	LYS
13	AM	113	PRO
15	AO	26	GLU
15	AO	80	ALA
15	AO	84	LYS
17	AQ	89	LEU
19	AS	5	LEU
19	AS	42	PRO
19	AS	50	ALA
20	AT	85	MET
20	AT	96	GLY
20	AT	98	PRO
21	AU	25	LYS
24	AY	230	LYS
24	AY	406	GLU

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Mol	Chain	Res	Type
24	AY	444	PRO
24	AY	457	LEU
24	AY	502	GLY
24	AY	506	GLN
24	AY	549	ALA
26	B1	54	ALA
27	B2	51	ARG
27	B2	70	GLN
31	B6	41	PRO
33	B8	3	LYS
34	B9	30	PRO
37	BC	82	GLU
37	BC	168	LYS
37	BC	227	PRO
39	BE	17	ASP
39	BE	64	LYS
39	BE	70	ALA
39	BE	82	ARG
40	BF	62	ARG
40	BF	126	VAL
40	BF	134	GLY
40	BF	180	GLY
41	BG	30	GLU
41	BG	103	LEU
41	BG	126	ASP
44	BK	116	ASN
48	BP	89	ALA
48	BP	106	LEU
48	BP	107	LYS
48	BP	108	LYS
48	BP	119	GLU
49	BQ	139	GLU
50	BR	31	HIS
50	BR	61	HIS
50	BR	86	ARG
51	BS	15	ARG
51	BS	89	ARG
51	BS	105	ALA
52	BT	26	ASP
53	BU	66	ASN
53	BU	110	VAL
55	BW	111	HIS

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Mol	Chain	Res	Type
56	BX	6	ASP
57	BY	67	LEU
57	BY	75	ILE
58	BZ	71	VAL
58	BZ	159	PRO
58	BZ	165	VAL
2	CB	29	ALA
2	CB	63	MET
2	CB	64	ARG
2	CB	97	TRP
2	CB	130	ARG
2	CB	212	GLN
3	CC	65	ALA
4	CD	149	ALA
5	CE	37	ARG
5	CE	136	MET
5	CE	138	ALA
5	CE	140	ARG
7	CG	131	LYS
10	CJ	23	ILE
10	CJ	30	SER
10	CJ	32	ALA
13	CM	36	LYS
13	CM	113	PRO
15	CO	25	THR
15	CO	26	GLU
15	CO	80	ALA
15	CO	84	LYS
16	CP	54	GLU
18	CR	87	ARG
19	CS	30	LEU
19	CS	42	PRO
19	CS	50	ALA
20	CT	34	LYS
20	CT	78	ALA
20	CT	96	GLY
20	CT	98	PRO
21	CU	25	LYS
24	CY	88	VAL
24	CY	137	ASN
24	CY	174	PHE
24	CY	227	ILE

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Mol	Chain	Res	Type
24	CY	371	ALA
24	CY	419	ALA
24	CY	427	ALA
24	CY	470	PHE
24	CY	559	PRO
25	D0	42	GLY
26	D1	24	ALA
27	D2	18	PRO
28	D3	38	GLU
31	D6	41	PRO
33	D8	3	LYS
33	D8	61	LEU
37	DC	168	LYS
37	DC	227	PRO
39	DE	17	ASP
39	DE	45	THR
39	DE	64	LYS
39	DE	70	ALA
39	DE	117	MET
40	DF	90	PHE
40	DF	122	LYS
40	DF	134	GLY
41	DG	97	ASP
41	DG	140	ILE
42	DH	81	GLU
44	DK	116	ASN
48	DP	89	ALA
48	DP	106	LEU
48	DP	107	LYS
49	DQ	139	GLU
50	DR	31	HIS
50	DR	61	HIS
51	DS	15	ARG
51	DS	89	ARG
51	DS	105	ALA
52	DT	3	ARG
52	DT	9	LEU
52	DT	103	ARG
55	DW	99	ARG
57	DY	67	LEU
58	DZ	41	LEU
58	DZ	120	ILE

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Mol	Chain	Res	Type
58	DZ	165	VAL
58	DZ	169	GLU
2	AB	9	GLU
2	AB	84	GLU
2	AB	212	GLN
3	AC	35	GLU
3	AC	179	ARG
4	AD	149	ALA
4	AD	159	ARG
4	AD	186	LEU
6	AF	21	LEU
8	AH	121	ASP
9	AI	94	ALA
9	AI	106	ALA
10	AJ	30	SER
10	AJ	91	PRO
11	AK	34	ASP
13	AM	10	PRO
15	AO	25	THR
16	AP	54	GLU
18	AR	87	ARG
19	AS	30	LEU
19	AS	54	GLY
19	AS	59	PRO
20	AT	34	LYS
20	AT	44	ALA
20	AT	78	ALA
20	AT	104	LEU
21	AU	6	ARG
24	AY	22	ASP
24	AY	65	ILE
24	AY	123	ARG
24	AY	153	MET
24	AY	303	PRO
24	AY	361	ASN
24	AY	415	PRO
24	AY	577	SER
24	AY	598	ASP
24	AY	617	MET
24	AY	652	MET
24	AY	688	ILE
26	B1	30	VAL

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Mol	Chain	Res	Type
26	B1	31	GLY
27	B2	14	ARG
28	B3	38	GLU
29	B4	2	LYS
29	B4	40	HIS
30	B5	4	HIS
33	B8	48	PHE
33	B8	61	LEU
38	BD	10	THR
38	BD	273	ARG
39	BE	45	THR
39	BE	187	ALA
40	BF	90	PHE
41	BG	106	LEU
42	BH	14	GLY
42	BH	81	GLU
42	BH	93	GLY
46	BN	127	ASP
46	BN	134	ARG
48	BP	23	PRO
48	BP	33	ARG
48	BP	83	VAL
50	BR	42	LYS
50	BR	102	GLU
52	BT	9	LEU
52	BT	17	THR
53	BU	46	ALA
54	BV	22	VAL
55	BW	93	ALA
55	BW	99	ARG
56	BX	11	PRO
56	BX	13	LEU
57	BY	37	VAL
58	BZ	46	LYS
2	CB	9	GLU
2	CB	84	GLU
3	CC	35	GLU
3	CC	44	GLU
4	CD	159	ARG
4	CD	186	LEU
5	CE	118	ILE
6	CF	21	LEU

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Mol	Chain	Res	Type
7	CG	42	ILE
8	CH	121	ASP
9	CI	94	ALA
10	CJ	91	PRO
11	CK	34	ASP
11	CK	57	THR
11	CK	95	ILE
12	CL	19	ARG
13	CM	10	PRO
17	CQ	25	ARG
19	CS	54	GLY
19	CS	59	PRO
20	CT	85	MET
20	CT	104	LEU
21	CU	6	ARG
24	CY	36	THR
24	CY	205	TYR
24	CY	206	LEU
24	CY	262	SER
24	CY	283	PRO
24	CY	315	LYS
24	CY	405	PRO
26	D1	63	ALA
29	D4	2	LYS
29	D4	40	HIS
30	D5	4	HIS
33	D8	48	PHE
34	D9	30	PRO
38	DD	10	THR
38	DD	273	ARG
39	DE	187	ALA
40	DF	62	ARG
40	DF	180	GLY
41	DG	12	TYR
41	DG	42	GLY
42	DH	111	HIS
46	DN	127	ASP
46	DN	134	ARG
48	DP	23	PRO
48	DP	33	ARG
48	DP	83	VAL
48	DP	108	LYS

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Mol	Chain	Res	Type
48	DP	119	GLU
50	DR	86	ARG
50	DR	102	GLU
52	DT	17	THR
52	DT	26	ASP
54	DV	22	VAL
55	DW	111	HIS
56	DX	11	PRO
56	DX	13	LEU
57	DY	37	VAL
58	DZ	110	GLY
2	AB	157	ARG
3	AC	165	THR
5	AE	146	ALA
9	AI	127	LYS
11	AK	57	THR
11	AK	95	ILE
13	AM	21	TYR
13	AM	106	ASN
17	AQ	25	ARG
24	AY	24	GLY
24	AY	75	LYS
24	AY	408	VAL
24	AY	591	LYS
25	B0	13	GLY
25	B0	42	GLY
27	B2	44	LEU
28	B3	45	GLY
31	B6	36	LEU
39	BE	52	LEU
39	BE	73	GLU
39	BE	130	GLY
40	BF	14	PRO
40	BF	66	PRO
42	BH	48	GLY
42	BH	92	ILE
42	BH	111	HIS
44	BK	21	PRO
44	BK	73	PRO
46	BN	65	LYS
46	BN	81	GLY
47	BO	18	LYS

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Mol	Chain	Res	Type
48	BP	141	ALA
52	BT	81	PRO
55	BW	14	PRO
55	BW	25	ARG
2	CB	157	ARG
2	CB	204	ASN
3	CC	160	ALA
3	CC	165	THR
4	CD	71	SER
4	CD	88	VAL
8	CH	135	CYS
12	CL	106	ASP
13	CM	116	THR
20	CT	44	ALA
21	CU	9	ARG
24	CY	408	VAL
24	CY	671	MET
25	D0	13	GLY
26	D1	52	ARG
26	D1	73	LEU
39	DE	73	GLU
39	DE	130	GLY
40	DF	2	LYS
40	DF	14	PRO
40	DF	66	PRO
40	DF	85	GLY
41	DG	22	ARG
42	DH	14	GLY
42	DH	45	VAL
42	DH	48	GLY
42	DH	92	ILE
42	DH	93	GLY
44	DK	21	PRO
44	DK	73	PRO
46	DN	65	LYS
46	DN	81	GLY
47	DO	18	LYS
48	DP	67	MET
48	DP	141	ALA
49	DQ	30	GLY
50	DR	42	LYS
52	DT	127	ALA

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Mol	Chain	Res	Type
53	DU	46	ALA
55	DW	14	PRO
55	DW	25	ARG
58	DZ	12	GLY
58	DZ	65	GLN
58	DZ	121	HIS
4	AD	88	VAL
5	AE	118	ILE
7	AG	42	ILE
9	AI	74	ILE
15	AO	75	PRO
26	B1	87	PRO
29	B4	28	LYS
40	BF	177	ALA
42	BH	45	VAL
42	BH	76	VAL
46	BN	5	VAL
49	BQ	30	GLY
52	BT	92	GLY
54	BV	54	GLY
55	BW	59	VAL
57	BY	3	VAL
9	CI	74	ILE
16	CP	2	VAL
19	CS	51	VAL
24	CY	479	PRO
24	CY	670	VAL
28	D3	45	GLY
29	D4	28	LYS
34	D9	21	GLY
39	DE	52	LEU
42	DH	76	VAL
52	DT	81	PRO
55	DW	59	VAL
2	AB	26	PRO
2	AB	131	PRO
2	AB	232	PRO
6	AF	51	PRO
7	AG	9	VAL
9	AI	80	GLY
16	AP	2	VAL
19	AS	51	VAL

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Mol	Chain	Res	Type
26	B1	36	GLY
37	BC	160	GLY
38	BD	228	PRO
40	BF	25	PRO
40	BF	85	GLY
42	BH	39	PRO
48	BP	146	VAL
53	BU	90	VAL
54	BV	36	PRO
57	BY	31	LEU
58	BZ	134	PRO
2	CB	232	PRO
6	CF	51	PRO
7	CG	9	VAL
7	CG	82	GLY
15	CO	75	PRO
24	CY	554	PRO
37	DC	160	GLY
40	DF	25	PRO
40	DF	177	ALA
46	DN	5	VAL
48	DP	146	VAL
53	DU	90	VAL
54	DV	36	PRO
54	DV	54	GLY
57	DY	3	VAL
57	DY	31	LEU
2	AB	230	VAL
7	AG	82	GLY
16	AP	62	VAL
20	AT	100	ILE
27	B2	41	ILE
37	BC	68	GLY
41	BG	129	GLY
51	BS	22	GLY
57	BY	30	VAL
58	BZ	133	ILE
2	CB	131	PRO
2	CB	230	VAL
9	CI	80	GLY
16	CP	62	VAL
20	CT	100	ILE

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Mol	Chain	Res	Type
24	CY	394	ALA
24	CY	600	VAL
38	DD	228	PRO
39	DE	34	VAL
42	DH	39	PRO
51	DS	22	GLY
52	DT	92	GLY
53	DU	9	VAL
2	AB	127	ILE
2	AB	194	PRO
4	AD	92	VAL
4	AD	180	GLY
19	AS	9	VAL
26	B1	86	SER
37	BC	136	GLY
39	BE	14	ILE
39	BE	34	VAL
41	BG	24	GLY
42	BH	107	VAL
52	BT	15	VAL
54	BV	51	VAL
2	CB	127	ILE
2	CB	194	PRO
4	CD	92	VAL
14	CN	55	GLY
15	CO	19	PRO
24	CY	532	GLY
37	DC	68	GLY
37	DC	101	ILE
37	DC	107	GLY
37	DC	136	GLY
39	DE	75	VAL
51	DS	91	PRO
57	DY	30	VAL
58	DZ	166	SER
24	AY	333	GLY
37	BC	107	GLY
39	BE	75	VAL
42	BH	52	VAL
51	BS	91	PRO
57	BY	27	VAL
2	CB	26	PRO

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Mol	Chain	Res	Type
24	CY	293	THR
30	D5	50	GLY
38	DD	11	PRO
39	DE	14	ILE
41	DG	20	ILE
42	DH	52	VAL
42	DH	107	VAL
52	DT	15	VAL
54	DV	51	VAL
58	DZ	14	LYS
58	DZ	134	PRO
38	BD	245	PRO
38	DD	245	PRO

5.3.2 Protein sidechains ⓘ

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	AB	202/220 (92%)	179 (89%)	23 (11%)	8	41
2	CB	202/220 (92%)	179 (89%)	23 (11%)	8	41
3	AC	160/188 (85%)	142 (89%)	18 (11%)	9	42
3	CC	160/188 (85%)	142 (89%)	18 (11%)	9	42
4	AD	180/181 (99%)	160 (89%)	20 (11%)	9	43
4	CD	180/181 (99%)	160 (89%)	20 (11%)	9	43
5	AE	115/123 (94%)	100 (87%)	15 (13%)	6	34
5	CE	115/123 (94%)	100 (87%)	15 (13%)	6	34
6	AF	90/90 (100%)	83 (92%)	7 (8%)	18	65
6	CF	90/90 (100%)	83 (92%)	7 (8%)	18	65
7	AG	126/127 (99%)	117 (93%)	9 (7%)	21	69
7	CG	126/127 (99%)	117 (93%)	9 (7%)	21	69
8	AH	119/119 (100%)	110 (92%)	9 (8%)	19	66
8	CH	119/119 (100%)	112 (94%)	7 (6%)	28	76
9	AI	98/99 (99%)	90 (92%)	8 (8%)	17	62

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
9	CI	98/99 (99%)	90 (92%)	8 (8%)	17	62
10	AJ	88/92 (96%)	77 (88%)	11 (12%)	7	36
10	CJ	88/92 (96%)	77 (88%)	11 (12%)	7	36
11	AK	90/99 (91%)	84 (93%)	6 (7%)	23	72
11	CK	90/99 (91%)	84 (93%)	6 (7%)	23	72
12	AL	104/109 (95%)	94 (90%)	10 (10%)	12	52
12	CL	104/109 (95%)	93 (89%)	11 (11%)	10	46
13	AM	99/101 (98%)	91 (92%)	8 (8%)	17	63
13	CM	99/101 (98%)	91 (92%)	8 (8%)	17	63
14	AN	49/50 (98%)	43 (88%)	6 (12%)	7	37
14	CN	49/50 (98%)	43 (88%)	6 (12%)	7	37
15	AO	79/80 (99%)	71 (90%)	8 (10%)	11	49
15	CO	79/80 (99%)	71 (90%)	8 (10%)	11	49
16	AP	72/74 (97%)	67 (93%)	5 (7%)	22	70
16	CP	72/74 (97%)	67 (93%)	5 (7%)	22	70
17	AQ	94/97 (97%)	87 (93%)	7 (7%)	20	67
17	CQ	94/97 (97%)	87 (93%)	7 (7%)	20	67
18	AR	61/77 (79%)	59 (97%)	2 (3%)	50	89
18	CR	61/77 (79%)	59 (97%)	2 (3%)	50	89
19	AS	69/80 (86%)	59 (86%)	10 (14%)	5	28
19	CS	69/80 (86%)	59 (86%)	10 (14%)	5	28
20	AT	76/82 (93%)	69 (91%)	7 (9%)	13	55
20	CT	76/82 (93%)	69 (91%)	7 (9%)	13	55
21	AU	19/22 (86%)	19 (100%)	0	100	100
21	CU	19/22 (86%)	19 (100%)	0	100	100
24	AY	563/582 (97%)	489 (87%)	74 (13%)	6	33
24	CY	563/582 (97%)	495 (88%)	68 (12%)	7	38
25	B0	66/67 (98%)	57 (86%)	9 (14%)	5	32
25	D0	66/67 (98%)	57 (86%)	9 (14%)	5	32
26	B1	78/83 (94%)	65 (83%)	13 (17%)	3	21
26	D1	78/83 (94%)	70 (90%)	8 (10%)	10	48

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
27	B2	66/67 (98%)	59 (89%)	7 (11%)	10	46
27	D2	66/67 (98%)	58 (88%)	8 (12%)	7	38
28	B3	51/52 (98%)	47 (92%)	4 (8%)	18	65
28	D3	51/52 (98%)	47 (92%)	4 (8%)	18	65
29	B4	51/63 (81%)	38 (74%)	13 (26%)	1	7
29	D4	51/63 (81%)	37 (72%)	14 (28%)	0	5
30	B5	51/52 (98%)	45 (88%)	6 (12%)	8	39
30	D5	51/52 (98%)	45 (88%)	6 (12%)	8	39
31	B6	49/52 (94%)	39 (80%)	10 (20%)	2	11
31	D6	49/52 (94%)	38 (78%)	11 (22%)	1	9
32	B7	41/42 (98%)	36 (88%)	5 (12%)	7	37
32	D7	41/42 (98%)	36 (88%)	5 (12%)	7	37
33	B8	53/55 (96%)	44 (83%)	9 (17%)	3	20
33	D8	53/55 (96%)	43 (81%)	10 (19%)	2	14
34	B9	34/34 (100%)	30 (88%)	4 (12%)	8	39
34	D9	34/34 (100%)	29 (85%)	5 (15%)	4	28
37	BC	180/181 (99%)	170 (94%)	10 (6%)	30	78
37	DC	180/181 (99%)	169 (94%)	11 (6%)	26	75
38	BD	217/218 (100%)	177 (82%)	40 (18%)	2	15
38	DD	217/218 (100%)	178 (82%)	39 (18%)	2	16
39	BE	165/166 (99%)	139 (84%)	26 (16%)	4	24
39	DE	165/166 (99%)	140 (85%)	25 (15%)	4	26
40	BF	165/166 (99%)	153 (93%)	12 (7%)	20	68
40	DF	165/166 (99%)	153 (93%)	12 (7%)	20	68
41	BG	155/156 (99%)	131 (84%)	24 (16%)	4	25
41	DG	155/156 (99%)	126 (81%)	29 (19%)	2	15
42	BH	136/148 (92%)	126 (93%)	10 (7%)	20	67
42	DH	136/148 (92%)	126 (93%)	10 (7%)	20	67
44	BK	104/111 (94%)	89 (86%)	15 (14%)	5	28
44	DK	104/111 (94%)	90 (86%)	14 (14%)	6	32
46	BN	117/119 (98%)	103 (88%)	14 (12%)	7	38

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
46	DN	117/119 (98%)	102 (87%)	15 (13%)	6	35
47	BO	100/100 (100%)	92 (92%)	8 (8%)	17	63
47	DO	100/100 (100%)	92 (92%)	8 (8%)	17	63
48	BP	112/116 (97%)	91 (81%)	21 (19%)	2	15
48	DP	112/116 (97%)	91 (81%)	21 (19%)	2	15
49	BQ	111/111 (100%)	95 (86%)	16 (14%)	5	28
49	DQ	111/111 (100%)	97 (87%)	14 (13%)	7	35
50	BR	100/101 (99%)	89 (89%)	11 (11%)	9	44
50	DR	100/101 (99%)	88 (88%)	12 (12%)	7	38
51	BS	77/88 (88%)	68 (88%)	9 (12%)	8	40
51	DS	77/88 (88%)	68 (88%)	9 (12%)	8	40
52	BT	120/127 (94%)	97 (81%)	23 (19%)	2	13
52	DT	120/127 (94%)	97 (81%)	23 (19%)	2	13
53	BU	92/94 (98%)	83 (90%)	9 (10%)	12	51
53	DU	92/94 (98%)	83 (90%)	9 (10%)	12	51
54	BV	82/82 (100%)	71 (87%)	11 (13%)	6	32
54	DV	82/82 (100%)	71 (87%)	11 (13%)	6	32
55	BW	91/92 (99%)	84 (92%)	7 (8%)	18	65
55	DW	91/92 (99%)	84 (92%)	7 (8%)	18	65
56	BX	74/78 (95%)	64 (86%)	10 (14%)	6	32
56	DX	74/78 (95%)	64 (86%)	10 (14%)	6	32
57	BY	87/91 (96%)	75 (86%)	12 (14%)	5	31
57	DY	87/91 (96%)	75 (86%)	12 (14%)	5	31
58	BZ	162/179 (90%)	134 (83%)	28 (17%)	3	19
58	DZ	162/179 (90%)	144 (89%)	18 (11%)	9	43
All	All	11080/11566 (96%)	9776 (88%)	1304 (12%)	8	39

All (1304) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	AB	15	VAL
2	AB	16	HIS
2	AB	17	PHE

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Mol	Chain	Res	Type
2	AB	24	TRP
2	AB	36	ARG
2	AB	43	ASP
2	AB	44	LEU
2	AB	67	THR
2	AB	79	ASP
2	AB	101	MET
2	AB	111	ARG
2	AB	129	GLU
2	AB	137	ARG
2	AB	157	ARG
2	AB	162	ILE
2	AB	172	ILE
2	AB	178	ARG
2	AB	192	SER
2	AB	200	ILE
2	AB	204	ASN
2	AB	212	GLN
2	AB	220	ASP
2	AB	221	LEU
3	AC	5	ILE
3	AC	16	ARG
3	AC	29	TYR
3	AC	34	LEU
3	AC	56	ASP
3	AC	72	LYS
3	AC	79	ARG
3	AC	85	ARG
3	AC	95	THR
3	AC	98	ASN
3	AC	125	GLU
3	AC	127	ARG
3	AC	152	ILE
3	AC	156	ARG
3	AC	165	THR
3	AC	167	TRP
3	AC	178	LEU
3	AC	179	ARG
4	AD	3	ARG
4	AD	9	CYS
4	AD	12	CYS
4	AD	15	GLU

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Mol	Chain	Res	Type
4	AD	22	LYS
4	AD	36	ARG
4	AD	49	ARG
4	AD	53	ASP
4	AD	57	ARG
4	AD	70	ILE
4	AD	73	ARG
4	AD	78	LEU
4	AD	96	LEU
4	AD	114	ARG
4	AD	127	THR
4	AD	131	ARG
4	AD	132	ARG
4	AD	135	LEU
4	AD	162	LEU
4	AD	168	ARG
5	AE	12	LEU
5	AE	18	ARG
5	AE	20	GLN
5	AE	31	LEU
5	AE	41	VAL
5	AE	47	LYS
5	AE	56	GLN
5	AE	64	ARG
5	AE	72	GLN
5	AE	75	THR
5	AE	76	ILE
5	AE	79	GLU
5	AE	101	ILE
5	AE	117	ASP
5	AE	144	THR
6	AF	15	ASP
6	AF	32	ASN
6	AF	43	LEU
6	AF	47	ARG
6	AF	69	GLU
6	AF	86	ARG
6	AF	98	LEU
7	AG	27	ILE
7	AG	57	GLU
7	AG	66	VAL
7	AG	79	ARG

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Mol	Chain	Res	Type
7	AG	104	LEU
7	AG	113	GLU
7	AG	124	LEU
7	AG	137	LYS
7	AG	151	TYR
8	AH	1	MET
8	AH	25	ASP
8	AH	54	ASP
8	AH	83	ILE
8	AH	91	ARG
8	AH	92	ARG
8	AH	98	LYS
8	AH	102	ARG
8	AH	118	VAL
9	AI	4	TYR
9	AI	10	ARG
9	AI	29	ASN
9	AI	59	PHE
9	AI	95	LYS
9	AI	114	TYR
9	AI	121	ARG
9	AI	128	ARG
10	AJ	22	LYS
10	AJ	40	LEU
10	AJ	43	ARG
10	AJ	50	ILE
10	AJ	55	LYS
10	AJ	59	SER
10	AJ	62	HIS
10	AJ	63	PHE
10	AJ	74	ILE
10	AJ	76	ASN
10	AJ	96	ILE
11	AK	29	ILE
11	AK	87	THR
11	AK	91	ARG
11	AK	92	GLU
11	AK	117	ASN
11	AK	124	LYS
12	AL	7	ILE
12	AL	20	LYS
12	AL	38	THR

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Mol	Chain	Res	Type
12	AL	41	ARG
12	AL	47	LYS
12	AL	53	ARG
12	AL	70	ILE
12	AL	81	SER
12	AL	85	ILE
12	AL	113	ARG
13	AM	64	TRP
13	AM	66	LEU
13	AM	108	ARG
13	AM	113	PRO
13	AM	115	LYS
13	AM	120	LYS
13	AM	121	LYS
13	AM	124	PRO
14	AN	14	PRO
14	AN	16	PHE
14	AN	29	ARG
14	AN	41	ARG
14	AN	42	ILE
14	AN	44	LEU
15	AO	10	LYS
15	AO	39	LEU
15	AO	41	GLU
15	AO	57	LEU
15	AO	65	ARG
15	AO	82	ILE
15	AO	85	LEU
15	AO	88	ARG
16	AP	1	MET
16	AP	2	VAL
16	AP	6	LEU
16	AP	11	SER
16	AP	32	TYR
17	AQ	7	THR
17	AQ	9	VAL
17	AQ	23	VAL
17	AQ	35	VAL
17	AQ	48	GLU
17	AQ	52	LYS
17	AQ	78	GLU
18	AR	29	PHE

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Mol	Chain	Res	Type
18	AR	31	LEU
19	AS	5	LEU
19	AS	6	LYS
19	AS	7	LYS
19	AS	15	LEU
19	AS	19	VAL
19	AS	29	ARG
19	AS	37	ARG
19	AS	44	MET
19	AS	66	MET
19	AS	77	THR
20	AT	13	LEU
20	AT	24	LEU
20	AT	26	ASN
20	AT	36	LEU
20	AT	74	LYS
20	AT	84	LEU
20	AT	93	GLU
24	AY	20	HIS
24	AY	21	ILE
24	AY	40	HIS
24	AY	65	ILE
24	AY	83	ASP
24	AY	85	PRO
24	AY	88	VAL
24	AY	89	ASP
24	AY	92	ILE
24	AY	96	ARG
24	AY	100	VAL
24	AY	101	LEU
24	AY	102	ASP
24	AY	111	SER
24	AY	117	GLN
24	AY	122	TRP
24	AY	124	GLN
24	AY	130	VAL
24	AY	132	ARG
24	AY	137	ASN
24	AY	152	THR
24	AY	157	LEU
24	AY	170	ARG
24	AY	191	ASP

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Mol	Chain	Res	Type
24	AY	192	LEU
24	AY	240	GLU
24	AY	242	LEU
24	AY	252	ASP
24	AY	255	ILE
24	AY	260	LEU
24	AY	270	GLN
24	AY	289	ILE
24	AY	298	VAL
24	AY	312	LEU
24	AY	319	ASP
24	AY	326	THR
24	AY	337	SER
24	AY	343	ASN
24	AY	357	ARG
24	AY	378	VAL
24	AY	381	LYS
24	AY	388	THR
24	AY	399	LEU
24	AY	409	ILE
24	AY	410	ASP
24	AY	420	ASP
24	AY	421	GLN
24	AY	426	GLN
24	AY	428	LEU
24	AY	438	PHE
24	AY	440	VAL
24	AY	468	ARG
24	AY	476	VAL
24	AY	481	VAL
24	AY	487	ILE
24	AY	501	THR
24	AY	504	ARG
24	AY	509	HIS
24	AY	512	ILE
24	AY	515	GLU
24	AY	525	PHE
24	AY	527	ASN
24	AY	567	LEU
24	AY	572	TYR
24	AY	574	GLU
24	AY	595	GLN

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Mol	Chain	Res	Type
24	AY	598	ASP
24	AY	614	GLU
24	AY	630	GLN
24	AY	631	ILE
24	AY	634	MET
24	AY	644	ARG
24	AY	657	THR
24	AY	685	GLU
25	B0	5	LYS
25	B0	11	ARG
25	B0	20	ARG
25	B0	27	GLU
25	B0	41	ARG
25	B0	60	PHE
25	B0	75	LEU
25	B0	78	TYR
25	B0	84	LEU
26	B1	18	ILE
26	B1	35	THR
26	B1	45	ASN
26	B1	46	LEU
26	B1	56	GLN
26	B1	65	SER
26	B1	72	GLU
26	B1	73	LEU
26	B1	75	GLU
26	B1	80	LEU
26	B1	83	GLU
26	B1	94	LEU
26	B1	95	LEU
27	B2	3	LEU
27	B2	30	ARG
27	B2	32	LEU
27	B2	44	LEU
27	B2	52	ASP
27	B2	59	ARG
27	B2	64	LEU
28	B3	8	LEU
28	B3	28	LEU
28	B3	38	GLU
28	B3	48	GLU
29	B4	1	MET

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Mol	Chain	Res	Type
29	B4	5	ILE
29	B4	8	LYS
29	B4	9	LEU
29	B4	13	ARG
29	B4	20	ASN
29	B4	32	TYR
29	B4	40	HIS
29	B4	42	PHE
29	B4	43	TYR
29	B4	49	PHE
29	B4	51	ASP
29	B4	55	ARG
30	B5	3	LYS
30	B5	4	HIS
30	B5	23	HIS
30	B5	36	CYS
30	B5	55	ARG
30	B5	58	LEU
31	B6	6	ARG
31	B6	9	LEU
31	B6	10	LEU
31	B6	11	LEU
31	B6	15	GLU
31	B6	23	THR
31	B6	30	THR
31	B6	31	PRO
31	B6	39	TYR
31	B6	42	TRP
32	B7	1	MET
32	B7	4	THR
32	B7	8	ASN
32	B7	41	ARG
32	B7	48	LYS
33	B8	6	THR
33	B8	30	ARG
33	B8	32	LEU
33	B8	33	ASN
33	B8	34	TRP
33	B8	44	LYS
33	B8	48	PHE
33	B8	49	VAL
33	B8	61	LEU

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Mol	Chain	Res	Type
34	B9	1	MET
34	B9	10	ILE
34	B9	11	CYS
34	B9	29	ASN
37	BC	18	ASN
37	BC	53	ARG
37	BC	54	ARG
37	BC	74	ARG
37	BC	149	ASN
37	BC	184	GLU
37	BC	185	LYS
37	BC	189	ASN
37	BC	191	ARG
37	BC	212	SER
38	BD	10	THR
38	BD	23	GLU
38	BD	24	ILE
38	BD	26	LYS
38	BD	35	LYS
38	BD	37	LEU
38	BD	43	ARG
38	BD	61	LEU
38	BD	63	ARG
38	BD	65	ILE
38	BD	87	ASN
38	BD	89	SER
38	BD	92	ILE
38	BD	94	LEU
38	BD	95	LEU
38	BD	96	HIS
38	BD	104	TYR
38	BD	106	ILE
38	BD	111	LEU
38	BD	117	VAL
38	BD	131	LEU
38	BD	157	ARG
38	BD	166	GLN
38	BD	183	ARG
38	BD	190	TYR
38	BD	192	THR
38	BD	202	LYS
38	BD	211	ARG

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Mol	Chain	Res	Type
38	BD	212	SER
38	BD	221	VAL
38	BD	227	ASN
38	BD	228	PRO
38	BD	244	ARG
38	BD	246	PRO
38	BD	257	LEU
38	BD	260	ARG
38	BD	263	ARG
38	BD	270	ILE
38	BD	273	ARG
38	BD	275	LYS
39	BE	4	ILE
39	BE	9	VAL
39	BE	18	ASP
39	BE	24	THR
39	BE	36	ARG
39	BE	49	LEU
39	BE	54	GLN
39	BE	55	ASN
39	BE	61	ARG
39	BE	67	PHE
39	BE	69	LYS
39	BE	78	LEU
39	BE	79	ARG
39	BE	94	GLU
39	BE	95	ILE
39	BE	118	LYS
39	BE	119	ARG
39	BE	121	ASN
39	BE	134	ILE
39	BE	144	ARG
39	BE	178	GLU
39	BE	184	VAL
39	BE	192	ASN
39	BE	197	ILE
39	BE	202	LYS
39	BE	203	LYS
40	BF	19	GLU
40	BF	28	ILE
40	BF	41	LEU
40	BF	64	ILE

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Mol	Chain	Res	Type
40	BF	66	PRO
40	BF	83	PHE
40	BF	125	LEU
40	BF	149	ASP
40	BF	160	ASN
40	BF	165	ARG
40	BF	175	THR
40	BF	179	GLU
41	BG	4	ASP
41	BG	5	VAL
41	BG	16	ARG
41	BG	22	ARG
41	BG	33	ARG
41	BG	34	LEU
41	BG	36	LYS
41	BG	60	LEU
41	BG	71	THR
41	BG	80	PHE
41	BG	83	ARG
41	BG	91	ARG
41	BG	98	ARG
41	BG	118	ARG
41	BG	128	ARG
41	BG	133	LEU
41	BG	135	LEU
41	BG	145	THR
41	BG	147	ASP
41	BG	148	MET
41	BG	152	LEU
41	BG	159	VAL
41	BG	164	GLU
41	BG	166	ASP
42	BH	46	GLU
42	BH	49	VAL
42	BH	53	GLU
42	BH	54	ARG
42	BH	83	TYR
42	BH	89	ILE
42	BH	104	GLU
42	BH	105	LEU
42	BH	143	GLN
42	BH	158	HIS

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Mol	Chain	Res	Type
44	BK	2	LYS
44	BK	3	LYS
44	BK	5	VAL
44	BK	29	GLN
44	BK	30	HIS
44	BK	34	ILE
44	BK	38	VAL
44	BK	47	ASN
44	BK	65	PHE
44	BK	70	LYS
44	BK	77	LEU
44	BK	86	LYS
44	BK	95	LYS
44	BK	105	LEU
44	BK	117	THR
46	BN	1	MET
46	BN	4	TYR
46	BN	23	LEU
46	BN	26	LEU
46	BN	39	ARG
46	BN	41	ASP
46	BN	45	ASN
46	BN	48	MET
46	BN	56	ASN
46	BN	63	THR
46	BN	65	LYS
46	BN	96	GLU
46	BN	109	LYS
46	BN	123	TYR
47	BO	23	ARG
47	BO	38	VAL
47	BO	40	VAL
47	BO	48	PRO
47	BO	49	ARG
47	BO	80	ASP
47	BO	87	ILE
47	BO	117	LEU
48	BP	7	ARG
48	BP	13	ASN
48	BP	16	ARG
48	BP	18	ARG
48	BP	39	LYS

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Mol	Chain	Res	Type
48	BP	41	ARG
48	BP	42	SER
48	BP	51	PHE
48	BP	57	THR
48	BP	60	MET
48	BP	61	ARG
48	BP	62	LEU
48	BP	64	LYS
48	BP	70	GLN
48	BP	81	GLN
48	BP	85	LEU
48	BP	91	PHE
48	BP	108	LYS
48	BP	114	ILE
48	BP	123	LEU
48	BP	149	GLU
49	BQ	14	ARG
49	BQ	17	LEU
49	BQ	45	GLN
49	BQ	46	GLN
49	BQ	55	VAL
49	BQ	56	ARG
49	BQ	58	PHE
49	BQ	65	PHE
49	BQ	67	ARG
49	BQ	76	LYS
49	BQ	79	LEU
49	BQ	81	VAL
49	BQ	106	VAL
49	BQ	134	ARG
49	BQ	135	ASP
49	BQ	139	GLU
50	BR	8	ARG
50	BR	27	SER
50	BR	30	THR
50	BR	33	ARG
50	BR	54	LEU
50	BR	71	GLN
50	BR	75	LEU
50	BR	94	TYR
50	BR	97	VAL
50	BR	99	LYS

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Mol	Chain	Res	Type
50	BR	100	LEU
51	BS	11	LYS
51	BS	12	PHE
51	BS	36	TYR
51	BS	63	THR
51	BS	67	ARG
51	BS	92	TYR
51	BS	97	ARG
51	BS	101	LEU
51	BS	106	ARG
52	BT	6	LEU
52	BT	13	ARG
52	BT	16	ARG
52	BT	24	PRO
52	BT	32	TYR
52	BT	38	ASN
52	BT	49	VAL
52	BT	53	ARG
52	BT	58	ASN
52	BT	62	THR
52	BT	65	LYS
52	BT	78	LEU
52	BT	82	LEU
52	BT	90	GLN
52	BT	93	ARG
52	BT	96	ARG
52	BT	108	ARG
52	BT	115	ARG
52	BT	124	ASP
52	BT	125	ARG
52	BT	128	GLU
52	BT	129	ARG
52	BT	132	LYS
53	BU	20	LEU
53	BU	49	HIS
53	BU	74	LEU
53	BU	76	TYR
53	BU	79	PHE
53	BU	92	ARG
53	BU	101	ARG
53	BU	108	GLU
53	BU	112	ARG

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Mol	Chain	Res	Type
54	BV	1	MET
54	BV	18	LEU
54	BV	19	LYS
54	BV	21	ARG
54	BV	39	LEU
54	BV	40	LEU
54	BV	82	ARG
54	BV	89	GLN
54	BV	95	LEU
54	BV	98	GLU
54	BV	99	ILE
55	BW	11	ARG
55	BW	40	ASN
55	BW	52	GLU
55	BW	75	TYR
55	BW	88	ARG
55	BW	98	LYS
55	BW	107	LEU
56	BX	3	THR
56	BX	11	PRO
56	BX	27	THR
56	BX	28	PHE
56	BX	51	VAL
56	BX	56	THR
56	BX	57	LEU
56	BX	68	ARG
56	BX	75	ASP
56	BX	76	ARG
57	BY	2	ARG
57	BY	7	VAL
57	BY	9	LYS
57	BY	29	GLU
57	BY	32	PRO
57	BY	51	VAL
57	BY	53	PRO
57	BY	55	TYR
57	BY	77	PRO
57	BY	79	CYS
57	BY	90	LEU
57	BY	102	CYS
58	BZ	5	LEU
58	BZ	6	LYS

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Mol	Chain	Res	Type
58	BZ	8	TYR
58	BZ	28	MET
58	BZ	30	ASN
58	BZ	31	ARG
58	BZ	34	ASN
58	BZ	55	HIS
58	BZ	63	ASP
58	BZ	68	PRO
58	BZ	72	ARG
58	BZ	78	LYS
58	BZ	83	PRO
58	BZ	87	ASP
58	BZ	92	SER
58	BZ	107	THR
58	BZ	112	ARG
58	BZ	123	ASP
58	BZ	127	LYS
58	BZ	140	ASP
58	BZ	146	ILE
58	BZ	150	LEU
58	BZ	154	ASP
58	BZ	158	PRO
58	BZ	163	LEU
58	BZ	166	SER
58	BZ	171	ILE
58	BZ	186	GLU
2	CB	15	VAL
2	CB	16	HIS
2	CB	17	PHE
2	CB	24	TRP
2	CB	36	ARG
2	CB	43	ASP
2	CB	44	LEU
2	CB	67	THR
2	CB	79	ASP
2	CB	101	MET
2	CB	111	ARG
2	CB	129	GLU
2	CB	137	ARG
2	CB	157	ARG
2	CB	162	ILE
2	CB	172	ILE

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Mol	Chain	Res	Type
2	CB	178	ARG
2	CB	192	SER
2	CB	200	ILE
2	CB	204	ASN
2	CB	212	GLN
2	CB	220	ASP
2	CB	221	LEU
3	CC	5	ILE
3	CC	16	ARG
3	CC	29	TYR
3	CC	34	LEU
3	CC	56	ASP
3	CC	72	LYS
3	CC	79	ARG
3	CC	85	ARG
3	CC	95	THR
3	CC	98	ASN
3	CC	125	GLU
3	CC	127	ARG
3	CC	152	ILE
3	CC	156	ARG
3	CC	165	THR
3	CC	167	TRP
3	CC	178	LEU
3	CC	179	ARG
4	CD	3	ARG
4	CD	9	CYS
4	CD	12	CYS
4	CD	15	GLU
4	CD	22	LYS
4	CD	36	ARG
4	CD	49	ARG
4	CD	53	ASP
4	CD	57	ARG
4	CD	70	ILE
4	CD	73	ARG
4	CD	78	LEU
4	CD	96	LEU
4	CD	114	ARG
4	CD	127	THR
4	CD	131	ARG
4	CD	132	ARG

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Mol	Chain	Res	Type
4	CD	135	LEU
4	CD	162	LEU
4	CD	168	ARG
5	CE	12	LEU
5	CE	18	ARG
5	CE	20	GLN
5	CE	31	LEU
5	CE	41	VAL
5	CE	47	LYS
5	CE	56	GLN
5	CE	64	ARG
5	CE	72	GLN
5	CE	75	THR
5	CE	76	ILE
5	CE	79	GLU
5	CE	101	ILE
5	CE	117	ASP
5	CE	144	THR
6	CF	15	ASP
6	CF	32	ASN
6	CF	43	LEU
6	CF	47	ARG
6	CF	69	GLU
6	CF	86	ARG
6	CF	98	LEU
7	CG	27	ILE
7	CG	57	GLU
7	CG	66	VAL
7	CG	79	ARG
7	CG	104	LEU
7	CG	113	GLU
7	CG	124	LEU
7	CG	137	LYS
7	CG	151	TYR
8	CH	1	MET
8	CH	25	ASP
8	CH	54	ASP
8	CH	91	ARG
8	CH	98	LYS
8	CH	102	ARG
8	CH	118	VAL
9	CI	4	TYR

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Mol	Chain	Res	Type
9	CI	10	ARG
9	CI	29	ASN
9	CI	59	PHE
9	CI	95	LYS
9	CI	114	TYR
9	CI	121	ARG
9	CI	128	ARG
10	CJ	22	LYS
10	CJ	40	LEU
10	CJ	43	ARG
10	CJ	50	ILE
10	CJ	55	LYS
10	CJ	59	SER
10	CJ	62	HIS
10	CJ	63	PHE
10	CJ	74	ILE
10	CJ	76	ASN
10	CJ	96	ILE
11	CK	29	ILE
11	CK	87	THR
11	CK	91	ARG
11	CK	92	GLU
11	CK	117	ASN
11	CK	124	LYS
12	CL	7	ILE
12	CL	20	LYS
12	CL	38	THR
12	CL	41	ARG
12	CL	47	LYS
12	CL	53	ARG
12	CL	70	ILE
12	CL	81	SER
12	CL	85	ILE
12	CL	98	TYR
12	CL	113	ARG
13	CM	64	TRP
13	CM	66	LEU
13	CM	108	ARG
13	CM	113	PRO
13	CM	115	LYS
13	CM	120	LYS
13	CM	121	LYS

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Mol	Chain	Res	Type
13	CM	124	PRO
14	CN	14	PRO
14	CN	16	PHE
14	CN	29	ARG
14	CN	41	ARG
14	CN	42	ILE
14	CN	44	LEU
15	CO	10	LYS
15	CO	39	LEU
15	CO	41	GLU
15	CO	57	LEU
15	CO	65	ARG
15	CO	82	ILE
15	CO	85	LEU
15	CO	88	ARG
16	CP	1	MET
16	CP	2	VAL
16	CP	6	LEU
16	CP	11	SER
16	CP	32	TYR
17	CQ	7	THR
17	CQ	9	VAL
17	CQ	23	VAL
17	CQ	35	VAL
17	CQ	48	GLU
17	CQ	52	LYS
17	CQ	78	GLU
18	CR	29	PHE
18	CR	31	LEU
19	CS	5	LEU
19	CS	6	LYS
19	CS	7	LYS
19	CS	15	LEU
19	CS	19	VAL
19	CS	29	ARG
19	CS	37	ARG
19	CS	44	MET
19	CS	66	MET
19	CS	77	THR
20	CT	13	LEU
20	CT	24	LEU
20	CT	26	ASN

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Mol	Chain	Res	Type
20	CT	36	LEU
20	CT	74	LYS
20	CT	84	LEU
20	CT	93	GLU
24	CY	6	GLU
24	CY	13	ARG
24	CY	14	ASN
24	CY	21	ILE
24	CY	34	TYR
24	CY	65	ILE
24	CY	66	THR
24	CY	79	ILE
24	CY	81	ILE
24	CY	88	VAL
24	CY	90	PHE
24	CY	92	ILE
24	CY	95	GLU
24	CY	100	VAL
24	CY	101	LEU
24	CY	102	ASP
24	CY	117	GLN
24	CY	128	TYR
24	CY	130	VAL
24	CY	132	ARG
24	CY	137	ASN
24	CY	157	LEU
24	CY	175	SER
24	CY	191	ASP
24	CY	192	LEU
24	CY	216	LEU
24	CY	225	GLU
24	CY	232	LEU
24	CY	255	ILE
24	CY	260	LEU
24	CY	278	ASP
24	CY	312	LEU
24	CY	326	THR
24	CY	343	ASN
24	CY	357	ARG
24	CY	381	LYS
24	CY	388	THR
24	CY	396	ARG

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Mol	Chain	Res	Type
24	CY	397	VAL
24	CY	399	LEU
24	CY	415	PRO
24	CY	420	ASP
24	CY	421	GLN
24	CY	422	GLU
24	CY	428	LEU
24	CY	438	PHE
24	CY	459	LEU
24	CY	476	VAL
24	CY	487	ILE
24	CY	492	ASP
24	CY	499	ARG
24	CY	504	ARG
24	CY	507	TYR
24	CY	512	ILE
24	CY	527	ASN
24	CY	548	GLU
24	CY	572	TYR
24	CY	575	VAL
24	CY	580	MET
24	CY	598	ASP
24	CY	614	GLU
24	CY	634	MET
24	CY	641	GLN
24	CY	644	ARG
24	CY	647	VAL
24	CY	661	SER
24	CY	674	ASP
24	CY	683	VAL
25	D0	5	LYS
25	D0	11	ARG
25	D0	20	ARG
25	D0	27	GLU
25	D0	41	ARG
25	D0	60	PHE
25	D0	75	LEU
25	D0	78	TYR
25	D0	84	LEU
26	D1	20	ARG
26	D1	39	LYS
26	D1	45	ASN

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Mol	Chain	Res	Type
26	D1	46	LEU
26	D1	50	ARG
26	D1	61	ARG
26	D1	80	LEU
26	D1	83	GLU
27	D2	20	GLU
27	D2	37	PHE
27	D2	53	LEU
27	D2	56	GLN
27	D2	57	ILE
27	D2	59	ARG
27	D2	60	LEU
27	D2	63	VAL
28	D3	8	LEU
28	D3	28	LEU
28	D3	38	GLU
28	D3	48	GLU
29	D4	1	MET
29	D4	5	ILE
29	D4	8	LYS
29	D4	9	LEU
29	D4	13	ARG
29	D4	20	ASN
29	D4	32	TYR
29	D4	39	CYS
29	D4	40	HIS
29	D4	42	PHE
29	D4	43	TYR
29	D4	49	PHE
29	D4	51	ASP
29	D4	55	ARG
30	D5	3	LYS
30	D5	4	HIS
30	D5	23	HIS
30	D5	36	CYS
30	D5	55	ARG
30	D5	58	LEU
31	D6	6	ARG
31	D6	9	LEU
31	D6	10	LEU
31	D6	11	LEU
31	D6	15	GLU

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Mol	Chain	Res	Type
31	D6	23	THR
31	D6	28	ARG
31	D6	30	THR
31	D6	31	PRO
31	D6	39	TYR
31	D6	42	TRP
32	D7	1	MET
32	D7	4	THR
32	D7	8	ASN
32	D7	41	ARG
32	D7	48	LYS
33	D8	6	THR
33	D8	30	ARG
33	D8	32	LEU
33	D8	33	ASN
33	D8	34	TRP
33	D8	44	LYS
33	D8	48	PHE
33	D8	49	VAL
33	D8	61	LEU
33	D8	64	TYR
34	D9	1	MET
34	D9	2	LYS
34	D9	10	ILE
34	D9	11	CYS
34	D9	29	ASN
37	DC	18	ASN
37	DC	53	ARG
37	DC	54	ARG
37	DC	74	ARG
37	DC	121	MET
37	DC	149	ASN
37	DC	184	GLU
37	DC	185	LYS
37	DC	189	ASN
37	DC	191	ARG
37	DC	212	SER
38	DD	10	THR
38	DD	23	GLU
38	DD	24	ILE
38	DD	26	LYS
38	DD	35	LYS

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Mol	Chain	Res	Type
38	DD	37	LEU
38	DD	43	ARG
38	DD	61	LEU
38	DD	63	ARG
38	DD	65	ILE
38	DD	87	ASN
38	DD	89	SER
38	DD	92	ILE
38	DD	94	LEU
38	DD	95	LEU
38	DD	96	HIS
38	DD	104	TYR
38	DD	106	ILE
38	DD	111	LEU
38	DD	117	VAL
38	DD	131	LEU
38	DD	157	ARG
38	DD	166	GLN
38	DD	183	ARG
38	DD	190	TYR
38	DD	192	THR
38	DD	202	LYS
38	DD	212	SER
38	DD	221	VAL
38	DD	227	ASN
38	DD	228	PRO
38	DD	244	ARG
38	DD	246	PRO
38	DD	257	LEU
38	DD	260	ARG
38	DD	270	ILE
38	DD	271	ILE
38	DD	273	ARG
38	DD	275	LYS
39	DE	4	ILE
39	DE	9	VAL
39	DE	18	ASP
39	DE	36	ARG
39	DE	49	LEU
39	DE	55	ASN
39	DE	61	ARG
39	DE	67	PHE

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Mol	Chain	Res	Type
39	DE	69	LYS
39	DE	78	LEU
39	DE	79	ARG
39	DE	94	GLU
39	DE	95	ILE
39	DE	113	PHE
39	DE	118	LYS
39	DE	119	ARG
39	DE	121	ASN
39	DE	134	ILE
39	DE	144	ARG
39	DE	178	GLU
39	DE	184	VAL
39	DE	192	ASN
39	DE	197	ILE
39	DE	202	LYS
39	DE	203	LYS
40	DF	19	GLU
40	DF	28	ILE
40	DF	41	LEU
40	DF	64	ILE
40	DF	66	PRO
40	DF	83	PHE
40	DF	125	LEU
40	DF	149	ASP
40	DF	160	ASN
40	DF	165	ARG
40	DF	175	THR
40	DF	179	GLU
41	DG	4	ASP
41	DG	22	ARG
41	DG	26	GLN
41	DG	33	ARG
41	DG	34	LEU
41	DG	37	VAL
41	DG	38	VAL
41	DG	40	ASN
41	DG	43	LEU
41	DG	45	GLU
41	DG	47	LYS
41	DG	49	ASP
41	DG	51	ARG

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Mol	Chain	Res	Type
41	DG	62	LEU
41	DG	67	LYS
41	DG	80	PHE
41	DG	82	LEU
41	DG	83	ARG
41	DG	98	ARG
41	DG	118	ARG
41	DG	120	LEU
41	DG	123	ASN
41	DG	135	LEU
41	DG	143	GLU
41	DG	145	THR
41	DG	148	MET
41	DG	159	VAL
41	DG	166	ASP
41	DG	167	GLU
42	DH	46	GLU
42	DH	49	VAL
42	DH	53	GLU
42	DH	54	ARG
42	DH	83	TYR
42	DH	89	ILE
42	DH	104	GLU
42	DH	105	LEU
42	DH	143	GLN
42	DH	158	HIS
44	DK	2	LYS
44	DK	3	LYS
44	DK	29	GLN
44	DK	30	HIS
44	DK	34	ILE
44	DK	38	VAL
44	DK	47	ASN
44	DK	65	PHE
44	DK	70	LYS
44	DK	77	LEU
44	DK	86	LYS
44	DK	95	LYS
44	DK	105	LEU
44	DK	117	THR
46	DN	1	MET
46	DN	4	TYR

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Mol	Chain	Res	Type
46	DN	23	LEU
46	DN	26	LEU
46	DN	39	ARG
46	DN	41	ASP
46	DN	45	ASN
46	DN	48	MET
46	DN	56	ASN
46	DN	63	THR
46	DN	65	LYS
46	DN	78	TYR
46	DN	96	GLU
46	DN	109	LYS
46	DN	123	TYR
47	DO	23	ARG
47	DO	38	VAL
47	DO	40	VAL
47	DO	48	PRO
47	DO	49	ARG
47	DO	80	ASP
47	DO	87	ILE
47	DO	117	LEU
48	DP	7	ARG
48	DP	13	ASN
48	DP	16	ARG
48	DP	18	ARG
48	DP	39	LYS
48	DP	41	ARG
48	DP	42	SER
48	DP	51	PHE
48	DP	57	THR
48	DP	60	MET
48	DP	61	ARG
48	DP	62	LEU
48	DP	64	LYS
48	DP	70	GLN
48	DP	81	GLN
48	DP	85	LEU
48	DP	91	PHE
48	DP	108	LYS
48	DP	114	ILE
48	DP	123	LEU
48	DP	149	GLU

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Mol	Chain	Res	Type
49	DQ	14	ARG
49	DQ	45	GLN
49	DQ	46	GLN
49	DQ	55	VAL
49	DQ	56	ARG
49	DQ	58	PHE
49	DQ	65	PHE
49	DQ	67	ARG
49	DQ	76	LYS
49	DQ	79	LEU
49	DQ	81	VAL
49	DQ	134	ARG
49	DQ	135	ASP
49	DQ	139	GLU
50	DR	8	ARG
50	DR	27	SER
50	DR	30	THR
50	DR	33	ARG
50	DR	54	LEU
50	DR	65	LEU
50	DR	71	GLN
50	DR	75	LEU
50	DR	94	TYR
50	DR	97	VAL
50	DR	99	LYS
50	DR	100	LEU
51	DS	11	LYS
51	DS	12	PHE
51	DS	36	TYR
51	DS	63	THR
51	DS	67	ARG
51	DS	92	TYR
51	DS	97	ARG
51	DS	101	LEU
51	DS	106	ARG
52	DT	6	LEU
52	DT	13	ARG
52	DT	16	ARG
52	DT	24	PRO
52	DT	32	TYR
52	DT	38	ASN
52	DT	49	VAL

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Mol	Chain	Res	Type
52	DT	53	ARG
52	DT	58	ASN
52	DT	62	THR
52	DT	65	LYS
52	DT	78	LEU
52	DT	82	LEU
52	DT	90	GLN
52	DT	93	ARG
52	DT	96	ARG
52	DT	108	ARG
52	DT	115	ARG
52	DT	124	ASP
52	DT	125	ARG
52	DT	128	GLU
52	DT	129	ARG
52	DT	132	LYS
53	DU	20	LEU
53	DU	49	HIS
53	DU	74	LEU
53	DU	76	TYR
53	DU	79	PHE
53	DU	92	ARG
53	DU	101	ARG
53	DU	108	GLU
53	DU	112	ARG
54	DV	1	MET
54	DV	18	LEU
54	DV	19	LYS
54	DV	21	ARG
54	DV	39	LEU
54	DV	40	LEU
54	DV	82	ARG
54	DV	89	GLN
54	DV	95	LEU
54	DV	98	GLU
54	DV	99	ILE
55	DW	11	ARG
55	DW	40	ASN
55	DW	52	GLU
55	DW	75	TYR
55	DW	88	ARG
55	DW	98	LYS

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Mol	Chain	Res	Type
55	DW	107	LEU
56	DX	3	THR
56	DX	11	PRO
56	DX	27	THR
56	DX	28	PHE
56	DX	51	VAL
56	DX	56	THR
56	DX	57	LEU
56	DX	68	ARG
56	DX	75	ASP
56	DX	76	ARG
57	DY	2	ARG
57	DY	7	VAL
57	DY	9	LYS
57	DY	29	GLU
57	DY	32	PRO
57	DY	51	VAL
57	DY	53	PRO
57	DY	55	TYR
57	DY	77	PRO
57	DY	79	CYS
57	DY	90	LEU
57	DY	102	CYS
58	DZ	5	LEU
58	DZ	6	LYS
58	DZ	8	TYR
58	DZ	20	ARG
58	DZ	24	LEU
58	DZ	31	ARG
58	DZ	72	ARG
58	DZ	81	ARG
58	DZ	87	ASP
58	DZ	92	SER
58	DZ	112	ARG
58	DZ	123	ASP
58	DZ	140	ASP
58	DZ	150	LEU
58	DZ	154	ASP
58	DZ	168	GLU
58	DZ	171	ILE
58	DZ	179	ASP

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (348) such

sidechains are listed below:

Mol	Chain	Res	Type
2	AB	37	ASN
2	AB	40	HIS
2	AB	78	GLN
2	AB	94	ASN
2	AB	110	GLN
2	AB	113	HIS
2	AB	146	GLN
2	AB	204	ASN
3	AC	28	GLN
3	AC	31	HIS
3	AC	37	GLN
3	AC	108	ASN
3	AC	118	GLN
3	AC	170	GLN
3	AC	176	HIS
3	AC	181	ASN
4	AD	62	GLN
4	AD	74	GLN
4	AD	77	ASN
4	AD	129	ASN
5	AE	20	GLN
5	AE	72	GLN
5	AE	73	ASN
6	AF	16	GLN
6	AF	18	GLN
6	AF	27	GLN
6	AF	32	ASN
6	AF	73	ASN
6	AF	100	ASN
7	AG	13	GLN
7	AG	68	ASN
7	AG	84	ASN
7	AG	96	GLN
7	AG	97	GLN
7	AG	106	GLN
8	AH	82	HIS
9	AI	3	GLN
9	AI	58	HIS
9	AI	124	GLN
10	AJ	56	HIS
10	AJ	68	HIS
10	AJ	76	ASN

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Mol	Chain	Res	Type
10	AJ	84	GLN
11	AK	22	HIS
11	AK	117	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
14	AN	49	HIS
15	AO	9	GLN
15	AO	13	GLN
15	AO	37	ASN
15	AO	62	GLN
17	AQ	16	GLN
19	AS	14	HIS
19	AS	47	HIS
20	AT	26	ASN
20	AT	42	GLN
20	AT	45	GLN
20	AT	75	ASN
24	AY	14	ASN
24	AY	124	GLN
24	AY	137	ASN
24	AY	165	GLN
24	AY	208	GLN
24	AY	343	ASN
24	AY	421	GLN
24	AY	458	HIS
24	AY	475	ASN
24	AY	500	GLN
24	AY	527	ASN
24	AY	573	HIS
24	AY	630	GLN
24	AY	641	GLN
25	B0	70	GLN
26	B1	45	ASN
26	B1	56	GLN
27	B2	38	GLN
27	B2	47	ASN
27	B2	56	GLN
28	B3	19	GLN

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Mol	Chain	Res	Type
28	B3	46	ASN
30	B5	22	HIS
30	B5	23	HIS
30	B5	43	HIS
31	B6	20	ASN
31	B6	26	ASN
31	B6	32	ASN
31	B6	49	HIS
32	B7	8	ASN
33	B8	31	HIS
33	B8	33	ASN
33	B8	43	GLN
34	B9	29	ASN
37	BC	58	ASN
37	BC	149	ASN
37	BC	166	ASN
38	BD	58	HIS
38	BD	115	GLN
38	BD	116	GLN
38	BD	126	GLN
38	BD	166	GLN
38	BD	186	HIS
38	BD	198	ASN
38	BD	227	ASN
39	BE	48	GLN
39	BE	54	GLN
39	BE	55	ASN
39	BE	129	HIS
39	BE	143	ASN
39	BE	169	ASN
39	BE	192	ASN
40	BF	8	GLN
40	BF	69	HIS
40	BF	75	HIS
40	BF	133	ASN
40	BF	160	ASN
40	BF	169	ASN
40	BF	204	ASN
41	BG	27	ASN
42	BH	65	HIS
42	BH	147	ASN
42	BH	158	HIS

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Mol	Chain	Res	Type
44	BK	29	GLN
44	BK	47	ASN
44	BK	89	HIS
46	BN	45	ASN
46	BN	56	ASN
46	BN	101	HIS
46	BN	131	GLN
47	BO	5	GLN
47	BO	82	ASN
48	BP	9	ASN
48	BP	13	ASN
48	BP	27	HIS
48	BP	84	ASN
48	BP	128	HIS
49	BQ	12	GLN
49	BQ	13	GLN
49	BQ	45	GLN
50	BR	3	HIS
50	BR	16	HIS
50	BR	23	ASN
50	BR	61	HIS
52	BT	38	ASN
52	BT	43	GLN
52	BT	58	ASN
52	BT	84	GLN
52	BT	90	GLN
53	BU	14	HIS
53	BU	44	ASN
53	BU	49	HIS
53	BU	66	ASN
53	BU	81	HIS
53	BU	94	ASN
53	BU	117	GLN
54	BV	11	GLN
55	BW	61	ASN
55	BW	102	HIS
56	BX	41	ASN
56	BX	55	ASN
56	BX	82	GLN
58	BZ	54	HIS
58	BZ	65	GLN
58	BZ	118	GLN

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Mol	Chain	Res	Type
58	BZ	121	HIS
2	CB	37	ASN
2	CB	40	HIS
2	CB	78	GLN
2	CB	94	ASN
2	CB	110	GLN
2	CB	113	HIS
2	CB	146	GLN
2	CB	204	ASN
3	CC	28	GLN
3	CC	31	HIS
3	CC	37	GLN
3	CC	108	ASN
3	CC	118	GLN
3	CC	170	GLN
3	CC	176	HIS
3	CC	181	ASN
4	CD	62	GLN
4	CD	74	GLN
4	CD	77	ASN
4	CD	129	ASN
5	CE	20	GLN
5	CE	72	GLN
5	CE	73	ASN
6	CF	16	GLN
6	CF	18	GLN
6	CF	27	GLN
6	CF	32	ASN
6	CF	73	ASN
6	CF	100	ASN
7	CG	13	GLN
7	CG	68	ASN
7	CG	84	ASN
7	CG	96	GLN
7	CG	97	GLN
7	CG	106	GLN
8	CH	82	HIS
9	CI	3	GLN
9	CI	58	HIS
9	CI	124	GLN
10	CJ	56	HIS
10	CJ	68	HIS

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Mol	Chain	Res	Type
10	CJ	76	ASN
10	CJ	84	GLN
11	CK	22	HIS
11	CK	117	ASN
12	CL	9	GLN
12	CL	49	ASN
12	CL	75	HIS
13	CM	40	ASN
13	CM	77	ASN
13	CM	101	GLN
14	CN	49	HIS
15	CO	9	GLN
15	CO	13	GLN
15	CO	37	ASN
15	CO	62	GLN
17	CQ	16	GLN
19	CS	14	HIS
19	CS	47	HIS
20	CT	16	HIS
20	CT	26	ASN
20	CT	42	GLN
20	CT	45	GLN
20	CT	75	ASN
24	CY	40	HIS
24	CY	117	GLN
24	CY	137	ASN
24	CY	165	GLN
24	CY	270	GLN
24	CY	343	ASN
24	CY	421	GLN
24	CY	448	GLN
24	CY	458	HIS
24	CY	480	GLN
24	CY	500	GLN
24	CY	527	ASN
24	CY	543	GLN
24	CY	573	HIS
24	CY	625	ASN
24	CY	630	GLN
24	CY	664	GLN
25	D0	12	ASN
25	D0	70	GLN

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Mol	Chain	Res	Type
26	D1	45	ASN
26	D1	56	GLN
27	D2	38	GLN
27	D2	47	ASN
27	D2	65	ASN
28	D3	19	GLN
28	D3	46	ASN
30	D5	43	HIS
31	D6	20	ASN
31	D6	26	ASN
31	D6	32	ASN
31	D6	49	HIS
32	D7	8	ASN
33	D8	31	HIS
33	D8	33	ASN
33	D8	43	GLN
34	D9	29	ASN
37	DC	58	ASN
37	DC	149	ASN
37	DC	166	ASN
38	DD	58	HIS
38	DD	96	HIS
38	DD	115	GLN
38	DD	116	GLN
38	DD	126	GLN
38	DD	166	GLN
38	DD	186	HIS
38	DD	198	ASN
38	DD	227	ASN
38	DD	253	GLN
39	DE	48	GLN
39	DE	54	GLN
39	DE	55	ASN
39	DE	129	HIS
39	DE	143	ASN
39	DE	169	ASN
39	DE	192	ASN
40	DF	8	GLN
40	DF	69	HIS
40	DF	75	HIS
40	DF	133	ASN
40	DF	160	ASN

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Mol	Chain	Res	Type
40	DF	169	ASN
40	DF	204	ASN
41	DG	27	ASN
41	DG	41	GLN
41	DG	58	GLN
42	DH	65	HIS
42	DH	147	ASN
42	DH	158	HIS
44	DK	29	GLN
44	DK	47	ASN
44	DK	89	HIS
46	DN	45	ASN
46	DN	56	ASN
46	DN	101	HIS
46	DN	131	GLN
47	DO	5	GLN
47	DO	82	ASN
48	DP	9	ASN
48	DP	13	ASN
48	DP	27	HIS
48	DP	84	ASN
48	DP	128	HIS
49	DQ	12	GLN
49	DQ	13	GLN
49	DQ	45	GLN
50	DR	3	HIS
50	DR	16	HIS
50	DR	23	ASN
50	DR	61	HIS
50	DR	71	GLN
51	DS	16	ASN
52	DT	38	ASN
52	DT	43	GLN
52	DT	58	ASN
52	DT	84	GLN
52	DT	90	GLN
53	DU	44	ASN
53	DU	49	HIS
53	DU	66	ASN
53	DU	81	HIS
53	DU	94	ASN
53	DU	117	GLN

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Mol	Chain	Res	Type
54	DV	11	GLN
55	DW	61	ASN
55	DW	102	HIS
56	DX	41	ASN
56	DX	55	ASN
56	DX	82	GLN
57	DY	6	HIS
58	DZ	54	HIS
58	DZ	55	HIS
58	DZ	65	GLN
58	DZ	73	GLN
58	DZ	118	GLN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1503/1522 (98%)	270 (17%)	43 (2%)
1	CA	1503/1522 (98%)	266 (17%)	43 (2%)
22	AV	76/77 (98%)	15 (19%)	0
22	AW	76/77 (98%)	25 (32%)	1 (1%)
22	CV	76/77 (98%)	14 (18%)	0
22	CW	76/77 (98%)	19 (25%)	1 (1%)
23	AX	11/25 (44%)	4 (36%)	1 (9%)
23	CX	11/25 (44%)	4 (36%)	1 (9%)
35	BA	2900/2915 (99%)	597 (20%)	71 (2%)
35	DA	2900/2915 (99%)	594 (20%)	71 (2%)
36	BB	118/122 (96%)	25 (21%)	0
36	DB	118/122 (96%)	25 (21%)	0
All	All	9368/9476 (98%)	1858 (19%)	232 (2%)

All (1858) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	9	G
1	AA	31	G
1	AA	32	A
1	AA	33	A
1	AA	39	G
1	AA	47	C
1	AA	48	C
1	AA	51	A

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Mol	Chain	Res	Type
1	AA	60	A
1	AA	61	G
1	AA	62	U
1	AA	81	U
1	AA	88	A
1	AA	89	C
1	AA	90	U
1	AA	91	C
1	AA	97	G
1	AA	98	G
1	AA	101	A
1	AA	104	G
1	AA	116	A
1	AA	120	A
1	AA	121	C
1	AA	129	U
1	AA	129(A)	G
1	AA	131	C
1	AA	144	G
1	AA	146	G
1	AA	147	G
1	AA	149	A
1	AA	160	A
1	AA	163	C
1	AA	181	G
1	AA	182	U
1	AA	189(G)	G
1	AA	189(H)	G
1	AA	195	A
1	AA	197	A
1	AA	198	G
1	AA	202	U
1	AA	203	U
1	AA	204	U
1	AA	216	G
1	AA	243	A
1	AA	244	U
1	AA	247	G
1	AA	251	G
1	AA	266	G
1	AA	267	C
1	AA	268	C

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Mol	Chain	Res	Type
1	AA	281	G
1	AA	289	G
1	AA	316	G
1	AA	321	A
1	AA	328	C
1	AA	329	A
1	AA	332	G
1	AA	344	A
1	AA	345	C
1	AA	346	G
1	AA	350	G
1	AA	352	C
1	AA	353	A
1	AA	354	G
1	AA	367	U
1	AA	372	C
1	AA	397	A
1	AA	398	C
1	AA	412	A
1	AA	413	G
1	AA	414	A
1	AA	422	C
1	AA	428	G
1	AA	429	U
1	AA	430	A
1	AA	435	C
1	AA	437	U
1	AA	439	A
1	AA	444	C
1	AA	452	A
1	AA	460	G
1	AA	461	A
1	AA	471	G
1	AA	481	G
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	527	G

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Mol	Chain	Res	Type
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	553	A
1	AA	559	A
1	AA	560	U
1	AA	561	U
1	AA	562	C
1	AA	572	A
1	AA	573	A
1	AA	575	G
1	AA	576	G
1	AA	577	G
1	AA	588	G
1	AA	596	C
1	AA	631	G
1	AA	632	A
1	AA	650	G
1	AA	653	A
1	AA	665	A
1	AA	682	G
1	AA	683	G
1	AA	686	U
1	AA	687	A
1	AA	688	G
1	AA	704	A
1	AA	721	G
1	AA	722	A
1	AA	723	U
1	AA	724	G
1	AA	728	A
1	AA	731	G
1	AA	744	C
1	AA	748	C
1	AA	755	G
1	AA	777	A
1	AA	793	U
1	AA	794	A
1	AA	813	U

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Mol	Chain	Res	Type
1	AA	816	A
1	AA	817	C
1	AA	828	A
1	AA	839	U
1	AA	840	C
1	AA	841	U
1	AA	848	C
1	AA	858	G
1	AA	859	A
1	AA	867	G
1	AA	874	G
1	AA	895	G
1	AA	907	A
1	AA	914	A
1	AA	921	U
1	AA	927	G
1	AA	934	C
1	AA	935	A
1	AA	951	G
1	AA	960	U
1	AA	961	U
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
1	AA	980	C
1	AA	981	U
1	AA	991	U
1	AA	992	U
1	AA	993	G
1	AA	997	U
1	AA	1003	G
1	AA	1004	A
1	AA	1005	A
1	AA	1010	G
1	AA	1027	C
1	AA	1030	C
1	AA	1030(B)	C
1	AA	1050	G

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Mol	Chain	Res	Type
1	AA	1054	C
1	AA	1064	G
1	AA	1065	U
1	AA	1066	C
1	AA	1068	G
1	AA	1094	G
1	AA	1095	U
1	AA	1101	A
1	AA	1102	A
1	AA	1117	G
1	AA	1124	G
1	AA	1125	U
1	AA	1129	C
1	AA	1130	A
1	AA	1137	C
1	AA	1138	G
1	AA	1139	G
1	AA	1146	A
1	AA	1152	A
1	AA	1154	G
1	AA	1159	U
1	AA	1184	G
1	AA	1187	G
1	AA	1196	U
1	AA	1197	G
1	AA	1199	U
1	AA	1202	G
1	AA	1212	U
1	AA	1214	C
1	AA	1217	C
1	AA	1225	A
1	AA	1226	C
1	AA	1227	A
1	AA	1238	A
1	AA	1240	U
1	AA	1241	G
1	AA	1249	C
1	AA	1256	A
1	AA	1257	U
1	AA	1273	G
1	AA	1280	A
1	AA	1281	U

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Mol	Chain	Res	Type
1	AA	1285	A
1	AA	1286	A
1	AA	1287	A
1	AA	1298	C
1	AA	1299	A
1	AA	1300	G
1	AA	1301	U
1	AA	1302	U
1	AA	1317	C
1	AA	1320	C
1	AA	1322	C
1	AA	1323	G
1	AA	1331	G
1	AA	1335	C
1	AA	1336	C
1	AA	1337	G
1	AA	1338	G
1	AA	1346	A
1	AA	1348	U
1	AA	1354	C
1	AA	1363	C
1	AA	1364	U
1	AA	1365	G
1	AA	1370	G
1	AA	1379	G
1	AA	1394	A
1	AA	1397	C
1	AA	1398	A
1	AA	1404	C
1	AA	1419	G
1	AA	1434	A
1	AA	1442	G
1	AA	1442(A)	G
1	AA	1443	G
1	AA	1447	A
1	AA	1452	C
1	AA	1456	G
1	AA	1490	C
1	AA	1492	A
1	AA	1493	A
1	AA	1494	G
1	AA	1499	A

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Mol	Chain	Res	Type
1	AA	1503	A
1	AA	1504	G
1	AA	1505	G
1	AA	1506	U
1	AA	1507	A
1	AA	1517	G
1	AA	1519	A
1	AA	1520	G
1	AA	1529	G
1	AA	1530	G
22	AV	4	G
22	AV	5	G
22	AV	8	U
22	AV	17	C
22	AV	17(A)	U
22	AV	18	G
22	AV	19	G
22	AV	20	U
22	AV	21	A
22	AV	47	U
22	AV	48	C
22	AV	63	G
22	AV	71	C
22	AV	75	C
22	AV	76	A
22	AW	5	G
22	AW	7	G
22	AW	8	U
22	AW	9	G
22	AW	10	G
22	AW	15	G
22	AW	18	U
22	AW	19	G
22	AW	20	G
22	AW	21	U
22	AW	22	A
22	AW	28	U
22	AW	48	U
22	AW	49	C
22	AW	50	G
22	AW	53	G
22	AW	62	C

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Mol	Chain	Res	Type
22	AW	64	G
22	AW	66	C
22	AW	68	C
22	AW	69	C
22	AW	72	C
22	AW	73	A
22	AW	74	A
22	AW	75	C
23	AX	12	A
23	AX	13	A
23	AX	14	A
23	AX	19	U
35	BA	9	U
35	BA	18	C
35	BA	28	A
35	BA	35	G
35	BA	42	G
35	BA	43	A
35	BA	45	C
35	BA	49	A
35	BA	50	U
35	BA	61	G
35	BA	63	U
35	BA	72	U
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	92	A
35	BA	94	C
35	BA	95	G
35	BA	100	G
35	BA	102	G
35	BA	106	C
35	BA	116	C
35	BA	118	A
35	BA	119	A
35	BA	121	G
35	BA	125	G
35	BA	129	C

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Mol	Chain	Res	Type
35	BA	139(A)	G
35	BA	141	A
35	BA	142(A)	C
35	BA	155	U
35	BA	156	U
35	BA	157	U
35	BA	171	G
35	BA	174	C
35	BA	190	A
35	BA	196	A
35	BA	199	A
35	BA	204	A
35	BA	205	G
35	BA	212	G
35	BA	215	G
35	BA	216	A
35	BA	221	A
35	BA	222	A
35	BA	227	A
35	BA	241	A
35	BA	248	G
35	BA	252	G
35	BA	261	G
35	BA	271(J)	C
35	BA	271(K)	U
35	BA	271(L)	U
35	BA	271(O)	C
35	BA	271(Y)	U
35	BA	272	G
35	BA	272(A)	U
35	BA	272(B)	G
35	BA	272(H)	C
35	BA	272(I)	U
35	BA	276	A
35	BA	280	C
35	BA	283	A
35	BA	286	C
35	BA	299	A
35	BA	310	A
35	BA	311	A
35	BA	329	G
35	BA	330	A

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Mol	Chain	Res	Type
35	BA	332	A
35	BA	333	G
35	BA	336	C
35	BA	345	A
35	BA	346	A
35	BA	352	G
35	BA	353	G
35	BA	362	U
35	BA	363	G
35	BA	363(F)	A
35	BA	364	C
35	BA	365	C
35	BA	371	A
35	BA	372	G
35	BA	386	G
35	BA	396	G
35	BA	405	U
35	BA	406	G
35	BA	407	G
35	BA	411	G
35	BA	412	A
35	BA	428	A
35	BA	444	C
35	BA	448	U
35	BA	449	A
35	BA	455	C
35	BA	458	G
35	BA	475	U
35	BA	480	A
35	BA	481	G
35	BA	504	U
35	BA	505	A
35	BA	508	G
35	BA	509	C
35	BA	526	A
35	BA	527	C
35	BA	528	A
35	BA	529	A
35	BA	530	G
35	BA	531	C
35	BA	532	A
35	BA	544	G

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Mol	Chain	Res	Type
35	BA	548	A
35	BA	552	G
35	BA	555	U
35	BA	556	G
35	BA	562	U
35	BA	563	G
35	BA	573	G
35	BA	575	A
35	BA	587	C
35	BA	591	C
35	BA	592	G
35	BA	604	G
35	BA	607	U
35	BA	613	G
35	BA	614(B)	G
35	BA	615	G
35	BA	620	G
35	BA	622	G
35	BA	627	A
35	BA	637	A
35	BA	645	C
35	BA	646	A
35	BA	651	G
35	BA	653	A
35	BA	654	A
35	BA	654(I)	C
35	BA	654(J)	A
35	BA	654(K)	C
35	BA	654(M)	C
35	BA	654(T)	C
35	BA	655	A
35	BA	675	A
35	BA	682	G
35	BA	686	G
35	BA	695	G
35	BA	699	A
35	BA	722	A
35	BA	727	A
35	BA	729	G
35	BA	730	C
35	BA	740	U
35	BA	745	G

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Mol	Chain	Res	Type
35	BA	753	C
35	BA	764	A
35	BA	765	G
35	BA	775	G
35	BA	776	G
35	BA	782	A
35	BA	784	A
35	BA	785	G
35	BA	788	A
35	BA	789	A
35	BA	790	C
35	BA	791	C
35	BA	792	G
35	BA	793	A
35	BA	794	G
35	BA	800	A
35	BA	805	G
35	BA	811	U
35	BA	812	C
35	BA	827	U
35	BA	828	U
35	BA	830	G
35	BA	840	C
35	BA	841	A
35	BA	859	G
35	BA	878	A
35	BA	889	C
35	BA	896	A
35	BA	897	C
35	BA	900	A
35	BA	904	C
35	BA	910	A
35	BA	926	A
35	BA	932	G
35	BA	940	G
35	BA	941	A
35	BA	945	A
35	BA	946	G
35	BA	959	A
35	BA	961	C
35	BA	962	G
35	BA	969	U

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Mol	Chain	Res	Type
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	1005	C
35	BA	1011	G
35	BA	1012	U
35	BA	1013	C
35	BA	1021	A
35	BA	1022	G
35	BA	1023	U
35	BA	1026	U
35	BA	1033	U
35	BA	1034	G
35	BA	1039	G
35	BA	1044	G
35	BA	1045	A
35	BA	1047	G
35	BA	1048	A
35	BA	1049	C
35	BA	1052	C
35	BA	1053	C
35	BA	1054	A
35	BA	1058	G
35	BA	1062	G
35	BA	1067	A
35	BA	1070	A
35	BA	1073	A
35	BA	1076	C
35	BA	1088	A
35	BA	1090	U
35	BA	1109	C
35	BA	1111	A
35	BA	1112	G
35	BA	1114	G
35	BA	1115	G
35	BA	1122	G
35	BA	1126	A

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Mol	Chain	Res	Type
35	BA	1135	C
35	BA	1136	G
35	BA	1141	U
35	BA	1142	U
35	BA	1142(A)	A
35	BA	1143	A
35	BA	1146	C
35	BA	1155	A
35	BA	1157	G
35	BA	1158	C
35	BA	1159	U
35	BA	1170	G
35	BA	1173	G
35	BA	1174	A
35	BA	1175	U
35	BA	1176	G
35	BA	1177	A
35	BA	1204	A
35	BA	1210	A
35	BA	1211	U
35	BA	1212	G
35	BA	1213	A
35	BA	1220	A
35	BA	1221	C
35	BA	1224	C
35	BA	1238	G
35	BA	1247	A
35	BA	1248	G
35	BA	1250	G
35	BA	1251	C
35	BA	1252	G
35	BA	1255	U
35	BA	1256	G
35	BA	1266	G
35	BA	1271	G
35	BA	1272	A
35	BA	1273	U
35	BA	1287	A
35	BA	1300	U
35	BA	1302	A
35	BA	1314	C
35	BA	1326	U

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Mol	Chain	Res	Type
35	BA	1329	U
35	BA	1330	C
35	BA	1332	G
35	BA	1342	A
35	BA	1345	C
35	BA	1349	A
35	BA	1359	A
35	BA	1365	A
35	BA	1379	A
35	BA	1380	G
35	BA	1384	A
35	BA	1385	G
35	BA	1386	C
35	BA	1396	U
35	BA	1403	C
35	BA	1406	U
35	BA	1411	C
35	BA	1416	G
35	BA	1420	U
35	BA	1421	G
35	BA	1427	A
35	BA	1428	C
35	BA	1434	A
35	BA	1435	G
35	BA	1445	A
35	BA	1445(A)	C
35	BA	1453	U
35	BA	1455	G
35	BA	1459	G
35	BA	1460	A
35	BA	1461	G
35	BA	1467	C
35	BA	1476	C
35	BA	1477	A
35	BA	1478	G
35	BA	1482	G
35	BA	1484	G
35	BA	1485	G
35	BA	1488	G
35	BA	1490	A
35	BA	1491	G
35	BA	1493	C

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Mol	Chain	Res	Type
35	BA	1494	A
35	BA	1495	A
35	BA	1496	A
35	BA	1497	U
35	BA	1505	C
35	BA	1509	C
35	BA	1509(A)	A
35	BA	1517	G
35	BA	1528(A)	A
35	BA	1541	G
35	BA	1542	A
35	BA	1544	A
35	BA	1553	A
35	BA	1554	A
35	BA	1559	G
35	BA	1569	A
35	BA	1578	U
35	BA	1579	A
35	BA	1584	C
35	BA	1586	A
35	BA	1588	C
35	BA	1603	A
35	BA	1608	A
35	BA	1609	A
35	BA	1610	A
35	BA	1615	C
35	BA	1616	A
35	BA	1618	A
35	BA	1634	A
35	BA	1640	C
35	BA	1644	C
35	BA	1648	C
35	BA	1668	A
35	BA	1674	G
35	BA	1678	G
35	BA	1698	A
35	BA	1699	G
35	BA	1718	G
35	BA	1722	A
35	BA	1739	U
35	BA	1740	G
35	BA	1744	C

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Mol	Chain	Res	Type
35	BA	1748	G
35	BA	1763	G
35	BA	1764	G
35	BA	1773	A
35	BA	1780	A
35	BA	1781	C
35	BA	1784	A
35	BA	1787	A
35	BA	1791	A
35	BA	1799	G
35	BA	1800	C
35	BA	1801	G
35	BA	1815	A
35	BA	1816	G
35	BA	1820	U
35	BA	1821	A
35	BA	1829	A
35	BA	1839	G
35	BA	1846	G
35	BA	1847	A
35	BA	1850	G
35	BA	1858	G
35	BA	1862	G
35	BA	1866	C
35	BA	1878	G
35	BA	1885	A
35	BA	1888	G
35	BA	1889	A
35	BA	1900	A
35	BA	1906	G
35	BA	1912	A
35	BA	1929	G
35	BA	1930	G
35	BA	1931	U
35	BA	1937	A
35	BA	1938	A
35	BA	1943	U
35	BA	1944	U
35	BA	1945	G
35	BA	1948	G
35	BA	1955	U
35	BA	1960	A

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Mol	Chain	Res	Type
35	BA	1963	U
35	BA	1964	G
35	BA	1967	C
35	BA	1969	A
35	BA	1970	A
35	BA	1971	A
35	BA	1972	A
35	BA	1987	G
35	BA	1993	U
35	BA	1997	G
35	BA	2004	G
35	BA	2021	C
35	BA	2022	U
35	BA	2023	G
35	BA	2031	A
35	BA	2033	A
35	BA	2034	U
35	BA	2043	C
35	BA	2055	C
35	BA	2056	G
35	BA	2060	A
35	BA	2061	G
35	BA	2062	A
35	BA	2065	C
35	BA	2069	G
35	BA	2076	U
35	BA	2100	G
35	BA	2103	C
35	BA	2104	G
35	BA	2112	G
35	BA	2116	G
35	BA	2118	U
35	BA	2127	G
35	BA	2131	G
35	BA	2132	U
35	BA	2133	G
35	BA	2134	A
35	BA	2157	G
35	BA	2158	A
35	BA	2159	G
35	BA	2163	C
35	BA	2172	U

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Mol	Chain	Res	Type
35	BA	2173	A
35	BA	2185	C
35	BA	2187	G
35	BA	2189	U
35	BA	2190	G
35	BA	2192	G
35	BA	2193	G
35	BA	2198	A
35	BA	2199	A
35	BA	2200	C
35	BA	2202	C
35	BA	2203	U
35	BA	2205	C
35	BA	2206	G
35	BA	2207	G
35	BA	2208	A
35	BA	2219	G
35	BA	2225	A
35	BA	2226	C
35	BA	2238	G
35	BA	2239	G
35	BA	2263	C
35	BA	2273	A
35	BA	2283	C
35	BA	2286	A
35	BA	2288	A
35	BA	2297	C
35	BA	2302	G
35	BA	2305	A
35	BA	2306	C
35	BA	2307	G
35	BA	2308	G
35	BA	2309	A
35	BA	2313	C
35	BA	2319	G
35	BA	2320	A
35	BA	2325	G
35	BA	2334	G
35	BA	2336	A
35	BA	2345	G
35	BA	2346	A
35	BA	2347	C

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Mol	Chain	Res	Type
35	BA	2348	U
35	BA	2349	G
35	BA	2350	C
35	BA	2383	G
35	BA	2385	C
35	BA	2402	C
35	BA	2406	U
35	BA	2423	U
35	BA	2424	C
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	2434	A
35	BA	2435	A
35	BA	2439	A
35	BA	2441	C
35	BA	2448	A
35	BA	2461	C
35	BA	2465	C
35	BA	2469	A
35	BA	2470	G
35	BA	2473	U
35	BA	2474	C
35	BA	2475	C
35	BA	2476	A
35	BA	2477	C
35	BA	2478	A
35	BA	2482	G
35	BA	2484	G
35	BA	2502	G
35	BA	2503	A
35	BA	2505	G
35	BA	2519	U
35	BA	2520	C
35	BA	2524	G
35	BA	2529	G
35	BA	2543	G
35	BA	2554	U
35	BA	2566	A

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Mol	Chain	Res	Type
35	BA	2567	G
35	BA	2572	A
35	BA	2577	A
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	2646	C
35	BA	2655	G
35	BA	2657	A
35	BA	2658	C
35	BA	2670	A
35	BA	2673	G
35	BA	2682	U
35	BA	2690	C
35	BA	2691	C
35	BA	2702	U
35	BA	2703	C
35	BA	2706	G
35	BA	2712	U
35	BA	2712(A)	A
35	BA	2713	A
35	BA	2726	U
35	BA	2733	A
35	BA	2750	A
35	BA	2751	G
35	BA	2755	C
35	BA	2756	U
35	BA	2757	A
35	BA	2758	A
35	BA	2762	G
35	BA	2764	A
35	BA	2765	A
35	BA	2766	G
35	BA	2778	A
35	BA	2779	U
35	BA	2780	G

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Mol	Chain	Res	Type
35	BA	2790	A
35	BA	2791	C
35	BA	2796	U
35	BA	2799	C
35	BA	2801	A
35	BA	2802	G
35	BA	2803	C
35	BA	2808	U
35	BA	2820	A
35	BA	2821	A
35	BA	2824	C
35	BA	2833	G
35	BA	2834	G
35	BA	2836	U
35	BA	2849	U
35	BA	2872	G
35	BA	2879	C
35	BA	2880	C
35	BA	2892	A
35	BA	2894	G
35	BA	2895	U
36	BB	8	U
36	BB	13	A
36	BB	15	A
36	BB	16	G
36	BB	22	U
36	BB	25	A
36	BB	33	G
36	BB	35	U
36	BB	41	U
36	BB	42	C
36	BB	45	A
36	BB	52	A
36	BB	53	A
36	BB	56	G
36	BB	67	G
36	BB	73	A
36	BB	81	G
36	BB	82	G
36	BB	88	C
36	BB	89	G
36	BB	90	A

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Mol	Chain	Res	Type
36	BB	103	G
36	BB	104	U
36	BB	110	G
36	BB	113	G
1	CA	9	G
1	CA	31	G
1	CA	32	A
1	CA	33	A
1	CA	39	G
1	CA	47	C
1	CA	48	C
1	CA	51	A
1	CA	60	A
1	CA	61	G
1	CA	62	U
1	CA	81	U
1	CA	88	A
1	CA	89	C
1	CA	90	U
1	CA	91	C
1	CA	97	G
1	CA	98	G
1	CA	101	A
1	CA	104	G
1	CA	116	A
1	CA	120	A
1	CA	121	C
1	CA	129	U
1	CA	129(A)	G
1	CA	131	C
1	CA	144	G
1	CA	146	G
1	CA	147	G
1	CA	149	A
1	CA	160	A
1	CA	163	C
1	CA	181	G
1	CA	182	U
1	CA	189(G)	G
1	CA	189(H)	G
1	CA	195	A
1	CA	197	A

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Mol	Chain	Res	Type
1	CA	198	G
1	CA	202	U
1	CA	203	U
1	CA	204	U
1	CA	216	G
1	CA	243	A
1	CA	244	U
1	CA	247	G
1	CA	251	G
1	CA	266	G
1	CA	267	C
1	CA	268	C
1	CA	281	G
1	CA	289	G
1	CA	316	G
1	CA	321	A
1	CA	328	C
1	CA	329	A
1	CA	332	G
1	CA	344	A
1	CA	345	C
1	CA	346	G
1	CA	350	G
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	398	C
1	CA	412	A
1	CA	413	G
1	CA	414	A
1	CA	422	C
1	CA	428	G
1	CA	429	U
1	CA	430	A
1	CA	435	C
1	CA	437	U
1	CA	439	A
1	CA	444	C
1	CA	452	A

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Mol	Chain	Res	Type
1	CA	460	G
1	CA	461	A
1	CA	471	G
1	CA	481	G
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	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	560	U
1	CA	561	U
1	CA	562	C
1	CA	572	A
1	CA	573	A
1	CA	575	G
1	CA	576	G
1	CA	577	G
1	CA	588	G
1	CA	596	C
1	CA	631	G
1	CA	632	A
1	CA	650	G
1	CA	653	A
1	CA	665	A
1	CA	682	G
1	CA	683	G
1	CA	686	U
1	CA	687	A
1	CA	688	G
1	CA	704	A
1	CA	721	G
1	CA	722	A

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Mol	Chain	Res	Type
1	CA	723	U
1	CA	724	G
1	CA	728	A
1	CA	731	G
1	CA	744	C
1	CA	748	C
1	CA	755	G
1	CA	777	A
1	CA	793	U
1	CA	794	A
1	CA	813	U
1	CA	816	A
1	CA	817	C
1	CA	828	A
1	CA	839	U
1	CA	840	C
1	CA	841	U
1	CA	848	C
1	CA	858	G
1	CA	859	A
1	CA	867	G
1	CA	874	G
1	CA	895	G
1	CA	907	A
1	CA	914	A
1	CA	921	U
1	CA	927	G
1	CA	934	C
1	CA	935	A
1	CA	951	G
1	CA	960	U
1	CA	961	U
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	981	U
1	CA	991	U

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Mol	Chain	Res	Type
1	CA	992	U
1	CA	993	G
1	CA	997	U
1	CA	1003	G
1	CA	1004	A
1	CA	1005	A
1	CA	1010	G
1	CA	1027	C
1	CA	1030	C
1	CA	1030(B)	C
1	CA	1050	G
1	CA	1054	C
1	CA	1064	G
1	CA	1065	U
1	CA	1066	C
1	CA	1068	G
1	CA	1094	G
1	CA	1095	U
1	CA	1101	A
1	CA	1102	A
1	CA	1117	G
1	CA	1124	G
1	CA	1125	U
1	CA	1129	C
1	CA	1130	A
1	CA	1137	C
1	CA	1138	G
1	CA	1139	G
1	CA	1146	A
1	CA	1152	A
1	CA	1154	G
1	CA	1159	U
1	CA	1184	G
1	CA	1187	G
1	CA	1196	U
1	CA	1197	G
1	CA	1199	U
1	CA	1202	G
1	CA	1212	U
1	CA	1214	C
1	CA	1217	C
1	CA	1225	A

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Mol	Chain	Res	Type
1	CA	1226	C
1	CA	1227	A
1	CA	1238	A
1	CA	1240	U
1	CA	1241	G
1	CA	1249	C
1	CA	1256	A
1	CA	1257	U
1	CA	1273	G
1	CA	1280	A
1	CA	1281	U
1	CA	1285	A
1	CA	1286	A
1	CA	1287	A
1	CA	1298	C
1	CA	1299	A
1	CA	1300	G
1	CA	1301	U
1	CA	1302	U
1	CA	1317	C
1	CA	1322	C
1	CA	1323	G
1	CA	1331	G
1	CA	1335	C
1	CA	1336	C
1	CA	1337	G
1	CA	1338	G
1	CA	1346	A
1	CA	1348	U
1	CA	1354	C
1	CA	1363	C
1	CA	1364	U
1	CA	1365	G
1	CA	1370	G
1	CA	1379	G
1	CA	1394	A
1	CA	1397	C
1	CA	1398	A
1	CA	1404	C
1	CA	1419	G
1	CA	1442	G
1	CA	1442(A)	G

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Mol	Chain	Res	Type
1	CA	1447	A
1	CA	1452	C
1	CA	1456	G
1	CA	1490	C
1	CA	1492	A
1	CA	1493	A
1	CA	1494	G
1	CA	1498	U
1	CA	1499	A
1	CA	1503	A
1	CA	1504	G
1	CA	1505	G
1	CA	1506	U
1	CA	1517	G
1	CA	1519	A
1	CA	1520	G
1	CA	1529	G
1	CA	1530	G
22	CV	3	C
22	CV	4	G
22	CV	5	G
22	CV	17	C
22	CV	17(A)	U
22	CV	18	G
22	CV	19	G
22	CV	20	U
22	CV	21	A
22	CV	47	U
22	CV	48	C
22	CV	63	G
22	CV	75	C
22	CV	76	A
22	CW	4	G
22	CW	5	G
22	CW	7	G
22	CW	9	G
22	CW	10	G
22	CW	15	G
22	CW	18	U
22	CW	19	G
22	CW	20	G
22	CW	21	U

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Mol	Chain	Res	Type
22	CW	22	A
22	CW	48	U
22	CW	49	C
22	CW	53	G
22	CW	66	C
22	CW	72	C
22	CW	73	A
22	CW	74	A
22	CW	75	C
23	CX	12	A
23	CX	13	A
23	CX	14	A
23	CX	19	U
35	DA	9	U
35	DA	18	C
35	DA	28	A
35	DA	35	G
35	DA	42	G
35	DA	43	A
35	DA	45	C
35	DA	49	A
35	DA	50	U
35	DA	61	G
35	DA	63	U
35	DA	72	U
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	92	A
35	DA	94	C
35	DA	95	G
35	DA	100	G
35	DA	102	G
35	DA	106	C
35	DA	116	C
35	DA	118	A
35	DA	119	A
35	DA	121	G
35	DA	125	G

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Mol	Chain	Res	Type
35	DA	129	C
35	DA	139(A)	G
35	DA	141	A
35	DA	142(A)	C
35	DA	155	U
35	DA	156	U
35	DA	157	U
35	DA	171	G
35	DA	174	C
35	DA	190	A
35	DA	196	A
35	DA	199	A
35	DA	204	A
35	DA	205	G
35	DA	212	G
35	DA	215	G
35	DA	216	A
35	DA	221	A
35	DA	222	A
35	DA	227	A
35	DA	241	A
35	DA	248	G
35	DA	252	G
35	DA	261	G
35	DA	271(J)	C
35	DA	271(K)	U
35	DA	271(L)	U
35	DA	271(O)	C
35	DA	271(Y)	U
35	DA	272	G
35	DA	272(A)	U
35	DA	272(B)	G
35	DA	272(H)	C
35	DA	272(I)	U
35	DA	276	A
35	DA	280	C
35	DA	283	A
35	DA	286	C
35	DA	299	A
35	DA	310	A
35	DA	311	A
35	DA	329	G

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Mol	Chain	Res	Type
35	DA	330	A
35	DA	332	A
35	DA	333	G
35	DA	336	C
35	DA	345	A
35	DA	346	A
35	DA	352	G
35	DA	353	G
35	DA	362	U
35	DA	363	G
35	DA	363(F)	A
35	DA	364	C
35	DA	365	C
35	DA	371	A
35	DA	372	G
35	DA	386	G
35	DA	396	G
35	DA	405	U
35	DA	406	G
35	DA	407	G
35	DA	411	G
35	DA	412	A
35	DA	428	A
35	DA	444	C
35	DA	448	U
35	DA	449	A
35	DA	455	C
35	DA	458	G
35	DA	475	U
35	DA	480	A
35	DA	481	G
35	DA	504	U
35	DA	505	A
35	DA	508	G
35	DA	509	C
35	DA	526	A
35	DA	527	C
35	DA	528	A
35	DA	529	A
35	DA	530	G
35	DA	531	C
35	DA	532	A

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Mol	Chain	Res	Type
35	DA	544	G
35	DA	548	A
35	DA	552	G
35	DA	555	U
35	DA	556	G
35	DA	562	U
35	DA	563	G
35	DA	573	G
35	DA	575	A
35	DA	587	C
35	DA	591	C
35	DA	592	G
35	DA	604	G
35	DA	607	U
35	DA	613	G
35	DA	614(B)	G
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	651	G
35	DA	653	A
35	DA	654	A
35	DA	654(I)	C
35	DA	654(J)	A
35	DA	654(K)	C
35	DA	654(M)	C
35	DA	654(T)	C
35	DA	655	A
35	DA	675	A
35	DA	682	G
35	DA	686	G
35	DA	695	G
35	DA	699	A
35	DA	722	A
35	DA	727	A
35	DA	729	G
35	DA	730	C
35	DA	740	U

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Mol	Chain	Res	Type
35	DA	745	G
35	DA	753	C
35	DA	764	A
35	DA	765	G
35	DA	775	G
35	DA	776	G
35	DA	782	A
35	DA	784	A
35	DA	785	G
35	DA	788	A
35	DA	789	A
35	DA	790	C
35	DA	791	C
35	DA	792	G
35	DA	793	A
35	DA	794	G
35	DA	800	A
35	DA	805	G
35	DA	811	U
35	DA	812	C
35	DA	827	U
35	DA	828	U
35	DA	830	G
35	DA	840	C
35	DA	841	A
35	DA	859	G
35	DA	878	A
35	DA	889	C
35	DA	896	A
35	DA	897	C
35	DA	900	A
35	DA	904	C
35	DA	910	A
35	DA	926	A
35	DA	932	G
35	DA	940	G
35	DA	941	A
35	DA	945	A
35	DA	946	G
35	DA	959	A
35	DA	961	C
35	DA	962	G

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Mol	Chain	Res	Type
35	DA	969	U
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	1005	C
35	DA	1011	G
35	DA	1012	U
35	DA	1013	C
35	DA	1021	A
35	DA	1022	G
35	DA	1023	U
35	DA	1026	U
35	DA	1033	U
35	DA	1034	G
35	DA	1039	G
35	DA	1044	G
35	DA	1045	A
35	DA	1047	G
35	DA	1048	A
35	DA	1049	C
35	DA	1052	C
35	DA	1053	C
35	DA	1054	A
35	DA	1058	G
35	DA	1062	G
35	DA	1067	A
35	DA	1070	A
35	DA	1073	A
35	DA	1076	C
35	DA	1088	A
35	DA	1090	U
35	DA	1109	C
35	DA	1111	A
35	DA	1112	G
35	DA	1114	G
35	DA	1115	G
35	DA	1122	G

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Mol	Chain	Res	Type
35	DA	1126	A
35	DA	1135	C
35	DA	1136	G
35	DA	1141	U
35	DA	1142	U
35	DA	1142(A)	A
35	DA	1143	A
35	DA	1146	C
35	DA	1155	A
35	DA	1157	G
35	DA	1158	C
35	DA	1159	U
35	DA	1170	G
35	DA	1173	G
35	DA	1174	A
35	DA	1175	U
35	DA	1176	G
35	DA	1177	A
35	DA	1204	A
35	DA	1210	A
35	DA	1211	U
35	DA	1212	G
35	DA	1213	A
35	DA	1220	A
35	DA	1221	C
35	DA	1224	C
35	DA	1238	G
35	DA	1247	A
35	DA	1248	G
35	DA	1250	G
35	DA	1251	C
35	DA	1252	G
35	DA	1255	U
35	DA	1256	G
35	DA	1266	G
35	DA	1271	G
35	DA	1272	A
35	DA	1273	U
35	DA	1287	A
35	DA	1300	U
35	DA	1302	A
35	DA	1314	C

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Mol	Chain	Res	Type
35	DA	1326	U
35	DA	1329	U
35	DA	1330	C
35	DA	1332	G
35	DA	1342	A
35	DA	1345	C
35	DA	1349	A
35	DA	1359	A
35	DA	1365	A
35	DA	1379	A
35	DA	1380	G
35	DA	1384	A
35	DA	1385	G
35	DA	1386	C
35	DA	1396	U
35	DA	1403	C
35	DA	1406	U
35	DA	1411	C
35	DA	1416	G
35	DA	1420	U
35	DA	1421	G
35	DA	1427	A
35	DA	1428	C
35	DA	1434	A
35	DA	1435	G
35	DA	1445	A
35	DA	1445(A)	C
35	DA	1453	U
35	DA	1455	G
35	DA	1459	G
35	DA	1460	A
35	DA	1461	G
35	DA	1467	C
35	DA	1476	C
35	DA	1477	A
35	DA	1478	G
35	DA	1482	G
35	DA	1484	G
35	DA	1485	G
35	DA	1488	G
35	DA	1490	A
35	DA	1491	G

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Mol	Chain	Res	Type
35	DA	1493	C
35	DA	1494	A
35	DA	1495	A
35	DA	1496	A
35	DA	1497	U
35	DA	1505	C
35	DA	1509	C
35	DA	1509(A)	A
35	DA	1517	G
35	DA	1528(A)	A
35	DA	1541	G
35	DA	1542	A
35	DA	1544	A
35	DA	1553	A
35	DA	1554	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	1588	C
35	DA	1603	A
35	DA	1608	A
35	DA	1609	A
35	DA	1610	A
35	DA	1615	C
35	DA	1616	A
35	DA	1618	A
35	DA	1634	A
35	DA	1640	C
35	DA	1644	C
35	DA	1648	C
35	DA	1668	A
35	DA	1674	G
35	DA	1678	G
35	DA	1698	A
35	DA	1699	G
35	DA	1718	G
35	DA	1722	A
35	DA	1739	U
35	DA	1740	G

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Mol	Chain	Res	Type
35	DA	1744	C
35	DA	1748	G
35	DA	1763	G
35	DA	1764	G
35	DA	1773	A
35	DA	1780	A
35	DA	1781	C
35	DA	1784	A
35	DA	1787	A
35	DA	1791	A
35	DA	1799	G
35	DA	1800	C
35	DA	1801	G
35	DA	1815	A
35	DA	1816	G
35	DA	1820	U
35	DA	1821	A
35	DA	1829	A
35	DA	1839	G
35	DA	1846	G
35	DA	1847	A
35	DA	1850	G
35	DA	1858	G
35	DA	1862	G
35	DA	1866	C
35	DA	1878	G
35	DA	1885	A
35	DA	1888	G
35	DA	1889	A
35	DA	1900	A
35	DA	1906	G
35	DA	1912	A
35	DA	1929	G
35	DA	1930	G
35	DA	1931	U
35	DA	1937	A
35	DA	1938	A
35	DA	1943	U
35	DA	1944	U
35	DA	1945	G
35	DA	1948	G
35	DA	1955	U

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Mol	Chain	Res	Type
35	DA	1960	A
35	DA	1963	U
35	DA	1964	G
35	DA	1967	C
35	DA	1969	A
35	DA	1970	A
35	DA	1971	A
35	DA	1972	A
35	DA	1993	U
35	DA	1997	G
35	DA	2004	G
35	DA	2021	C
35	DA	2022	U
35	DA	2023	G
35	DA	2031	A
35	DA	2033	A
35	DA	2034	U
35	DA	2043	C
35	DA	2055	C
35	DA	2056	G
35	DA	2060	A
35	DA	2061	G
35	DA	2062	A
35	DA	2065	C
35	DA	2069	G
35	DA	2076	U
35	DA	2100	G
35	DA	2103	C
35	DA	2104	G
35	DA	2112	G
35	DA	2116	G
35	DA	2118	U
35	DA	2127	G
35	DA	2132	U
35	DA	2133	G
35	DA	2134	A
35	DA	2157	G
35	DA	2158	A
35	DA	2159	G
35	DA	2163	C
35	DA	2172	U
35	DA	2173	A

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Mol	Chain	Res	Type
35	DA	2185	C
35	DA	2187	G
35	DA	2189	U
35	DA	2190	G
35	DA	2192	G
35	DA	2193	G
35	DA	2198	A
35	DA	2199	A
35	DA	2200	C
35	DA	2202	C
35	DA	2203	U
35	DA	2205	C
35	DA	2206	G
35	DA	2207	G
35	DA	2208	A
35	DA	2219	G
35	DA	2225	A
35	DA	2226	C
35	DA	2238	G
35	DA	2239	G
35	DA	2263	C
35	DA	2273	A
35	DA	2283	C
35	DA	2286	A
35	DA	2288	A
35	DA	2297	C
35	DA	2302	G
35	DA	2305	A
35	DA	2306	C
35	DA	2307	G
35	DA	2308	G
35	DA	2309	A
35	DA	2313	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	2346	A
35	DA	2347	C
35	DA	2348	U

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Mol	Chain	Res	Type
35	DA	2349	G
35	DA	2350	C
35	DA	2383	G
35	DA	2385	C
35	DA	2402	C
35	DA	2423	U
35	DA	2424	C
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	2434	A
35	DA	2435	A
35	DA	2439	A
35	DA	2441	C
35	DA	2448	A
35	DA	2461	C
35	DA	2465	C
35	DA	2469	A
35	DA	2470	G
35	DA	2473	U
35	DA	2474	C
35	DA	2475	C
35	DA	2476	A
35	DA	2477	C
35	DA	2478	A
35	DA	2482	G
35	DA	2484	G
35	DA	2502	G
35	DA	2503	A
35	DA	2505	G
35	DA	2519	U
35	DA	2520	C
35	DA	2524	G
35	DA	2529	G
35	DA	2543	G
35	DA	2554	U
35	DA	2566	A
35	DA	2567	G
35	DA	2572	A

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Mol	Chain	Res	Type
35	DA	2573	C
35	DA	2577	A
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	2646	C
35	DA	2655	G
35	DA	2657	A
35	DA	2658	C
35	DA	2670	A
35	DA	2673	G
35	DA	2682	U
35	DA	2690	C
35	DA	2691	C
35	DA	2702	U
35	DA	2703	C
35	DA	2712	U
35	DA	2712(A)	A
35	DA	2713	A
35	DA	2726	U
35	DA	2733	A
35	DA	2750	A
35	DA	2751	G
35	DA	2755	C
35	DA	2756	U
35	DA	2757	A
35	DA	2758	A
35	DA	2762	G
35	DA	2764	A
35	DA	2765	A
35	DA	2766	G
35	DA	2778	A
35	DA	2779	U
35	DA	2780	G
35	DA	2790	A
35	DA	2791	C

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Mol	Chain	Res	Type
35	DA	2796	U
35	DA	2799	C
35	DA	2801	A
35	DA	2802	G
35	DA	2803	C
35	DA	2808	U
35	DA	2820	A
35	DA	2821	A
35	DA	2824	C
35	DA	2833	G
35	DA	2834	G
35	DA	2836	U
35	DA	2849	U
35	DA	2872	G
35	DA	2879	C
35	DA	2880	C
35	DA	2892	A
35	DA	2894	G
35	DA	2895	U
36	DB	8	U
36	DB	13	A
36	DB	15	A
36	DB	16	G
36	DB	22	U
36	DB	25	A
36	DB	33	G
36	DB	35	U
36	DB	41	U
36	DB	42	C
36	DB	45	A
36	DB	52	A
36	DB	53	A
36	DB	56	G
36	DB	67	G
36	DB	73	A
36	DB	81	G
36	DB	82	G
36	DB	88	C
36	DB	89	G
36	DB	90	A
36	DB	103	G
36	DB	104	U

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Mol	Chain	Res	Type
36	DB	110	G
36	DB	113	G

All (232) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AA	30	U
1	AA	60	A
1	AA	115	G
1	AA	119	A
1	AA	203	U
1	AA	243	A
1	AA	250	A
1	AA	266	G
1	AA	315	A
1	AA	328	C
1	AA	344	A
1	AA	353	A
1	AA	366	C
1	AA	428	G
1	AA	429	U
1	AA	438	G
1	AA	532	A
1	AA	533	A
1	AA	535	A
1	AA	560	U
1	AA	575	G
1	AA	576	G
1	AA	631	G
1	AA	703	G
1	AA	812	C
1	AA	913	A
1	AA	992	U
1	AA	1049	U
1	AA	1065	U
1	AA	1101	A
1	AA	1129	C
1	AA	1201	A
1	AA	1225	A
1	AA	1226	C
1	AA	1285	A
1	AA	1299	A

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Mol	Chain	Res	Type
1	AA	1300	G
1	AA	1337	G
1	AA	1347	G
1	AA	1364	U
1	AA	1493	A
1	AA	1498	U
1	AA	1505	G
22	AW	73	A
23	AX	11	U
35	BA	27	G
35	BA	49	A
35	BA	74	A
35	BA	120	U
35	BA	128	C
35	BA	221	A
35	BA	226	G
35	BA	329	G
35	BA	331	A
35	BA	332	A
35	BA	363(F)	A
35	BA	474	G
35	BA	503	A
35	BA	603	A
35	BA	614(A)	U
35	BA	614(C)	A
35	BA	728	G
35	BA	739	G
35	BA	752	A
35	BA	764	A
35	BA	961	C
35	BA	1020	A
35	BA	1022	G
35	BA	1052	C
35	BA	1057	A
35	BA	1156	A
35	BA	1173	G
35	BA	1210	A
35	BA	1212	G
35	BA	1237	A
35	BA	1301	A
35	BA	1378	A
35	BA	1427	A

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Mol	Chain	Res	Type
35	BA	1453	U
35	BA	1494	A
35	BA	1541	G
35	BA	1558	A
35	BA	1799	G
35	BA	1819	A
35	BA	1838	C
35	BA	1846	G
35	BA	1930	G
35	BA	1943	U
35	BA	1948	G
35	BA	1992	G
35	BA	2033	A
35	BA	2111	C
35	BA	2126	A
35	BA	2172	U
35	BA	2198	A
35	BA	2225	A
35	BA	2282	G
35	BA	2296	U
35	BA	2344	U
35	BA	2345	G
35	BA	2422	A
35	BA	2425	A
35	BA	2428	G
35	BA	2481	G
35	BA	2611	U
35	BA	2689	U
35	BA	2690	C
35	BA	2756	U
35	BA	2762	G
35	BA	2778	A
35	BA	2779	U
35	BA	2799	C
35	BA	2801(A)	A
35	BA	2835	A
35	BA	2849	U
35	BA	2891	G
1	CA	30	U
1	CA	60	A
1	CA	115	G
1	CA	119	A

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Mol	Chain	Res	Type
1	CA	203	U
1	CA	243	A
1	CA	250	A
1	CA	266	G
1	CA	315	A
1	CA	328	C
1	CA	344	A
1	CA	353	A
1	CA	366	C
1	CA	428	G
1	CA	429	U
1	CA	438	G
1	CA	532	A
1	CA	533	A
1	CA	534	U
1	CA	535	A
1	CA	560	U
1	CA	575	G
1	CA	576	G
1	CA	631	G
1	CA	703	G
1	CA	812	C
1	CA	913	A
1	CA	992	U
1	CA	1049	U
1	CA	1065	U
1	CA	1101	A
1	CA	1129	C
1	CA	1201	A
1	CA	1225	A
1	CA	1226	C
1	CA	1285	A
1	CA	1299	A
1	CA	1300	G
1	CA	1337	G
1	CA	1347	G
1	CA	1364	U
1	CA	1493	A
1	CA	1498	U
22	CW	73	A
23	CX	11	U
35	DA	27	G

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Mol	Chain	Res	Type
35	DA	49	A
35	DA	74	A
35	DA	120	U
35	DA	128	C
35	DA	221	A
35	DA	226	G
35	DA	329	G
35	DA	331	A
35	DA	332	A
35	DA	363(F)	A
35	DA	474	G
35	DA	503	A
35	DA	603	A
35	DA	614(A)	U
35	DA	614(C)	A
35	DA	728	G
35	DA	739	G
35	DA	752	A
35	DA	764	A
35	DA	961	C
35	DA	1020	A
35	DA	1022	G
35	DA	1052	C
35	DA	1057	A
35	DA	1156	A
35	DA	1173	G
35	DA	1210	A
35	DA	1212	G
35	DA	1237	A
35	DA	1301	A
35	DA	1378	A
35	DA	1427	A
35	DA	1453	U
35	DA	1494	A
35	DA	1541	G
35	DA	1558	A
35	DA	1799	G
35	DA	1819	A
35	DA	1838	C
35	DA	1846	G
35	DA	1930	G
35	DA	1943	U

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Mol	Chain	Res	Type
35	DA	1948	G
35	DA	1992	G
35	DA	2033	A
35	DA	2111	C
35	DA	2126	A
35	DA	2172	U
35	DA	2198	A
35	DA	2225	A
35	DA	2282	G
35	DA	2296	U
35	DA	2344	U
35	DA	2345	G
35	DA	2422	A
35	DA	2425	A
35	DA	2428	G
35	DA	2481	G
35	DA	2611	U
35	DA	2689	U
35	DA	2690	C
35	DA	2756	U
35	DA	2762	G
35	DA	2778	A
35	DA	2779	U
35	DA	2799	C
35	DA	2801(A)	A
35	DA	2835	A
35	DA	2849	U
35	DA	2891	G

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

4 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
22	5MU	AV	54	22	18,21,23	1.09	3 (16%)	20,30,35	1.44	1 (5%)
22	5MU	AW	55	22	18,21,23	1.04	3 (16%)	20,30,35	1.22	1 (5%)
22	5MU	CV	54	22	18,21,23	1.02	2 (11%)	20,30,35	1.32	1 (5%)
22	5MU	CW	55	22	18,21,23	1.03	3 (16%)	20,30,35	1.22	1 (5%)

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
22	5MU	AV	54	22	-	0/6/25/26	0/2/2/2
22	5MU	AW	55	22	-	0/6/25/26	0/2/2/2
22	5MU	CV	54	22	-	0/6/25/26	0/2/2/2
22	5MU	CW	55	22	-	0/6/25/26	0/2/2/2

All (11) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	AV	54	5MU	C6-N1	2.43	1.38	1.34
22	AW	55	5MU	C6-N1	2.41	1.38	1.34
22	CV	54	5MU	C6-N1	2.40	1.38	1.34
22	CW	55	5MU	C6-N1	2.38	1.38	1.34
22	CV	54	5MU	P-OP1	2.22	1.49	1.46
22	AW	55	5MU	P-OP1	2.19	1.49	1.46
22	CW	55	5MU	C6-C5	-2.15	1.34	1.39
22	AV	54	5MU	P-OP1	2.11	1.49	1.46
22	CW	55	5MU	P-OP1	2.08	1.49	1.46
22	AV	54	5MU	C6-C5	-2.05	1.34	1.39
22	AW	55	5MU	C6-C5	-2.05	1.34	1.39

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	AV	54	5MU	C6-N1-C2	-5.67	120.80	122.41
22	CV	54	5MU	C6-N1-C2	-5.23	120.92	122.41
22	AW	55	5MU	C6-N1-C2	-4.69	121.07	122.41
22	CW	55	5MU	C6-N1-C2	-4.66	121.08	122.41

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 14 ligands modelled in this entry, 10 are monoatomic - leaving 4 for Mogul analysis.

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	$\# Z > 2$
61	FUA	AY	702	-	40,40,40	1.70	8 (20%)	64,64,64	1.69	10 (15%)
62	GDP	AY	703	60	30,30,30	1.41	5 (16%)	45,47,47	2.02	9 (20%)
61	FUA	CY	702	-	40,40,40	1.69	8 (20%)	64,64,64	1.51	10 (15%)
62	GDP	CY	703	60	30,30,30	1.49	5 (16%)	45,47,47	1.97	10 (22%)

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
61	FUA	AY	702	-	-	0/18/92/92	0/4/4/4
62	GDP	AY	703	60	-	0/16/32/32	0/3/3/3
61	FUA	CY	702	-	-	0/18/92/92	0/4/4/4
62	GDP	CY	703	60	-	0/16/32/32	0/3/3/3

All (26) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
61	AY	702	FUA	C29-C22	4.52	1.53	1.47
61	CY	702	FUA	C23-C22	-4.34	1.39	1.51
61	CY	702	FUA	C29-C22	4.23	1.53	1.47
61	AY	702	FUA	C23-C22	-4.22	1.39	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
62	CY	703	GDP	C5-N7	-4.10	1.33	1.38
61	AY	702	FUA	C23-C24	-4.02	1.39	1.53
61	CY	702	FUA	C23-C24	-4.01	1.39	1.53
62	AY	703	GDP	C5-N7	-3.91	1.33	1.38
61	CY	702	FUA	C24-C25	-3.88	1.39	1.50
61	AY	702	FUA	C24-C25	-3.74	1.39	1.50
62	CY	703	GDP	C4-N9	-3.23	1.33	1.37
62	AY	703	GDP	C4-N9	-2.91	1.33	1.37
62	CY	703	GDP	C6-N1	2.82	1.40	1.36
62	CY	703	GDP	O4'-C1'	2.69	1.44	1.41
61	AY	702	FUA	C14-C8	-2.67	1.53	1.58
61	CY	702	FUA	C14-C8	-2.65	1.53	1.58
62	AY	703	GDP	C2-N1	2.61	1.40	1.36
61	AY	702	FUA	C17-C22	2.54	1.39	1.33
61	CY	702	FUA	C17-C22	2.47	1.39	1.33
62	AY	703	GDP	C6-N1	2.40	1.40	1.36
62	CY	703	GDP	C2-N1	2.40	1.40	1.36
61	CY	702	FUA	C25-C26	2.34	1.39	1.32
62	AY	703	GDP	O4'-C1'	2.34	1.44	1.41
61	AY	702	FUA	C25-C26	2.19	1.39	1.32
61	CY	702	FUA	C10-C9	-2.13	1.53	1.57
61	AY	702	FUA	C10-C9	-2.09	1.53	1.57

All (39) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
62	AY	703	GDP	C6-C5-N7	-6.27	133.30	134.14
62	CY	703	GDP	C2-N3-C4	5.40	121.78	115.30
62	AY	703	GDP	C2-N3-C4	5.15	121.48	115.30
61	AY	702	FUA	C23-C22-C17	-5.05	117.04	123.78
62	CY	703	GDP	PA-O3A-PB	-4.99	118.11	131.93
61	AY	702	FUA	C24-C23-C22	4.85	124.11	112.02
62	CY	703	GDP	C5-C4-N3	-4.77	120.58	126.07
62	AY	703	GDP	C5-C4-N3	-4.59	120.78	126.07
62	AY	703	GDP	PA-O3A-PB	-4.54	119.36	131.93
61	AY	702	FUA	C13-C12-C11	-4.52	105.84	112.00
61	CY	702	FUA	C16-O2-C31	-4.07	110.67	117.13
61	AY	702	FUA	C16-O2-C31	-3.79	111.12	117.13
61	CY	702	FUA	C24-C23-C22	3.78	121.43	112.02
62	CY	703	GDP	C4'-O4'-C1'	-3.73	105.62	109.72
62	CY	703	GDP	N3-C4-N9	3.67	132.29	126.91
61	AY	702	FUA	C8-C9-C10	-3.54	112.82	116.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
62	CY	703	GDP	C2'-C3'-C4'	-3.52	95.61	102.64
62	AY	703	GDP	N3-C4-N9	3.50	132.04	126.91
62	AY	703	GDP	C4'-O4'-C1'	-3.46	105.92	109.72
61	CY	702	FUA	C23-C22-C17	-3.41	119.23	123.78
61	CY	702	FUA	C13-C12-C11	-3.32	107.47	112.00
61	CY	702	FUA	C8-C9-C10	-2.98	113.40	116.47
61	AY	702	FUA	C23-C22-C29	2.97	121.75	115.50
61	AY	702	FUA	O2-C31-C32	2.93	116.52	111.11
62	CY	703	GDP	C4-C5-N7	-2.85	106.65	109.41
62	CY	703	GDP	N2-C2-N1	2.80	120.83	117.82
61	CY	702	FUA	C23-C24-C25	2.72	119.39	111.64
62	AY	703	GDP	O4'-C1'-C2'	-2.48	103.07	106.69
62	AY	703	GDP	C4-C5-N7	-2.44	107.05	109.41
62	AY	703	GDP	N2-C2-N1	2.42	120.42	117.82
61	CY	702	FUA	O2-C31-C32	2.26	115.29	111.11
61	AY	702	FUA	C15-C14-C13	-2.22	98.53	102.04
61	CY	702	FUA	C10-C9-C11	-2.13	111.24	114.50
61	CY	702	FUA	C28-C26-C27	2.11	119.93	114.62
61	CY	702	FUA	C10-C5-C4	-2.07	110.51	113.19
61	AY	702	FUA	C23-C24-C25	2.04	117.46	111.64
62	CY	703	GDP	O3B-PB-O2B	2.04	115.03	107.38
62	CY	703	GDP	C2'-C1'-N9	-2.04	107.79	113.35
61	AY	702	FUA	C28-C26-C27	2.04	119.75	114.62

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
9	AI	2
9	CI	2
45	BL	1

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Mol	Chain	Number of breaks
41	DG	1
41	BG	1
45	DL	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	DL	30:UNK	C	52:UNK	N	38.40
1	BL	30:UNK	C	52:UNK	N	36.36
1	BG	112:PRO	C	113:ARG	N	3.27
1	DG	112:PRO	C	113:ARG	N	3.05
1	CI	53:VAL	C	54:ASP	N	2.98
1	AI	53:VAL	C	54:ASP	N	2.92
1	AI	104:ARG	C	105:ASP	N	2.54
1	CI	104:ARG	C	105:ASP	N	2.54

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%)	6.94	1382 (91%) 0 0	23, 62, 148, 220	0
1	CA	1504/1522 (98%)	4.82	1286 (85%) 0 1	26, 65, 148, 220	0
2	AB	235/256 (91%)	4.64	151 (64%) 0 1	40, 81, 147, 159	0
2	CB	235/256 (91%)	1.06	38 (16%) 2 3	43, 82, 147, 158	0
3	AC	207/239 (86%)	3.26	94 (45%) 1 1	31, 72, 113, 118	0
3	CC	207/239 (86%)	2.73	110 (53%) 0 1	33, 75, 115, 121	0
4	AD	208/209 (99%)	3.21	111 (53%) 0 1	47, 79, 115, 124	0
4	CD	208/209 (99%)	2.67	98 (47%) 1 1	48, 80, 116, 125	0
5	AE	151/162 (93%)	2.74	61 (40%) 1 1	25, 50, 90, 112	0
5	CE	151/162 (93%)	1.96	53 (35%) 1 1	27, 52, 91, 112	0
6	AF	101/101 (100%)	1.80	36 (35%) 1 1	55, 85, 110, 118	0
6	CF	101/101 (100%)	1.87	32 (31%) 1 1	60, 87, 111, 118	0
7	AG	155/156 (99%)	3.98	85 (54%) 0 1	51, 79, 109, 136	0
7	CG	155/156 (99%)	1.57	39 (25%) 1 2	55, 81, 111, 136	0
8	AH	138/138 (100%)	4.00	85 (61%) 0 1	32, 54, 75, 82	0
8	CH	138/138 (100%)	1.13	26 (18%) 2 2	35, 56, 76, 83	0
9	AI	127/128 (99%)	4.91	91 (71%) 0 1	50, 83, 114, 120	0
9	CI	127/128 (99%)	1.84	45 (35%) 1 1	53, 86, 114, 120	0
10	AJ	99/105 (94%)	2.50	37 (37%) 1 1	47, 100, 155, 159	0
10	CJ	99/105 (94%)	2.17	47 (47%) 1 1	50, 102, 156, 159	0
11	AK	119/129 (92%)	4.20	75 (63%) 0 1	42, 59, 100, 123	0
11	CK	119/129 (92%)	2.24	51 (42%) 1 1	44, 60, 102, 124	0
12	AL	125/132 (94%)	3.08	66 (52%) 0 1	38, 57, 87, 127	0
12	CL	125/132 (94%)	2.48	65 (52%) 0 1	39, 58, 88, 129	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å ²)	Q<0.9
13	AM	125/126 (99%)	1.21	22 (17%)	2	2	68, 111, 139, 171	0
13	CM	125/126 (99%)	5.49	92 (73%)	0	1	70, 112, 139, 172	0
14	AN	60/61 (98%)	1.22	15 (25%)	1	2	39, 59, 92, 97	0
14	CN	60/61 (98%)	3.59	36 (60%)	0	1	44, 61, 93, 98	0
15	AO	88/89 (98%)	3.23	45 (51%)	0	1	35, 61, 91, 100	0
15	CO	88/89 (98%)	1.52	21 (23%)	1	2	38, 61, 94, 100	0
16	AP	84/88 (95%)	2.05	36 (42%)	1	1	54, 73, 96, 131	0
16	CP	84/88 (95%)	2.39	41 (48%)	1	1	57, 74, 98, 132	0
17	AQ	100/105 (95%)	4.56	62 (62%)	0	1	43, 64, 89, 98	0
17	CQ	100/105 (95%)	1.17	19 (19%)	2	2	46, 66, 90, 97	0
18	AR	70/88 (79%)	2.19	26 (37%)	1	1	42, 69, 94, 108	0
18	CR	70/88 (79%)	1.37	14 (20%)	2	2	45, 70, 95, 109	0
19	AS	79/93 (84%)	1.17	15 (18%)	2	2	77, 106, 144, 149	0
19	CS	79/93 (84%)	4.37	47 (59%)	0	1	78, 107, 144, 150	0
20	AT	99/106 (93%)	3.84	56 (56%)	0	1	63, 84, 126, 129	0
20	CT	99/106 (93%)	1.23	18 (18%)	2	2	64, 85, 127, 129	0
21	AU	25/27 (92%)	2.22	8 (32%)	1	1	63, 82, 118, 122	0
21	CU	25/27 (92%)	4.07	16 (64%)	0	1	66, 86, 120, 123	0
22	AV	77/77 (100%)	6.17	73 (94%)	0	0	32, 67, 110, 127	0
22	AW	77/77 (100%)	7.88	76 (98%)	0	0	71, 168, 192, 201	0
22	CV	77/77 (100%)	4.47	74 (96%)	0	0	47, 84, 121, 151	0
22	CW	77/77 (100%)	3.53	61 (79%)	0	1	78, 176, 200, 210	0
23	AX	11/25 (44%)	8.71	11 (100%)	0	0	28, 94, 149, 166	0
23	CX	11/25 (44%)	6.62	11 (100%)	0	0	45, 106, 156, 168	0
24	AY	667/691 (96%)	2.83	317 (47%)	1	1	61, 99, 140, 150	0
24	CY	667/691 (96%)	2.59	282 (42%)	1	1	73, 108, 148, 161	0
25	B0	84/85 (98%)	1.94	27 (32%)	1	1	67, 82, 140, 163	0
25	D0	84/85 (98%)	1.40	23 (27%)	1	2	69, 84, 141, 163	0
26	B1	94/98 (95%)	4.99	59 (62%)	0	1	41, 70, 118, 128	0
26	D1	94/98 (95%)	1.20	19 (20%)	2	2	53, 80, 123, 131	0
27	B2	71/72 (98%)	4.22	45 (63%)	0	1	77, 116, 150, 161	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å ²)	Q<0.9
27	D2	71/72 (98%)	1.03	10 (14%)	3	3	95, 119, 146, 163	0
28	B3	60/60 (100%)	1.68	19 (31%)	1	1	63, 88, 114, 135	0
28	D3	60/60 (100%)	2.13	25 (41%)	1	1	64, 89, 114, 134	0
29	B4	58/71 (81%)	1.35	12 (20%)	1	2	76, 135, 220, 222	0
29	D4	58/71 (81%)	3.51	31 (53%)	0	1	77, 137, 220, 222	0
30	B5	59/60 (98%)	2.11	22 (37%)	1	1	52, 80, 153, 172	0
30	D5	59/60 (98%)	4.33	33 (55%)	0	1	52, 80, 153, 172	0
31	B6	50/54 (92%)	3.33	32 (64%)	0	1	56, 89, 107, 117	0
31	D6	50/54 (92%)	1.24	9 (18%)	2	2	56, 90, 108, 117	0
32	B7	49/49 (100%)	3.09	28 (57%)	0	1	47, 64, 119, 132	0
32	D7	49/49 (100%)	1.52	12 (24%)	1	2	47, 64, 120, 132	0
33	B8	64/65 (98%)	3.73	40 (62%)	0	1	63, 75, 105, 125	0
33	D8	64/65 (98%)	0.89	6 (9%)	9	7	65, 76, 105, 126	0
34	B9	37/37 (100%)	1.86	11 (29%)	1	1	60, 71, 85, 89	0
34	D9	37/37 (100%)	3.63	22 (59%)	0	1	60, 73, 87, 91	0
35	BA	2901/2915 (99%)	6.90	2693 (92%)	0	0	30, 76, 162, 221	0
35	DA	2901/2915 (99%)	4.56	2374 (81%)	0	1	29, 77, 162, 221	0
36	BB	119/122 (97%)	3.86	87 (73%)	0	1	65, 106, 138, 183	0
36	DB	119/122 (97%)	6.97	117 (98%)	0	0	66, 108, 138, 183	0
37	BC	228/229 (99%)	3.01	102 (44%)	1	1	42, 97, 147, 160	0
37	DC	228/229 (99%)	2.54	97 (42%)	1	1	43, 98, 148, 162	0
38	BD	275/276 (99%)	3.98	160 (58%)	0	1	31, 52, 82, 101	0
38	DD	275/276 (99%)	2.47	110 (40%)	1	1	32, 52, 82, 101	0
39	BE	205/206 (99%)	2.15	76 (37%)	1	1	44, 77, 128, 135	0
39	DE	205/206 (99%)	3.57	112 (54%)	0	1	44, 77, 128, 134	0
40	BF	208/210 (99%)	4.20	127 (61%)	0	1	53, 110, 166, 177	0
40	DF	208/210 (99%)	1.23	49 (23%)	1	2	53, 111, 166, 176	0
41	BG	181/182 (99%)	0.98	20 (11%)	6	6	63, 95, 131, 143	0
41	DG	181/182 (99%)	2.52	71 (39%)	1	1	86, 110, 137, 151	0
42	BH	167/180 (92%)	1.35	36 (21%)	1	2	81, 117, 143, 159	0
42	DH	167/180 (92%)	5.18	100 (59%)	0	1	81, 118, 143, 160	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)		Q<0.9
43	BJ	0/173	-	-	-	-	-
43	DJ	0/173	-	-	-	-	-
44	BK	140/147 (95%)	2.15	44 (31%)	1	1	162, 180, 186, 188
44	DK	140/147 (95%)	3.23	68 (48%)	1	1	162, 180, 186, 187
45	BL	0/125	-	-	-	-	-
45	BM	0/125	-	-	-	-	-
45	Bl	0/125	-	-	-	-	-
45	Bm	0/125	-	-	-	-	-
45	DL	0/125	-	-	-	-	-
45	DM	0/125	-	-	-	-	-
45	Dl	0/125	-	-	-	-	-
45	Dm	0/125	-	-	-	-	-
46	BN	139/140 (99%)	1.08	19 (13%)	4	4	60, 91, 132, 137
46	DN	139/140 (99%)	3.04	77 (55%)	0	1	61, 91, 132, 137
47	BO	122/122 (100%)	3.12	64 (52%)	0	1	35, 60, 73, 86
47	DO	122/122 (100%)	3.12	70 (57%)	0	1	36, 61, 73, 88
48	BP	146/150 (97%)	3.96	89 (60%)	0	1	46, 111, 137, 157
48	DP	146/150 (97%)	0.87	13 (8%)	10	7	50, 113, 137, 157
49	BQ	141/141 (100%)	2.17	54 (38%)	1	1	45, 65, 88, 119
49	DQ	141/141 (100%)	2.45	58 (41%)	1	1	45, 66, 89, 120
50	BR	117/118 (99%)	3.62	70 (59%)	0	1	49, 81, 101, 128
50	DR	117/118 (99%)	2.55	54 (46%)	1	1	53, 82, 101, 128
51	BS	99/112 (88%)	1.05	17 (17%)	2	2	82, 116, 140, 144
51	DS	99/112 (88%)	1.51	27 (27%)	1	2	83, 117, 141, 145
52	BT	138/146 (94%)	3.26	65 (47%)	1	1	55, 83, 149, 176
52	DT	138/146 (94%)	2.63	66 (47%)	1	1	57, 84, 149, 177
53	BU	117/118 (99%)	1.14	16 (13%)	4	4	62, 80, 114, 135
53	DU	117/118 (99%)	3.36	58 (49%)	1	1	62, 81, 115, 134
54	BV	101/101 (100%)	1.42	24 (23%)	1	2	59, 116, 133, 141
54	DV	101/101 (100%)	3.81	55 (54%)	0	1	61, 116, 134, 140
55	BW	113/113 (100%)	2.44	50 (44%)	1	1	61, 79, 119, 158
55	DW	113/113 (100%)	1.37	30 (26%)	1	2	63, 80, 120, 159
56	BX	93/96 (96%)	3.10	42 (45%)	1	1	76, 91, 110, 114
56	DX	93/96 (96%)	1.32	21 (22%)	1	2	76, 92, 111, 114

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
57	BY	107/110 (97%)	3.38	60 (56%) 0 1	78, 127, 149, 155	0
57	DY	107/110 (97%)	1.90	34 (31%) 1 1	78, 127, 149, 155	0
58	BZ	185/206 (89%)	1.83	56 (30%) 1 1	47, 90, 135, 143	0
58	DZ	185/206 (89%)	2.68	77 (41%) 1 1	68, 99, 138, 146	0
All	All	22798/24788 (91%)	3.92	13852 (60%) 0 1	23, 82, 155, 222	0

All (13852) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
35	BA	63	U	39.5
35	BA	1691	C	37.2
35	BA	2110	G	35.1
3	AC	169	ALA	34.7
1	AA	295	C	34.3
1	AA	508	C	33.9
35	BA	1308	A	33.5
35	BA	1747	G	32.7
1	AA	239	U	32.4
35	BA	1337	G	32.2
35	BA	64	A	32.0
35	BA	1946	U	32.0
35	BA	1442	G	31.9
35	DA	2686	G	31.5
35	BA	598	G	30.5
35	BA	1907	G	29.9
1	AA	610	G	29.9
36	DB	56	G	29.8
35	BA	1765	C	29.3
35	BA	400	G	29.3
35	DA	1008	C	29.2
35	DA	2687	U	29.1
35	BA	133	C	28.8
1	AA	293	G	28.6
35	BA	489	G	28.6
35	BA	1551	C	28.3
1	AA	294	U	28.1
35	BA	1440	G	28.0
35	BA	1441	G	27.9
35	DA	1772	G	27.8
35	BA	1766	U	27.8
35	BA	1473	G	27.5

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Mol	Chain	Res	Type	RSRZ
35	BA	401	A	27.5
35	BA	2096	U	27.4
35	BA	399	G	27.3
35	BA	1453	U	27.3
22	AW	75	C	27.3
5	AE	86	ALA	27.2
35	BA	950	G	27.1
1	CA	437	U	27.0
1	AA	637	G	27.0
1	AA	1075	C	26.9
35	BA	73	A	26.8
35	BA	271(H)	G	26.8
35	BA	1815	A	26.8
38	BD	167	GLY	26.8
1	CA	514	C	26.6
1	CA	1198	G	26.5
35	BA	402	A	26.3
35	DA	2530	A	26.3
35	BA	210	C	26.2
1	AA	123	C	26.2
35	BA	374	A	26.0
1	AA	1096	C	26.0
30	D5	33	CYS	25.9
35	BA	1451	C	25.7
35	BA	837	C	25.7
35	BA	188	G	25.6
1	AA	292	G	25.5
1	AA	874	G	25.4
35	BA	314	A	25.4
35	BA	2086	U	25.3
35	BA	2085	C	25.3
1	AA	776	G	25.1
35	BA	1596	A	25.1
1	AA	144	G	24.9
35	DA	1664	A	24.8
35	DA	2531	A	24.7
35	DA	970	C	24.7
1	AA	717	C	24.7
35	BA	1276	A	24.7
1	AA	442	C	24.7
35	DA	1796	U	24.6
35	BA	767	U	24.6

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Mol	Chain	Res	Type	RSRZ
35	BA	1398	C	24.6
1	AA	352	C	24.6
1	AA	1485	U	24.6
35	BA	575	A	24.5
1	AA	238	G	24.5
35	BA	77	C	24.5
35	BA	1579	A	24.4
23	AX	11	U	24.3
35	BA	2191	G	24.3
35	BA	264	C	24.2
1	CA	1199	U	24.1
35	DA	877	U	24.0
35	BA	667	U	23.9
35	BA	313	C	23.9
35	BA	1384	A	23.9
35	BA	1981	A	23.9
1	AA	1065	U	23.8
29	D4	58	ARG	23.7
42	DH	178	ALA	23.7
35	BA	1795	C	23.7
1	AA	194	C	23.6
1	AA	1379	G	23.5
35	BA	118	A	23.5
1	AA	914	A	23.5
35	BA	2162	G	23.4
35	BA	616	G	23.4
36	DB	21	G	23.3
35	BA	1745	C	23.3
1	CA	964	A	23.3
1	AA	91	C	23.2
35	BA	2165	G	23.2
35	BA	764	A	23.2
35	DA	1914	C	23.1
35	BA	967	C	23.1
1	AA	1401	G	23.1
35	BA	1925	C	23.0
35	BA	1505	C	23.0
1	CA	963	G	23.0
35	BA	654(D)	G	22.9
1	AA	611	A	22.9
35	BA	2173	A	22.9
1	AA	23	C	22.9

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Mol	Chain	Res	Type	RSRZ
1	AA	368	U	22.9
1	AA	1528	U	22.8
1	AA	562	C	22.8
35	BA	272(A)	U	22.8
35	BA	2089	U	22.7
35	DA	9	U	22.7
35	DA	1500	G	22.7
35	BA	187	G	22.6
35	BA	263	C	22.6
35	BA	1552	G	22.6
1	AA	30	U	22.5
35	BA	74	A	22.5
1	AA	306	G	22.4
35	BA	1690	A	22.3
35	BA	398	G	22.3
35	BA	593	G	22.3
1	CA	1329	A	22.2
22	AW	44	A	22.2
35	BA	296	C	22.2
1	AA	1414	U	22.2
35	DA	1120	G	22.1
1	AA	1463	C	22.1
1	AA	1415	G	22.1
1	AA	925	G	22.0
35	DA	2538	C	21.9
41	DG	111	LEU	21.9
35	BA	1495	A	21.9
35	BA	1744	C	21.7
35	BA	1544	A	21.7
1	AA	129(A)	G	21.7
35	BA	943	U	21.7
35	BA	968	G	21.7
35	BA	2164	C	21.7
1	AA	189(F)	U	21.7
7	AG	125	MET	21.6
35	DA	1146	C	21.6
1	AA	1292	U	21.6
1	AA	120	A	21.6
2	AB	237	ALA	21.6
38	BD	55	GLY	21.5
1	AA	63	C	21.5
35	BA	596	G	21.3

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Mol	Chain	Res	Type	RSRZ
35	DA	2556	C	21.3
1	AA	902	G	21.3
35	BA	1303	G	21.3
1	AA	276	G	21.3
35	BA	58	G	21.2
1	CA	624	C	21.2
35	BA	1430	C	21.2
1	CA	1232	U	21.1
1	AA	1164	G	21.1
1	AA	507	C	21.1
1	CA	1330	U	21.1
1	AA	53	A	21.1
1	AA	80	G	21.1
35	BA	2860	A	21.0
35	BA	453	C	21.0
35	BA	2157	G	21.0
36	DB	62	C	21.0
35	BA	1403	C	21.0
1	AA	1474	G	20.9
1	AA	54	C	20.9
35	BA	1751	C	20.9
35	BA	1578	U	20.8
1	CA	1136	U	20.7
1	AA	861	G	20.7
1	AA	143	A	20.7
35	BA	1606	G	20.6
1	AA	777	A	20.6
35	BA	1338	G	20.6
1	AA	26	A	20.5
35	BA	1457	A	20.5
1	AA	1076	C	20.5
3	AC	109	PRO	20.4
35	BA	1400	G	20.4
1	CA	1433	A	20.4
1	AA	1475	G	20.3
35	BA	2153	G	20.3
35	BA	262	A	20.3
35	BA	1553	A	20.2
35	BA	1982	C	20.1
1	AA	687	A	20.0
1	AA	121	C	20.0
1	AA	493	G	20.0

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Mol	Chain	Res	Type	RSRZ
35	BA	2177	C	20.0
35	BA	491	G	19.9
35	DA	560	C	19.9
35	BA	2105	C	19.9
2	AB	78	GLN	19.9
48	BP	59	LEU	19.9
35	DA	1499	C	19.8
35	BA	1386	C	19.8
36	DB	61	G	19.8
35	BA	1764	G	19.7
22	AW	3	C	19.7
35	BA	2597	G	19.7
35	BA	157	U	19.7
42	DH	133	VAL	19.7
17	AQ	33	GLY	19.6
1	AA	64	G	19.6
1	AA	1486	G	19.6
35	BA	1622	G	19.6
35	BA	1577	C	19.6
35	BA	696	G	19.5
35	BA	654(F)	C	19.5
35	BA	918	A	19.5
1	CA	1314	C	19.5
1	AA	89	C	19.4
24	CY	544	LYS	19.4
35	BA	1924	C	19.4
3	AC	14	ILE	19.4
1	CA	1308	U	19.4
1	CA	1246	C	19.4
2	AB	241	GLU	19.4
35	BA	342	G	19.4
35	DA	2673	G	19.4
40	BF	111	ALA	19.3
35	BA	35	G	19.3
35	BA	343	C	19.3
35	BA	1908	C	19.3
1	AA	290	C	19.3
36	DB	104	U	19.3
35	BA	1550	C	19.2
26	B1	22	GLY	19.2
1	AA	307	C	19.2
1	AA	122	G	19.2

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Mol	Chain	Res	Type	RSRZ
35	BA	1316	U	19.2
35	BA	2836	U	19.2
35	BA	2087	G	19.2
1	AA	756	C	19.2
1	AA	446	G	19.1
35	BA	470	A	19.1
35	BA	821	A	19.1
35	DA	2629	A	19.1
35	BA	1368	G	19.1
35	DA	2768	C	19.1
35	BA	174	C	19.1
35	BA	2229	C	19.1
1	AA	872	A	19.0
35	BA	2594	C	19.0
1	CA	948	C	19.0
35	BA	2593	U	19.0
35	BA	740	U	18.9
1	CA	1264	C	18.9
54	DV	36	PRO	18.9
1	AA	873	A	18.9
35	DA	2896	C	18.9
47	DO	100	GLY	18.9
35	BA	1689	A	18.9
35	BA	966	G	18.8
35	BA	1566	A	18.8
35	BA	1307	A	18.8
35	DA	899	A	18.8
1	AA	337	C	18.8
35	BA	492	A	18.7
35	DA	2128	C	18.7
35	BA	765	G	18.7
35	BA	712	G	18.7
1	AA	1483	A	18.7
35	BA	149	A	18.7
35	BA	1385	G	18.7
1	CA	1324	A	18.6
42	DH	175	LYS	18.6
35	BA	375	C	18.5
13	CM	100	GLY	18.5
35	BA	2441	C	18.5
35	BA	1814	G	18.5
1	AA	200	G	18.4

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Mol	Chain	Res	Type	RSRZ
35	BA	139	G	18.4
35	DA	2883	A	18.4
1	AA	1092	A	18.4
35	BA	1597	A	18.4
47	BO	83	ALA	18.3
35	DA	2747	G	18.3
35	BA	1302	A	18.3
35	BA	1256	G	18.3
35	BA	739	G	18.3
13	CM	86	CYS	18.3
1	CA	1065	U	18.3
35	DA	1978	A	18.3
35	BA	1351	C	18.3
1	AA	775	G	18.2
1	CA	1216	G	18.2
35	BA	411	G	18.2
35	BA	1614	A	18.2
1	CA	41	G	18.2
35	BA	2186	G	18.2
53	DU	69	CYS	18.2
35	BA	373	U	18.2
1	AA	90	U	18.2
35	BA	1674	G	18.2
1	CA	1479	C	18.2
1	CA	544	G	18.2
35	BA	2239	G	18.2
35	BA	311	A	18.1
1	AA	1124	G	18.1
5	AE	110	LEU	18.1
13	CM	33	ALA	18.1
35	BA	599	G	18.1
22	AV	35	A	18.1
35	BA	2077	A	18.1
20	AT	73	HIS	18.0
40	BF	193	VAL	17.9
35	DA	1136	G	17.9
1	AA	1350	A	17.9
1	CA	1110	A	17.8
1	CA	1483	A	17.8
1	AA	226	G	17.8
24	CY	645	ALA	17.8
40	BF	10	PRO	17.8

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Mol	Chain	Res	Type	RSRZ
35	BA	1443	G	17.8
35	BA	2238	G	17.7
1	CA	1402	C	17.7
35	BA	1477	A	17.7
35	BA	1555	G	17.7
35	BA	666	G	17.7
35	BA	2499	C	17.7
1	AA	138	G	17.7
35	BA	2516	G	17.7
42	DH	166	GLY	17.7
35	BA	2256	G	17.7
35	BA	2327	A	17.7
1	AA	809	G	17.6
1	CA	1286	A	17.6
8	AH	78	GLN	17.6
35	BA	76	C	17.6
11	AK	119	CYS	17.6
35	BA	255	A	17.6
1	AA	871	U	17.6
39	DE	88	GLY	17.5
1	AA	12	U	17.5
11	AK	93	GLN	17.5
35	BA	135	G	17.5
35	BA	597	U	17.5
1	AA	456	C	17.5
35	BA	2574	G	17.5
1	AA	8	A	17.4
35	DA	8	A	17.4
35	BA	1987	G	17.4
27	B2	65	ASN	17.4
17	AQ	80	GLY	17.4
35	DA	1042	G	17.4
35	BA	457	A	17.4
22	AW	38	A	17.4
54	DV	62	LEU	17.4
30	D5	35	GLU	17.4
2	AB	133	LYS	17.4
36	DB	23	G	17.4
35	BA	1607	C	17.3
35	BA	1699	G	17.3
1	CA	618	C	17.3
35	BA	1882	C	17.3

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Mol	Chain	Res	Type	RSRZ
35	DA	719	C	17.3
9	AI	12	GLU	17.3
1	AA	506	G	17.3
22	AW	41	C	17.3
1	CA	1270	C	17.3
33	B8	51	ALA	17.2
35	DA	1769	G	17.2
35	BA	2263	C	17.2
35	BA	226	G	17.2
27	B2	66	GLU	17.2
35	BA	272(F)	C	17.2
35	BA	1399	C	17.2
1	AA	1074	G	17.1
35	BA	1318	C	17.1
24	CY	690	GLY	17.1
35	BA	759	G	17.1
1	AA	749	C	17.0
35	BA	1961	C	17.0
1	CA	1309	G	17.0
35	BA	2791	C	17.0
1	AA	282	A	17.0
35	BA	1506	C	17.0
35	BA	1562	A	17.0
35	BA	838	C	17.0
35	BA	2057	A	17.0
35	DA	2726	U	17.0
35	BA	287	C	16.9
35	BA	2587	A	16.9
35	DA	2607	G	16.9
38	BD	56	GLY	16.9
35	BA	1549	C	16.9
36	BB	35	U	16.9
1	AA	354	G	16.9
1	AA	310	G	16.9
1	AA	382	A	16.8
35	DA	1007	C	16.8
35	BA	897	C	16.8
35	BA	2067	G	16.8
35	DA	2522	U	16.8
1	AA	40	C	16.8
36	DB	22	U	16.8
8	AH	65	TYR	16.8

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Mol	Chain	Res	Type	RSRZ
35	DA	1795	C	16.8
35	BA	2119	A	16.8
24	CY	585	ALA	16.8
35	BA	269	U	16.7
1	AA	1442(A)	G	16.7
35	DA	981	A	16.7
35	BA	2575	C	16.7
1	AA	320	C	16.7
35	BA	62	C	16.7
35	DA	1491	G	16.7
35	DA	2126	A	16.7
35	BA	1497	U	16.6
35	BA	53	A	16.6
1	AA	277	C	16.6
35	BA	1750	G	16.6
1	AA	750	G	16.6
35	BA	145	G	16.6
1	CA	1307	U	16.6
35	BA	601	C	16.6
35	BA	919	G	16.6
35	BA	2674	G	16.6
35	DA	1822	G	16.6
1	AA	1146	A	16.5
35	BA	429	A	16.5
35	BA	1780	A	16.5
1	AA	806	C	16.5
36	DB	6	C	16.5
1	AA	1102	A	16.5
35	BA	1401	G	16.5
1	CA	1231	G	16.5
35	BA	2592	G	16.5
38	BD	174	ILE	16.4
1	AA	316	G	16.4
22	AW	40	C	16.4
1	AA	684	A	16.4
1	AA	309	G	16.4
35	DA	1982	C	16.4
1	CA	984	C	16.4
1	AA	22	G	16.4
35	DA	2532	G	16.4
35	BA	1086	A	16.4
56	BX	85	PRO	16.3

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Mol	Chain	Res	Type	RSRZ
40	BF	189	THR	16.3
1	AA	642	A	16.3
35	BA	139(A)	G	16.3
1	CA	1140	C	16.3
35	DA	534	U	16.3
1	AA	458	C	16.3
35	BA	713	G	16.3
22	AV	17	C	16.3
20	AT	66	ALA	16.2
35	DA	2519	U	16.2
38	BD	119	ALA	16.2
24	CY	545	GLY	16.2
1	AA	1466	C	16.2
35	DA	2737	G	16.2
35	DA	1497	U	16.2
35	BA	142(A)	C	16.2
1	AA	1162	C	16.1
35	BA	1447	G	16.1
1	AA	308	C	16.1
1	AA	1470	G	16.1
35	BA	1485	G	16.1
1	AA	715	A	16.1
35	BA	1917	U	16.1
38	BD	166	GLN	16.0
3	AC	50	ALA	16.0
35	BA	1559	G	16.0
1	CA	987	G	16.0
42	DH	123	PHE	16.0
22	AV	23	C	16.0
1	AA	901	A	15.9
35	BA	1713	U	15.9
35	BA	1945	G	15.9
35	BA	2241	A	15.9
35	BA	2128	C	15.9
35	DA	1105	U	15.9
35	BA	186	G	15.9
35	BA	1883	G	15.9
56	BX	84	ALA	15.9
37	DC	208	THR	15.9
58	DZ	98	MET	15.9
1	AA	1227	A	15.9
35	BA	340	A	15.8

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Mol	Chain	Res	Type	RSRZ
35	DA	1482	G	15.8
35	DA	896	A	15.8
1	CA	384	G	15.8
24	CY	524	GLU	15.8
24	CY	66	THR	15.8
1	AA	558	G	15.8
35	BA	2630	G	15.8
1	AA	11	G	15.8
35	DA	1578	U	15.8
35	BA	121	G	15.7
1	CA	1328	C	15.7
35	BA	939	G	15.7
35	BA	1973	G	15.7
35	BA	1821	A	15.7
35	BA	75	G	15.7
35	BA	1535	A	15.7
1	AA	705	U	15.7
35	BA	271(P)	C	15.6
47	BO	92	GLU	15.6
24	CY	64	THR	15.6
1	CA	1269	A	15.6
35	BA	2487	G	15.6
39	DE	18	ASP	15.6
2	AB	172	ILE	15.6
1	AA	817	C	15.6
1	AA	65	U	15.6
35	BA	836	G	15.5
35	BA	1480	G	15.5
35	BA	452	G	15.5
35	BA	618	C	15.5
35	DA	1802	A	15.5
35	DA	1916	A	15.5
35	DA	989	G	15.5
1	CA	970	C	15.5
35	BA	450	G	15.5
35	BA	2454	G	15.5
1	CA	360	A	15.5
35	DA	2767	C	15.4
35	BA	271(M)	G	15.4
35	BA	1919	A	15.4
1	CA	1214	C	15.4
14	CN	30	ALA	15.4

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Mol	Chain	Res	Type	RSRZ
35	BA	2439	A	15.4
35	DA	1017	G	15.4
37	BC	224	ARG	15.4
35	DA	2465	C	15.4
35	BA	1335	U	15.4
24	AY	543	GLN	15.4
24	CY	688	ILE	15.4
35	BA	951	C	15.4
35	DA	900	A	15.4
35	BA	1405	U	15.3
38	BD	81	ALA	15.3
1	AA	193	C	15.3
37	DC	207	GLY	15.3
35	BA	849	A	15.3
35	BA	363(D)	G	15.3
35	BA	1980	G	15.3
56	BX	74	PRO	15.3
35	BA	271(I)	G	15.3
35	DA	2529	G	15.3
8	AH	28	ALA	15.3
1	AA	52	G	15.3
35	DA	2511	U	15.2
1	CA	43	C	15.2
35	BA	2112	G	15.2
35	DA	2766	G	15.2
1	CA	1342	C	15.2
1	CA	983	A	15.2
35	BA	574	C	15.2
19	CS	79	THR	15.2
42	DH	135	GLY	15.2
4	AD	3	ARG	15.2
1	AA	1378	C	15.2
42	DH	174	GLY	15.2
35	BA	175	G	15.2
1	AA	195	A	15.2
47	DO	96	THR	15.2
35	BA	271(F)	C	15.1
1	CA	1348	U	15.1
5	AE	85	GLY	15.1
35	BA	1450(A)	C	15.1
1	CA	986	A	15.1
19	CS	57	HIS	15.1

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Mol	Chain	Res	Type	RSRZ
35	BA	189	G	15.1
35	BA	2595	G	15.1
37	BC	124	VAL	15.1
35	BA	2591	C	15.1
35	BA	697	C	15.1
35	DA	6	A	15.1
8	AH	79	VAL	15.1
40	BF	7	TYR	15.1
35	BA	576	U	15.1
2	AB	180	LEU	15.1
19	CS	80	TYR	15.1
42	DH	177	GLY	15.0
35	BA	2705	A	15.0
2	AB	135	GLN	15.0
13	CM	37	THR	15.0
35	BA	136	G	15.0
35	BA	2088	G	15.0
1	AA	1416	G	15.0
35	BA	1350	C	15.0
40	BF	130	ALA	15.0
35	BA	2063	C	15.0
35	BA	1209	G	15.0
1	AA	1488	G	14.9
35	BA	1456	G	14.9
1	AA	179	A	14.9
17	AQ	29	HIS	14.9
1	AA	583	A	14.9
35	BA	1412	A	14.9
35	DA	2809	A	14.9
35	BA	1439	A	14.9
35	BA	1499	C	14.9
35	BA	2510	C	14.9
35	BA	2567	G	14.8
15	AO	41	GLU	14.8
7	AG	129	GLU	14.8
35	BA	1116	C	14.8
42	DH	65	HIS	14.8
44	BK	17	ALA	14.8
48	BP	143	GLY	14.8
35	BA	2512	C	14.8
1	AA	423	G	14.8
35	BA	2280	G	14.8

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Mol	Chain	Res	Type	RSRZ
22	AV	62	C	14.8
1	AA	582	U	14.8
38	BD	173	VAL	14.8
1	AA	807	A	14.8
35	BA	2611	U	14.7
53	DU	42	ALA	14.7
24	AY	638	GLY	14.7
39	DE	136	ARG	14.7
35	BA	1406	U	14.7
35	BA	1702	G	14.7
44	DK	82	ALA	14.7
22	AW	43	G	14.7
35	BA	385	C	14.7
1	AA	751	U	14.7
35	DA	2476	A	14.7
22	AW	57	C	14.7
35	BA	176	G	14.7
9	AI	91	ASP	14.6
35	BA	2278	A	14.6
1	CA	1008	C	14.6
35	BA	1563	G	14.6
35	BA	2370	G	14.6
7	AG	126	ASP	14.6
35	DA	1913	A	14.6
35	BA	1747(A)	G	14.6
11	AK	17	GLY	14.6
35	BA	1246	A	14.6
50	BR	16	HIS	14.6
27	B2	31	GLU	14.6
35	DA	2761	G	14.6
50	BR	63	ARG	14.6
35	DA	1109	C	14.6
4	CD	135	LEU	14.6
38	BD	57	GLY	14.6
2	AB	110	GLN	14.6
26	B1	29	GLY	14.6
35	DA	1663	C	14.6
52	BT	138	ALA	14.5
10	AJ	25	GLU	14.5
42	DH	62	LYS	14.5
38	BD	168	ARG	14.5
2	AB	207	ALA	14.5

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Mol	Chain	Res	Type	RSRZ
35	BA	47	C	14.5
5	AE	112	LEU	14.5
35	BA	1408	C	14.5
35	BA	2118	U	14.5
24	CY	622	GLY	14.5
35	BA	2058	A	14.5
5	AE	115	VAL	14.5
7	AG	6	ARG	14.5
1	CA	361	G	14.5
37	BC	186	LEU	14.5
35	BA	724	U	14.5
35	BA	1854	A	14.5
35	BA	2062	A	14.5
1	CA	1326	C	14.4
30	D5	36	CYS	14.4
35	DA	2568	C	14.4
35	DA	2680	C	14.4
35	DA	536	A	14.4
35	BA	1752	C	14.4
1	AA	695	A	14.4
35	DA	1952	A	14.4
35	BA	1796	U	14.4
38	DD	220	HIS	14.4
10	AJ	69	ASN	14.4
13	CM	101	GLN	14.4
1	AA	906	G	14.4
42	DH	48	GLY	14.3
1	AA	1422	G	14.3
1	AA	1489	G	14.3
35	BA	1290	C	14.3
2	AB	132	LYS	14.3
35	BA	430	G	14.3
35	BA	1803	A	14.3
35	BA	1389	G	14.3
1	AA	509	A	14.3
35	DA	969	U	14.3
35	BA	2579	C	14.3
35	BA	384	U	14.3
35	DA	2560	C	14.3
42	DH	173	PRO	14.3
35	BA	1115	G	14.3
35	BA	2237	G	14.3

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Mol	Chain	Res	Type	RSRZ
1	AA	189(I)	G	14.2
35	DA	559	G	14.2
8	AH	52	ASP	14.2
35	BA	969	U	14.2
35	BA	820	A	14.2
35	BA	2185	C	14.2
22	CW	9	G	14.2
22	AV	48	C	14.2
18	AR	50	ILE	14.2
2	AB	108	ILE	14.2
1	AA	664	G	14.2
35	BA	2246	G	14.2
35	BA	134	C	14.2
52	BT	88	ILE	14.1
35	DA	2769	C	14.1
26	B1	41	ARG	14.1
1	AA	714	G	14.1
35	BA	493	G	14.1
1	AA	16	A	14.1
35	DA	2464	C	14.1
35	BA	1594	G	14.1
35	BA	1282	U	14.1
35	BA	2139	C	14.1
23	AX	13	A	14.1
22	CW	24	C	14.1
30	D5	34	PRO	14.1
35	BA	1369	G	14.1
9	AI	87	GLN	14.1
1	AA	1161	C	14.1
1	AA	317	G	14.1
35	BA	716	A	14.1
22	AW	77	A	14.1
1	CA	1263	C	14.1
35	DA	1656	C	14.1
1	AA	278	G	14.0
1	AA	780	A	14.0
24	AY	354	ARG	14.0
3	CC	117	ALA	14.0
40	BF	171	PRO	14.0
35	BA	454	A	14.0
36	DB	73	A	14.0
1	AA	79	G	14.0

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Mol	Chain	Res	Type	RSRZ
9	AI	92	TYR	14.0
1	AA	291	C	14.0
1	CA	1344	C	14.0
35	DA	1655	A	14.0
35	BA	1450	G	14.0
35	BA	295	G	14.0
24	AY	633	GLY	14.0
1	CA	554	C	14.0
50	BR	57	ARG	14.0
50	DR	55	ALA	14.0
35	BA	720	C	13.9
22	AV	10	G	13.9
38	BD	19	ALA	13.9
7	AG	117	ALA	13.9
7	AG	29	LYS	13.9
1	AA	1338	G	13.9
35	BA	746	A	13.9
35	DA	2469	A	13.9
7	AG	80	VAL	13.9
35	BA	1817	G	13.9
1	AA	349	A	13.9
39	DE	92	THR	13.9
2	AB	171	ALA	13.9
35	BA	2016	U	13.9
35	DA	2674	G	13.9
52	BT	134	GLU	13.8
26	B1	56	GLN	13.8
19	CS	50	ALA	13.8
23	CX	19	U	13.8
58	DZ	88	PHE	13.8
1	AA	260	G	13.8
1	AA	1171	G	13.8
1	AA	1487	G	13.8
35	BA	371	A	13.8
1	CA	1313	U	13.8
1	AA	25	C	13.8
35	BA	1085	A	13.8
1	AA	796	C	13.8
35	BA	2236	C	13.8
35	BA	1561	G	13.8
40	BF	110	LEU	13.8
1	CA	1325	C	13.8

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Mol	Chain	Res	Type	RSRZ
31	B6	17	LYS	13.8
35	BA	2442	C	13.8
35	BA	1698	A	13.8
24	AY	356	LEU	13.8
35	BA	1708	C	13.8
35	BA	1861	G	13.8
35	BA	1178	C	13.8
15	AO	74	ASP	13.8
27	B2	58	ALA	13.8
35	BA	2156	G	13.8
35	BA	471	A	13.8
1	AA	887	G	13.7
1	AA	747	C	13.7
35	DA	1980	G	13.7
35	DA	1979	C	13.7
2	AB	175	ARG	13.7
35	BA	1057	A	13.7
54	DV	37	VAL	13.7
11	AK	104	GLN	13.7
35	BA	1348	G	13.7
35	DA	1666	G	13.7
2	AB	16	HIS	13.7
57	BY	103	GLY	13.7
35	DA	1961	C	13.7
35	BA	195	A	13.7
1	CA	1138	G	13.7
35	BA	686	G	13.7
35	DA	1910	G	13.7
35	BA	2074	U	13.6
1	CA	50	A	13.6
1	AA	447	G	13.6
35	BA	1494	A	13.6
35	BA	1228	G	13.6
3	AC	12	LEU	13.6
22	AV	14	A	13.6
37	BC	225	ILE	13.6
24	AY	253	LEU	13.6
36	DB	28	C	13.6
42	DH	53	GLU	13.6
1	CA	1395	C	13.6
35	BA	49	A	13.6
9	AI	5	TYR	13.6

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Mol	Chain	Res	Type	RSRZ
42	DH	60	ARG	13.6
35	BA	1557	C	13.6
26	B1	89	GLU	13.5
35	BA	448	U	13.5
29	D4	54	GLY	13.5
35	BA	440	G	13.5
35	BA	1530	C	13.5
24	AY	256	THR	13.5
1	AA	1390	U	13.5
1	AA	305	G	13.5
40	BF	15	SER	13.5
26	B1	83	GLU	13.5
1	CA	1200	C	13.5
3	AC	181	ASN	13.5
35	DA	2575	C	13.5
37	BC	174	ALA	13.5
35	BA	777	A	13.5
39	BE	177	PRO	13.4
23	AX	18	G	13.4
35	BA	458	G	13.4
36	DB	51	G	13.4
1	CA	949	A	13.4
35	BA	2072	G	13.4
35	DA	1463	C	13.4
1	CA	1201	A	13.4
35	DA	2679	A	13.4
1	AA	67	C	13.4
35	BA	2502	G	13.4
1	AA	1247	U	13.4
4	AD	117	ALA	13.4
37	BC	11	LEU	13.4
1	AA	939	G	13.4
1	AA	42	G	13.4
1	CA	306	G	13.4
11	AK	66	LEU	13.4
35	DA	2736	G	13.4
38	BD	65	ILE	13.4
9	AI	6	GLY	13.4
35	BA	2784	C	13.4
1	AA	602	A	13.3
1	AA	1423	G	13.3
1	CA	1503	A	13.3

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Mol	Chain	Res	Type	RSRZ
35	BA	1334	G	13.3
35	BA	2078	C	13.3
35	DA	2719	G	13.3
35	BA	246	C	13.3
35	BA	197	A	13.3
35	BA	1678	G	13.3
35	BA	147	U	13.3
35	BA	1381	G	13.3
35	BA	1668	A	13.3
39	BE	126	PRO	13.3
35	BA	1237	A	13.3
1	AA	96	U	13.3
42	DH	124	GLU	13.2
1	AA	102	G	13.2
35	BA	615	G	13.2
1	AA	696	A	13.2
35	BA	469	G	13.2
54	DV	96	ILE	13.2
1	CA	1349	A	13.2
35	BA	254	G	13.2
35	DA	2628	C	13.2
35	BA	1786	A	13.2
35	DA	7	G	13.2
35	DA	1903	G	13.2
35	BA	1507	A	13.2
54	DV	94	LEU	13.2
35	DA	1534	U	13.2
1	CA	1215	G	13.2
37	BC	157	ILE	13.2
35	BA	1536	C	13.2
1	AA	410	G	13.2
35	DA	2829	C	13.2
1	AA	9	G	13.2
35	DA	558	G	13.2
1	AA	679	C	13.2
1	AA	1452	C	13.2
35	BA	1802	A	13.2
24	AY	300	GLU	13.1
35	BA	1526	G	13.1
42	DH	82	GLY	13.1
1	AA	486	U	13.1
35	BA	848	G	13.1

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Mol	Chain	Res	Type	RSRZ
1	AA	229	U	13.1
11	AK	97	ALA	13.1
35	BA	1845	G	13.1
1	AA	487	A	13.1
35	BA	2174	C	13.1
26	B1	87	PRO	13.1
35	BA	302	C	13.1
1	AA	630	G	13.1
35	BA	1359	A	13.1
1	AA	728	A	13.1
1	CA	401	C	13.1
11	AK	96	ARG	13.1
53	DU	107	ALA	13.1
1	AA	247	G	13.1
10	AJ	68	HIS	13.1
35	BA	1745(A)	C	13.1
1	AA	1410	G	13.1
40	BF	16	GLY	13.0
35	BA	59	U	13.0
35	DA	1018	C	13.0
44	DK	73	PRO	13.0
44	DK	108	ALA	13.0
1	CA	1227	A	13.0
1	AA	251	G	13.0
35	DA	1915	U	13.0
35	BA	359	A	13.0
35	BA	1190	G	13.0
35	DA	2648	C	13.0
35	BA	1527	G	13.0
11	AK	30	VAL	13.0
35	BA	271	A	13.0
35	BA	1595	G	13.0
24	AY	325	LEU	13.0
4	AD	136	PRO	13.0
24	AY	287	PRO	13.0
44	BK	114	ASP	13.0
9	AI	83	ARG	13.0
35	BA	301	G	13.0
22	AV	4	G	12.9
1	AA	1149	C	12.9
1	AA	1447	A	12.9
35	BA	436	C	12.9

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Mol	Chain	Res	Type	RSRZ
35	DA	1490	A	12.9
35	DA	2641	G	12.9
9	AI	96	LEU	12.9
1	AA	189(A)	C	12.9
35	DA	2579	C	12.9
35	DA	1006	C	12.9
1	AA	41	G	12.9
2	AB	81	VAL	12.9
1	AA	609	A	12.9
1	AA	1206	G	12.9
22	AV	7	G	12.9
35	BA	390	A	12.9
35	DA	1162	G	12.9
35	DA	2833	G	12.9
35	BA	1305	C	12.9
35	BA	2404	C	12.9
35	BA	811	U	12.9
46	DN	94	HIS	12.9
37	BC	163	GLU	12.8
1	CA	419	C	12.8
1	AA	27	G	12.8
39	DE	9	VAL	12.8
42	DH	55	PRO	12.8
2	AB	103	THR	12.8
1	AA	1529	G	12.8
1	AA	59	A	12.8
1	CA	385	C	12.8
1	CA	1366	C	12.8
35	BA	237	C	12.8
35	BA	1110	G	12.8
35	BA	1388	G	12.8
8	AH	81	HIS	12.8
24	AY	209	ALA	12.8
58	DZ	145	GLU	12.8
8	AH	37	ARG	12.8
33	B8	9	GLY	12.8
3	CC	114	PRO	12.8
35	BA	1254	A	12.8
35	BA	654(E)	G	12.8
35	BA	78	A	12.8
35	DA	2541	A	12.8
58	DZ	176	PRO	12.8

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Mol	Chain	Res	Type	RSRZ
35	BA	28	A	12.8
35	DA	2814	C	12.8
38	BD	199	ALA	12.8
35	BA	2194	G	12.8
35	BA	1498	C	12.7
48	BP	48	PRO	12.7
44	DK	111	LYS	12.7
2	AB	140	HIS	12.7
22	AW	16	C	12.7
1	AA	1095	U	12.7
1	AA	1351	U	12.7
1	CA	973	G	12.7
35	BA	2104	G	12.7
53	DU	113	ALA	12.7
1	CA	794	A	12.7
35	BA	1994	C	12.7
41	DG	112	PRO	12.7
6	AF	18	GLN	12.7
35	BA	1479	G	12.7
1	AA	1377	A	12.7
35	BA	2438	U	12.7
42	DH	58	GLU	12.7
35	BA	1358	G	12.7
1	CA	1189	C	12.7
35	BA	2095	C	12.7
35	BA	2099	U	12.7
39	DE	36	ARG	12.7
26	B1	30	VAL	12.7
35	BA	654(O)	G	12.7
32	B7	15	THR	12.7
1	CA	408	A	12.7
35	BA	1918	A	12.7
1	AA	875	C	12.7
3	CC	16	ARG	12.7
42	DH	172	LYS	12.7
35	DA	996	A	12.7
35	DA	2672	G	12.7
17	AQ	47	PRO	12.7
1	AA	603	U	12.6
1	AA	35	G	12.6
35	DA	752	A	12.6
36	BB	36	C	12.6

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Mol	Chain	Res	Type	RSRZ
35	DA	885	C	12.6
38	BD	171	ASP	12.6
1	CA	1222	G	12.6
35	DA	1119	C	12.6
1	AA	1462	G	12.6
35	DA	1838	C	12.6
35	DA	1899	G	12.6
2	AB	56	ARG	12.6
35	BA	515	A	12.6
1	AA	103	C	12.6
54	DV	95	LEU	12.6
24	AY	496	LYS	12.6
35	BA	286	C	12.6
35	BA	1208	C	12.6
26	B1	51	VAL	12.6
47	DO	90	GLN	12.6
52	DT	17	THR	12.6
35	BA	1906	G	12.6
50	BR	60	LEU	12.6
35	BA	850	C	12.5
35	BA	271(A)	A	12.5
35	BA	151	C	12.5
35	BA	719	C	12.5
36	DB	24	G	12.5
1	AA	1163	C	12.5
35	BA	250	G	12.5
9	AI	89	ASN	12.5
1	AA	1513	A	12.5
38	BD	120	GLY	12.5
22	AW	46	G	12.5
1	CA	1416	G	12.5
3	AC	106	VAL	12.5
1	AA	476	G	12.5
35	DA	2125	G	12.5
1	AA	568	G	12.5
35	BA	2382	G	12.5
26	B1	85	LEU	12.5
35	BA	1407	C	12.5
26	B1	39	LYS	12.5
58	BZ	145	GLU	12.5
22	AW	39	A	12.5
37	BC	173	HIS	12.5

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Mol	Chain	Res	Type	RSRZ
1	AA	576	G	12.5
1	AA	228	A	12.4
22	AV	24	U	12.4
24	AY	133	ILE	12.4
1	AA	838	G	12.4
39	DE	87	GLU	12.4
1	AA	1121	U	12.4
35	BA	633	A	12.4
35	BA	451	C	12.4
1	AA	927	G	12.4
1	CA	807	A	12.4
1	CA	1014	A	12.4
35	BA	781	A	12.4
13	CM	42	ALA	12.4
1	AA	940	C	12.4
26	B1	68	PRO	12.4
46	DN	77	GLY	12.4
50	DR	13	HIS	12.4
20	AT	72	LEU	12.4
22	AW	76	C	12.4
35	BA	150	C	12.4
35	BA	1686	C	12.4
3	CC	155	GLY	12.4
50	BR	110	PRO	12.4
24	AY	369	LEU	12.4
44	BK	69	THR	12.4
1	AA	752	G	12.4
35	DA	1002	G	12.4
35	BA	228	A	12.4
35	BA	2071	A	12.4
1	AA	1105	A	12.4
1	AA	1147	C	12.4
35	BA	1333	C	12.4
35	DA	2442	C	12.3
1	AA	190	U	12.3
1	AA	559	A	12.3
5	AE	104	ALA	12.3
1	CA	1050	G	12.3
35	DA	2831	G	12.3
9	AI	99	LEU	12.3
35	BA	1257	C	12.3
35	DA	1489	U	12.3

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Mol	Chain	Res	Type	RSRZ
1	AA	1493	A	12.3
1	CA	1401	G	12.3
35	BA	2220	G	12.3
35	DA	2493	U	12.3
1	AA	818	G	12.3
50	BR	70	LEU	12.3
35	BA	1558	A	12.3
35	BA	1700	A	12.3
40	BF	121	GLY	12.3
1	AA	1085	U	12.3
42	DH	139	GLN	12.3
1	AA	778	G	12.2
11	AK	40	ILE	12.2
48	BP	61	ARG	12.2
35	DA	997	G	12.2
10	AJ	84	GLN	12.2
1	CA	959	A	12.2
35	BA	1367	A	12.2
35	BA	1746	G	12.2
36	DB	72	G	12.2
47	BO	58	VAL	12.2
35	BA	142	A	12.2
35	BA	1336	A	12.2
35	BA	1258	C	12.2
35	BA	1965	C	12.2
24	CY	464	ASP	12.2
49	DQ	137	TYR	12.2
40	BF	118	ALA	12.2
54	DV	14	VAL	12.2
35	BA	711	G	12.2
35	BA	1104	C	12.2
35	BA	1564	C	12.2
35	BA	1645	G	12.2
35	BA	2573	C	12.2
35	DA	2567	G	12.2
36	DB	103	G	12.2
4	AD	118	ARG	12.2
1	AA	1063	C	12.2
35	BA	291	C	12.2
1	AA	1145	C	12.2
24	CY	496	LYS	12.1
42	DH	54	ARG	12.1

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Mol	Chain	Res	Type	RSRZ
1	AA	1512	U	12.1
1	AA	712	A	12.1
1	CA	1362	C	12.1
35	BA	770	G	12.1
35	BA	1383	C	12.1
24	CY	680	PRO	12.1
36	DB	29	A	12.1
35	BA	654(M)	C	12.1
1	AA	1160	G	12.1
35	DA	11	G	12.1
1	AA	716	A	12.1
1	AA	1123	A	12.1
35	BA	793	A	12.1
1	AA	1479	C	12.1
35	BA	600	G	12.1
35	DA	2484	G	12.1
42	DH	121	ILE	12.1
35	DA	2884	U	12.1
49	DQ	39	PRO	12.1
1	AA	1248	A	12.1
2	AB	141	GLU	12.1
1	AA	1436	U	12.1
38	BD	106	ILE	12.0
47	BO	21	CYS	12.0
41	DG	44	GLY	12.0
35	BA	120	U	12.0
1	AA	929	G	12.0
24	AY	380	LEU	12.0
1	AA	24	U	12.0
1	AA	338	A	12.0
1	AA	643	C	12.0
1	AA	1031	G	12.0
1	AA	1530	G	12.0
35	BA	714	U	12.0
35	BA	2403	C	12.0
15	AO	40	SER	12.0
1	AA	29	G	12.0
35	BA	141	A	12.0
35	BA	1255	U	12.0
4	AD	138	TYR	12.0
1	AA	1484	C	12.0
39	DE	26	ILE	12.0

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Mol	Chain	Res	Type	RSRZ
35	BA	245	G	12.0
35	BA	1679	U	12.0
40	BF	21	ALA	12.0
1	CA	513	C	12.0
1	CA	1331	G	12.0
57	BY	76	CYS	12.0
21	AU	26	LYS	12.0
35	BA	1779	U	12.0
35	BA	265	A	11.9
35	BA	1449	A	11.9
35	BA	2247	A	11.9
35	DA	1296	G	11.9
35	DA	1907	G	11.9
35	BA	2283	C	11.9
7	AG	121	ALA	11.9
5	AE	114	GLY	11.9
4	CD	55	ALA	11.9
4	AD	113	SER	11.9
34	D9	28	GLU	11.9
53	DU	99	ALA	11.9
1	AA	1104	G	11.9
19	CS	81	ARG	11.9
35	DA	1566	A	11.9
48	BP	60	MET	11.9
35	DA	1003	G	11.9
37	DC	198	GLU	11.9
35	BA	942	G	11.9
35	BA	1275	A	11.9
5	CE	46	GLY	11.9
24	CY	682	GLN	11.9
35	DA	526	A	11.9
36	BB	90	A	11.9
13	CM	26	GLY	11.9
2	AB	36	ARG	11.9
13	CM	81	LEU	11.9
48	BP	64	LYS	11.9
50	BR	66	VAL	11.9
1	AA	240	C	11.9
35	BA	683	C	11.9
1	AA	243	A	11.8
35	BA	1365	A	11.8
13	CM	110	ARG	11.8

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Mol	Chain	Res	Type	RSRZ
35	BA	947	G	11.8
1	CA	58	C	11.8
35	BA	1804	C	11.8
24	CY	653	PHE	11.8
1	AA	431	A	11.8
35	BA	1379	A	11.8
26	B1	84	GLY	11.8
35	BA	132	G	11.8
35	BA	2276	G	11.8
35	DA	1670	C	11.8
35	DA	2815	C	11.8
41	DG	6	ALA	11.8
9	AI	8	GLY	11.8
35	BA	437	G	11.8
35	DA	2718	G	11.8
39	DE	114	ALA	11.8
22	AW	19	G	11.8
35	DA	2131	G	11.8
35	DA	1684	C	11.8
35	BA	941	A	11.8
35	BA	2120	G	11.8
35	BA	2193	G	11.8
38	BD	88	ARG	11.8
35	DA	1859	A	11.8
14	CN	31	ARG	11.8
35	BA	769	G	11.8
35	BA	718	A	11.8
35	DA	1127	A	11.8
35	BA	315	G	11.8
36	DB	101	G	11.8
1	CA	547	A	11.8
35	BA	282	A	11.8
1	AA	475	G	11.7
1	CA	962	C	11.7
35	DA	2819	G	11.7
36	DB	57	A	11.7
35	DA	2586	C	11.7
4	AD	181	MET	11.7
35	DA	980	A	11.7
3	AC	71	ALA	11.7
1	CA	1077	G	11.7
56	BX	73	ARG	11.7

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Mol	Chain	Res	Type	RSRZ
57	BY	80	GLY	11.7
2	AB	80	ILE	11.7
35	BA	388	G	11.7
35	BA	1748	G	11.7
2	AB	210	SER	11.7
35	DA	874	G	11.7
42	DH	176	ALA	11.7
35	DA	1665	A	11.7
20	AT	70	SER	11.7
41	DG	124	SER	11.7
1	CA	1265	G	11.7
24	AY	303	PRO	11.7
24	AY	540	PRO	11.7
7	AG	4	ARG	11.7
29	D4	53	GLU	11.7
35	DA	2682	U	11.7
24	CY	497	PHE	11.7
11	AK	98	LEU	11.7
35	BA	644	A	11.6
37	BC	161	ARG	11.6
6	CF	34	GLY	11.6
35	BA	1680	U	11.6
26	B1	79	GLY	11.6
39	DE	15	PHE	11.6
1	CA	402	G	11.6
35	BA	952	G	11.6
35	BA	1081	U	11.6
13	CM	34	LEU	11.6
23	CX	18	G	11.6
24	CY	469	GLU	11.6
1	AA	727	G	11.6
35	BA	2401	U	11.6
35	DA	2836	U	11.6
7	AG	130	GLY	11.6
44	DK	115	LEU	11.6
39	DE	187	ALA	11.6
1	AA	481	G	11.6
35	BA	898	C	11.6
52	BT	133	GLU	11.6
1	AA	189(G)	G	11.6
35	BA	119	A	11.6
7	AG	7	ALA	11.6

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Mol	Chain	Res	Type	RSRZ
17	AQ	28	PRO	11.6
38	BD	201	HIS	11.6
47	BO	14	THR	11.6
22	AW	36	A	11.6
20	AT	60	GLU	11.6
1	AA	1097	C	11.6
35	BA	2440	C	11.6
35	BA	156	U	11.6
35	BA	345	A	11.6
35	BA	695	G	11.6
8	AH	36	LEU	11.5
22	AW	21	U	11.5
35	DA	2244	U	11.5
35	BA	2192	G	11.5
35	BA	2513	G	11.5
36	DB	86	G	11.5
2	AB	104	ASN	11.5
35	BA	2161	C	11.5
35	DA	894	C	11.5
11	CK	127	LYS	11.5
35	BA	2111	C	11.5
35	DA	2725	A	11.5
35	DA	2765	A	11.5
38	DD	124	PRO	11.5
1	AA	88	A	11.5
1	AA	97	G	11.5
35	BA	1860	G	11.5
38	BD	147	LEU	11.5
1	AA	1170	A	11.5
35	DA	2662	A	11.5
12	AL	25	PRO	11.5
35	BA	1707	G	11.5
41	DG	119	GLY	11.5
35	BA	604	G	11.5
1	AA	429	U	11.5
37	BC	162	ILE	11.5
1	CA	808	C	11.5
35	BA	466	A	11.5
35	BA	1339	G	11.4
35	BA	2489	G	11.4
54	DV	48	GLY	11.4
2	AB	136	VAL	11.4

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Mol	Chain	Res	Type	RSRZ
13	CM	21	TYR	11.4
1	CA	406	G	11.4
12	AL	92	ASP	11.4
39	DE	139	GLY	11.4
13	CM	48	LEU	11.4
41	DG	120	LEU	11.4
40	BF	127	GLU	11.4
35	BA	2253	G	11.4
1	AA	862	C	11.4
1	CA	856	C	11.4
3	AC	192	THR	11.4
2	AB	176	GLU	11.4
35	BA	2056	G	11.4
44	DK	109	LYS	11.4
52	DT	16	ARG	11.4
35	BA	1556	C	11.4
2	AB	18	GLY	11.4
13	CM	41	PRO	11.4
35	BA	1676	A	11.4
35	DA	2639	A	11.4
13	CM	49	THR	11.4
35	BA	303	U	11.4
35	DA	1142	U	11.4
22	AW	30	G	11.4
33	B8	2	PRO	11.4
35	BA	808	G	11.4
40	BF	13	SER	11.4
35	BA	2098	U	11.4
37	BC	62	THR	11.4
35	BA	36	G	11.4
35	DA	1935	G	11.4
35	DA	2659	G	11.4
1	CA	932	C	11.4
36	BB	91	C	11.4
1	AA	561	U	11.4
35	BA	1890	A	11.3
24	CY	689	LYS	11.3
22	CW	23	G	11.3
3	AC	104	GLN	11.3
8	AH	101	PRO	11.3
1	CA	362	G	11.3
1	CA	765	G	11.3

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Mol	Chain	Res	Type	RSRZ
35	BA	2509	G	11.3
13	CM	52	GLU	11.3
26	B1	58	ILE	11.3
35	BA	2402	C	11.3
35	BA	2603	G	11.3
35	BA	917	A	11.3
1	AA	281	G	11.3
35	DA	1839	G	11.3
35	DA	878	A	11.3
44	DK	71	THR	11.3
1	AA	357	G	11.3
11	AK	33	THR	11.3
39	DE	25	VAL	11.3
52	DT	18	ASP	11.3
30	D5	51	TYR	11.3
1	AA	870	U	11.3
24	AY	322	VAL	11.3
1	CA	617	G	11.3
35	BA	2704	C	11.3
35	DA	2162	G	11.3
1	AA	1500	A	11.3
7	AG	38	LEU	11.3
1	AA	731	G	11.3
35	BA	1740	G	11.3
1	AA	358	U	11.3
1	AA	757	U	11.3
1	CA	957	U	11.3
8	AH	57	PRO	11.3
52	BT	87	ASP	11.3
57	BY	107	ASP	11.3
52	BT	117	ASP	11.2
35	BA	786	C	11.2
35	DA	1464	C	11.2
1	AA	733	A	11.2
35	BA	723	G	11.2
35	BA	1382	G	11.2
1	AA	928	G	11.2
35	BA	243	U	11.2
35	BA	482	A	11.2
35	BA	1286	A	11.2
1	CA	804	U	11.2
35	BA	1349	A	11.2

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Mol	Chain	Res	Type	RSRZ
35	BA	1472	A	11.2
1	AA	1291	G	11.2
35	DA	765	G	11.2
24	CY	630	GLN	11.2
1	AA	178	C	11.2
35	BA	1247	A	11.2
35	BA	1673	U	11.2
35	BA	2371	G	11.2
42	DH	122	THR	11.2
35	DA	1053	C	11.2
1	AA	1517	G	11.2
35	BA	271(W)	G	11.2
35	BA	934	G	11.2
1	AA	868	C	11.2
22	AV	67	C	11.2
1	CA	1248	A	11.1
35	DA	1055	G	11.1
9	CI	124	GLN	11.1
22	AW	13	C	11.1
35	BA	146	G	11.1
50	DR	82	GLU	11.1
35	BA	612	C	11.1
24	AY	498	ILE	11.1
33	B8	35	GLN	11.1
48	BP	135	LEU	11.1
35	BA	2436	G	11.1
1	CA	1288	A	11.1
38	BD	29	PRO	11.1
9	AI	50	LEU	11.1
1	AA	356	A	11.1
1	AA	913	A	11.1
17	AQ	46	ASP	11.1
1	CA	1139	G	11.1
22	AW	20	G	11.1
1	AA	494	U	11.1
1	AA	76	C	11.0
1	AA	488	C	11.0
35	BA	2347	C	11.0
22	AW	18	U	11.0
24	AY	549	ALA	11.0
35	DA	2509	G	11.0
35	DA	1788	C	11.0

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Mol	Chain	Res	Type	RSRZ
47	DO	116	SER	11.0
35	BA	2839	G	11.0
1	AA	235	C	11.0
35	BA	487	C	11.0
35	DA	2136	C	11.0
3	AC	94	LEU	11.0
57	BY	8	LYS	11.0
11	AK	105	VAL	11.0
19	CS	13	ASP	11.0
1	AA	1403	C	11.0
3	CC	97	LYS	11.0
1	AA	607	A	11.0
35	BA	148	C	11.0
44	DK	120	LEU	11.0
1	AA	629	G	11.0
1	AA	674	G	11.0
35	BA	438	G	11.0
24	AY	302	HIS	11.0
1	AA	701	C	11.0
1	AA	1252	A	11.0
1	CA	733	A	11.0
50	BR	59	ASP	11.0
1	AA	492	G	11.0
1	CA	158	G	11.0
35	BA	1034	G	11.0
35	BA	196	A	11.0
1	AA	692	U	11.0
13	CM	30	ALA	11.0
47	BO	41	ALA	11.0
1	AA	730	G	11.0
35	DA	1163	G	11.0
35	DA	1170	G	11.0
35	BA	1771	C	11.0
35	DA	1054	A	11.0
13	CM	19	LEU	11.0
3	AC	149	ALA	10.9
42	DH	103	LEU	10.9
38	BD	28	GLU	10.9
35	DA	884	C	10.9
12	AL	67	THR	10.9
53	DU	114	LYS	10.9
22	AV	9	G	10.9

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Mol	Chain	Res	Type	RSRZ
35	BA	1465	G	10.9
30	D5	5	PRO	10.9
1	AA	557	G	10.9
1	AA	1240	U	10.9
22	CV	66	C	10.9
35	BA	2245	U	10.9
35	DA	2040	C	10.9
1	AA	952	U	10.9
35	BA	2842	G	10.9
1	AA	1144	G	10.9
1	CA	500	G	10.9
23	AX	12	A	10.9
35	BA	665	C	10.9
35	BA	1885	A	10.9
35	DA	2070	G	10.9
42	DH	98	LEU	10.9
17	AQ	49	GLU	10.9
42	DH	83	TYR	10.9
35	BA	2405	G	10.9
36	DB	95	C	10.9
1	AA	56	U	10.9
1	AA	129	U	10.9
40	BF	25	PRO	10.8
21	CU	18	TYR	10.8
23	CX	20	U	10.8
1	AA	787	A	10.8
35	BA	2140	C	10.8
20	AT	61	SER	10.8
37	DC	199	ALA	10.8
13	CM	17	VAL	10.8
17	AQ	77	VAL	10.8
35	DA	2875	C	10.8
35	BA	363(A)	A	10.8
1	AA	885	G	10.8
1	AA	1417	G	10.8
1	CA	29	G	10.8
35	DA	2121	G	10.8
35	DA	2891	G	10.8
1	AA	420	U	10.8
12	AL	95	GLY	10.8
24	AY	383	THR	10.8
1	CA	1517	G	10.8

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Mol	Chain	Res	Type	RSRZ
35	DA	2495	G	10.8
24	AY	15	ILE	10.8
35	BA	328	U	10.8
40	BF	120	GLU	10.8
2	AB	90	MET	10.8
1	AA	1093	A	10.8
35	BA	1109	C	10.8
35	BA	1306	C	10.8
35	BA	2097	C	10.8
35	BA	2515	C	10.8
35	DA	1354	A	10.8
8	AH	56	LYS	10.8
30	D5	47	PRO	10.8
35	BA	2568	C	10.8
35	BA	2100	G	10.8
29	D4	32	TYR	10.8
1	CA	1261	A	10.8
35	BA	2084	C	10.8
5	CE	11	ILE	10.8
58	DZ	83	PRO	10.8
1	AA	237	C	10.8
34	D9	10	ILE	10.8
35	BA	1068	G	10.8
35	DA	10	G	10.8
36	DB	74	U	10.8
1	AA	477	A	10.7
24	CY	618	GLY	10.7
26	B1	81	LYS	10.7
35	BA	312	G	10.7
49	DQ	57	HIS	10.7
1	CA	1315	U	10.7
35	BA	768	G	10.7
17	AQ	79	SER	10.7
36	DB	78	A	10.7
35	DA	1994	C	10.7
3	AC	49	SER	10.7
57	BY	68	HIS	10.7
38	BD	47	GLY	10.7
22	AV	70	G	10.7
39	BE	38	THR	10.7
53	DU	110	VAL	10.7
56	BX	66	LEU	10.7

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Mol	Chain	Res	Type	RSRZ
35	DA	1010	A	10.7
36	DB	100	A	10.7
1	AA	18	C	10.7
35	DA	1383	C	10.7
3	CC	166	GLU	10.7
35	BA	1089	G	10.7
35	BA	2180	U	10.7
38	BD	169	GLU	10.7
41	DG	5	VAL	10.7
24	CY	234	GLY	10.7
35	BA	272(C)	G	10.7
1	AA	383	A	10.7
39	DE	121	ASN	10.7
35	BA	329	G	10.7
19	CS	55	LYS	10.7
35	DA	2608	G	10.6
13	CM	3	ARG	10.6
44	BK	115	LEU	10.6
1	AA	350	G	10.6
35	DA	2811	G	10.6
13	CM	109	THR	10.6
1	AA	242	C	10.6
11	AK	95	ILE	10.6
35	DA	681	G	10.6
1	AA	1380	U	10.6
35	BA	960	A	10.6
1	CA	985	C	10.6
35	BA	763	G	10.6
35	BA	2106	G	10.6
35	BA	52	A	10.6
9	CI	122	ALA	10.6
18	AR	81	PHE	10.6
2	AB	111	ARG	10.6
58	DZ	97	GLU	10.6
1	AA	495	A	10.6
35	BA	2221	G	10.6
17	AQ	90	ILE	10.6
35	BA	2703	C	10.6
42	DH	171	LEU	10.6
22	AV	8	U	10.6
48	BP	102	ARG	10.6
1	AA	46	G	10.6

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Mol	Chain	Res	Type	RSRZ
1	AA	690	G	10.6
35	BA	1936	A	10.6
38	DD	198	ASN	10.6
53	DU	87	GLY	10.6
42	DH	170	ARG	10.6
1	AA	898	G	10.5
1	AA	1525	G	10.5
1	CA	1111	A	10.5
35	DA	1044	G	10.5
37	BC	208	THR	10.5
35	DA	2539	C	10.5
38	DD	160	GLY	10.5
35	BA	1615	C	10.5
24	AY	210	ARG	10.5
1	CA	1072	G	10.5
35	BA	137	C	10.5
1	CA	484	G	10.5
35	BA	1697	G	10.5
14	CN	32	SER	10.5
25	B0	65	GLY	10.5
35	BA	376	C	10.5
35	BA	2843	G	10.5
7	AG	131	LYS	10.5
35	BA	1496	A	10.5
35	BA	179	G	10.5
35	BA	292	C	10.5
35	BA	333	G	10.5
35	BA	2408	U	10.5
35	DA	2523	G	10.5
2	AB	106	LYS	10.5
26	B1	65	SER	10.5
35	BA	268	C	10.5
35	BA	2123	G	10.5
40	BF	9	ILE	10.5
49	DQ	132	VAL	10.5
1	CA	1393	U	10.5
1	AA	124	G	10.5
1	AA	594	G	10.5
35	DA	2052	G	10.5
13	CM	29	ARG	10.4
35	BA	804	A	10.4
35	BA	321	G	10.4

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Mol	Chain	Res	Type	RSRZ
35	BA	2792	G	10.4
14	CN	24	CYS	10.4
37	DC	210	LEU	10.4
38	BD	266	SER	10.4
42	DH	132	ARG	10.4
35	BA	2546	U	10.4
17	AQ	78	GLU	10.4
2	AB	13	ALA	10.4
22	CW	1	C	10.4
35	BA	809	G	10.4
36	DB	16	G	10.4
22	AW	32	G	10.4
38	BD	116	GLN	10.4
58	DZ	86	VAL	10.4
1	CA	943	U	10.4
37	BC	156	GLU	10.4
1	CA	307	C	10.4
35	BA	284	U	10.4
39	DE	117	MET	10.4
1	CA	974	A	10.4
14	CN	40	CYS	10.4
35	BA	389	G	10.4
31	B6	23	THR	10.4
46	DN	93	THR	10.4
40	BF	4	VAL	10.4
48	BP	142	GLY	10.4
35	BA	774	A	10.4
35	BA	973	A	10.4
35	DA	1654	A	10.4
8	AH	100	ILE	10.4
41	DG	104	GLU	10.4
35	DA	1113	U	10.4
27	B2	62	THR	10.4
1	AA	385	C	10.3
35	BA	815	C	10.3
1	AA	331	G	10.3
33	B8	13	ARG	10.3
35	BA	1767	C	10.3
35	DA	1983	C	10.3
35	BA	352	G	10.3
37	BC	61	GLY	10.3
35	DA	535	C	10.3

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Mol	Chain	Res	Type	RSRZ
4	AD	137	SER	10.3
35	BA	481	G	10.3
24	AY	313	ALA	10.3
35	DA	1013	C	10.3
35	BA	2262	U	10.3
1	AA	693	G	10.3
35	DA	1059	G	10.3
50	DR	99	LYS	10.3
2	AB	35	GLU	10.3
39	DE	69	LYS	10.3
19	CS	73	GLU	10.3
35	BA	2125	G	10.3
1	AA	719	C	10.3
1	AA	1228	C	10.3
1	CA	1354	C	10.3
35	BA	37	C	10.3
35	BA	459	U	10.3
48	BP	13	ASN	10.3
1	AA	62	U	10.3
35	DA	2517	C	10.3
35	DA	2897	U	10.3
54	DV	50	PRO	10.3
1	AA	1467	G	10.3
35	DA	467	G	10.3
1	CA	788	U	10.3
35	BA	2055	C	10.3
22	AV	22	G	10.2
35	BA	1277	G	10.2
35	DA	2176	A	10.2
35	BA	1222	C	10.2
35	DA	1958	C	10.2
53	DU	118	GLY	10.2
1	AA	644	G	10.2
35	BA	2443	C	10.2
35	BA	1438	U	10.2
35	DA	1975	G	10.2
1	AA	1001	A	10.2
1	AA	1471	G	10.2
35	BA	347	A	10.2
27	B2	46	GLN	10.2
35	DA	1996	C	10.2
22	AW	4	G	10.2

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Mol	Chain	Res	Type	RSRZ
35	BA	449	A	10.2
35	BA	2393	A	10.2
35	DA	1538	G	10.2
46	DN	89	LYS	10.2
58	DZ	146	ILE	10.2
35	BA	2514	U	10.2
13	CM	15	VAL	10.2
27	B2	60	LEU	10.2
35	DA	2656	U	10.2
35	BA	1287	A	10.2
35	BA	1822	G	10.2
38	BD	54	ARG	10.2
1	AA	601	C	10.2
35	DA	1790	C	10.2
4	AD	192	GLU	10.2
35	BA	1105	U	10.2
35	BA	2488	A	10.2
35	DA	1494	A	10.2
35	BA	1283	G	10.2
53	DU	115	ALA	10.2
31	B6	50	ARG	10.2
37	BC	187	ALA	10.1
1	CA	47	C	10.1
1	CA	1484	C	10.1
9	AI	33	PHE	10.1
35	DA	2692	C	10.1
24	AY	357	ARG	10.1
1	AA	149	A	10.1
35	DA	760	G	10.1
8	AH	33	GLU	10.1
7	AG	2	ALA	10.1
35	DA	2758	A	10.1
13	CM	25	ILE	10.1
35	DA	2817	G	10.1
40	BF	11	VAL	10.1
35	BA	1304	C	10.1
35	BA	822	U	10.1
35	BA	2090	G	10.1
35	BA	1297	C	10.1
3	AC	69	HIS	10.1
1	AA	412	A	10.1
1	AA	1527	C	10.1

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Mol	Chain	Res	Type	RSRZ
35	BA	1962	C	10.1
35	BA	1213	A	10.1
52	BT	25	GLY	10.1
1	AA	359	U	10.1
35	BA	1344	G	10.1
1	CA	972	C	10.1
2	AB	48	MET	10.1
40	BF	153	SER	10.1
1	AA	595	G	10.1
26	B1	69	LYS	10.1
35	DA	2683	C	10.1
52	BT	47	GLY	10.1
35	BA	1545	A	10.1
38	BD	179	SER	10.1
53	DU	117	GLN	10.1
35	DA	2122	U	10.1
35	BA	467	G	10.1
35	BA	565	C	10.1
35	DA	2724	C	10.1
37	DC	5	GLY	10.1
2	AB	68	ILE	10.1
44	DK	126	MET	10.1
35	DA	1461	G	10.0
26	B1	82	LEU	10.0
36	BB	86	G	10.0
48	BP	21	ARG	10.0
35	DA	533	G	10.0
35	DA	1435	G	10.0
35	DA	2482	G	10.0
35	BA	1787	A	10.0
1	CA	982	U	10.0
11	AK	16	SER	10.0
22	AV	15	G	10.0
35	BA	1685	C	10.0
35	DA	2616	C	10.0
36	DB	69	G	10.0
40	BF	103	LYS	10.0
9	AI	49	PRO	10.0
35	BA	238	C	10.0
12	AL	85	ILE	10.0
35	BA	2413	G	10.0
35	DA	1917	U	10.0

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Mol	Chain	Res	Type	RSRZ
35	DA	2028	U	10.0
35	BA	2578	G	10.0
35	BA	1352	U	10.0
8	AH	51	VAL	10.0
1	AA	893	C	10.0
35	BA	336	C	10.0
1	AA	324	G	10.0
35	DA	2222	G	10.0
1	AA	864	A	10.0
2	AB	181	PHE	10.0
35	BA	72	U	10.0
1	AA	1084	G	9.9
28	D3	12	PRO	9.9
35	DA	154	G	9.9
1	CA	1320	C	9.9
21	CU	17	THR	9.9
1	AA	98	G	9.9
3	AC	108	ASN	9.9
2	AB	69	LEU	9.9
35	BA	1859	A	9.9
9	AI	108	VAL	9.9
35	BA	272(E)	G	9.9
35	BA	2094	G	9.9
35	BA	2207	G	9.9
40	BF	24	LEU	9.9
1	AA	593	G	9.9
35	BA	60	G	9.9
35	BA	2751	G	9.9
24	AY	355	LEU	9.9
35	BA	1508	A	9.9
24	AY	134	ALA	9.9
1	AA	805	C	9.9
35	BA	1175	U	9.9
35	BA	927	G	9.9
1	CA	1289	A	9.9
35	BA	2426	A	9.9
1	CA	952	U	9.9
35	DA	1638	C	9.9
52	BT	69	GLY	9.9
52	DT	81	PRO	9.9
26	B1	40	ARG	9.9
49	BQ	104	PHE	9.9

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Mol	Chain	Res	Type	RSRZ
35	BA	2580	U	9.9
1	AA	1033	G	9.9
5	CE	19	MET	9.9
35	BA	962	G	9.9
35	BA	1687	G	9.9
35	DA	1473	G	9.9
1	AA	1130	A	9.9
35	BA	1317	A	9.9
24	CY	477	GLY	9.9
40	BF	71	GLY	9.9
1	CA	1351	U	9.9
4	CD	37	PRO	9.9
35	BA	65	C	9.9
1	AA	275	G	9.9
35	BA	397	G	9.9
35	DA	1678	G	9.9
1	CA	1292	U	9.9
1	AA	311	C	9.9
35	BA	1947	C	9.9
41	DG	110	ALA	9.9
1	AA	28	G	9.9
35	BA	2857	G	9.9
11	AK	94	ALA	9.8
9	AI	68	GLY	9.8
1	AA	411	A	9.8
1	CA	363	A	9.8
1	CA	685	G	9.8
35	BA	304	G	9.8
35	BA	2279	G	9.8
37	DC	197	LEU	9.8
1	AA	416	G	9.8
1	CA	1197	G	9.8
35	BA	1195	G	9.8
36	BB	45	A	9.8
1	AA	826	C	9.8
35	BA	1476	C	9.8
35	DA	2512	C	9.8
1	CA	397	A	9.8
1	CA	969	A	9.8
35	DA	2001	A	9.8
1	AA	646	U	9.8
35	BA	654(C)	G	9.8

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Mol	Chain	Res	Type	RSRZ
35	DA	1112	G	9.8
35	DA	1985	G	9.8
35	DA	1005	C	9.8
36	DB	66	A	9.8
5	AE	23	GLY	9.8
42	DH	85	LYS	9.8
1	AA	894	G	9.8
1	CA	1272	G	9.8
35	BA	2372	G	9.8
35	DA	1110	G	9.8
6	CF	53	ALA	9.8
35	BA	337	C	9.8
49	DQ	13	GLN	9.8
35	BA	2503	A	9.8
1	AA	139	G	9.8
35	BA	625	G	9.8
35	BA	2701	C	9.8
35	BA	1481	U	9.8
20	AT	8	ARG	9.7
24	CY	547	GLU	9.7
40	BF	87	GLY	9.7
1	AA	1193	G	9.7
2	AB	179	LYS	9.7
24	AY	544	LYS	9.7
27	B2	63	VAL	9.7
36	DB	94	C	9.7
35	BA	2361	A	9.7
17	AQ	36	ILE	9.7
35	BA	1704	G	9.7
35	DA	2807	G	9.7
35	BA	2874	C	9.7
42	DH	134	SER	9.7
1	CA	15	G	9.7
7	AG	89	MET	9.7
1	AA	1411	C	9.7
26	B1	31	GLY	9.7
35	DA	1821	A	9.7
12	AL	96	VAL	9.7
39	DE	118	LYS	9.7
1	AA	652	U	9.7
1	AA	1335	C	9.7
9	AI	86	VAL	9.7

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Mol	Chain	Res	Type	RSRZ
35	BA	2586	C	9.7
1	AA	1505	G	9.7
35	BA	2673	G	9.7
35	BA	1629	U	9.7
35	BA	2649	U	9.7
35	BA	308	G	9.7
22	CV	17(A)	U	9.7
24	CY	577	SER	9.7
36	DB	84	C	9.7
1	AA	61	G	9.7
1	AA	323	U	9.7
35	DA	2826	A	9.7
24	CY	498	ILE	9.7
22	AW	37	U	9.7
35	BA	1800	C	9.6
35	BA	1899	G	9.7
13	CM	90	LEU	9.6
35	BA	251	A	9.6
1	AA	837	G	9.6
1	CA	370	C	9.6
35	BA	271(O)	C	9.6
3	CC	17	ASP	9.6
58	DZ	61	LEU	9.6
35	DA	753	C	9.6
9	AI	85	LEU	9.6
20	AT	68	LYS	9.6
2	AB	72	GLY	9.6
1	AA	1120	G	9.6
54	DV	13	ARG	9.6
24	AY	43	GLY	9.6
47	BO	51	ALA	9.6
1	AA	1391	U	9.6
37	DC	228	HIS	9.6
1	AA	579	G	9.6
22	AV	6	G	9.6
1	AA	33	A	9.6
17	AQ	31	LEU	9.6
1	AA	812	C	9.6
52	BT	24	PRO	9.6
3	AC	51	GLY	9.6
35	BA	1789	A	9.6
42	DH	120	GLY	9.6

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Mol	Chain	Res	Type	RSRZ
1	AA	598	U	9.6
1	AA	174	C	9.6
1	AA	355	C	9.6
22	CV	74	C	9.6
35	BA	57	C	9.6
35	DA	1092	C	9.6
35	BA	2154	G	9.6
27	B2	35	LEU	9.6
33	B8	7	HIS	9.6
35	BA	2500	U	9.6
9	AI	48	GLU	9.6
52	BT	26	ASP	9.6
13	CM	103	THR	9.6
36	DB	70	C	9.6
6	CF	35	ALA	9.6
24	AY	376	ALA	9.6
24	CY	20	HIS	9.6
12	AL	101	VAL	9.6
1	CA	335	C	9.6
20	AT	59	ALA	9.6
35	BA	2231	C	9.6
1	AA	1376	U	9.6
35	DA	2810	A	9.6
24	AY	350	GLU	9.5
1	AA	473	G	9.5
1	AA	953	G	9.5
35	BA	2360	A	9.5
26	B1	50	ARG	9.5
36	DB	20	C	9.5
44	DK	114	ASP	9.5
35	BA	2455	G	9.5
13	CM	22	ILE	9.5
35	BA	2411	A	9.5
38	BD	114	GLY	9.5
1	CA	407	G	9.5
35	BA	358	U	9.5
35	BA	1833	U	9.5
48	BP	27	HIS	9.5
35	BA	1360	A	9.5
9	AI	17	VAL	9.5
17	AQ	30	PRO	9.5
15	AO	28	GLN	9.5

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Mol	Chain	Res	Type	RSRZ
53	DU	68	ALA	9.5
35	DA	1040	C	9.5
7	AG	95	ARG	9.5
47	DO	4	PRO	9.5
1	AA	992	U	9.5
1	AA	999	C	9.5
1	AA	1348	U	9.5
1	CA	1051	C	9.5
35	DA	1777	U	9.5
35	BA	2083	G	9.5
35	BA	2421	G	9.5
7	AG	127	ALA	9.5
38	DD	161	THR	9.5
11	AK	92	GLU	9.5
35	BA	514	A	9.5
35	BA	573	G	9.5
1	CA	1482	G	9.5
13	CM	20	THR	9.5
35	DA	2643	G	9.5
1	AA	182	U	9.5
1	AA	580	U	9.5
1	AA	55	A	9.5
1	AA	430	A	9.5
35	BA	140	G	9.5
52	DT	80	SER	9.5
1	AA	779	C	9.5
17	AQ	51	TYR	9.5
2	AB	107	THR	9.4
35	BA	572	A	9.4
1	AA	1082	G	9.4
1	CA	285	G	9.4
1	AA	1358	U	9.4
38	BD	182	LEU	9.4
52	DT	40	THR	9.4
35	BA	675	A	9.4
1	AA	105	G	9.4
35	BA	360	G	9.4
42	DH	47	GLU	9.4
52	BT	116	ALA	9.4
38	DD	100	GLY	9.4
7	AG	49	ILE	9.4
15	AO	75	PRO	9.4

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Mol	Chain	Res	Type	RSRZ
19	CS	38	SER	9.4
42	DH	52	VAL	9.4
1	AA	863	U	9.4
35	BA	1296	G	9.4
35	BA	1897	G	9.4
6	CF	74	ASP	9.4
1	CA	40	C	9.4
1	AA	923	A	9.4
1	CA	439	A	9.4
35	DA	2823	A	9.4
35	BA	355	G	9.4
2	AB	92	TYR	9.4
35	BA	664	C	9.4
48	BP	62	LEU	9.4
4	AD	172	PRO	9.4
22	AW	69	C	9.4
1	AA	653	A	9.4
1	AA	1188	A	9.4
35	BA	1374	G	9.4
35	BA	1701	A	9.3
1	AA	764	C	9.3
35	BA	766	C	9.3
36	DB	64	C	9.3
36	DB	92	C	9.3
1	CA	420	U	9.3
35	DA	2555	U	9.3
35	DA	2821	A	9.3
1	AA	570	G	9.3
35	BA	1510	G	9.3
35	BA	2032	G	9.3
35	BA	2222	G	9.3
35	BA	2362	G	9.3
24	CY	454	MET	9.3
21	CU	16	GLY	9.3
35	DA	897	C	9.3
1	AA	353	A	9.3
35	DA	1963	U	9.3
12	AL	84	LEU	9.3
47	DO	115	VAL	9.3
13	AM	13	LYS	9.3
52	BT	115	ARG	9.3
35	BA	1243	G	9.3

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Mol	Chain	Res	Type	RSRZ
35	BA	1772	G	9.3
1	AA	455	C	9.3
35	DA	1911	U	9.3
1	CA	715	A	9.3
35	BA	926	A	9.3
35	DA	1203	G	9.3
35	DA	2508	G	9.3
1	CA	801	U	9.3
22	AW	17	C	9.3
46	DN	64	GLY	9.3
35	DA	2818	G	9.3
24	CY	570	GLY	9.3
35	BA	185	U	9.3
35	BA	2075	U	9.3
1	AA	1349	A	9.3
1	AA	563	A	9.3
16	CP	10	GLY	9.3
1	AA	1150	U	9.3
1	AA	1159	U	9.3
1	CA	1212	U	9.3
35	BA	198	C	9.3
36	DB	49	C	9.3
9	AI	95	LYS	9.3
17	AQ	17	LYS	9.2
1	AA	402	G	9.2
1	CA	157	G	9.2
22	AV	36	U	9.2
35	BA	334	C	9.2
35	BA	2432	A	9.2
20	AT	63	ILE	9.2
1	CA	438	G	9.2
1	CA	1293	G	9.2
30	D5	4	HIS	9.2
4	AD	209	ARG	9.2
39	DE	94	GLU	9.2
1	CA	1353	G	9.2
22	AV	34	C	9.2
35	DA	1137	G	9.2
35	DA	1268	A	9.2
35	DA	1803	A	9.2
37	DC	194	ILE	9.2
1	AA	381	C	9.2

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Mol	Chain	Res	Type	RSRZ
1	AA	529	G	9.2
35	BA	2061	G	9.2
35	DA	1171	G	9.2
5	AE	141	GLN	9.2
39	DE	1	MET	9.2
39	BE	178	GLU	9.2
1	AA	1237	C	9.2
2	AB	75	LYS	9.2
22	AW	64	G	9.2
1	AA	1101	A	9.2
35	BA	1128	A	9.2
37	DC	203	GLU	9.2
24	AY	497	PHE	9.2
1	CA	1081	G	9.2
35	BA	1087	G	9.2
19	CS	14	HIS	9.2
35	BA	1082	U	9.2
47	DO	117	LEU	9.2
57	BY	70	SER	9.2
35	BA	271(Z)	C	9.2
35	BA	1712	C	9.2
35	BA	1366	A	9.2
35	DA	1997	G	9.2
36	BB	33	G	9.2
24	CY	664	GLN	9.2
40	BF	3	GLU	9.2
35	DA	221	A	9.1
35	DA	1817	G	9.1
36	DB	105	A	9.1
1	AA	369	C	9.1
1	AA	1478	C	9.1
36	BB	99	G	9.1
35	BA	2066	C	9.1
35	DA	1797	C	9.1
1	AA	1099	G	9.1
35	BA	931	G	9.1
35	BA	1763	G	9.1
35	BA	2054	A	9.1
24	AY	453	GLY	9.1
39	BE	39	PRO	9.1
50	BR	22	ARG	9.1
1	AA	482	A	9.1

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Mol	Chain	Res	Type	RSRZ
1	AA	1158	C	9.1
1	CA	411	A	9.1
35	BA	1357	U	9.1
35	DA	299	A	9.1
1	CA	1023	G	9.1
1	AA	689	C	9.1
35	BA	2590	A	9.1
35	BA	2872	G	9.1
35	DA	1016	G	9.1
35	DA	1488	G	9.1
35	DA	1984	G	9.1
56	BX	22	ALA	9.1
13	CM	102	ARG	9.1
1	AA	815	A	9.1
15	AO	25	THR	9.1
2	AB	162	ILE	9.1
1	AA	1251	A	9.1
1	CA	1226	C	9.1
35	BA	1681	G	9.1
35	DA	1030	G	9.1
3	CC	99	VAL	9.1
35	DA	1376	C	9.1
24	CY	408	VAL	9.1
24	CY	549	ALA	9.1
38	BD	132	PRO	9.1
55	BW	93	ALA	9.1
35	BA	409	C	9.1
35	BA	2169	A	9.1
24	AY	290	LYS	9.1
35	BA	1238	G	9.1
35	BA	2859	G	9.1
9	AI	82	ALA	9.0
47	DO	73	ASP	9.0
1	AA	683	G	9.0
1	AA	734	G	9.0
56	BX	50	LYS	9.0
1	AA	1235	U	9.0
35	BA	1580	A	9.0
35	DA	1147	C	9.0
8	AH	72	PRO	9.0
42	DH	102	ALA	9.0
22	CV	32	C	9.0

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Mol	Chain	Res	Type	RSRZ
35	DA	2820	A	9.0
58	DZ	85	HIS	9.0
4	AD	29	PRO	9.0
35	BA	363(C)	G	9.0
46	DN	69	GLN	9.0
35	DA	1820	U	9.0
57	BY	26	LYS	9.0
1	AA	141	A	9.0
1	AA	496	A	9.0
4	AD	191	ARG	9.0
1	AA	1464	G	9.0
35	BA	1059	G	9.0
39	DE	83	ASP	9.0
44	DK	123	ALA	9.0
1	CA	436	C	9.0
35	BA	661	C	9.0
35	BA	1298	C	9.0
44	DK	76	TYR	9.0
38	BD	24	ILE	9.0
50	BR	69	ASP	9.0
35	DA	2051	A	9.0
2	AB	234	PRO	9.0
35	DA	25	U	9.0
46	BN	77	GLY	9.0
17	AQ	48	GLU	9.0
35	BA	294	A	9.0
35	DA	1928	A	9.0
3	AC	111	LEU	9.0
49	BQ	103	MET	9.0
35	BA	1236	G	9.0
1	AA	722	A	9.0
35	BA	393	C	9.0
35	BA	1076	C	9.0
35	DA	2441	C	9.0
35	DA	2889	C	9.0
1	AA	638	G	9.0
35	BA	741	G	9.0
35	DA	1423	G	9.0
35	DA	2154	G	9.0
39	DE	68	ALA	9.0
1	CA	1007	C	9.0
35	BA	305	U	8.9

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Mol	Chain	Res	Type	RSRZ
35	BA	1898	U	8.9
26	B1	86	SER	8.9
35	BA	13	A	8.9
35	BA	2629	A	8.9
35	DA	1060	U	8.9
57	BY	71	LYS	8.9
24	AY	13	ARG	8.9
30	D5	50	GLY	8.9
1	AA	732	C	8.9
35	BA	1251	C	8.9
37	DC	227	PRO	8.9
38	BD	20	ASP	8.9
55	BW	85	VAL	8.9
24	CY	462	ILE	8.9
35	DA	883	G	8.9
57	DY	11	ASP	8.9
1	AA	738	C	8.9
1	AA	1100	C	8.9
1	AA	1473	A	8.9
17	AQ	96	GLU	8.9
24	AY	315	LYS	8.9
1	AA	407	G	8.9
36	BB	87	G	8.9
35	BA	721	C	8.9
35	BA	1889	A	8.9
34	D9	27	CYS	8.9
1	AA	890	G	8.9
35	DA	1992	G	8.9
1	CA	1247	U	8.9
14	AN	51	GLY	8.9
35	BA	654(B)	C	8.9
11	AK	103	LEU	8.9
1	AA	622	A	8.9
35	DA	2885	C	8.9
38	BD	156	ALA	8.9
50	DR	98	LEU	8.9
1	CA	803	G	8.9
35	BA	1813	G	8.9
35	DA	1424	G	8.9
1	AA	884	U	8.9
1	CA	1440	C	8.9
35	BA	1675	C	8.9

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Mol	Chain	Res	Type	RSRZ
18	CR	81	PHE	8.9
39	BE	96	PHE	8.9
35	DA	2642	G	8.9
13	CM	105	THR	8.9
1	AA	1165	C	8.9
35	BA	1452	A	8.9
35	DA	901	A	8.9
15	AO	27	VAL	8.9
19	CS	15	LEU	8.9
1	AA	803	G	8.8
1	CA	356	A	8.8
35	DA	2146	C	8.8
42	DH	141	VAL	8.8
35	BA	425	G	8.8
50	BR	109	ALA	8.8
35	BA	1460	A	8.8
35	DA	1498	C	8.8
32	B7	16	HIS	8.8
9	AI	28	VAL	8.8
54	DV	63	GLY	8.8
1	AA	915	A	8.8
1	CA	1143	G	8.8
35	BA	619	G	8.8
35	DA	1418	G	8.8
58	BZ	187	ALA	8.8
35	DA	1953	A	8.8
40	BF	106	ARG	8.8
24	CY	461	ILE	8.8
13	CM	53	VAL	8.8
1	AA	250	A	8.8
35	DA	778	G	8.8
12	CL	73	GLU	8.8
35	DA	12	U	8.8
17	AQ	76	LEU	8.8
1	CA	1221	G	8.8
35	BA	1844	C	8.8
7	AG	46	ALA	8.8
40	BF	104	LYS	8.8
38	DD	141	VAL	8.8
13	CM	31	LYS	8.8
1	AA	634	C	8.8
35	DA	1131	G	8.8

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Mol	Chain	Res	Type	RSRZ
35	DA	2037	G	8.8
35	DA	2475	C	8.8
2	AB	79	ASP	8.8
40	BF	160	ASN	8.8
1	AA	546	G	8.8
35	BA	1058	G	8.8
35	BA	2631	G	8.8
35	DA	1937	A	8.8
58	DZ	49	ARG	8.8
13	CM	13	LYS	8.8
1	AA	879	C	8.8
1	CA	1193	G	8.8
36	DB	11	C	8.8
44	BK	15	GLY	8.8
1	AA	427	U	8.8
35	DA	1679	U	8.8
42	DH	81	GLU	8.8
54	DV	15	GLU	8.8
35	BA	2176	A	8.8
35	DA	859	G	8.8
35	DA	2155	G	8.8
38	BD	105	ILE	8.8
35	DA	1156	A	8.7
35	DA	1789	A	8.7
35	BA	2163	C	8.7
4	CD	6	GLY	8.7
40	BF	163	VAL	8.7
1	AA	325	A	8.7
35	DA	2738	A	8.7
35	BA	2195	C	8.7
35	BA	855	G	8.7
9	AI	66	ARG	8.7
1	AA	880	C	8.7
28	D3	28	LEU	8.7
5	CE	49	PRO	8.7
35	BA	1284	A	8.7
35	DA	1496	A	8.7
1	CA	806	C	8.7
35	DA	2143	C	8.7
1	AA	424	G	8.7
36	DB	108	U	8.7
37	DC	213	VAL	8.7

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Mol	Chain	Res	Type	RSRZ
11	AK	48	ILE	8.7
20	AT	45	GLN	8.7
46	DN	97	ARG	8.7
1	AA	1189	C	8.7
4	CD	51	PRO	8.7
35	BA	2699	C	8.7
24	AY	250	THR	8.7
57	BY	92	ASN	8.7
35	DA	1786	A	8.7
35	BA	249	C	8.7
35	BA	589	C	8.7
35	BA	2871	C	8.7
1	AA	68	G	8.7
1	AA	126	G	8.7
22	CV	45	G	8.7
12	AL	93	LEU	8.7
44	BK	68	VAL	8.7
42	DH	140	LYS	8.7
1	CA	359	U	8.7
8	AH	15	ASN	8.7
35	DA	2878	U	8.7
35	BA	410	G	8.7
1	CA	802	A	8.7
12	AL	104	VAL	8.7
35	BA	963	U	8.7
58	BZ	55	HIS	8.7
35	BA	710	G	8.7
35	BA	2428	G	8.7
35	BA	2783	G	8.7
4	CD	124	GLY	8.7
1	AA	543	C	8.6
22	AW	15	G	8.6
35	BA	2127	G	8.6
35	DA	779	U	8.6
35	DA	2660	A	8.6
50	DR	54	LEU	8.6
13	CM	97	PRO	8.6
1	AA	899	C	8.6
36	BB	93	G	8.6
44	DK	118	THR	8.6
30	D5	52	TYR	8.6
42	DH	61	HIS	8.6

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Mol	Chain	Res	Type	RSRZ
35	DA	1912	A	8.6
37	BC	120	VAL	8.6
35	DA	2486	G	8.6
1	CA	1257	U	8.6
22	AW	14	A	8.6
35	BA	122	G	8.6
35	DA	1011	G	8.6
53	BU	73	GLY	8.6
1	AA	1465	C	8.6
24	AY	327	PHE	8.6
35	BA	2387	U	8.6
35	DA	1048	A	8.6
35	DA	1783	A	8.6
13	CM	4	ILE	8.6
1	CA	1017	G	8.6
35	BA	577	G	8.6
35	BA	2053	G	8.6
35	BA	377	C	8.6
41	DG	121	ASN	8.6
39	DE	97	LYS	8.6
46	DN	90	MET	8.6
51	DS	51	ALA	8.6
44	DK	132	ARG	8.6
35	BA	1623	G	8.6
35	BA	2228	G	8.6
9	AI	100	GLY	8.6
35	DA	718	A	8.6
3	AC	105	GLU	8.6
8	AH	124	ALA	8.6
18	AR	45	SER	8.6
24	CY	542	VAL	8.6
35	BA	2545	G	8.6
35	DA	2023	G	8.6
35	DA	1918	A	8.6
9	AI	65	VAL	8.6
35	DA	2615	U	8.6
1	AA	1183	A	8.5
7	AG	27	ILE	8.5
27	B2	50	ILE	8.5
35	DA	754	C	8.5
35	DA	1837	C	8.5
1	AA	261	U	8.5

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Mol	Chain	Res	Type	RSRZ
14	CN	56	VAL	8.5
35	BA	48	G	8.5
37	BC	141	PRO	8.5
1	AA	1490	C	8.5
35	BA	1387	C	8.5
35	DA	2297	C	8.5
35	DA	2463	C	8.5
4	CD	39	PRO	8.5
1	AA	413	G	8.5
1	CA	128	G	8.5
13	CM	95	GLY	8.5
35	BA	751	A	8.5
1	CA	1262	C	8.5
35	BA	2520	C	8.5
35	BA	607	U	8.5
54	DV	27	ALA	8.5
1	AA	865	A	8.5
35	BA	2851	A	8.5
35	DA	1787	A	8.5
1	AA	979	C	8.5
35	BA	67	U	8.5
49	DQ	55	VAL	8.5
52	BT	90	GLN	8.5
35	DA	2120	G	8.5
1	CA	996	A	8.5
2	AB	144	ARG	8.5
57	DY	64	GLU	8.5
50	BR	62	ALA	8.5
1	AA	1501	C	8.5
4	CD	201	GLN	8.5
1	AA	471	G	8.5
1	AA	631	G	8.5
12	AL	66	VAL	8.5
40	BF	6	VAL	8.5
24	AY	230	LYS	8.5
48	BP	67	MET	8.5
2	AB	100	GLY	8.5
35	BA	505	A	8.5
35	BA	1478	G	8.5
35	DA	1998	G	8.5
7	AG	135	VAL	8.5
37	BC	10	ALA	8.5

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Mol	Chain	Res	Type	RSRZ
46	DN	100	GLU	8.5
48	BP	44	GLY	8.5
1	AA	409	G	8.5
1	AA	1476	G	8.5
3	CC	94	LEU	8.5
36	DB	27	C	8.5
4	AD	30	LYS	8.5
35	DA	2038	G	8.5
35	BA	1123	C	8.4
30	D5	38	ALA	8.4
35	BA	474	G	8.4
35	BA	1484	G	8.4
40	BF	5	ALA	8.4
12	AL	37	CYS	8.4
47	DO	3	GLN	8.4
10	AJ	29	ARG	8.4
35	DA	1279	G	8.4
35	BA	654(I)	C	8.4
35	BA	2044	C	8.4
54	DV	35	LEU	8.4
2	AB	46	LYS	8.4
40	BF	192	LEU	8.4
1	CA	499	A	8.4
35	BA	983	A	8.4
35	BA	1972	A	8.4
35	DA	2720	U	8.4
1	CA	39	G	8.4
1	CA	226	G	8.4
35	BA	946	G	8.4
1	AA	312	C	8.4
49	DQ	136	ALA	8.4
8	AH	82	HIS	8.4
33	B8	56	GLU	8.4
1	CA	520	A	8.4
35	DA	1036	G	8.4
22	AW	1	C	8.4
35	BA	288	C	8.4
48	BP	69	GLY	8.4
19	CS	56	GLN	8.4
35	BA	1778	U	8.4
35	DA	1434	A	8.4
1	CA	1137	C	8.4

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Mol	Chain	Res	Type	RSRZ
1	CA	1399	C	8.4
35	BA	654(G)	C	8.4
35	BA	857	C	8.4
35	BA	2138	C	8.4
35	BA	2700	C	8.4
35	DA	2200	C	8.4
40	BF	187	VAL	8.4
4	CD	44	GLY	8.4
7	CG	25	ALA	8.4
8	AH	71	GLY	8.4
24	AY	545	GLY	8.4
15	AO	29	VAL	8.4
24	AY	546	ILE	8.4
37	DC	224	ARG	8.4
24	AY	539	ILE	8.4
1	CA	1256	A	8.4
1	CA	330	C	8.4
39	BE	66	HIS	8.4
53	DU	43	GLY	8.4
22	AW	74	A	8.4
35	BA	2051	A	8.4
1	CA	301	G	8.4
35	BA	738	G	8.4
1	CA	792	A	8.3
1	CA	54	C	8.3
35	BA	1217	C	8.3
35	BA	1315	C	8.3
35	BA	2124	G	8.3
1	CA	30	U	8.3
1	AA	1055	A	8.3
24	AY	211	GLU	8.3
3	CC	136	GLN	8.3
35	DA	2644	G	8.3
35	DA	1919	A	8.3
35	DA	987	G	8.3
35	DA	1025	G	8.3
1	CA	218	C	8.3
35	BA	2406	U	8.3
35	DA	1091	G	8.3
48	BP	12	ALA	8.3
35	DA	2781	A	8.3
20	AT	11	SER	8.3

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Mol	Chain	Res	Type	RSRZ
35	BA	2002	G	8.3
35	DA	1114	G	8.3
52	DT	14	TYR	8.3
35	BA	1938	A	8.3
35	DA	1773	A	8.3
35	BA	272(G)	C	8.3
35	BA	2681	C	8.3
35	DA	2646	C	8.3
1	AA	332	G	8.3
1	CA	548	G	8.3
35	BA	940	G	8.3
35	DA	1921	G	8.3
4	AD	24	GLU	8.3
1	AA	768	A	8.3
24	AY	640	ALA	8.3
1	AA	1399	C	8.3
1	CA	1478	C	8.3
35	BA	2606	C	8.3
1	CA	654	G	8.3
36	BB	85	G	8.3
19	CS	11	VAL	8.3
54	DV	97	LYS	8.3
20	AT	14	LYS	8.3
35	BA	584	C	8.3
35	BA	1043	C	8.3
1	AA	428	G	8.2
4	CD	38	TYR	8.2
35	BA	1855	G	8.2
29	D4	42	PHE	8.2
35	BA	271(B)	C	8.2
35	BA	2420	C	8.2
48	BP	46	LYS	8.2
55	BW	36	LEU	8.2
1	AA	445	G	8.2
1	AA	1392	G	8.2
35	BA	647	G	8.2
35	DA	1906	G	8.2
1	CA	1183	A	8.2
1	CA	1409	C	8.2
1	AA	189(J)	G	8.2
1	CA	1266	G	8.2
35	BA	1030	G	8.2

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Mol	Chain	Res	Type	RSRZ
27	B2	61	LEU	8.2
30	D5	45	VAL	8.2
1	AA	201	C	8.2
1	AA	1402	C	8.2
35	DA	1043	C	8.2
35	BA	748	G	8.2
35	BA	1225	G	8.2
35	DA	1478	G	8.2
35	DA	2127	G	8.2
35	DA	2762	G	8.2
16	CP	84	ALA	8.2
7	CG	61	VAL	8.2
38	DD	159	ALA	8.2
9	AI	3	GLN	8.2
35	BA	143	G	8.2
35	BA	272(D)	G	8.2
35	BA	662	G	8.2
35	BA	2837	G	8.2
35	DA	2133	G	8.2
1	AA	1125	U	8.2
1	AA	525	C	8.2
1	AA	1107	C	8.2
35	BA	2628	C	8.2
35	BA	2875	C	8.2
44	DK	72	PRO	8.2
48	BP	66	GLY	8.2
1	AA	78	G	8.2
2	AB	94	ASN	8.2
35	BA	266	G	8.2
35	DA	2582	G	8.2
1	CA	1360	A	8.2
35	BA	475	U	8.2
35	BA	614(C)	A	8.2
24	CY	539	ILE	8.2
21	CU	6	ARG	8.2
35	BA	2008	C	8.2
1	CA	674	G	8.2
20	AT	18	GLN	8.2
35	BA	1343	G	8.2
35	DA	2319	G	8.2
1	CA	961	U	8.2
35	DA	1292	U	8.2

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Mol	Chain	Res	Type	RSRZ
40	BF	1	MET	8.2
46	DN	119	ARG	8.2
52	BT	42	ILE	8.2
1	AA	623	C	8.2
1	AA	31	G	8.2
1	AA	1469	G	8.2
1	CA	44	G	8.2
35	BA	372	G	8.2
35	BA	668	G	8.2
35	DA	557	U	8.2
35	DA	2041	U	8.2
40	BF	109	GLY	8.2
35	BA	2301	C	8.2
13	CM	38	GLY	8.2
4	AD	120	LEU	8.2
35	BA	177	G	8.2
35	BA	421	U	8.2
35	BA	796	C	8.1
35	DA	2816	C	8.1
1	AA	512	U	8.1
2	AB	137	ARG	8.1
1	CA	958	A	8.1
35	BA	2790	A	8.1
1	AA	647	C	8.1
22	CV	10	G	8.1
35	DA	2252	G	8.1
8	AH	63	LEU	8.1
35	BA	256	A	8.1
35	BA	1486	A	8.1
48	BP	78	PRO	8.1
1	AA	600	C	8.1
12	CL	34	ARG	8.1
35	DA	1920	C	8.1
47	BO	24	VAL	8.1
25	B0	12	ASN	8.1
35	BA	152	G	8.1
35	BA	271(X)	G	8.1
35	BA	2599	G	8.1
36	DB	99	G	8.1
40	BF	112	MET	8.1
35	BA	840	C	8.1
1	AA	581	G	8.1

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Mol	Chain	Res	Type	RSRZ
3	AC	168	ALA	8.1
35	BA	780	G	8.1
24	AY	471	LYS	8.1
16	AP	64	ALA	8.1
35	DA	2880	C	8.1
3	AC	13	GLY	8.1
38	DD	132	PRO	8.1
35	BA	2009	G	8.1
35	DA	1155	A	8.1
1	AA	1073	U	8.1
35	BA	143(A)	C	8.1
35	BA	776	G	8.1
37	DC	200	HIS	8.1
52	DT	15	VAL	8.1
9	AI	52	ALA	8.1
24	CY	640	ALA	8.1
35	BA	2596	U	8.1
11	CK	103	LEU	8.1
35	BA	468	G	8.1
53	DU	51	LYS	8.1
1	AA	810	C	8.1
10	AJ	28	ARG	8.1
1	CA	1531	A	8.1
4	CD	121	VAL	8.1
7	AG	136	LYS	8.1
35	DA	324	A	8.1
35	DA	1669	A	8.1
1	AA	227	G	8.1
1	AA	362	G	8.1
1	AA	888	G	8.1
35	BA	1122	G	8.1
1	AA	1446	U	8.1
1	AA	808	C	8.1
17	AQ	91	ARG	8.0
12	AL	126	LYS	8.0
35	BA	643	A	8.0
35	BA	1986	A	8.0
1	AA	1106	G	8.0
1	CA	357	G	8.0
57	BY	102	CYS	8.0
35	DA	827	U	8.0
54	DV	24	LYS	8.0

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Mol	Chain	Res	Type	RSRZ
35	DA	1563	G	8.0
44	DK	105	LEU	8.0
4	CD	134	ASP	8.0
9	AI	29	ASN	8.0
22	AW	10	G	8.0
35	DA	2584	U	8.0
35	BA	1200	C	8.0
42	DH	24	VAL	8.0
52	DT	11	GLU	8.0
4	AD	11	LEU	8.0
33	B8	4	MET	8.0
48	BP	68	GLN	8.0
35	BA	1397	U	8.0
55	BW	32	ALA	8.0
1	CA	1343	G	8.0
22	AW	70	C	8.0
9	AI	110	GLU	8.0
24	CY	522	GLY	8.0
44	DK	83	GLY	8.0
1	CA	388	G	8.0
35	BA	938	G	8.0
1	AA	1409	C	8.0
35	BA	40	C	8.0
35	DA	2760	C	8.0
37	DC	222	SER	8.0
3	CC	29	TYR	8.0
1	AA	675	A	8.0
1	AA	924	C	8.0
52	BT	81	PRO	8.0
1	AA	375	U	8.0
7	AG	28	ASN	8.0
27	B2	32	LEU	8.0
1	AA	933	G	8.0
35	BA	2644	G	8.0
35	DA	780	G	8.0
56	BX	68	ARG	8.0
1	CA	1249	C	8.0
4	CD	130	GLY	8.0
35	BA	392	C	8.0
42	BH	66	GLY	8.0
11	CK	65	ALA	8.0
35	DA	1785	A	8.0

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Mol	Chain	Res	Type	RSRZ
1	AA	564	C	7.9
1	AA	922	G	7.9
1	CA	424	G	7.9
36	DB	116	G	7.9
1	AA	655	A	7.9
24	AY	475	ASN	7.9
37	BC	125	GLY	7.9
47	DO	32	TYR	7.9
50	BR	61	HIS	7.9
35	BA	69	C	7.9
35	BA	792	G	7.9
35	BA	1075	C	7.9
35	BA	1881	C	7.9
35	BA	2894	G	7.9
35	DA	1264	G	7.9
35	DA	2663	G	7.9
36	BB	43	C	7.9
48	BP	45	LEU	7.9
49	BQ	51	ARG	7.9
35	BA	717	G	7.9
1	CA	60	A	7.9
1	AA	834	C	7.9
24	AY	400	GLU	7.9
35	BA	272(B)	G	7.9
35	BA	316	C	7.9
35	BA	654(K)	C	7.9
35	BA	754	C	7.9
35	BA	2727	G	7.9
35	DA	2485	G	7.9
53	DU	39	LEU	7.9
35	BA	895	U	7.9
46	DN	9	VAL	7.9
35	BA	2412	A	7.9
35	DA	2173	A	7.9
47	BO	8	LEU	7.9
34	B9	23	VAL	7.9
48	BP	88	LEU	7.9
35	BA	2137	C	7.9
41	BG	48	GLU	7.9
1	CA	49	U	7.9
35	BA	405	U	7.9
5	CE	25	ARG	7.9

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Mol	Chain	Res	Type	RSRZ
35	DA	529	A	7.9
38	BD	175	LEU	7.9
22	AW	2	G	7.9
35	BA	1658	C	7.9
35	BA	1808	U	7.9
52	BT	111	ARG	7.9
12	CL	111	LYS	7.9
13	CM	87	TYR	7.9
1	AA	170	U	7.9
35	BA	1820	U	7.9
37	DC	193	PHE	7.9
38	BD	218	ARG	7.9
5	CE	17	ALA	7.9
8	AH	105	ARG	7.9
35	DA	1957	C	7.9
24	AY	334	THR	7.9
47	BO	90	GLN	7.9
35	DA	2477	C	7.9
35	DA	548	A	7.9
57	BY	9	LYS	7.8
4	AD	126	ILE	7.8
35	DA	860	U	7.8
24	CY	152	THR	7.8
35	DA	2184	G	7.8
29	D4	16	CYS	7.8
35	BA	2511	U	7.8
44	DK	14	ALA	7.8
35	DA	1153	C	7.8
1	AA	289	G	7.8
1	AA	1077	G	7.8
1	AA	1215	G	7.8
29	D4	57	GLU	7.8
35	DA	726	G	7.8
40	BF	82	ILE	7.8
4	CD	136	PRO	7.8
1	AA	680	C	7.8
35	BA	795	C	7.8
1	AA	127	G	7.8
1	CA	354	G	7.8
1	CA	625	G	7.8
35	BA	212	G	7.8
35	BA	512	G	7.8

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Mol	Chain	Res	Type	RSRZ
36	DB	93	G	7.8
24	CY	687	LEU	7.8
35	BA	406	G	7.8
26	B1	96	LYS	7.8
35	BA	443	A	7.8
2	AB	213	LEU	7.8
37	BC	45	HIS	7.8
1	CA	857	C	7.8
35	BA	755	C	7.8
35	BA	1502	C	7.8
35	BA	2343	C	7.8
3	AC	110	ASN	7.8
1	AA	691	G	7.8
1	AA	1030(C)	G	7.8
1	AA	1438	G	7.8
1	CA	887	G	7.8
35	BA	743	G	7.8
35	DA	173	G	7.8
35	BA	363(F)	A	7.8
38	BD	25	THR	7.8
1	AA	387	U	7.8
35	DA	2537	U	7.8
38	DD	99	ASP	7.8
4	AD	44	GLY	7.8
35	BA	183	C	7.8
35	BA	426	C	7.8
9	AI	13	ALA	7.8
35	DA	1987	G	7.8
47	BO	20	MET	7.8
35	BA	933	A	7.8
35	DA	2533	A	7.8
58	DZ	173	ALA	7.8
1	CA	934	C	7.8
36	DB	65	C	7.8
24	AY	373	ASP	7.8
40	BF	86	GLY	7.8
1	CA	1233	G	7.8
2	AB	208	ILE	7.8
4	CD	5	ILE	7.8
35	DA	843	G	7.8
4	AD	115	ARG	7.8
37	BC	154	ILE	7.8

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Mol	Chain	Res	Type	RSRZ
19	CS	70	LYS	7.8
35	DA	1295	C	7.8
37	DC	209	PHE	7.8
39	DE	19	ARG	7.8
54	DV	49	THR	7.8
1	CA	1373	G	7.8
7	AG	45	ASP	7.8
24	AY	372	GLY	7.8
35	BA	2181	G	7.8
47	BO	12	ASP	7.8
35	BA	404	C	7.8
1	AA	259	G	7.7
5	AE	83	GLU	7.7
35	BA	1117	G	7.7
35	BA	2234	G	7.7
38	BD	80	ALA	7.7
53	DU	116	ALA	7.7
1	AA	1234	C	7.7
10	AJ	67	THR	7.7
1	CA	512	U	7.7
1	CA	1321	C	7.7
35	DA	1947	C	7.7
49	DQ	105	GLU	7.7
1	AA	1083	U	7.7
2	AB	238	LEU	7.7
1	AA	351	G	7.7
1	AA	941	G	7.7
30	D5	32	PRO	7.7
35	BA	513	A	7.7
35	BA	1210	A	7.7
1	AA	483	C	7.7
35	DA	994	C	7.7
3	CC	181	ASN	7.7
9	AI	84	ALA	7.7
24	AY	234	GLY	7.7
24	CY	459	LEU	7.7
31	B6	10	LEU	7.7
1	AA	1507	A	7.7
55	BW	91	GLY	7.7
1	CA	490	G	7.7
35	BA	178	G	7.7
44	DK	25	PRO	7.7

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Mol	Chain	Res	Type	RSRZ
1	CA	1426	C	7.7
35	DA	1974	C	7.7
36	DB	79	C	7.7
54	DV	26	ASP	7.7
19	CS	9	VAL	7.7
1	AA	171	A	7.7
1	AA	1435	G	7.7
1	CA	791	G	7.7
22	AV	21	A	7.7
35	BA	324	A	7.7
35	DA	2721	A	7.7
35	BA	1500	G	7.7
39	DE	84	PHE	7.7
1	AA	366	C	7.7
1	AA	1059	C	7.7
1	CA	652	U	7.7
22	CW	63	C	7.7
35	DA	1995	U	7.7
11	AK	77	MET	7.7
3	AC	202	ILE	7.7
44	BK	116	ASN	7.7
35	BA	2158	A	7.7
1	AA	69	G	7.7
1	AA	1207	G	7.7
35	DA	1667	G	7.7
38	DD	56	GLY	7.7
40	BF	108	LYS	7.7
46	DN	68	GLU	7.7
38	DD	121	PRO	7.7
38	BD	131	LEU	7.7
1	AA	1337	G	7.7
35	BA	89	G	7.7
35	BA	948	G	7.7
35	DA	881	G	7.7
1	CA	1217	C	7.7
57	BY	69	ALA	7.7
24	AY	213	HIS	7.7
24	AY	509	HIS	7.7
35	BA	1189	A	7.7
35	BA	2826	A	7.7
46	DN	86	PRO	7.7
1	AA	490	G	7.7

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Mol	Chain	Res	Type	RSRZ
35	DA	83	G	7.7
35	DA	766	C	7.6
35	DA	2510	C	7.6
41	DG	7	LEU	7.6
44	BK	70	LYS	7.6
52	DT	41	ARG	7.6
35	DA	1507	A	7.6
24	AY	164	MET	7.6
35	BA	892	G	7.6
35	DA	910	A	7.6
35	DA	1046	A	7.6
14	CN	3	ARG	7.6
24	AY	130	VAL	7.6
35	BA	15	G	7.6
1	AA	189(B)	C	7.6
14	CN	53	LEU	7.6
24	AY	314	PHE	7.6
35	DA	2496	C	7.6
39	DE	8	LYS	7.6
1	AA	532	A	7.6
22	AV	53	G	7.6
35	BA	363(B)	G	7.6
35	DA	930	U	7.6
1	AA	822	C	7.6
26	B1	14	VAL	7.6
35	DA	991	C	7.6
35	DA	1577	C	7.6
41	DG	108	ASN	7.6
35	BA	432	A	7.6
35	DA	2713	A	7.6
39	DE	125	GLY	7.6
10	AJ	33	GLN	7.6
50	BR	24	GLN	7.6
35	BA	498	G	7.6
52	BT	21	GLU	7.6
21	AU	4	GLY	7.6
1	CA	829	G	7.6
35	DA	1160	G	7.6
19	CS	44	MET	7.6
35	BA	270	A	7.6
35	DA	2492	U	7.6
26	B1	60	PHE	7.6

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Mol	Chain	Res	Type	RSRZ
1	CA	1202	G	7.6
35	BA	258	G	7.6
35	BA	309	G	7.6
39	DE	70	ALA	7.6
23	AX	21	C	7.6
35	DA	1765	C	7.6
35	BA	2328	A	7.6
1	CA	981	U	7.6
35	BA	2109	U	7.6
37	BC	126	SER	7.6
38	BD	144	ALA	7.6
35	BA	1537	G	7.6
35	BA	1434	A	7.6
1	CA	446	G	7.6
35	DA	648	G	7.6
57	BY	27	VAL	7.6
49	BQ	38	GLU	7.6
2	AB	138	LEU	7.5
41	DG	106	LEU	7.5
1	AA	17	U	7.5
35	BA	2344	U	7.5
1	AA	1504	G	7.5
35	DA	1539	G	7.5
35	DA	1640	C	7.5
35	DA	1771	C	7.5
31	B6	34	LEU	7.5
1	CA	304	U	7.5
35	BA	547	A	7.5
35	DA	2835	A	7.5
38	DD	101	GLU	7.5
1	AA	58	C	7.5
1	CA	369	C	7.5
1	CA	783	C	7.5
35	BA	96	G	7.5
35	BA	356	G	7.5
36	BB	98	G	7.5
36	DB	75	G	7.5
1	AA	408	A	7.5
35	DA	703	U	7.5
35	DA	1009	A	7.5
15	AO	14	GLU	7.5
52	DT	82	LEU	7.5

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Mol	Chain	Res	Type	RSRZ
1	AA	821	G	7.5
24	AY	331	TYR	7.5
35	BA	1429	G	7.5
35	DA	1504	C	7.5
35	DA	2139	C	7.5
37	BC	214	TYR	7.5
1	AA	244	U	7.5
1	CA	1285	A	7.5
35	BA	631	A	7.5
35	BA	1331	A	7.5
9	AI	113	LYS	7.5
40	BF	135	LYS	7.5
1	CA	245	C	7.5
1	CA	1514	C	7.5
35	BA	605	C	7.5
35	BA	663	G	7.5
35	DA	1922	G	7.5
1	AA	608	A	7.5
19	CS	41	VAL	7.5
48	BP	103	ALA	7.5
24	CY	430	ARG	7.5
35	BA	1309	G	7.5
35	BA	1682	G	7.5
35	BA	2824	C	7.5
35	DA	951	C	7.5
35	DA	2044	C	7.5
36	BB	2	C	7.5
1	AA	100	C	7.5
1	AA	823	G	7.5
1	CA	52	G	7.5
35	DA	2000	G	7.5
35	DA	2709	G	7.5
36	BB	12	C	7.5
3	AC	133	ALA	7.5
20	AT	74	LYS	7.5
35	BA	1567	A	7.5
44	DK	74	ALA	7.5
33	B8	34	TRP	7.5
1	CA	76	C	7.5
35	BA	2788	C	7.5
35	DA	2606	C	7.5
1	AA	10	A	7.5

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Mol	Chain	Res	Type	RSRZ
30	B5	18	ALA	7.5
35	DA	2015	A	7.5
40	BF	2	LYS	7.5
39	DE	112	GLY	7.5
7	CG	58	PRO	7.5
1	AA	44	G	7.5
35	DA	2703	C	7.5
50	BR	73	VAL	7.5
1	AA	101	A	7.5
35	BA	289	A	7.5
35	BA	1069	A	7.5
35	BA	1127	A	7.5
1	CA	444	C	7.4
13	CM	88	ARG	7.4
35	BA	2680	C	7.4
1	AA	1190	G	7.4
35	DA	979	G	7.4
35	BA	423	A	7.4
35	DA	782	A	7.4
7	AG	156	TRP	7.4
39	DE	57	LYS	7.4
24	CY	540	PRO	7.4
35	DA	1294	U	7.4
2	AB	170	GLU	7.4
24	AY	396	ARG	7.4
50	BR	84	ALA	7.4
9	AI	76	ALA	7.4
35	DA	1178	C	7.4
38	BD	254	THR	7.4
1	AA	439	A	7.4
35	BA	310	A	7.4
35	DA	1755	A	7.4
39	BE	40	GLU	7.4
35	BA	833	U	7.4
36	BB	80	U	7.4
1	CA	355	C	7.4
35	BA	749	C	7.4
1	AA	197	A	7.4
35	BA	501	A	7.4
35	BA	549	G	7.4
35	BA	1114	G	7.4
35	BA	1461	G	7.4

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Mol	Chain	Res	Type	RSRZ
35	BA	1591	G	7.4
35	DA	1791	A	7.4
35	DA	2587	A	7.4
13	CM	24	GLY	7.4
35	BA	2200	C	7.4
35	DA	2573	C	7.4
38	DD	188	GLU	7.4
12	AL	7	ILE	7.4
35	DA	2434	A	7.4
36	DB	102	A	7.4
39	DE	86	PRO	7.4
26	B1	49	VAL	7.4
29	D4	34	GLU	7.4
1	CA	705	U	7.4
35	BA	2296	U	7.4
57	BY	39	VAL	7.4
35	BA	2827	C	7.4
1	AA	329	A	7.4
35	BA	660	G	7.4
35	BA	2242	G	7.4
35	DA	1058	G	7.4
2	AB	53	ARG	7.4
52	BT	135	ALA	7.4
24	AY	316	ILE	7.4
42	DH	126	PRO	7.4
1	AA	904	C	7.4
9	AI	103	THR	7.4
24	CY	465	ARG	7.4
8	AH	34	GLU	7.4
1	AA	189(H)	G	7.4
22	CV	11	A	7.4
35	BA	2069	G	7.4
40	BF	119	ARG	7.4
40	BF	14	PRO	7.4
47	BO	48	PRO	7.4
35	BA	1330	C	7.4
35	BA	2556	C	7.4
35	BA	472	A	7.4
2	AB	134	GLU	7.4
24	AY	370	LYS	7.4
35	BA	510	C	7.4
42	DH	131	VAL	7.4

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Mol	Chain	Res	Type	RSRZ
10	AJ	26	ALA	7.4
1	AA	1185	G	7.4
35	DA	27	G	7.4
7	CG	59	LEU	7.3
1	CA	896	C	7.3
35	BA	244	A	7.3
35	BA	2577	A	7.3
1	CA	376	G	7.3
24	CY	543	GLN	7.3
52	BT	27	THR	7.3
35	DA	1391	U	7.3
24	AY	364	GLU	7.3
1	CA	1158	C	7.3
22	CV	65	C	7.3
35	BA	209	C	7.3
35	BA	2179	C	7.3
52	BT	110	ILE	7.3
36	BB	34	U	7.3
1	CA	284	G	7.3
35	BA	583	G	7.3
35	DA	2027	G	7.3
36	BB	44	G	7.3
50	DR	72	ASP	7.3
4	CD	125	HIS	7.3
35	BA	1638	C	7.3
48	BP	7	ARG	7.3
1	AA	404	U	7.3
1	CA	782	A	7.3
19	CS	60	VAL	7.3
35	BA	247	G	7.3
38	BD	214	TRP	7.3
37	BC	149	ASN	7.3
35	BA	1636	C	7.3
4	AD	68	TYR	7.3
35	BA	2526	G	7.3
35	DA	1643	G	7.3
35	BA	1474	C	7.3
35	BA	2616	C	7.3
35	DA	876	C	7.3
54	BV	21	ARG	7.3
38	BD	265	PRO	7.3
55	BW	24	ILE	7.3

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Mol	Chain	Res	Type	RSRZ
1	AA	315	A	7.3
1	AA	991	U	7.3
1	CA	1049	U	7.3
3	AC	112	SER	7.3
35	BA	499	U	7.3
32	B7	14	LYS	7.3
39	DE	2	LYS	7.3
35	BA	131	G	7.3
35	BA	1421	G	7.3
7	AG	124	LEU	7.3
44	DK	98	ARG	7.3
35	BA	153	C	7.3
35	DA	2621	A	7.3
1	AA	597	G	7.3
35	BA	648	G	7.3
35	BA	2155	G	7.3
35	DA	1484	G	7.3
35	DA	2830	G	7.3
44	DK	119	ASP	7.3
35	BA	2650	U	7.3
35	DA	985	C	7.3
1	AA	327	A	7.3
41	DG	133	LEU	7.3
35	BA	272	G	7.3
39	DE	46	ALA	7.3
38	DD	236	GLY	7.3
14	CN	29	ARG	7.3
35	BA	728	G	7.3
35	BA	859	G	7.3
35	BA	2895	U	7.3
35	DA	155	U	7.3
1	AA	1339	A	7.2
35	BA	2434	A	7.2
5	CE	16	THR	7.2
40	BF	22	ALA	7.2
1	CA	546	G	7.2
22	AW	5	G	7.2
35	BA	733	G	7.2
35	BA	1280	G	7.2
35	DA	2445	G	7.2
36	DB	5	C	7.2
35	BA	507	A	7.2

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Mol	Chain	Res	Type	RSRZ
1	AA	15	G	7.2
1	CA	1273	G	7.2
1	CA	1504	G	7.2
35	BA	68	G	7.2
35	BA	2101	G	7.2
35	DA	2782	G	7.2
1	AA	612	C	7.2
24	AY	235	GLU	7.2
35	BA	365	C	7.2
35	BA	2388	A	7.2
35	DA	2600	A	7.2
18	CR	80	PRO	7.2
56	BX	23	GLU	7.2
22	CV	15	G	7.2
35	DA	809	G	7.2
1	AA	619	U	7.2
1	AA	1439	C	7.2
1	CA	1172	C	7.2
35	DA	926	A	7.2
55	BW	97	LYS	7.2
52	BT	91	ARG	7.2
1	AA	1127	G	7.2
35	DA	2106	G	7.2
7	AG	103	TRP	7.2
35	DA	1637	A	7.2
48	BP	11	GLY	7.2
1	AA	800	G	7.2
22	CW	47	G	7.2
35	BA	732	C	7.2
24	CY	629	GLY	7.2
35	BA	271(E)	U	7.2
35	DA	2546	U	7.2
36	BB	40	U	7.2
22	AV	45	G	7.2
35	DA	2685	G	7.2
57	BY	38	ILE	7.2
1	AA	417	C	7.2
1	CA	1113	C	7.2
35	BA	2363	C	7.2
35	BA	182	A	7.2
35	BA	330	A	7.2
3	CC	198	VAL	7.2

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Mol	Chain	Res	Type	RSRZ
35	DA	1014	U	7.2
39	DE	133	LYS	7.2
1	CA	126	G	7.2
1	CA	710	G	7.2
35	BA	2182	G	7.2
1	AA	1140	C	7.2
11	AK	65	ALA	7.2
35	BA	184	C	7.2
35	BA	2050	C	7.2
35	BA	14	A	7.2
50	DR	95	THR	7.2
1	AA	599	C	7.2
22	CV	17	C	7.2
18	CR	71	LYS	7.2
35	DA	945	A	7.2
35	DA	2577	A	7.2
38	DD	190	TYR	7.2
35	BA	2277	G	7.1
35	BA	45	C	7.1
35	BA	2260	C	7.1
56	BX	78	LYS	7.1
57	BY	74	PRO	7.1
27	B2	44	LEU	7.1
35	DA	2611	U	7.1
38	BD	124	PRO	7.1
42	DH	117	PRO	7.1
1	AA	592	G	7.1
35	DA	1959	G	7.1
2	AB	139	LYS	7.1
8	AH	116	LYS	7.1
11	CK	29	ILE	7.1
1	CA	1371	G	7.1
35	BA	1293	C	7.1
35	BA	1295	C	7.1
42	DH	137	ASP	7.1
1	AA	816	A	7.1
1	AA	850	U	7.1
8	AH	50	ARG	7.1
9	AI	107	ARG	7.1
20	AT	15	ARG	7.1
21	CU	15	ARG	7.1
35	BA	606	U	7.1

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Mol	Chain	Res	Type	RSRZ
4	AD	72	GLU	7.1
1	AA	660	G	7.1
35	BA	1624	G	7.1
35	BA	2340	G	7.1
35	DA	801	G	7.1
1	AA	189(C)	C	7.1
35	BA	655	A	7.1
37	BC	227	PRO	7.1
53	DU	86	ALA	7.1
15	AO	31	LEU	7.1
37	DC	20	VAL	7.1
35	BA	173	G	7.1
35	BA	1714	G	7.1
35	BA	1846	G	7.1
35	BA	2424	C	7.1
35	BA	2557	G	7.1
35	DA	852	G	7.1
35	DA	1846	G	7.1
35	DA	2564	A	7.1
35	DA	2754	U	7.1
3	CC	116	VAL	7.1
1	AA	199	G	7.1
1	AA	662	G	7.1
1	AA	1186	G	7.1
35	DA	2124	G	7.1
1	CA	1374	A	7.1
36	DB	68	C	7.1
35	BA	416	C	7.1
35	BA	1650	G	7.1
36	BB	92	C	7.1
39	DE	160	TYR	7.1
35	BA	571	A	7.1
3	CC	6	HIS	7.1
1	AA	1353	G	7.1
1	AA	1482	G	7.1
1	AA	1514	C	7.1
1	CA	1480	G	7.1
35	BA	1775	U	7.1
35	DA	1823	G	7.1
52	DT	32	TYR	7.1
50	DR	65	LEU	7.1
4	AD	40	PRO	7.1

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Mol	Chain	Res	Type	RSRZ
40	BF	26	ALA	7.1
13	CM	94	ARG	7.1
1	AA	1119	C	7.1
21	CU	19	GLY	7.1
35	BA	747	U	7.1
35	DA	2728	U	7.1
51	BS	77	ALA	7.1
22	AW	59	A	7.1
35	BA	654(N)	G	7.1
35	DA	1831	G	7.1
35	DA	2190	G	7.1
38	DD	33	LEU	7.1
49	DQ	32	TYR	7.0
42	DH	165	ALA	7.0
1	AA	526	C	7.0
35	BA	1281	G	7.0
35	DA	145	G	7.0
25	B0	64	ASP	7.0
56	BX	4	ALA	7.0
24	CY	381	LYS	7.0
35	BA	2233	U	7.0
35	BA	1404	C	7.0
35	BA	1783	A	7.0
35	BA	1937	A	7.0
35	BA	2254	C	7.0
1	AA	524	G	7.0
35	BA	2268	A	7.0
35	DA	2542	A	7.0
9	AI	80	GLY	7.0
11	CK	128	ALA	7.0
38	BD	180	GLY	7.0
2	AB	192	SER	7.0
10	CJ	50	ILE	7.0
49	BQ	128	LYS	7.0
1	AA	1116	C	7.0
1	CA	315	A	7.0
35	BA	444	C	7.0
1	AA	685	G	7.0
1	CA	661	G	7.0
24	CY	463	VAL	7.0
4	AD	180	GLY	7.0
46	DN	139	GLU	7.0

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Mol	Chain	Res	Type	RSRZ
12	CL	23	LYS	7.0
38	BD	270	ILE	7.0
35	DA	2518	A	7.0
42	DH	64	LEU	7.0
1	CA	673	G	7.0
35	BA	2834	G	7.0
47	BO	7	TYR	7.0
17	AQ	9	VAL	7.0
35	BA	847	U	7.0
1	CA	414	A	7.0
1	CA	477	A	7.0
3	AC	204	LEU	7.0
22	CV	35	A	7.0
35	DA	1049	C	7.0
1	AA	703	G	7.0
4	AD	34	GLU	7.0
12	CL	89	ARG	7.0
35	BA	2846	G	7.0
38	DD	38	LYS	7.0
12	CL	116	SER	7.0
1	AA	1126	U	7.0
20	AT	67	ALA	7.0
55	BW	79	GLY	7.0
18	AR	83	GLU	7.0
38	BD	46	GLN	7.0
1	CA	528	C	7.0
1	CA	1192	C	7.0
35	DA	2710	C	7.0
1	AA	903	G	7.0
1	AA	1058	G	7.0
1	CA	1295	G	7.0
17	AQ	88	TYR	7.0
25	B0	66	VAL	7.0
58	DZ	147	GLY	7.0
24	CY	619	ASP	7.0
39	DE	90	THR	7.0
24	AY	547	GLU	7.0
39	BE	148	GLY	7.0
1	CA	805	C	7.0
1	CA	1287	A	7.0
36	DB	3	C	7.0
1	AA	713	G	7.0

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Mol	Chain	Res	Type	RSRZ
1	AA	1108	G	7.0
35	BA	88	G	7.0
3	AC	123	GLN	7.0
35	DA	1431	U	7.0
1	CA	341	C	7.0
35	BA	462	C	7.0
35	DA	777	A	7.0
35	DA	1990	C	7.0
35	DA	2039	C	7.0
1	CA	425	G	7.0
35	BA	1197	G	7.0
35	BA	2722	G	7.0
35	DA	2544	G	7.0
3	AC	180	ALA	7.0
11	AK	60	ALA	7.0
24	AY	8	ASP	7.0
35	DA	1939	U	7.0
47	BO	15	GLY	7.0
42	DH	69	ARG	7.0
35	DA	2723	C	6.9
38	DD	205	VAL	6.9
39	DE	95	ILE	6.9
13	CM	62	ASN	6.9
14	CN	54	PRO	6.9
35	BA	2133	G	6.9
17	AQ	27	PHE	6.9
24	CY	586	GLY	6.9
39	DE	85	ASN	6.9
1	CA	795	C	6.9
35	DA	1999	C	6.9
35	DA	2693	A	6.9
1	AA	81	U	6.9
35	BA	623	G	6.9
35	BA	2017	U	6.9
35	BA	2876	G	6.9
35	DA	1441	G	6.9
37	DC	211	ARG	6.9
38	BD	96	HIS	6.9
2	AB	44	LEU	6.9
13	CM	43	THR	6.9
35	DA	1353	A	6.9
35	DA	1395	A	6.9

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Mol	Chain	Res	Type	RSRZ
3	CC	124	ILE	6.9
8	AH	123	GLU	6.9
39	BE	1	MET	6.9
7	AG	122	HIS	6.9
1	AA	1029	C	6.9
1	AA	1502	A	6.9
1	CA	1460	A	6.9
35	DA	280	C	6.9
3	AC	119	ARG	6.9
9	AI	79	LEU	6.9
38	DD	27	THR	6.9
1	AA	853	G	6.9
1	CA	688	G	6.9
35	BA	2010	G	6.9
35	BA	1600	C	6.9
1	AA	1056	U	6.9
35	BA	1659	U	6.9
35	BA	2423	U	6.9
57	DY	12	THR	6.9
35	DA	649	G	6.9
35	DA	808	G	6.9
35	DA	2576	G	6.9
1	AA	1109	C	6.9
22	AW	25	U	6.9
35	DA	1492	G	6.9
35	DA	2300	G	6.9
25	D0	2	ALA	6.9
55	BW	42	ARG	6.9
1	CA	269	C	6.9
1	CA	787	A	6.9
1	CA	1350	A	6.9
35	BA	1314	C	6.9
35	BA	1886	C	6.9
35	BA	2227	A	6.9
35	BA	2589	A	6.9
35	DA	1942	C	6.9
1	AA	639	G	6.9
1	CA	786	G	6.9
35	DA	1173	G	6.9
52	BT	48	ILE	6.9
30	D5	53	ALA	6.9
1	AA	938	A	6.9

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Mol	Chain	Res	Type	RSRZ
5	AE	87	SER	6.9
35	DA	639	U	6.9
1	CA	1337	G	6.9
48	BP	14	LYS	6.9
3	AC	140	ARG	6.9
1	AA	150	C	6.9
1	AA	443	C	6.9
1	CA	651	C	6.9
35	BA	271(Y)	U	6.9
35	BA	2460	U	6.9
35	DA	841	A	6.9
35	DA	2688	U	6.9
22	CV	9	G	6.8
35	BA	2410	G	6.8
53	DU	45	TYR	6.8
35	BA	1621	U	6.8
41	DG	8	LYS	6.8
4	CD	81	GLU	6.8
2	AB	168	THR	6.8
17	AQ	93	GLN	6.8
18	AR	21	LYS	6.8
35	DA	1705	G	6.8
35	DA	1067	A	6.8
34	D9	4	ARG	6.8
7	AG	140	ASP	6.8
25	D0	3	HIS	6.8
9	CI	11	LYS	6.8
35	BA	2747	G	6.8
35	BA	2777	G	6.8
35	DA	1416	G	6.8
1	AA	1052	U	6.8
23	CX	17	U	6.8
35	BA	441	U	6.8
42	DH	31	GLY	6.8
1	AA	106	C	6.8
1	AA	334	C	6.8
1	AA	1111	A	6.8
5	AE	142	LEU	6.8
1	CA	620	C	6.8
35	BA	2617	C	6.8
35	DA	650	C	6.8
46	DN	76	SER	6.8

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Mol	Chain	Res	Type	RSRZ
12	AL	94	PRO	6.8
1	CA	502	G	6.8
2	AB	173	ALA	6.8
56	DX	48	LYS	6.8
35	BA	986	C	6.8
38	BD	183	ARG	6.8
40	BF	124	LEU	6.8
55	BW	98	LYS	6.8
1	CA	506	G	6.8
35	BA	2576	G	6.8
35	BA	2708	G	6.8
35	DA	274	G	6.8
41	DG	131	TYR	6.8
49	BQ	17	LEU	6.8
15	AO	36	ILE	6.8
35	BA	2517	C	6.8
35	DA	1174	A	6.8
57	BY	53	PRO	6.8
24	AY	301	ILE	6.8
24	AY	408	VAL	6.8
57	DY	24	VAL	6.8
58	DZ	73	GLN	6.8
1	AA	521	G	6.8
1	AA	851	G	6.8
35	BA	344	G	6.8
35	BA	1581	G	6.8
35	DA	2578	G	6.8
1	CA	977	A	6.8
1	CA	1046	A	6.8
35	BA	127	A	6.8
35	BA	480	A	6.8
35	DA	2757	A	6.8
11	AK	32	ILE	6.8
5	AE	113	ALA	6.8
35	BA	2458	G	6.8
35	DA	561	G	6.8
35	BA	447	A	6.8
35	BA	1402	C	6.8
35	DA	2740	A	6.8
20	AT	85	MET	6.8
1	CA	1079	G	6.8
35	BA	2627	G	6.8

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Mol	Chain	Res	Type	RSRZ
42	DH	28	GLY	6.8
12	CL	61	THR	6.8
3	CC	113	ALA	6.8
50	DR	112	ALA	6.8
4	CD	126	ILE	6.8
35	DA	1510	G	6.8
1	CA	574	A	6.8
9	AI	98	PRO	6.8
35	BA	1838	C	6.7
24	CY	632	LEU	6.7
30	B5	4	HIS	6.7
7	CG	57	GLU	6.7
1	CA	1058	G	6.7
35	BA	654(L)	G	6.7
35	BA	1232	G	6.7
35	BA	2697	G	6.7
35	DA	974	G	6.7
35	DA	2886	G	6.7
1	AA	472	A	6.7
22	CV	14	A	6.7
40	BF	102	PRO	6.7
5	AE	20	GLN	6.7
5	CE	18	ARG	6.7
24	AY	378	VAL	6.7
35	DA	1830	C	6.7
39	DE	10	GLY	6.7
5	AE	109	ILE	6.7
20	AT	10	LEU	6.7
1	AA	57	G	6.7
1	AA	474	G	6.7
1	CA	900	A	6.7
35	BA	613	G	6.7
35	BA	945	A	6.7
35	DA	2549	G	6.7
52	DT	60	THR	6.7
1	AA	342	C	6.7
35	BA	297	C	6.7
42	DH	100	GLY	6.7
12	AL	129	ALA	6.7
37	BC	128	LEU	6.7
1	AA	852	G	6.7
35	BA	1916	A	6.7

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Mol	Chain	Res	Type	RSRZ
1	AA	681	C	6.7
38	BD	8	PRO	6.7
4	AD	135	LEU	6.7
35	BA	346	A	6.7
35	DA	2583	G	6.7
1	AA	1407	C	6.7
22	AW	72	C	6.7
58	BZ	179	ASP	6.7
22	AW	51	U	6.7
35	DA	2449	U	6.7
9	CI	121	ARG	6.7
2	AB	113	HIS	6.7
54	BV	23	GLU	6.7
35	BA	61	G	6.7
35	BA	1475	G	6.7
35	BA	2131	G	6.7
35	BA	1582	C	6.7
35	DA	271(J)	C	6.7
36	DB	71	C	6.7
49	DQ	31	ASP	6.7
2	AB	101	MET	6.7
35	BA	271(S)	G	6.7
35	DA	1981	A	6.7
35	DA	2627	G	6.7
10	CJ	67	THR	6.7
1	CA	888	G	6.7
1	CA	1424	C	6.7
35	BA	1914	C	6.7
35	BA	2041	U	6.7
35	BA	2397	G	6.7
35	DA	2543	G	6.7
17	AQ	55	ASP	6.7
1	AA	912	C	6.7
1	AA	990	C	6.7
22	AV	5	G	6.7
35	BA	1592	C	6.7
35	BA	2490	G	6.7
35	DA	143	G	6.7
35	DA	2147	G	6.7
56	BX	59	VAL	6.6
1	AA	313	A	6.6
1	CA	539	A	6.6

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Mol	Chain	Res	Type	RSRZ
35	BA	1177	A	6.6
1	CA	616	G	6.6
22	AW	47	G	6.6
35	DA	921	G	6.6
3	AC	129	ALA	6.6
24	AY	305	PRO	6.6
1	AA	981	U	6.6
1	AA	849	C	6.6
18	CR	82	THR	6.6
35	BA	2001	A	6.6
35	DA	2158	A	6.6
1	CA	769	G	6.6
1	CA	1022	G	6.6
35	BA	1560	G	6.6
35	BA	2345	G	6.6
35	DA	950	G	6.6
35	DA	1348	G	6.6
35	DA	1804	C	6.6
35	DA	1965	C	6.6
13	CM	61	GLU	6.6
24	AY	296	GLY	6.6
35	DA	1768	U	6.6
1	AA	651	C	6.6
1	CA	799	G	6.6
12	CL	64	TYR	6.6
19	CS	8	GLY	6.6
15	AO	12	ILE	6.6
34	D9	13	LYS	6.6
52	DT	137	LYS	6.6
30	D5	49	CYS	6.6
35	BA	594	U	6.6
35	BA	1966	A	6.6
35	BA	1969	A	6.6
35	DA	2561	A	6.6
48	BP	49	ARG	6.6
53	DU	85	LYS	6.6
35	DA	2745	C	6.6
5	AE	91	LEU	6.6
1	CA	1211	U	6.6
35	BA	2547	U	6.6
1	AA	448	A	6.6
1	CA	781	A	6.6

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Mol	Chain	Res	Type	RSRZ
35	BA	1880	C	6.6
35	DA	1582	C	6.6
35	BA	442	G	6.6
35	DA	2548	G	6.6
46	DN	113	GLY	6.6
1	AA	1503	A	6.6
35	BA	835	A	6.6
35	DA	1508	A	6.6
12	AL	98	TYR	6.6
28	D3	14	GLY	6.6
52	DT	33	LYS	6.6
1	AA	678	U	6.6
17	AQ	56	VAL	6.6
1	AA	432	A	6.6
1	AA	441	A	6.6
17	AQ	41	LYS	6.6
35	BA	332	A	6.6
35	BA	1194	A	6.6
35	BA	1262	A	6.6
1	AA	1404	C	6.6
32	B7	33	ARG	6.6
35	BA	2178	C	6.6
1	AA	1224	G	6.6
12	CL	112	ASP	6.6
24	AY	156	ARG	6.6
53	DU	66	ASN	6.6
4	AD	35	ARG	6.6
21	AU	9	ARG	6.6
1	AA	1437	C	6.6
1	CA	483	C	6.6
1	AA	718	G	6.6
1	AA	1258	G	6.6
35	BA	630	G	6.6
35	DA	1517	G	6.6
13	CM	107	ALA	6.6
35	BA	953	A	6.6
30	D5	44	THR	6.6
35	BA	2129	C	6.6
1	AA	721	G	6.5
1	CA	1271	G	6.5
35	BA	1413	G	6.5
35	BA	1515	G	6.5

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Mol	Chain	Res	Type	RSRZ
35	DA	1573	G	6.5
35	BA	762	U	6.5
35	DA	1390	U	6.5
10	AJ	73	ASP	6.5
52	BT	121	ILE	6.5
9	AI	14	VAL	6.5
35	BA	1088	A	6.5
35	BA	1571	A	6.5
35	BA	2692	C	6.5
47	DO	92	GLU	6.5
12	AL	78	GLN	6.5
35	BA	944	G	6.5
35	BA	2389	G	6.5
35	DA	1849	G	6.5
35	DA	2732	G	6.5
35	DA	2872	G	6.5
52	BT	137	LYS	6.5
1	AA	892	A	6.5
35	BA	2433	A	6.5
35	DA	567	A	6.5
35	DA	2657	A	6.5
13	CM	14	ARG	6.5
1	AA	613	C	6.5
1	AA	236	G	6.5
1	CA	956	U	6.5
35	BA	2581	G	6.5
35	DA	26	G	6.5
39	DE	5	LEU	6.5
8	AH	16	ALA	6.5
20	AT	93	GLU	6.5
1	AA	1531	A	6.5
35	BA	483	A	6.5
35	BA	2198	A	6.5
35	BA	2858	C	6.5
1	AA	1079	G	6.5
16	CP	76	GLN	6.5
7	AG	82	GLY	6.5
35	DA	1770	G	6.5
6	AF	49	ALA	6.5
1	AA	1299	A	6.5
24	CY	65	ILE	6.5
35	BA	996	A	6.5

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Mol	Chain	Res	Type	RSRZ
35	DA	949	C	6.5
7	CG	27	ILE	6.5
35	BA	827	U	6.5
1	AA	491	G	6.5
35	DA	1520	G	6.5
36	DB	85	G	6.5
1	AA	694	A	6.5
7	AG	79	ARG	6.5
35	DA	2868	A	6.5
27	B2	19	VAL	6.5
1	AA	877	C	6.5
19	CS	72	GLY	6.5
35	DA	1467	C	6.5
35	DA	1501	C	6.5
35	DA	2521	C	6.5
58	DZ	84	GLU	6.5
35	DA	920	G	6.5
24	CY	339	SER	6.5
1	CA	274	A	6.5
35	BA	2801	A	6.5
28	B3	14	GLY	6.5
35	DA	986	C	6.5
35	DA	2036	C	6.5
35	BA	932	G	6.5
35	BA	1244	G	6.5
35	DA	2446	G	6.5
50	BR	103	ARG	6.5
1	CA	621	A	6.5
37	BC	43	GLU	6.5
58	BZ	123	ASP	6.5
1	AA	268	C	6.5
35	BA	1196	C	6.5
24	CY	153	MET	6.5
37	BC	59	VAL	6.5
22	AW	12	G	6.5
35	DA	2729	G	6.5
40	BF	8	GLN	6.5
7	AG	47	CYS	6.5
2	AB	209	ARG	6.5
35	DA	764	A	6.5
22	AV	3	C	6.5
35	BA	517	C	6.5

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Mol	Chain	Res	Type	RSRZ
35	BA	2040	C	6.5
35	BA	2275	C	6.5
35	DA	2756	U	6.5
4	CD	74	GLN	6.5
35	DA	2318	G	6.5
1	CA	1279	A	6.4
8	AH	31	PHE	6.5
12	AL	12	ARG	6.4
19	CS	4	SER	6.4
35	BA	357	A	6.4
38	DD	37	LEU	6.5
35	BA	2314	C	6.4
37	BC	127	LYS	6.4
24	CY	460	GLU	6.4
1	CA	809	G	6.4
35	DA	2763	G	6.4
37	DC	186	LEU	6.4
1	CA	383	A	6.4
1	AA	1307	U	6.4
12	CL	120	TYR	6.4
35	BA	1070	A	6.4
35	DA	1616	A	6.4
35	DA	2426	A	6.4
36	BB	13	A	6.4
48	BP	50	ARG	6.4
1	CA	599	C	6.4
34	D9	32	HIS	6.4
35	BA	32	C	6.4
35	BA	1121	C	6.4
58	BZ	146	ILE	6.4
22	AV	63	G	6.4
3	AC	92	ALA	6.4
35	BA	2122	U	6.4
1	AA	1397	C	6.4
35	DA	1505	C	6.4
9	CI	10	ARG	6.4
1	CA	380	G	6.4
4	AD	23	GLY	6.4
22	CV	46	G	6.4
35	DA	1776	G	6.4
24	AY	587	SER	6.4
35	BA	1067	A	6.4

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Mol	Chain	Res	Type	RSRZ
35	DA	608	A	6.4
11	CK	105	VAL	6.4
26	D1	59	THR	6.4
1	CA	545	C	6.4
35	DA	1660	C	6.4
35	DA	1934	C	6.4
2	AB	91	PRO	6.4
5	CE	50	GLU	6.4
44	BK	33	ASN	6.4
35	BA	1259	G	6.4
35	BA	227	A	6.4
40	BF	70	THR	6.4
44	BK	132	ARG	6.4
1	AA	620	C	6.4
33	B8	53	PRO	6.4
24	AY	231	TYR	6.4
35	BA	1926	U	6.4
35	DA	2661	G	6.4
3	CC	126	ARG	6.4
22	CV	37	A	6.4
39	DE	13	ARG	6.4
1	CA	519	C	6.4
35	BA	433	C	6.4
1	AA	769	G	6.4
1	AA	1133	G	6.4
35	DA	1031	G	6.4
48	BP	145	PRO	6.4
35	DA	2205	C	6.4
52	BT	89	VAL	6.4
1	AA	180	U	6.4
1	AA	993	G	6.4
35	BA	1539	G	6.4
35	DA	1157	G	6.4
55	BW	9	TYR	6.4
58	DZ	82	ARG	6.4
6	CF	54	LYS	6.4
35	BA	1100	C	6.4
35	BA	2825	C	6.4
29	D4	33	VAL	6.4
52	BT	120	ARG	6.4
1	CA	396	G	6.4
20	AT	69	GLY	6.4

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Mol	Chain	Res	Type	RSRZ
35	BA	2042	A	6.4
35	DA	98	G	6.4
35	DA	1057	A	6.4
35	DA	1459	G	6.4
35	DA	1562	A	6.4
15	AO	44	LYS	6.4
1	CA	1059	C	6.4
35	BA	1102	C	6.4
3	AC	130	VAL	6.4
35	DA	2779	U	6.3
34	D9	11	CYS	6.3
1	AA	1057	G	6.3
24	AY	528	ALA	6.3
35	BA	632	A	6.3
35	BA	805	G	6.3
35	BA	1096	A	6.3
35	DA	1697	G	6.3
1	AA	1327	C	6.3
1	CA	979	C	6.3
35	BA	1291	C	6.3
4	CD	143	GLY	6.3
1	AA	704	A	6.3
27	D2	39	ALA	6.3
35	BA	1245	G	6.3
35	BA	1649	G	6.3
38	BD	271	ILE	6.3
35	BA	1684	C	6.3
35	DA	2140	C	6.3
35	DA	50	U	6.3
2	AB	105	PHE	6.3
35	BA	1301	A	6.3
35	DA	1524	G	6.3
35	DA	2321	G	6.3
49	DQ	56	ARG	6.3
52	DT	129	ARG	6.3
1	CA	501	C	6.3
24	AY	129	LYS	6.3
36	DB	77	U	6.3
48	BP	58	THR	6.3
19	CS	34	TRP	6.3
19	CS	68	GLY	6.3
1	CA	768	A	6.3

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Mol	Chain	Res	Type	RSRZ
35	BA	1847	A	6.3
39	DE	131	ALA	6.3
1	CA	423	G	6.3
1	CA	1486	G	6.3
11	AK	18	ARG	6.3
35	BA	1717	G	6.3
35	DA	968	G	6.3
35	DA	2123	G	6.3
1	CA	910	C	6.3
24	CY	318	ALA	6.3
35	DA	1774	C	6.3
24	CY	584	ILE	6.3
47	BO	1	MET	6.3
48	BP	31	ALA	6.3
52	DT	135	ALA	6.3
35	BA	350	U	6.3
21	CU	23	PRO	6.3
57	DY	77	PRO	6.3
38	BD	75	ILE	6.3
1	CA	10	A	6.3
1	CA	53	A	6.3
23	CX	16	A	6.3
35	DA	2764	A	6.3
35	DA	1149	G	6.3
1	CA	1477	C	6.3
34	D9	5	ALA	6.3
35	BA	1543	C	6.3
35	DA	1793	C	6.3
31	B6	44	ARG	6.3
19	CS	39	THR	6.3
56	BX	38	GLU	6.3
49	DQ	113	GLN	6.3
24	CY	644	ARG	6.3
35	DA	890	A	6.3
35	DA	1971	A	6.3
54	DV	101	GLY	6.3
35	BA	649	G	6.3
35	BA	516	C	6.3
4	CD	199	ASN	6.3
16	AP	36	ILE	6.3
37	DC	61	GLY	6.3
4	CD	122	ARG	6.3

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Mol	Chain	Res	Type	RSRZ
35	BA	1608	A	6.3
35	BA	1741	A	6.3
35	BA	2392	A	6.3
36	BB	15	A	6.3
1	AA	786	G	6.3
35	BA	1416	G	6.3
35	DA	94(A)	G	6.3
44	BK	19	PRO	6.3
1	CA	812	C	6.3
1	CA	1298	C	6.3
37	BC	7	ARG	6.3
7	CG	26	PHE	6.3
20	CT	19	SER	6.3
1	AA	461	A	6.3
17	AQ	68	ARG	6.3
37	DC	49	GLY	6.3
1	AA	333	G	6.3
1	CA	1355	G	6.3
35	BA	1929	G	6.3
35	BA	455	C	6.3
35	DA	21	A	6.3
38	DD	154	LYS	6.3
40	BF	52	LYS	6.3
1	AA	785	G	6.2
1	AA	1043	C	6.2
1	CA	319	G	6.2
23	AX	17	U	6.2
35	BA	834	C	6.2
35	BA	2612	C	6.2
33	B8	29	LYS	6.2
37	DC	70	GLY	6.2
47	DO	56	ASP	6.2
40	BF	161	GLU	6.2
1	CA	1080	A	6.2
1	CA	1513	A	6.2
3	AC	137	ALA	6.2
38	BD	93	ALA	6.2
35	BA	1431	U	6.2
1	AA	748	C	6.2
1	CA	21	G	6.2
35	BA	496	G	6.2
35	BA	708	C	6.2

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Mol	Chain	Res	Type	RSRZ
35	DA	2048	G	6.2
35	DA	2545	G	6.2
41	DG	177	GLY	6.2
47	BO	9	GLU	6.2
35	BA	2873	A	6.2
35	BA	2878	U	6.2
35	DA	1778	U	6.2
35	DA	1834	U	6.2
1	AA	989	C	6.2
1	AA	1112	C	6.2
27	B2	67	LYS	6.2
35	BA	1983	C	6.2
35	BA	2190	G	6.2
8	AH	60	ARG	6.2
24	AY	212	TYR	6.2
17	AQ	97	SER	6.2
20	AT	64	ASP	6.2
22	AV	37	A	6.2
22	AV	44	A	6.2
56	BX	51	VAL	6.2
1	CA	92	C	6.2
4	CD	190	ASP	6.2
16	CP	74	LEU	6.2
35	BA	1039	G	6.2
35	BA	1516	C	6.2
35	DA	1806	C	6.2
42	DH	57	ASP	6.2
57	BY	11	ASP	6.2
19	CS	82	GLY	6.2
1	CA	1302	U	6.2
35	DA	1033	U	6.2
35	DA	1936	A	6.2
1	AA	1233	G	6.2
35	BA	539	G	6.2
35	DA	982	C	6.2
35	DA	1840	G	6.2
35	DA	2494	G	6.2
38	BD	130	ALA	6.2
24	CY	633	GLY	6.2
37	DC	214	TYR	6.2
35	DA	157	U	6.2
35	DA	1159	U	6.2

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Mol	Chain	Res	Type	RSRZ
35	DA	2590	A	6.2
36	DB	45	A	6.2
14	CN	55	GLY	6.2
34	D9	12	ASP	6.2
1	AA	47	C	6.2
35	BA	236	C	6.2
47	BO	89	ASN	6.2
35	BA	2782	G	6.2
35	DA	993	G	6.2
17	AQ	95	TYR	6.2
41	DG	43	LEU	6.2
19	CS	59	PRO	6.2
38	DD	23	GLU	6.2
1	AA	569	C	6.2
22	CW	26	C	6.2
1	CA	127	G	6.2
1	CA	1134	G	6.2
9	CI	120	ARG	6.2
22	AW	27	G	6.2
24	AY	469	GLU	6.2
35	DA	450	G	6.2
7	AG	12	LEU	6.2
29	D4	24	THR	6.2
38	DD	185	VAL	6.2
1	AA	50	A	6.2
1	CA	486	U	6.2
27	B2	34	GLU	6.2
42	DH	51	ARG	6.2
12	AL	28	LYS	6.2
35	BA	531	C	6.2
44	DK	128	ALA	6.2
1	AA	376	G	6.2
17	AQ	63	ARG	6.2
35	BA	1347	G	6.2
35	BA	2486	G	6.2
16	CP	11	SER	6.2
1	AA	1281	U	6.2
35	BA	1090	U	6.2
1	AA	1428	A	6.2
38	BD	187	GLY	6.2
35	BA	595	C	6.2
35	BA	672	C	6.2

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Mol	Chain	Res	Type	RSRZ
35	BA	1743	C	6.2
3	AC	161	GLU	6.2
35	DA	2859	G	6.2
49	BQ	131	ILE	6.2
49	DQ	58	PHE	6.2
52	BT	86	ILE	6.2
35	BA	1489	U	6.2
1	AA	119	A	6.1
1	AA	621	A	6.1
42	DH	56	SER	6.1
48	BP	77	ARG	6.1
35	BA	456	C	6.1
35	DA	153	C	6.1
35	DA	2470	G	6.1
35	DA	2513	G	6.1
48	BP	32	THR	6.1
35	DA	2528	U	6.1
35	BA	2059	A	6.1
35	DA	2311	A	6.1
38	BD	86	PRO	6.1
1	AA	797	C	6.1
35	DA	1291	C	6.1
1	AA	66	G	6.1
1	AA	1064	G	6.1
35	BA	1718	G	6.1
35	BA	1904	G	6.1
35	DA	2852	G	6.1
1	AA	820	U	6.1
1	CA	1363(A)	A	6.1
35	BA	988	A	6.1
14	CN	8	GLU	6.1
38	BD	191	ALA	6.1
52	BT	132	LYS	6.1
33	B8	58	ILE	6.1
36	DB	31	C	6.1
1	AA	183	G	6.1
22	AW	6	G	6.1
24	AY	505	GLY	6.1
35	BA	873	G	6.1
35	BA	1170	G	6.1
35	DA	2895	U	6.1
38	BD	87	ASN	6.1

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Mol	Chain	Res	Type	RSRZ
48	BP	47	ASP	6.1
58	DZ	45	ASP	6.1
1	AA	175	C	6.1
1	CA	995	C	6.1
35	BA	2188	C	6.1
4	CD	59	ARG	6.1
1	AA	957	U	6.1
1	AA	1174	G	6.1
35	BA	224	G	6.1
35	BA	1042	G	6.1
35	DA	1661	G	6.1
35	BA	92	A	6.1
35	BA	1749	A	6.1
35	DA	960	A	6.1
56	BX	24	GLY	6.1
1	CA	1403	C	6.1
2	AB	77	ALA	6.1
35	DA	975(A)	G	6.1
35	DA	1860	G	6.1
35	BA	2600	A	6.1
35	DA	547	A	6.1
35	DA	2850	A	6.1
35	BA	2064	C	6.1
1	AA	148	G	6.1
1	CA	227	G	6.1
42	DH	66	GLY	6.1
1	AA	860	A	6.1
1	AA	1250	A	6.1
1	AA	1332	A	6.1
27	B2	69	ARG	6.1
1	AA	1018	C	6.1
1	CA	372	C	6.1
35	BA	130	C	6.1
35	BA	814	C	6.1
35	BA	2635	C	6.1
50	BR	20	LEU	6.1
24	AY	566	THR	6.1
24	CY	662	LYS	6.1
38	DD	64	ILE	6.1
1	AA	1173	G	6.1
1	CA	538	G	6.1
1	CA	1421	G	6.1

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Mol	Chain	Res	Type	RSRZ
35	DA	1022	G	6.1
35	DA	2793	G	6.1
4	CD	101	LEU	6.1
6	AF	10	LEU	6.1
1	AA	1280	A	6.1
12	AL	68	ALA	6.1
13	CM	106	ASN	6.1
35	DA	2135	A	6.1
38	DD	127	VAL	6.1
50	DR	74	LYS	6.1
1	AA	656	C	6.1
1	CA	1109	C	6.1
1	CA	1237	C	6.1
35	BA	2456	C	6.1
35	BA	2646	C	6.1
35	DA	976	C	6.1
35	DA	2681	C	6.1
35	BA	351	G	6.1
35	DA	1472	A	6.1
35	DA	1571	A	6.1
17	AQ	89	LEU	6.1
24	AY	323	GLY	6.1
35	DA	807	U	6.1
40	BF	94	PRO	6.1
47	DO	72	PRO	6.1
49	BQ	2	LEU	6.1
1	AA	1326	C	6.1
35	BA	624	C	6.1
49	BQ	7	MET	6.0
1	AA	77	G	6.0
21	AU	5	ASP	6.0
22	AW	65	G	6.0
35	BA	1062	G	6.0
35	BA	1191	G	6.0
35	BA	1601	G	6.0
35	BA	2446	G	6.0
35	BA	2634	G	6.0
35	DA	2468	G	6.0
1	AA	729	A	6.0
35	BA	819	A	6.0
35	DA	1618	A	6.0
35	BA	1534	U	6.0

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Mol	Chain	Res	Type	RSRZ
35	BA	2808	U	6.0
1	CA	400	C	6.0
35	DA	144	C	6.0
35	DA	886	C	6.0
42	DH	136	ILE	6.0
29	D4	21	VAL	6.0
16	CP	6	LEU	6.0
35	DA	272(D)	G	6.0
35	DA	1385	G	6.0
35	DA	1389	G	6.0
35	BA	207	A	6.0
54	DV	8	GLY	6.0
49	BQ	64	ILE	6.0
58	DZ	51	ALA	6.0
35	BA	271(G)	C	6.0
38	BD	148	GLU	6.0
57	DY	63	LYS	6.0
1	CA	704	A	6.0
35	DA	623	G	6.0
35	DA	776	G	6.0
58	DZ	123	ASP	6.0
35	BA	2203	U	6.0
35	DA	2647	U	6.0
36	DB	80	U	6.0
1	CA	1163	C	6.0
1	CA	1322	C	6.0
22	AW	29	C	6.0
35	DA	640	C	6.0
35	DA	850	C	6.0
29	D4	43	TYR	6.0
55	BW	48	ALA	6.0
1	AA	167	G	6.0
1	AA	1433	A	6.0
1	CA	286	G	6.0
35	BA	1466	G	6.0
35	DA	2557	G	6.0
36	BB	53	A	6.0
1	CA	1045	C	6.0
35	BA	1988	C	6.0
35	DA	1121	C	6.0
24	AY	6	GLU	6.0
24	CY	379	GLY	6.0

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Mol	Chain	Res	Type	RSRZ
48	BP	72	PRO	6.0
48	BP	35	HIS	6.0
1	AA	737	A	6.0
35	BA	872	A	6.0
35	BA	1077	A	6.0
35	BA	1722	A	6.0
35	BA	1912	A	6.0
35	BA	2588	G	6.0
11	AK	108	ILE	6.0
1	AA	1054	C	6.0
35	BA	1837	C	6.0
35	BA	1920	C	6.0
35	BA	2527	C	6.0
35	DA	698	C	6.0
1	CA	148	G	6.0
1	CA	944	G	6.0
35	BA	1858	G	6.0
35	BA	2435	A	6.0
35	DA	2377	A	6.0
38	BD	63	ARG	6.0
40	BF	164	ARG	6.0
11	AK	63	LEU	6.0
1	AA	1395	C	6.0
1	CA	811	C	6.0
1	CA	1223	C	6.0
47	BO	86	ILE	6.0
35	DA	931	G	6.0
35	DA	1569	A	6.0
35	DA	2020	A	6.0
36	BB	101	G	6.0
36	DB	83	G	6.0
24	CY	550	MET	6.0
58	BZ	107	THR	6.0
1	AA	697	U	6.0
24	CY	583	LYS	6.0
35	DA	1976	U	6.0
1	CA	378	G	6.0
35	BA	818	G	6.0
35	BA	2080	G	6.0
35	DA	1642	G	6.0
44	DK	124	ALA	6.0
3	CC	15	THR	6.0

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Mol	Chain	Res	Type	RSRZ
3	AC	131	ARG	6.0
7	AG	25	ALA	6.0
17	AQ	75	ARG	6.0
24	AY	570	GLY	6.0
35	BA	509	C	6.0
24	CY	282	SER	6.0
24	CY	509	HIS	6.0
3	CC	154	SER	6.0
4	AD	57	ARG	6.0
16	CP	18	ARG	6.0
35	BA	1688	U	6.0
35	BA	1911	U	6.0
35	DA	1931	U	6.0
35	BA	987	G	5.9
35	BA	1667	G	5.9
24	CY	548	GLU	5.9
9	AI	63	ILE	5.9
35	DA	272(F)	C	5.9
35	DA	444	C	5.9
35	DA	566	U	5.9
1	AA	1204	A	5.9
24	AY	335	LEU	5.9
35	BA	1528	A	5.9
35	DA	1927	A	5.9
1	CA	524	G	5.9
27	B2	18	PRO	5.9
11	AK	80	VAL	5.9
35	BA	2648	C	5.9
42	BH	140	LYS	5.9
52	BT	127	ALA	5.9
8	AH	25	ASP	5.9
35	BA	1784	A	5.9
37	BC	182	PRO	5.9
1	AA	649	G	5.9
1	AA	661	G	5.9
35	DA	1421	G	5.9
49	BQ	54	MET	5.9
20	AT	25	ARG	5.9
35	BA	2457	U	5.9
4	CD	141	ARG	5.9
20	AT	96	GLY	5.9
24	CY	587	SER	5.9

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Mol	Chain	Res	Type	RSRZ
35	BA	526	A	5.9
35	BA	1554	A	5.9
35	DA	990	A	5.9
1	CA	1487	G	5.9
35	BA	530	G	5.9
35	DA	1525	G	5.9
10	CJ	63	PHE	5.9
35	DA	1908	C	5.9
44	DK	63	ARG	5.9
44	BK	16	LYS	5.9
35	BA	1928	A	5.9
35	DA	2171	A	5.9
35	DA	2598	A	5.9
35	BA	570	G	5.9
35	BA	760	G	5.9
35	DA	2061	G	5.9
3	CC	170	GLN	5.9
1	CA	1506	U	5.9
12	AL	8	ASN	5.9
53	DU	109	LEU	5.9
1	AA	246	A	5.9
19	CS	58	VAL	5.9
35	BA	578	A	5.9
38	BD	18	VAL	5.9
34	D9	34	GLN	5.9
1	AA	537	G	5.9
15	AO	30	ALA	5.9
35	BA	154	G	5.9
35	DA	1824	G	5.9
38	BD	67	PHE	5.9
56	BX	3	THR	5.9
1	AA	172	A	5.9
1	AA	814	A	5.9
35	BA	1373	A	5.9
35	BA	1542	A	5.9
41	DG	114	ILE	5.9
5	AE	138	ALA	5.9
1	CA	1291	G	5.9
5	AE	74	GLY	5.9
35	DA	2270	G	5.9
1	CA	1327	C	5.9
1	CA	1485	U	5.9

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Mol	Chain	Res	Type	RSRZ
35	BA	949	C	5.9
35	BA	1777	U	5.9
35	BA	2613	U	5.9
35	DA	1432	C	5.9
25	D0	80	HIS	5.9
37	BC	8	TYR	5.9
1	AA	1110	A	5.9
35	DA	1287	A	5.9
35	DA	1509(A)	A	5.9
42	DH	84	SER	5.9
1	AA	584	G	5.9
1	AA	1072	G	5.9
35	BA	642	G	5.9
35	DA	1858	G	5.9
1	AA	457	C	5.9
1	CA	678	U	5.9
22	AW	49	C	5.9
35	BA	1060	U	5.9
17	AQ	50	LYS	5.9
35	BA	1378	A	5.9
35	BA	2015	A	5.9
31	B6	15	GLU	5.9
31	B6	16	CYS	5.9
35	BA	317	G	5.9
35	BA	2470	G	5.9
35	BA	2664	G	5.9
35	DA	1487	G	5.9
35	DA	2271	G	5.9
1	CA	114	U	5.9
1	CA	219	C	5.9
1	CA	1208	C	5.9
35	BA	435	C	5.9
35	BA	1782	C	5.9
35	BA	1832	C	5.9
35	DA	554	U	5.9
35	DA	815	C	5.9
35	DA	851	U	5.9
35	DA	2515	C	5.9
38	BD	170	GLY	5.9
7	AG	24	THR	5.8
24	CY	480	GLN	5.8
42	DH	70	THR	5.8

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Mol	Chain	Res	Type	RSRZ
47	DO	91	LEU	5.8
9	CI	77	ILE	5.8
1	AA	279	A	5.8
1	CA	364	A	5.8
1	CA	828	A	5.8
13	CM	93	ARG	5.8
4	AD	102	ASP	5.8
20	AT	9	ASN	5.8
35	BA	1028	A	5.8
5	CE	26	PHE	5.8
1	AA	585	G	5.8
1	AA	926	G	5.8
1	CA	1523	G	5.8
16	CP	13	HIS	5.8
35	BA	1176	G	5.8
35	DA	2631	G	5.8
1	AA	419	C	5.8
35	DA	1511	C	5.8
35	DA	2163	C	5.8
1	AA	574	A	5.8
1	AA	1396	A	5.8
34	D9	15	LYS	5.8
1	CA	251	G	5.8
22	CW	25	U	5.8
35	BA	114	U	5.8
35	BA	1108	U	5.8
35	BA	2814	C	5.8
35	DA	862	G	5.8
35	DA	2491	U	5.8
11	AK	53	SER	5.8
38	DD	55	GLY	5.8
55	BW	83	LYS	5.8
1	AA	130	A	5.8
3	AC	38	ARG	5.8
14	AN	27	CYS	5.8
35	DA	632	A	5.8
35	DA	1419	A	5.8
2	AB	74	LYS	5.8
26	B1	44	PRO	5.8
35	BA	1590	U	5.8
35	BA	2647	U	5.8
1	CA	488	C	5.8

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Mol	Chain	Res	Type	RSRZ
1	CA	1187	G	5.8
30	B5	16	ARG	5.8
32	B7	41	ARG	5.8
32	B7	17	GLY	5.8
35	BA	2039	C	5.8
6	CF	45	LEU	5.8
24	CY	672	PHE	5.8
25	B0	8	GLY	5.8
35	BA	1103	A	5.8
46	DN	13	TRP	5.8
52	BT	106	SER	5.8
35	BA	2257	U	5.8
9	AI	51	ARG	5.8
12	CL	72	GLY	5.8
15	AO	15	PHE	5.8
41	DG	179	PRO	5.8
1	AA	48	C	5.8
1	CA	1190	G	5.8
22	CV	7	G	5.8
22	CV	68	C	5.8
22	CV	75	C	5.8
35	BA	715	G	5.8
35	BA	1435	G	5.8
35	BA	1753	G	5.8
35	DA	253	C	5.8
35	DA	641	C	5.8
35	DA	1619	G	5.8
35	DA	2400	G	5.8
48	BP	57	THR	5.8
35	BA	331	A	5.8
35	DA	727	A	5.8
35	DA	1241	A	5.8
35	DA	2033	A	5.8
52	DT	42	ILE	5.8
1	CA	1135	U	5.8
53	DU	106	PHE	5.8
33	B8	30	ARG	5.8
35	BA	366	C	5.8
35	BA	461	C	5.8
53	DU	102	GLU	5.8
35	BA	2749	A	5.8
35	DA	1825	A	5.8

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Mol	Chain	Res	Type	RSRZ
24	CY	508	GLY	5.8
35	DA	1706	U	5.8
9	AI	7	THR	5.8
1	CA	1417	G	5.8
14	AN	38	GLY	5.8
35	BA	972	G	5.8
35	DA	733	G	5.8
35	DA	741	G	5.8
57	BY	29	GLU	5.8
14	CN	42	ILE	5.8
38	BD	165	ILE	5.8
1	CA	14	U	5.8
1	CA	534	U	5.8
35	BA	1415	U	5.8
24	AY	283	PRO	5.8
41	DG	161	THR	5.8
1	AA	658	G	5.8
1	CA	1244	C	5.8
35	BA	323	G	5.8
35	BA	585	G	5.8
35	BA	1628	G	5.8
35	BA	1948	G	5.8
35	DA	854	G	5.8
35	DA	1104	C	5.8
35	DA	2338	G	5.8
36	DB	4	C	5.8
42	DH	41	MET	5.8
2	AB	31	TYR	5.8
35	BA	257	A	5.8
35	DA	1142(A)	A	5.8
35	DA	2746	U	5.8
22	AV	13	C	5.8
35	BA	1517	G	5.8
35	DA	729	G	5.8
35	DA	2436	G	5.8
1	AA	13	U	5.8
1	AA	702	A	5.8
7	AG	78	ARG	5.8
12	AL	73	GLU	5.8
30	D5	46	CYS	5.8
35	DA	1572	A	5.8
37	BC	27	ALA	5.8

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Mol	Chain	Res	Type	RSRZ
44	BK	131	ALA	5.8
53	DU	56	ASP	5.8
24	CY	538	TYR	5.7
52	BT	112	ARG	5.7
1	CA	28	G	5.7
35	DA	379	G	5.7
35	DA	1285	G	5.7
35	DA	2156	G	5.7
1	AA	1122	U	5.7
1	AA	1278	U	5.7
35	BA	225	A	5.7
35	BA	586	A	5.7
4	CD	168	ARG	5.7
24	AY	674	ASP	5.7
35	BA	2103	C	5.7
35	DA	2137	C	5.7
1	AA	1002	G	5.7
1	AA	1138	G	5.7
35	BA	2429	G	5.7
13	CM	16	ASP	5.7
25	B0	30	VAL	5.7
3	CC	167	TRP	5.7
34	B9	24	TYR	5.7
35	DA	2825	C	5.7
1	AA	998	G	5.7
35	BA	1149	G	5.7
35	DA	916	G	5.7
1	AA	686	U	5.7
1	CA	1245	A	5.7
35	BA	2748	A	5.7
35	DA	190	A	5.7
50	DR	2	ARG	5.7
15	AO	16	ALA	5.7
24	AY	368	GLU	5.7
16	AP	49	LEU	5.7
44	DK	70	LYS	5.7
16	AP	69	THR	5.7
1	AA	1042	G	5.7
35	BA	1083	U	5.7
35	BA	1436	G	5.7
35	DA	2069	G	5.7
7	AG	111	ARG	5.7

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Mol	Chain	Res	Type	RSRZ
12	CL	41	ARG	5.7
46	DN	96	GLU	5.7
6	AF	9	VAL	5.7
20	AT	77	ALA	5.7
33	B8	52	LYS	5.7
39	DE	20	ALA	5.7
36	DB	60	C	5.7
24	AY	139	MET	5.7
1	AA	189	G	5.7
1	CA	1410	G	5.7
35	DA	79	G	5.7
35	DA	927	G	5.7
1	AA	1518	A	5.7
1	CA	509	A	5.7
22	AV	38	A	5.7
46	DN	135	PRO	5.7
17	AQ	82	MET	5.7
33	B8	14	VAL	5.7
42	DH	35	VAL	5.7
52	BT	67	SER	5.7
57	BY	36	ALA	5.7
16	AP	48	TRP	5.7
36	BB	37	C	5.7
46	DN	79	PRO	5.7
1	AA	6	G	5.7
1	AA	189(L)	G	5.7
1	CA	230	G	5.7
1	CA	1057	G	5.7
7	AG	19	GLY	5.7
35	BA	2807	G	5.7
35	DA	272	G	5.7
4	AD	128	VAL	5.7
40	BF	69	HIS	5.7
24	AY	242	LEU	5.7
32	B7	23	ARG	5.7
1	AA	271	C	5.7
8	AH	114	THR	5.7
11	AK	34	ASP	5.7
25	B0	83	PRO	5.7
35	DA	271(Z)	C	5.7
35	DA	961	C	5.7
1	AA	191	G	5.7

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Mol	Chain	Res	Type	RSRZ
1	AA	765	G	5.7
1	CA	1312	G	5.7
35	BA	579	G	5.7
35	BA	1634	A	5.7
35	BA	2160	G	5.7
35	BA	2569	G	5.7
35	DA	1594	G	5.7
35	DA	2256	G	5.7
35	DA	2733	A	5.7
38	BD	73	VAL	5.7
16	CP	78	GLY	5.7
9	AI	30	GLY	5.7
1	AA	1141	C	5.7
1	CA	1210	C	5.7
22	CV	13	C	5.7
35	BA	2637	U	5.7
35	DA	796	C	5.7
35	DA	1135	C	5.7
1	CA	316	G	5.7
1	CA	1521	G	5.7
7	AG	5	ARG	5.7
50	DR	3	HIS	5.7
1	AA	1246	C	5.7
11	CK	73	MET	5.7
35	DA	1468	C	5.7
24	AY	690	GLY	5.7
49	DQ	140	ALA	5.7
1	AA	802	A	5.7
1	CA	481	G	5.7
1	CA	1493	A	5.7
35	BA	2570	G	5.7
35	DA	1226	A	5.7
50	BR	85	PRO	5.6
8	AH	90	GLY	5.6
33	B8	16	ILE	5.6
37	BC	78	ILE	5.6
17	AQ	62	SER	5.6
24	AY	324	ARG	5.6
1	AA	296	U	5.6
1	AA	804	U	5.6
35	BA	318	C	5.6
35	BA	1939	U	5.6

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Mol	Chain	Res	Type	RSRZ
8	AH	38	ILE	5.6
1	AA	1003	G	5.6
1	CA	111	G	5.6
1	CA	898	G	5.6
35	BA	506	G	5.6
35	BA	1129	A	5.6
35	BA	1896	G	5.6
35	BA	1933	G	5.6
35	BA	2004	G	5.6
2	AB	214	ILE	5.6
4	AD	53	ASP	5.6
11	AK	68	ALA	5.6
3	AC	126	ARG	5.6
35	BA	99	U	5.6
35	BA	2130	U	5.6
35	DA	384	U	5.6
1	AA	234	C	5.6
35	BA	2863	C	5.6
35	BA	2879	C	5.6
35	DA	1080	C	5.6
38	DD	144	ALA	5.6
39	DE	188	VAL	5.6
12	AL	57	LYS	5.6
35	BA	2418	A	5.6
35	BA	2818	G	5.6
35	DA	1192	G	5.6
35	DA	1477	A	5.6
54	DV	51	VAL	5.6
40	BF	128	ALA	5.6
1	AA	841	U	5.6
1	CA	1522	U	5.6
2	AB	14	GLY	5.6
7	AG	141	VAL	5.6
1	AA	386	C	5.6
35	BA	1548	C	5.6
50	BR	7	GLY	5.6
2	CB	83	MET	5.6
1	CA	371	G	5.6
1	CA	800	G	5.6
35	BA	518	G	5.6
35	BA	681	G	5.6
35	BA	2354	G	5.6

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Mol	Chain	Res	Type	RSRZ
1	AA	1012	U	5.6
35	BA	1049	C	5.6
56	BX	70	LEU	5.6
7	AG	54	THR	5.6
1	CA	1394	A	5.6
1	CA	1408	A	5.6
23	AX	14	A	5.6
35	BA	590	A	5.6
35	DA	1148	A	5.6
1	CA	541	G	5.6
32	B7	6	GLN	5.6
35	BA	1154	G	5.6
35	DA	785	G	5.6
11	CK	74	ALA	5.6
17	AQ	35	VAL	5.6
1	CA	381	C	5.6
1	CA	422	C	5.6
35	BA	2620	C	5.6
35	BA	654(J)	A	5.6
35	DA	346	A	5.6
35	DA	783	A	5.6
39	BE	130	GLY	5.6
1	CA	894	G	5.6
35	BA	110	G	5.6
35	DA	281	G	5.6
1	CA	911	U	5.6
15	AO	50	HIS	5.6
1	AA	283	C	5.6
1	AA	840	C	5.6
1	AA	1496	C	5.6
1	CA	1069	C	5.6
24	CY	523	PHE	5.6
24	CY	410	ASP	5.6
35	BA	965	C	5.6
24	CY	580	MET	5.6
13	CM	44	ARG	5.6
44	BK	97	GLY	5.6
35	BA	211	A	5.6
35	DA	2671	A	5.6
40	BF	12	LEU	5.6
1	AA	450	G	5.6
1	CA	1323	G	5.6

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Mol	Chain	Res	Type	RSRZ
35	BA	690	G	5.6
35	BA	928	G	5.6
35	BA	2852	G	5.6
35	DA	1303	G	5.6
35	DA	2655	G	5.6
38	DD	192	THR	5.6
58	DZ	77	ASP	5.6
8	AH	125	ARG	5.6
35	BA	1605	C	5.6
35	DA	1462	C	5.6
48	BP	136	GLU	5.6
50	BR	58	GLY	5.6
7	AG	41	ARG	5.6
1	CA	59	A	5.6
35	BA	1032	A	5.6
35	BA	1265	A	5.6
35	BA	2459	A	5.6
3	AC	95	THR	5.6
1	AA	361	G	5.6
1	CA	755	G	5.6
1	CA	1423	G	5.6
35	DA	1681	G	5.6
37	DC	215	VAL	5.6
35	BA	2551	C	5.6
35	DA	1893	C	5.6
4	AD	119	GLN	5.6
50	BR	9	LYS	5.6
1	AA	1306	A	5.6
37	BC	159	ALA	5.6
1	CA	434	U	5.6
40	BF	138	GLU	5.6
1	CA	73	G	5.6
35	BA	2396	G	5.6
35	DA	2536	G	5.6
24	AY	351	ARG	5.6
37	DC	201	LYS	5.6
4	CD	167	GLY	5.5
1	CA	496	A	5.5
36	BB	100	A	5.5
35	BA	1097	U	5.5
35	BA	1514	U	5.5
1	AA	1094	G	5.5

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Mol	Chain	Res	Type	RSRZ
1	CA	147	G	5.5
1	CA	445	G	5.5
27	B2	57	ILE	5.5
35	DA	360	G	5.5
35	DA	2339	G	5.5
4	AD	64	LEU	5.5
22	AV	54	5MU	5.5
58	DZ	37	VAL	5.5
35	DA	898	C	5.5
35	DA	1565	C	5.5
1	AA	373	A	5.5
35	BA	1084	A	5.5
35	BA	2810	A	5.5
6	AF	13	ASN	5.5
1	AA	70	G	5.5
1	CA	869	G	5.5
35	BA	81	G	5.5
38	BD	22	SER	5.5
50	BR	19	ALA	5.5
55	BW	63	ASP	5.5
41	DG	17	PRO	5.5
1	AA	135	C	5.5
3	CC	182	ILE	5.5
35	BA	846	C	5.5
35	BA	2240	C	5.5
35	BA	2771	C	5.5
57	BY	75	ILE	5.5
42	DH	23	ARG	5.5
35	DA	2580	U	5.5
42	DH	63	SER	5.5
1	CA	115	G	5.5
1	CA	760	G	5.5
1	CA	785	G	5.5
8	AH	122	ARG	5.5
35	DA	1687	G	5.5
13	CM	78	ILE	5.5
35	BA	1040	C	5.5
17	AQ	7	THR	5.5
1	AA	907	A	5.5
1	CA	340	U	5.5
1	CA	551	U	5.5
22	AW	45	A	5.5

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Mol	Chain	Res	Type	RSRZ
24	CY	476	VAL	5.5
35	BA	676	A	5.5
35	BA	1226	A	5.5
35	DA	1276	A	5.5
1	AA	258	G	5.5
3	AC	15	THR	5.5
26	B1	80	LEU	5.5
35	DA	353	G	5.5
11	AK	71	LYS	5.5
35	BA	39	C	5.5
35	DA	691	C	5.5
35	DA	2858	C	5.5
1	CA	252	U	5.5
1	CA	1225	A	5.5
17	AQ	45	HIS	5.5
1	AA	284	G	5.5
1	AA	617	G	5.5
3	AC	11	ARG	5.5
35	BA	2861	G	5.5
35	DA	1626	G	5.5
35	DA	2640	G	5.5
1	CA	390	C	5.5
1	CA	403	C	5.5
1	CA	784	C	5.5
10	AJ	32	ALA	5.5
35	DA	914	C	5.5
35	DA	1941	C	5.5
5	AE	92	LYS	5.5
13	CM	46	LYS	5.5
24	AY	159	ALA	5.5
1	CA	1087	G	5.5
35	BA	620	G	5.5
35	DA	1266	G	5.5
39	BE	31	CYS	5.5
1	CA	217	C	5.5
49	BQ	3	MET	5.5
35	BA	803	U	5.5
35	BA	1300	U	5.5
35	DA	757	U	5.5
58	DZ	81	ARG	5.5
1	AA	665	A	5.5
35	BA	1884	A	5.5

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Mol	Chain	Res	Type	RSRZ
52	BT	80	SER	5.5
1	AA	1013	G	5.5
1	CA	971	G	5.5
35	BA	1160	G	5.5
35	BA	1216	G	5.5
36	DB	117	G	5.5
11	AK	62	GLN	5.5
1	CA	150	C	5.5
1	CA	418	C	5.5
24	CY	478	LYS	5.5
35	BA	1218	C	5.5
35	DA	306	U	5.5
1	CA	246	A	5.5
1	CA	1396	A	5.5
35	BA	1126	A	5.5
24	CY	17	ILE	5.5
31	B6	54	ILE	5.5
41	DG	178	PHE	5.5
50	DR	100	LEU	5.5
39	BE	156	MET	5.5
1	AA	945	G	5.5
1	CA	413	G	5.5
1	CA	1048	G	5.5
22	CV	31	G	5.5
24	AY	548	GLU	5.5
35	BA	290	G	5.5
35	DA	1973	G	5.5
36	BB	97	G	5.5
39	BE	42	ASP	5.5
1	AA	304	U	5.5
1	AA	1297	C	5.5
1	AA	1314	C	5.5
24	CY	479	PRO	5.5
35	BA	1531	C	5.5
35	DA	1004	C	5.5
38	BD	239	ARG	5.5
1	CA	1238	A	5.5
32	B7	32	LYS	5.5
38	BD	172	TYR	5.4
1	AA	104	G	5.4
1	AA	301	G	5.4
2	AB	47	THR	5.4

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Mol	Chain	Res	Type	RSRZ
24	AY	611	THR	5.4
35	BA	2707	G	5.4
35	DA	1401	G	5.4
35	DA	1653	G	5.4
1	AA	1071	C	5.4
1	CA	498	U	5.4
22	AV	32	C	5.4
58	DZ	76	LEU	5.4
30	D5	43	HIS	5.4
1	CA	909	A	5.4
38	BD	97	TYR	5.4
47	BO	81	ASP	5.4
24	AY	590	ILE	5.4
15	AO	53	HIS	5.4
1	CA	392	G	5.4
35	BA	70	G	5.4
35	BA	353	G	5.4
35	BA	1356	G	5.4
35	DA	1933	G	5.4
44	DK	45	THR	5.4
53	DU	93	LYS	5.4
1	AA	596	C	5.4
1	CA	337	C	5.4
8	AH	66	GLY	5.4
3	AC	141	VAL	5.4
35	DA	1412	A	5.4
41	DG	34	LEU	5.4
3	AC	116	VAL	5.4
1	AA	1091	U	5.4
12	AL	118	SER	5.4
1	CA	78	G	5.4
1	CA	1508	G	5.4
35	BA	1361	G	5.4
35	BA	1923	U	5.4
35	BA	2132	U	5.4
35	BA	2367	G	5.4
35	DA	156	U	5.4
52	DT	48	ILE	5.4
1	AA	795	C	5.4
1	CA	1076	C	5.4
35	BA	2840	C	5.4
35	DA	154(A)	C	5.4

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Mol	Chain	Res	Type	RSRZ
35	DA	1100	C	5.4
35	DA	2164	C	5.4
35	DA	2466	C	5.4
56	DX	73	ARG	5.4
1	CA	655	A	5.4
35	BA	1901	A	5.4
2	CB	71	VAL	5.4
50	BR	36	THR	5.4
6	AF	8	ILE	5.4
32	B7	2	LYS	5.4
35	DA	387	U	5.4
48	BP	139	LYS	5.4
1	AA	113	G	5.4
1	AA	388	G	5.4
1	AA	527	G	5.4
1	CA	159	G	5.4
35	BA	1319	G	5.4
35	DA	2645	G	5.4
1	AA	322	C	5.4
1	AA	513	C	5.4
4	CD	42	GLN	5.4
35	BA	2743	C	5.4
35	DA	1072	C	5.4
48	BP	15	ARG	5.4
1	AA	1180	A	5.4
1	CA	134	A	5.4
35	BA	479	A	5.4
26	B1	15	ALA	5.4
35	BA	158	U	5.4
35	BA	1720	U	5.4
35	BA	2702	U	5.4
35	DA	1540	U	5.4
58	BZ	124	ILE	5.4
1	CA	601	C	5.4
1	CA	1258	G	5.4
22	AV	46	G	5.4
35	BA	307	G	5.4
35	BA	1233	C	5.4
35	BA	1793	C	5.4
35	BA	2306	C	5.4
35	DA	842	G	5.4
35	DA	1041	C	5.4

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Mol	Chain	Res	Type	RSRZ
35	DA	1559	G	5.4
35	DA	2303	G	5.4
35	DA	2707	G	5.4
1	CA	448	A	5.4
1	CA	1375	A	5.4
35	BA	1156	A	5.4
35	DA	2274	A	5.4
35	DA	2305	A	5.4
38	DD	105	ILE	5.4
4	AD	190	ASP	5.4
31	B6	9	LEU	5.4
13	CM	6	GLY	5.4
58	DZ	177	PRO	5.4
1	CA	619	U	5.4
1	AA	108	G	5.4
1	AA	1166	G	5.4
1	CA	953	G	5.4
2	AB	62	ALA	5.4
35	BA	756	C	5.4
4	AD	121	VAL	5.4
7	AG	31	MET	5.4
35	BA	890	A	5.4
40	BF	126	VAL	5.4
14	CN	27	CYS	5.4
28	B3	22	ALA	5.4
35	BA	1692	U	5.4
35	DA	1481	U	5.4
4	CD	78	LEU	5.4
51	DS	41	ASP	5.4
1	AA	1336	C	5.4
35	DA	539	G	5.4
35	DA	848	G	5.4
35	DA	2474	C	5.4
1	AA	1046	A	5.4
35	DA	2430	A	5.4
30	D5	2	ALA	5.4
38	DD	201	HIS	5.4
7	AG	134	ALA	5.4
37	DC	182	PRO	5.4
35	BA	1663	C	5.4
35	BA	1975	G	5.4
35	BA	2829	C	5.4

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Mol	Chain	Res	Type	RSRZ
49	DQ	110	THR	5.4
1	AA	1371	G	5.4
32	B7	9	ARG	5.4
36	BB	119	G	5.4
36	DB	107	G	5.4
1	AA	766	A	5.4
1	AA	1408	A	5.4
35	BA	223	A	5.4
35	BA	412	A	5.4
1	CA	997	U	5.4
35	BA	1340	U	5.4
35	BA	2022	U	5.4
35	DA	2514	U	5.4
12	AL	26	ALA	5.4
1	CA	155	C	5.4
1	CA	543	C	5.4
1	CA	1186	G	5.4
22	CV	34	C	5.4
35	BA	271(J)	C	5.4
20	AT	62	LEU	5.4
22	CV	52	G	5.4
35	BA	407	G	5.4
35	BA	830	G	5.4
35	BA	2544	G	5.4
35	BA	2815	C	5.4
35	DA	647	G	5.4
35	DA	1699	G	5.4
35	DA	2574	G	5.4
35	DA	2727	G	5.4
33	B8	6	THR	5.3
35	DA	2076	U	5.3
38	BD	100	GLY	5.3
24	AY	407	PRO	5.3
1	AA	403	C	5.3
1	AA	980	C	5.3
22	CW	35	C	5.3
1	AA	196	A	5.3
1	CA	1346	A	5.3
35	BA	2005	A	5.3
35	DA	1378	A	5.3
35	DA	1641	A	5.3
37	BC	26	ALA	5.3

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Mol	Chain	Res	Type	RSRZ
1	CA	789	U	5.3
35	BA	2068	U	5.3
4	AD	149	ALA	5.3
40	BF	31	HIS	5.3
46	DN	95	PRO	5.3
1	AA	1459	C	5.3
1	AA	673	G	5.3
13	CM	5	ALA	5.3
31	B6	24	GLU	5.3
35	BA	1050	A	5.3
35	BA	2893	G	5.3
35	DA	2013	A	5.3
35	DA	2207	G	5.3
1	AA	49	U	5.3
35	BA	2076	U	5.3
39	DE	35	GLN	5.3
2	AB	82	ARG	5.3
42	DH	76	VAL	5.3
35	BA	2828	C	5.3
35	DA	683	C	5.3
35	DA	2658	C	5.3
1	AA	391	G	5.3
1	AA	451	A	5.3
16	CP	7	ALA	5.3
35	BA	180	G	5.3
35	DA	1355	G	5.3
35	DA	1480	G	5.3
35	DA	2223	G	5.3
35	DA	2225	A	5.3
35	DA	2439	A	5.3
36	BB	82	G	5.3
36	DB	115	G	5.3
27	B2	33	MET	5.3
36	DB	34	U	5.3
39	DE	130	GLY	5.3
2	AB	12	GLU	5.3
3	CC	118	GLN	5.3
16	AP	65	GLN	5.3
1	AA	345	C	5.3
22	CV	64	G	5.3
26	B1	91	LYS	5.3
35	BA	564	C	5.3

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Mol	Chain	Res	Type	RSRZ
35	DA	1402	C	5.3
47	DO	86	ILE	5.3
50	DR	77	ARG	5.3
1	AA	32	A	5.3
35	BA	229	A	5.3
35	BA	682	G	5.3
35	BA	705	A	5.3
35	BA	1960	A	5.3
35	BA	2172	U	5.3
35	DA	1946	U	5.3
24	CY	616	TYR	5.3
40	DF	163	VAL	5.3
47	DO	112	MET	5.3
9	AI	77	ILE	5.3
37	BC	86	GLU	5.3
4	AD	65	ARG	5.3
22	CV	69	C	5.3
35	BA	2175	C	5.3
35	BA	2427	C	5.3
35	BA	2498	C	5.3
35	DA	601	C	5.3
35	DA	1145	C	5.3
48	BP	138	LEU	5.3
40	BF	43	LYS	5.3
35	BA	363	G	5.3
35	BA	744	G	5.3
35	BA	2030	A	5.3
35	BA	2757	A	5.3
35	BA	2847	U	5.3
35	DA	2801(A)	A	5.3
37	DC	97	GLY	5.3
1	CA	36	C	5.3
35	DA	1293	C	5.3
35	DA	1902	C	5.3
1	CA	1301	U	5.3
1	CA	220	G	5.3
35	BA	79	G	5.3
35	BA	2023	G	5.3
35	DA	863	A	5.3
35	DA	2842	G	5.3
56	BX	86	GLY	5.3
22	AV	33	U	5.3

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Mol	Chain	Res	Type	RSRZ
35	BA	914	C	5.3
35	BA	995	C	5.3
1	CA	151	A	5.3
22	AV	72	A	5.3
35	DA	1535	A	5.3
1	CA	199	G	5.3
1	CA	346	G	5.3
27	D2	12	GLU	5.3
9	CI	125	TYR	5.3
24	AY	645	ALA	5.3
37	BC	143	ALA	5.3
38	BD	78	LYS	5.3
50	BR	40	LYS	5.3
52	DT	122	ASP	5.3
1	AA	252	U	5.3
9	CI	128	ARG	5.3
11	AK	47	VAL	5.3
13	CM	91	ARG	5.3
25	B0	82	ARG	5.3
35	BA	1224	C	5.3
35	BA	2696	U	5.3
35	DA	813	U	5.3
35	DA	1757	U	5.3
35	DA	1818	U	5.3
36	BB	70	C	5.3
44	DK	50	ASP	5.3
35	DA	119	A	5.3
35	DA	1126	A	5.3
35	DA	1583	A	5.3
35	DA	2309	A	5.3
1	CA	156	G	5.3
35	BA	1630	G	5.3
35	BA	2116	G	5.3
35	BA	2607	G	5.3
35	DA	1560	G	5.3
5	AE	79	GLU	5.3
52	DT	79	HIS	5.3
58	DZ	125	LEU	5.3
38	DD	26	LYS	5.3
49	DQ	53	ALA	5.3
4	AD	20	TYR	5.3
24	CY	495	GLY	5.3

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Mol	Chain	Res	Type	RSRZ
37	BC	212	SER	5.2
17	AQ	32	TYR	5.2
35	DA	2107	C	5.2
1	AA	760	G	5.2
1	CA	1356	G	5.2
35	DA	2839	G	5.2
46	DN	47	ALA	5.2
8	AH	91	ARG	5.2
49	DQ	106	VAL	5.2
24	CY	15	ILE	5.2
1	CA	352	C	5.2
2	AB	49	GLU	5.2
35	BA	1518	U	5.2
35	DA	1629	U	5.2
22	CV	56	C	5.2
37	BC	89	GLU	5.2
49	BQ	1	MET	5.2
22	AV	76	A	5.2
1	AA	1441	G	5.2
1	CA	347	G	5.2
1	CA	1053	G	5.2
35	DA	298	G	5.2
35	DA	1703	G	5.2
3	CC	127	ARG	5.2
4	CD	192	GLU	5.2
38	DD	53	PHE	5.2
42	DH	36	PRO	5.2
1	CA	368	U	5.2
35	BA	208	C	5.2
35	DA	756	C	5.2
35	DA	2483	C	5.2
10	CJ	84	GLN	5.2
35	BA	1637	A	5.2
35	DA	1177	A	5.2
46	DN	8	GLN	5.2
1	AA	406	G	5.2
1	AA	1387	G	5.2
1	CA	61	G	5.2
1	CA	773	G	5.2
1	CA	1441	G	5.2
35	BA	391	G	5.2
35	BA	2817	G	5.2

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Mol	Chain	Res	Type	RSRZ
35	DA	1756	G	5.2
20	AT	17	ARG	5.2
39	DE	200	GLU	5.2
47	DO	30	ALA	5.2
47	DO	52	VAL	5.2
35	BA	2011	U	5.2
35	DA	1211	U	5.2
9	CI	118	LYS	5.2
17	AQ	52	LYS	5.2
1	CA	174	C	5.2
1	CA	1103	C	5.2
1	CA	1445	C	5.2
26	B1	21	ARG	5.2
53	DU	44	ASN	5.2
8	AH	53	VAL	5.2
35	BA	640	C	5.2
35	DA	404	C	5.2
35	DA	1574	C	5.2
36	BB	32	C	5.2
35	BA	984	A	5.2
35	BA	1155	A	5.2
35	DA	2614	A	5.2
37	BC	115	VAL	5.2
1	CA	1207	G	5.2
11	AK	27	ASN	5.2
35	DA	1382	G	5.2
40	BF	114	VAL	5.2
41	DG	113	ARG	5.2
1	AA	1040	U	5.2
22	AV	50	U	5.2
3	AC	205	GLY	5.2
38	BD	251	GLY	5.2
57	BY	94	LYS	5.2
1	CA	1132	C	5.2
4	AD	60	GLU	5.2
35	BA	1206	G	5.2
35	BA	1721	G	5.2
35	BA	2409	G	5.2
35	BA	2877	G	5.2
35	DA	2502	G	5.2
46	DN	126	PRO	5.2
8	CH	131	GLY	5.2

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Mol	Chain	Res	Type	RSRZ
34	D9	23	VAL	5.2
35	DA	1518	U	5.2
35	DA	1673	U	5.2
1	AA	1412	C	5.2
35	BA	253	C	5.2
35	DA	1224	C	5.2
36	DB	47	C	5.2
53	BU	10	ARG	5.2
35	BA	2033	A	5.2
39	BE	63	LEU	5.2
48	BP	52	GLU	5.2
52	DT	4	GLY	5.2
4	AD	46	LYS	5.2
1	CA	1142	G	5.2
1	CA	1491	G	5.2
4	AD	73	ARG	5.2
4	AD	141	ARG	5.2
11	CK	125	PHE	5.2
35	DA	742	G	5.2
35	DA	875	G	5.2
35	DA	2255	G	5.2
36	BB	81	G	5.2
1	AA	203	U	5.2
35	BA	2189	U	5.2
47	DO	108	GLU	5.2
48	BP	28	GLY	5.2
35	BA	285	C	5.2
35	BA	935	C	5.2
35	BA	1836	C	5.2
35	DA	2386	C	5.2
38	BD	142	VAL	5.2
35	DA	1698	A	5.2
2	CB	165	VAL	5.2
24	AY	542	VAL	5.2
24	CY	412	ALA	5.2
35	BA	592	G	5.2
35	BA	1824	G	5.2
35	DA	1400	G	5.2
40	BF	115	ALA	5.2
1	CA	160	A	5.2
1	CA	706	A	5.2
22	CV	38	A	5.2

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Mol	Chain	Res	Type	RSRZ
24	AY	240	GLU	5.2
42	DH	99	VAL	5.2
1	AA	878	G	5.2
1	AA	886	G	5.2
1	AA	1457	G	5.2
1	CA	718	G	5.2
24	AY	575	VAL	5.2
35	BA	271(N)	U	5.2
35	DA	1115	G	5.2
35	DA	2141	G	5.2
38	DD	235	GLY	5.2
1	AA	882	C	5.2
1	AA	1352	C	5.2
1	CA	1129	C	5.2
35	BA	758	C	5.2
49	BQ	4	PRO	5.2
44	BK	129	GLY	5.2
12	AL	97	ARG	5.1
13	CM	11	ARG	5.1
18	AR	44	LEU	5.1
24	AY	436	PRO	5.1
42	DH	59	ARG	5.1
58	DZ	90	VAL	5.1
35	DA	254	G	5.1
35	DA	680	G	5.1
35	DA	1138	G	5.1
35	BA	1428	C	5.1
35	BA	2385	C	5.1
35	BA	2521	C	5.1
35	DA	2715	C	5.1
29	D4	14	ILE	5.1
1	CA	375	U	5.1
31	B6	18	ARG	5.1
1	AA	725	G	5.1
3	CC	153	VAL	5.1
22	AW	31	G	5.1
27	B2	45	SER	5.1
35	DA	146	G	5.1
24	AY	583	LYS	5.1
3	AC	132	ARG	5.1
27	B2	59	ARG	5.1
38	BD	115	GLN	5.1

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Mol	Chain	Res	Type	RSRZ
1	CA	511	C	5.1
1	CA	990	C	5.1
5	AE	73	ASN	5.1
35	DA	2179	C	5.1
36	DB	30	C	5.1
35	BA	2541	A	5.1
35	BA	2491	U	5.1
35	DA	2739	U	5.1
38	BD	85	ASP	5.1
24	AY	415	PRO	5.1
24	CY	98	MET	5.1
44	DK	136	VAL	5.1
1	CA	1469	G	5.1
21	CU	21	TYR	5.1
35	DA	23	G	5.1
35	DA	880	G	5.1
35	DA	2843	G	5.1
36	DB	76	G	5.1
31	B6	8	LYS	5.1
58	DZ	60	GLU	5.1
24	AY	132	ARG	5.1
28	D3	16	PRO	5.1
35	BA	2601	C	5.1
1	CA	1507	A	5.1
24	CY	321	TYR	5.1
1	AA	788	U	5.1
35	DA	1108	U	5.1
1	AA	378	G	5.1
1	AA	384	G	5.1
5	AE	84	PHE	5.1
35	BA	2482	G	5.1
42	DH	125	VAL	5.1
49	BQ	111	GLU	5.1
1	AA	1322	C	5.1
2	AB	32	ILE	5.1
3	AC	128	PHE	5.1
34	D9	9	ARG	5.1
8	CH	66	GLY	5.1
22	AV	73	A	5.1
35	DA	1474	C	5.1
35	DA	2105	C	5.1
35	DA	2730	C	5.1

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Mol	Chain	Res	Type	RSRZ
35	DA	2776	A	5.1
1	CA	84	U	5.1
2	AB	52	GLU	5.1
7	AG	42	ILE	5.1
1	AA	117	G	5.1
1	AA	1155	G	5.1
1	AA	1271	G	5.1
22	AV	52	G	5.1
46	DN	83	LYS	5.1
24	AY	329	ARG	5.1
1	AA	1289	A	5.1
22	AV	71	C	5.1
35	BA	2395	C	5.1
49	DQ	141	GLN	5.1
1	CA	294	U	5.1
24	AY	381	LYS	5.1
35	DA	578	A	5.1
4	CD	175	SER	5.1
36	BB	14	U	5.1
39	DE	115	GLY	5.1
1	AA	220	G	5.1
1	AA	825	G	5.1
1	CA	105	G	5.1
1	CA	1009	G	5.1
2	AB	161	ALA	5.1
35	BA	488	G	5.1
35	BA	1162	G	5.1
35	BA	1231	G	5.1
35	DA	551	G	5.1
35	DA	1897	G	5.1
35	DA	2206	G	5.1
35	DA	2735	G	5.1
24	AY	382	GLU	5.1
1	AA	723	U	5.1
1	AA	937	A	5.1
1	CA	938	A	5.1
1	CA	1054	C	5.1
20	CT	18	GLN	5.1
35	BA	222	A	5.1
35	BA	2448	A	5.1
39	DE	24	THR	5.1
8	AH	121	ASP	5.1

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Mol	Chain	Res	Type	RSRZ
24	CY	651	GLU	5.1
7	CG	39	ALA	5.1
26	B1	59	THR	5.1
47	BO	16	ALA	5.1
1	AA	426	G	5.1
12	CL	125	PRO	5.1
35	BA	544	G	5.1
35	BA	2379	G	5.1
35	DA	2783	G	5.1
5	AE	111	GLU	5.1
1	CA	487	A	5.1
1	CA	882	C	5.1
4	AD	74	GLN	5.1
20	AT	19	SER	5.1
36	BB	71	C	5.1
47	BO	109	LYS	5.1
1	AA	758	G	5.1
1	AA	1370	G	5.1
1	CA	662	G	5.1
35	BA	2862	G	5.1
54	DV	30	GLY	5.1
1	CA	442	C	5.1
35	DA	38	A	5.1
35	DA	822	U	5.1
35	DA	1926	U	5.1
2	AB	15	VAL	5.1
42	BH	118	PRO	5.1
18	AR	82	THR	5.1
4	CD	144	ASP	5.1
1	AA	1300	G	5.1
35	BA	54	G	5.1
35	BA	348	G	5.1
35	BA	1099	G	5.1
35	BA	1418	G	5.1
35	DA	629	G	5.1
35	DA	1801	G	5.1
35	DA	2253	G	5.1
1	AA	549	C	5.0
1	CA	1086	U	5.0
13	AM	2	ALA	5.0
35	BA	735	A	5.0
35	BA	1963	U	5.0

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Mol	Chain	Res	Type	RSRZ
35	DA	1021	A	5.0
35	DA	1128	A	5.0
42	DH	167	GLU	5.0
40	BF	172	TRP	5.0
11	CK	64	ALA	5.0
49	BQ	48	GLU	5.0
31	B6	36	LEU	5.0
58	DZ	124	ILE	5.0
1	AA	1034	G	5.0
35	BA	1235	G	5.0
35	BA	2672	G	5.0
1	AA	1260	C	5.0
29	D4	37	SER	5.0
35	DA	1680	U	5.0
35	BA	41	C	5.0
35	BA	2530	A	5.0
35	DA	276	A	5.0
9	AI	46	ALA	5.0
37	BC	60	ARG	5.0
39	DE	122	PHE	5.0
8	AH	86	ILE	5.0
28	D3	51	ALA	5.0
35	BA	688	U	5.0
35	BA	1120	G	5.0
35	DA	744	G	5.0
1	AA	225	C	5.0
1	AA	1384	C	5.0
13	AM	115	LYS	5.0
19	CS	49	ILE	5.0
22	CW	29	C	5.0
24	CY	411	VAL	5.0
35	DA	2617	C	5.0
32	B7	34	ARG	5.0
24	CY	455	GLY	5.0
1	AA	142	G	5.0
1	CA	410	G	5.0
35	BA	1709	U	5.0
1	AA	1069	C	5.0
1	AA	1445	C	5.0
22	AV	59	A	5.0
24	AY	416	LYS	5.0
26	B1	66	HIS	5.0

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Mol	Chain	Res	Type	RSRZ
35	BA	1532	C	5.0
35	BA	2134	A	5.0
35	BA	2730	C	5.0
35	DA	1345	C	5.0
35	DA	1386	C	5.0
35	DA	2610	C	5.0
12	CL	22	SER	5.0
38	DD	73	VAL	5.0
57	BY	108	THR	5.0
8	AH	77	GLU	5.0
57	BY	91	GLU	5.0
1	AA	1315	U	5.0
35	BA	1211	U	5.0
35	BA	1249	U	5.0
35	DA	339	U	5.0
35	DA	1081	U	5.0
35	DA	1352	U	5.0
35	BA	26	G	5.0
35	BA	2709	G	5.0
35	DA	1861	G	5.0
24	AY	508	GLY	5.0
35	DA	271(T)	C	5.0
35	DA	2142	C	5.0
39	BE	43	GLY	5.0
50	DR	81	ASP	5.0
38	DD	218	ARG	5.0
3	AC	78	GLY	5.0
24	CY	378	VAL	5.0
42	BH	39	PRO	5.0
24	CY	482	ALA	5.0
35	DA	1798	U	5.0
35	DA	2265	U	5.0
35	BA	1380	G	5.0
35	DA	2220	G	5.0
1	AA	72	C	5.0
1	CA	197	A	5.0
24	AY	224	ASP	5.0
35	BA	1201	C	5.0
35	BA	2572	A	5.0
35	DA	255	A	5.0
35	DA	2054	A	5.0
46	DN	50	ASP	5.0

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Mol	Chain	Res	Type	RSRZ
15	AO	6	GLU	5.0
39	DE	113	PHE	5.0
56	BX	56	THR	5.0
38	BD	264	LYS	5.0
22	CW	55	5MU	5.0
20	AT	95	ALA	5.0
38	BD	84	TYR	5.0
1	AA	830	G	5.0
1	AA	883	C	5.0
1	AA	1117	G	5.0
2	CB	74	LYS	5.0
35	DA	2770	G	5.0
40	BF	23	ASP	5.0
1	CA	589	C	5.0
1	CA	1252	A	5.0
22	CW	17	C	5.0
23	CX	15	A	5.0
35	BA	319	C	5.0
35	BA	1393	A	5.0
35	BA	1670	C	5.0
35	BA	2258	C	5.0
35	BA	2518	A	5.0
35	DA	1214	A	5.0
35	DA	2873	A	5.0
6	CF	101	ALA	5.0
24	AY	233	GLU	5.0
28	D3	15	TYR	5.0
8	AH	64	LYS	5.0
10	CJ	87	THR	5.0
17	AQ	19	VAL	5.0
35	DA	243	U	5.0
30	B5	56	LYS	5.0
1	AA	1223	C	5.0
22	AW	35	C	5.0
22	AW	58	A	5.0
22	CW	7	G	5.0
35	BA	1467	C	5.0
35	BA	2450	A	5.0
35	DA	1445	A	5.0
35	DA	2472	G	5.0
35	DA	2748	A	5.0
36	DB	52	A	5.0

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Mol	Chain	Res	Type	RSRZ
53	DU	103	PRO	5.0
3	CC	28	GLN	5.0
56	BX	25	LYS	5.0
1	AA	1136	U	5.0
1	CA	129	U	5.0
35	BA	839	U	5.0
35	BA	2473	U	5.0
38	BD	45	ASN	5.0
1	AA	1243	C	5.0
1	CA	1117	G	5.0
22	CW	30	G	5.0
35	BA	125	G	5.0
35	BA	215	G	5.0
35	BA	232	G	5.0
36	DB	119	G	5.0
4	AD	93	PHE	5.0
11	AK	49	GLY	5.0
55	BW	49	LYS	5.0
1	AA	1393	U	5.0
1	CA	429	U	5.0
35	BA	1639	U	5.0
35	DA	1794	U	5.0
35	DA	2887	U	5.0
26	B1	72	GLU	4.9
35	BA	543	C	4.9
35	BA	614(B)	G	4.9
35	BA	671	C	4.9
35	BA	2152	G	4.9
35	DA	1896	G	4.9
1	AA	793	U	4.9
11	CK	78	GLN	4.9
35	DA	958	U	4.9
9	AI	37	PHE	4.9
1	AA	1005	A	4.9
1	AA	1216	G	4.9
1	AA	1431	C	4.9
1	CA	764	C	4.9
24	CY	582	PHE	4.9
35	BA	1203	G	4.9
35	BA	2525	G	4.9
35	DA	1124	C	4.9
24	CY	681	LYS	4.9

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Mol	Chain	Res	Type	RSRZ
29	D4	22	ILE	4.9
35	DA	1514	U	4.9
35	DA	2554	U	4.9
28	B3	19	GLN	4.9
11	CK	44	SER	4.9
1	AA	763	G	4.9
1	AA	951	G	4.9
1	CA	507	C	4.9
1	CA	1063	C	4.9
1	CA	1157	A	4.9
35	BA	2678	C	4.9
35	DA	152	G	4.9
39	DE	137	HIS	4.9
21	CU	24	ARG	4.9
37	BC	136	GLY	4.9
39	DE	111	ARG	4.9
56	BX	20	GLY	4.9
24	CY	613	PRO	4.9
18	AR	34	TYR	4.9
58	DZ	29	TYR	4.9
3	CC	194	GLY	4.9
46	DN	73	THR	4.9
1	CA	242	C	4.9
16	AP	59	TRP	4.9
35	BA	722	A	4.9
35	DA	1027	A	4.9
35	DA	1701	A	4.9
1	AA	181	G	4.9
1	CA	1516	G	4.9
22	CV	22	G	4.9
35	BA	742	G	4.9
35	DA	122	G	4.9
35	DA	831	G	4.9
36	DB	67	G	4.9
19	CS	12	ASP	4.9
28	B3	20	LYS	4.9
35	DA	147	U	4.9
24	CY	494	GLU	4.9
2	AB	73	THR	4.9
11	AK	14	VAL	4.9
1	AA	1103	C	4.9
1	AA	1245	A	4.9

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Mol	Chain	Res	Type	RSRZ
1	CA	116	A	4.9
35	BA	1370	C	4.9
35	BA	1409	C	4.9
35	BA	1657	C	4.9
35	DA	480	A	4.9
35	DA	2170	A	4.9
35	DA	2589	A	4.9
38	BD	108	PRO	4.9
1	CA	897	C	4.9
35	DA	967	C	4.9
35	DA	2828	C	4.9
1	AA	128	G	4.9
1	AA	1070	U	4.9
1	AA	1139	G	4.9
1	CA	38	G	4.9
1	CA	57	G	4.9
1	CA	955	U	4.9
12	AL	47	LYS	4.9
35	BA	7	G	4.9
35	BA	17	G	4.9
35	BA	1212	G	4.9
35	BA	2830	G	4.9
35	DA	1479	G	4.9
47	BO	77	ILE	4.9
24	AY	239	GLU	4.9
4	AD	45	GLN	4.9
24	AY	232	LEU	4.9
47	BO	18	LYS	4.9
56	BX	65	ARG	4.9
5	AE	103	GLY	4.9
24	CY	405	PRO	4.9
1	AA	759	A	4.9
1	AA	1030(D)	A	4.9
35	DA	1020	A	4.9
35	DA	1220	A	4.9
35	DA	2540	C	4.9
39	BE	93	VAL	4.9
1	CA	1070	U	4.9
2	AB	102	LEU	4.9
35	BA	1056	G	4.9
35	BA	2555	U	4.9
35	DA	348	G	4.9

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Mol	Chain	Res	Type	RSRZ
24	CY	609	GLU	4.9
3	CC	79	ARG	4.9
13	CM	104	ARG	4.9
14	CN	57	ARG	4.9
26	B1	77	ALA	4.9
36	DB	15	A	4.9
14	CN	25	VAL	4.9
35	BA	339	U	4.9
1	AA	107	G	4.9
1	AA	895	G	4.9
4	AD	54	TYR	4.9
35	BA	669	G	4.9
35	BA	881	G	4.9
35	BA	1299	G	4.9
35	BA	1448	G	4.9
35	BA	1770	G	4.9
35	DA	326	G	4.9
35	DA	1674	G	4.9
35	DA	2340	G	4.9
2	AB	194	PRO	4.9
47	BO	110	GLY	4.9
38	BD	217	ARG	4.9
1	AA	71	C	4.9
1	AA	367	U	4.9
1	AA	828	A	4.9
1	CA	45	U	4.9
7	AG	30	ILE	4.9
35	BA	38	A	4.9
35	BA	112	U	4.9
35	BA	2114	A	4.9
35	BA	2724	C	4.9
35	DA	922	U	4.9
35	DA	2808	U	4.9
35	DA	2888	C	4.9
1	CA	42	G	4.9
10	CJ	58	ASP	4.9
22	AW	71	G	4.9
35	BA	2445	G	4.9
35	DA	864	G	4.9
35	DA	1436	G	4.9
35	DA	2358	G	4.9
36	DB	7	G	4.9

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Mol	Chain	Res	Type	RSRZ
44	BK	43	ALA	4.9
58	BZ	144	LEU	4.9
1	AA	360	A	4.9
1	AA	1256	A	4.9
12	CL	35	GLY	4.9
35	DA	2267	A	4.9
38	BD	74	GLY	4.9
7	CG	101	LEU	4.9
35	BA	1292	U	4.9
35	BA	1662	C	4.9
35	BA	2756	U	4.9
55	BW	6	ILE	4.9
35	DA	1536	C	4.9
1	AA	460	G	4.8
1	AA	1347	G	4.8
8	AH	5	PRO	4.8
35	BA	42	G	4.8
35	BA	845	G	4.8
35	DA	469	G	4.8
35	DA	1068	G	4.8
35	DA	1945	G	4.8
38	BD	118	VAL	4.8
2	AB	10	LEU	4.8
38	DD	255	LYS	4.8
1	CA	229	U	4.8
1	CA	1056	U	4.8
24	CY	625	ASN	4.8
35	BA	1045	A	4.8
35	BA	2804	C	4.8
35	DA	172	C	4.8
35	DA	272(J)	C	4.8
35	DA	2497	A	4.8
35	DA	2778	A	4.8
13	CM	27	LYS	4.8
35	DA	2804	C	4.8
46	DN	136	GLU	4.8
1	AA	858	G	4.8
1	AA	1304	G	4.8
1	CA	1253	G	4.8
35	BA	563	G	4.8
35	BA	785	G	4.8
35	DA	386	G	4.8

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Mol	Chain	Res	Type	RSRZ
4	CD	58	LEU	4.8
5	AE	120	THR	4.8
11	CK	21	ILE	4.8
1	CA	716	A	4.8
35	BA	1970	A	4.8
35	DA	350	U	4.8
35	DA	1078	U	4.8
35	BA	1979	C	4.8
35	BA	327	G	4.8
35	BA	582	G	4.8
35	BA	2184	G	4.8
35	DA	24	G	4.8
35	DA	2396	G	4.8
24	CY	192	LEU	4.8
19	AS	55	LYS	4.8
29	D4	36	CYS	4.8
1	CA	427	U	4.8
1	AA	1346	A	4.8
1	CA	1239	A	4.8
35	BA	190	A	4.8
35	BA	2464	C	4.8
35	DA	322	A	4.8
35	DA	730	C	4.8
24	AY	131	PRO	4.8
54	BV	66	ARG	4.8
1	CA	124	G	4.8
1	CA	232	G	4.8
1	CA	473	G	4.8
1	CA	1106	G	4.8
1	CA	1173	G	4.8
1	CA	1305	G	4.8
35	BA	370	G	4.8
35	DA	1310	G	4.8
11	AK	26	ASN	4.8
16	CP	79	VAL	4.8
1	AA	1078	U	4.8
1	CA	793	U	4.8
9	AI	40	LEU	4.8
1	AA	645	C	4.8
1	CA	615	C	4.8
1	CA	777	A	4.8
35	BA	2598	A	4.8

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Mol	Chain	Res	Type	RSRZ
51	BS	55	ALA	4.8
22	AV	28	C	4.8
35	DA	1217	C	4.8
2	AB	211	ILE	4.8
7	AG	8	GLU	4.8
1	AA	530	G	4.8
1	CA	942	G	4.8
1	CA	988	G	4.8
4	AD	91	SER	4.8
16	CP	77	ALA	4.8
35	DA	684	G	4.8
35	BA	193	U	4.8
10	CJ	40	LEU	4.8
11	CK	68	ALA	4.8
1	AA	1230	C	4.8
23	CX	12	A	4.8
35	DA	2062	A	4.8
35	DA	2675	A	4.8
50	BR	53	HIS	4.8
50	BR	92	GLY	4.8
1	AA	1131	G	4.8
1	CA	515	G	4.8
1	CA	670	G	4.8
7	AG	137	LYS	4.8
35	BA	259	G	4.8
35	BA	338	G	4.8
35	DA	1807	G	4.8
38	DD	138	VAL	4.8
54	DV	64	HIS	4.8
1	AA	636	U	4.8
1	AA	956	U	4.8
3	CC	192	THR	4.8
38	DD	211	ARG	4.8
37	DC	192	ALA	4.8
56	DX	13	LEU	4.8
1	AA	1394	A	4.8
1	CA	250	A	4.8
1	CA	680	C	4.8
35	BA	1001	A	4.8
35	BA	1755	A	4.8
35	BA	1942	C	4.8
35	BA	2477	C	4.8

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Mol	Chain	Res	Type	RSRZ
35	DA	1452	A	4.8
35	DA	1592	C	4.8
35	DA	2452	C	4.8
14	AN	8	GLU	4.8
24	AY	311	ALA	4.8
57	DY	14	LEU	4.8
35	BA	1044	G	4.8
35	BA	1482	G	4.8
35	DA	1356	G	4.8
35	DA	1533	G	4.8
35	DA	2553	G	4.8
49	BQ	18	LYS	4.8
24	CY	237	PRO	4.8
35	BA	1693	U	4.8
35	DA	555	U	4.8
35	DA	913	U	4.8
2	AB	65	GLY	4.8
39	BE	157	ALA	4.8
35	BA	608	A	4.8
35	BA	899	A	4.8
35	BA	1148	A	4.8
35	BA	2352	A	4.8
35	BA	2835	A	4.8
35	DA	182	A	4.8
35	DA	191	A	4.8
35	DA	1960	A	4.8
1	CA	71	C	4.8
1	CA	1363	C	4.8
35	BA	364	C	4.8
24	CY	123	ARG	4.8
1	CA	238	G	4.8
35	BA	602	G	4.8
35	BA	2339	G	4.8
35	BA	2524	G	4.8
35	BA	2729	G	4.8
35	DA	1219	G	4.8
35	DA	1633	G	4.8
36	DB	63	G	4.8
11	AK	35	PRO	4.8
35	DA	1955	U	4.8
11	CK	38	ASN	4.8
24	AY	275	ALA	4.8

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Mol	Chain	Res	Type	RSRZ
1	AA	1275	A	4.8
35	BA	750	A	4.8
35	BA	1253	A	4.8
35	DA	933	A	4.8
39	BE	176	ILE	4.8
48	BP	98	GLU	4.8
35	BA	772	C	4.8
49	DQ	108	GLY	4.8
4	AD	21	LEU	4.8
42	DH	46	GLU	4.8
35	BA	463	G	4.8
35	BA	1863	G	4.8
35	DA	763	G	4.8
35	DA	1151	G	4.8
35	DA	1277	G	4.8
35	DA	2780	G	4.8
57	BY	101	LYS	4.8
24	AY	114	VAL	4.7
32	B7	27	GLY	4.7
35	DA	1275	A	4.7
1	CA	314	C	4.7
35	BA	1052	C	4.7
3	AC	103	VAL	4.7
30	B5	60	VAL	4.7
7	CG	52	GLU	4.7
1	AA	1272	G	4.7
1	CA	855	G	4.7
1	CA	998	G	4.7
35	BA	569	U	4.7
35	DA	833	U	4.7
2	AB	196	LEU	4.7
13	CM	96	LEU	4.7
26	B1	13	ILE	4.7
55	BW	96	ILE	4.7
1	AA	969	A	4.7
1	AA	1041	A	4.7
35	BA	2813	A	4.7
38	BD	255	LYS	4.7
46	DN	123	TYR	4.7
7	AG	14	PRO	4.7
35	BA	2368	C	4.7
35	DA	665	C	4.7

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Mol	Chain	Res	Type	RSRZ
35	DA	2774	C	4.7
35	DA	2827	C	4.7
38	BD	69	ARG	4.7
1	AA	99	U	4.7
24	AY	41	LYS	4.7
35	BA	2437	U	4.7
1	AA	371	G	4.7
35	BA	2290	G	4.7
35	DA	928	G	4.7
35	DA	1695	G	4.7
35	DA	2104	G	4.7
35	DA	2219	G	4.7
39	BE	138	PRO	4.7
4	AD	10	ARG	4.7
54	DV	9	GLY	4.7
12	CL	110	VAL	4.7
35	DA	415	A	4.7
35	DA	988	A	4.7
35	DA	2378	A	4.7
1	AA	1210	C	4.7
1	AA	1303	C	4.7
1	CA	1412	C	4.7
24	CY	311	ALA	4.7
35	BA	1711	C	4.7
35	DA	209	C	4.7
35	DA	1363	C	4.7
35	DA	1672	C	4.7
44	DK	127	ILE	4.7
46	DN	110	GLY	4.7
48	BP	141	ALA	4.7
1	AA	1148	U	4.7
22	AW	8	U	4.7
1	AA	1001(A)	G	4.7
1	CA	700	G	4.7
4	CD	43	HIS	4.7
9	AI	73	GLN	4.7
35	BA	1444	G	4.7
35	DA	54	G	4.7
1	CA	1102	A	4.7
1	CA	1468	A	4.7
35	BA	1278	A	4.7
35	DA	271(A)	A	4.7

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Mol	Chain	Res	Type	RSRZ
35	DA	282	A	4.7
35	DA	1579	A	4.7
35	DA	2019	A	4.7
1	CA	34	C	4.7
1	CA	796	C	4.7
24	AY	523	PHE	4.7
35	BA	581	C	4.7
35	DA	846	C	4.7
35	DA	2863	C	4.7
36	DB	36	C	4.7
1	AA	189(K)	U	4.7
1	AA	202	U	4.7
35	BA	1794	U	4.7
35	DA	1693	U	4.7
35	DA	1956	U	4.7
28	D3	41	PRO	4.7
57	BY	40	GLU	4.7
58	BZ	177	PRO	4.7
35	BA	2838	G	4.7
35	DA	830	G	4.7
35	DA	1842	G	4.7
35	DA	1929	G	4.7
35	DA	2599	G	4.7
36	DB	98	G	4.7
40	BF	74	ARG	4.7
1	CA	523	A	4.7
35	DA	357	A	4.7
35	DA	1077	A	4.7
1	AA	36	C	4.7
35	BA	2248	C	4.7
35	BA	2816	C	4.7
41	DG	107	LEU	4.7
1	AA	591	U	4.7
24	CY	43	GLY	4.7
35	DA	1133	U	4.7
1	AA	1386	G	4.7
1	CA	1361	G	4.7
10	CJ	13	HIS	4.7
40	DF	85	GLY	4.7
52	BT	113	LYS	4.7
5	CE	48	ALA	4.7
11	AK	79	SER	4.7

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Mol	Chain	Res	Type	RSRZ
35	BA	283	A	4.7
35	BA	532	A	4.7
35	BA	1490	A	4.7
35	BA	2533	A	4.7
35	DA	750	A	4.7
35	DA	1553	A	4.7
1	AA	479	C	4.7
35	DA	1298	C	4.7
34	B9	16	VAL	4.7
39	DE	190	GLY	4.7
35	BA	2113	U	4.7
48	BP	29	LYS	4.7
13	CM	82	MET	4.7
35	BA	775	G	4.7
35	DA	93	G	4.7
35	DA	1311	G	4.7
1	CA	162	A	4.7
1	CA	382	A	4.7
1	CA	441	A	4.7
5	AE	70	PRO	4.7
35	DA	1460	A	4.7
35	DA	2753	A	4.7
35	BA	2841	C	4.7
35	DA	1962	C	4.7
1	AA	565	U	4.7
35	BA	33	U	4.7
35	BA	1818	U	4.7
35	DA	2547	U	4.7
24	CY	338	GLY	4.7
44	DK	53	VAL	4.7
47	DO	118	ALA	4.7
1	AA	396	G	4.7
1	AA	1273	G	4.7
1	CA	1224	G	4.7
1	CA	1489	G	4.7
3	AC	67	THR	4.7
35	BA	794	G	4.7
13	CM	89	GLY	4.7
14	AN	4	LYS	4.7
35	BA	1573	G	4.7
35	BA	1756	G	4.7
37	DC	162	ILE	4.7

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Mol	Chain	Res	Type	RSRZ
57	DY	103	GLY	4.7
1	AA	160	A	4.7
10	AJ	8	LEU	4.7
19	CS	22	LEU	4.7
1	CA	1040	U	4.7
35	BA	12	U	4.7
35	BA	650	C	4.7
35	BA	1915	U	4.7
35	DA	605	C	4.7
2	AB	239	VAL	4.7
44	DK	112	MET	4.7
5	AE	106	PRO	4.7
1	CA	671	G	4.7
6	AF	42	GLU	4.7
16	AP	58	TYR	4.7
35	BA	2230	G	4.7
35	BA	2400	G	4.7
35	DA	704	G	4.7
35	DA	1857	G	4.7
57	DY	65	ALA	4.7
1	AA	510	A	4.7
1	CA	389	A	4.7
35	BA	1098	A	4.7
48	BP	85	LEU	4.7
49	DQ	123	HIS	4.7
35	BA	2295	C	4.7
35	DA	1019	U	4.7
35	DA	2457	U	4.7
6	AF	29	ALA	4.7
12	CL	17	LYS	4.7
17	AQ	100	LYS	4.7
24	AY	525	PHE	4.6
47	DO	71	ARG	4.6
49	DQ	134	ARG	4.6
35	BA	27	G	4.6
35	BA	1758	G	4.6
35	DA	272(B)	G	4.6
1	CA	33	A	4.6
35	BA	529	A	4.6
35	BA	1509(A)	A	4.6
36	DB	39	A	4.6
57	DY	43	ASN	4.6

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Mol	Chain	Res	Type	RSRZ
35	DA	208	C	4.6
9	CI	26	VAL	4.6
24	CY	652	MET	4.6
44	DK	18	THR	4.6
50	DR	16	HIS	4.6
24	CY	409	ILE	4.6
1	AA	60	A	4.6
1	AA	1413	A	4.6
1	CA	344	A	4.6
1	CA	684	A	4.6
1	CA	1229	A	4.6
3	AC	107	GLN	4.6
35	DA	1086	A	4.6
1	CA	312	C	4.6
2	AB	17	PHE	4.6
35	BA	144	C	4.6
35	BA	2107	C	4.6
35	BA	2417	C	4.6
35	BA	2483	C	4.6
35	DA	34	C	4.6
35	DA	2879	C	4.6
36	DB	2	C	4.6
44	DK	129	GLY	4.6
39	DE	191	PRO	4.6
46	BN	11	PRO	4.6
2	CB	80	ILE	4.6
8	AH	129	VAL	4.6
25	D0	14	ARG	4.6
50	BR	77	ARG	4.6
1	CA	1365	G	4.6
35	BA	558	G	4.6
35	BA	1377	G	4.6
35	BA	1903	G	4.6
35	DA	265	A	4.6
35	DA	2224	G	4.6
35	DA	2624	G	4.6
56	BX	87	GLN	4.6
1	CA	311	C	4.6
1	CA	479	C	4.6
1	CA	522	C	4.6
1	CA	1114	C	4.6
35	BA	856	C	4.6

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Mol	Chain	Res	Type	RSRZ
7	CG	131	LYS	4.6
10	AJ	43	ARG	4.6
35	DA	319	C	4.6
35	DA	2006	C	4.6
38	BD	211	ARG	4.6
40	DF	135	LYS	4.6
2	AB	33	TYR	4.6
9	CI	46	ALA	4.6
39	BE	125	GLY	4.6
54	DV	99	ILE	4.6
1	AA	162	A	4.6
1	AA	971	G	4.6
1	AA	1301	U	4.6
1	AA	1302	U	4.6
1	AA	1331	G	4.6
1	CA	1042	G	4.6
1	CA	1088	G	4.6
1	CA	1422	G	4.6
12	CL	45	PRO	4.6
35	BA	431	U	4.6
38	DD	175	LEU	4.6
35	BA	654(A)	G	4.6
35	BA	2331	G	4.6
35	DA	866	A	4.6
35	DA	1469	A	4.6
35	DA	1792	G	4.6
35	DA	2731	G	4.6
42	DH	21	PRO	4.6
4	CD	36	ARG	4.6
5	CE	62	ALA	4.6
12	CL	63	GLY	4.6
24	CY	505	GLY	4.6
13	CM	57	ARG	4.6
14	CN	11	LYS	4.6
35	BA	419	C	4.6
35	DA	720	C	4.6
24	AY	14	ASN	4.6
24	AY	435	ASP	4.6
7	AG	10	ARG	4.6
55	BW	5	ALA	4.6
24	CY	624	LEU	4.6
56	BX	9	LEU	4.6

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Mol	Chain	Res	Type	RSRZ
1	CA	117	G	4.6
1	CA	149	A	4.6
1	CA	1094	G	4.6
22	CV	58	A	4.6
35	BA	275	G	4.6
35	DA	638	G	4.6
35	DA	2516	G	4.6
1	AA	1192	C	4.6
7	AG	116	ALA	4.6
11	AK	64	ALA	4.6
11	AK	126	ARG	4.6
35	DA	812	C	4.6
35	DA	2840	C	4.6
36	DB	114	C	4.6
56	BX	41	ASN	4.6
24	AY	527	ASN	4.6
27	B2	49	LYS	4.6
1	AA	1196	U	4.6
5	AE	93	PRO	4.6
35	BA	807	U	4.6
54	DV	18	LEU	4.6
1	CA	257	G	4.6
1	CA	752	G	4.6
1	CA	1177	G	4.6
3	CC	137	ALA	4.6
35	BA	83	G	4.6
35	DA	1748	G	4.6
35	DA	1977	A	4.6
1	CA	489	C	4.6
1	CA	849	C	4.6
35	BA	2610	C	4.6
35	DA	2293	C	4.6
2	AB	59	GLU	4.6
54	DV	98	GLU	4.6
35	DA	2034	U	4.6
13	CM	77	ASN	4.6
1	AA	577	G	4.6
1	CA	302	G	4.6
1	CA	1188	A	4.6
35	BA	1703	G	4.6
35	DA	911	A	4.6
35	DA	1111	A	4.6

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Mol	Chain	Res	Type	RSRZ
1	AA	176	C	4.6
1	CA	1367	C	4.6
10	AJ	10	GLY	4.6
35	DA	2444	G	4.6
4	AD	97	LEU	4.6
35	BA	2785	C	4.6
46	DN	85	ILE	4.6
3	CC	197	GLY	4.6
11	AK	46	GLY	4.6
12	CL	55	VAL	4.6
58	DZ	13	GLU	4.6
22	AV	27	U	4.6
24	AY	80	ASN	4.6
35	DA	847	U	4.6
36	BB	41	U	4.6
47	BO	64	ARG	4.6
50	DR	91	GLN	4.6
18	AR	80	PRO	4.6
32	B7	24	THR	4.6
1	AA	499	A	4.6
1	AA	572	A	4.6
1	AA	819	A	4.6
1	AA	1398	A	4.6
13	CM	2	ALA	4.6
35	BA	1241	A	4.6
35	DA	676	A	4.6
35	DA	1204	A	4.6
38	DD	199	ALA	4.6
1	AA	19	C	4.6
1	AA	484	G	4.6
1	AA	881	G	4.6
1	CA	491	G	4.6
2	AB	61	LEU	4.6
5	AE	72	GLN	4.6
8	AH	59	LEU	4.6
18	AR	85	LEU	4.6
35	BA	817	C	4.6
35	BA	1264	G	4.6
35	BA	2896	C	4.6
35	DA	622	G	4.6
35	DA	682	G	4.6
35	DA	2221	G	4.6

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Mol	Chain	Res	Type	RSRZ
24	AY	289	ILE	4.6
7	AG	39	ALA	4.6
35	BA	2272	U	4.6
53	DU	58	ARG	4.6
38	BD	246	PRO	4.6
54	DV	11	GLN	4.6
1	AA	1151	A	4.6
5	AE	17	ALA	4.6
35	BA	1978	A	4.6
35	BA	2019	A	4.6
36	BB	39	A	4.6
1	AA	230	G	4.5
1	AA	514	C	4.5
1	CA	46	G	4.5
1	CA	1476	G	4.5
1	CA	1488	G	4.5
16	AP	72	ARG	4.5
35	BA	659	C	4.5
35	BA	864	G	4.5
35	BA	1207	C	4.5
35	BA	1891	G	4.5
35	BA	2735	G	4.5
35	DA	82	G	4.5
35	DA	806	C	4.5
39	BE	205	ALA	4.5
2	AB	145	LEU	4.5
4	AD	101	LEU	4.5
35	DA	709	U	4.5
35	DA	2712	U	4.5
38	BD	155	LEU	4.5
41	DG	11	TYR	4.5
1	CA	55	A	4.5
1	CA	889	A	4.5
35	BA	502	A	4.5
35	DA	1580	A	4.5
1	CA	259	G	4.5
1	CA	633	G	4.5
35	BA	386	G	4.5
35	BA	1051	G	4.5
35	BA	1984	G	4.5
35	BA	2187	G	4.5
35	BA	2452	C	4.5

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Mol	Chain	Res	Type	RSRZ
35	BA	2508	G	4.5
35	BA	2869	G	4.5
35	DA	1280	G	4.5
35	DA	1711	C	4.5
35	DA	2152	G	4.5
36	DB	50	G	4.5
29	D4	49	PHE	4.5
37	DC	38	PHE	4.5
52	DT	58	ASN	4.5
1	AA	641	U	4.5
2	AB	97	TRP	4.5
29	B4	3	GLU	4.5
9	AI	126	SER	4.5
35	BA	878	A	4.5
35	DA	314	A	4.5
35	DA	2392	A	4.5
36	DB	59	A	4.5
1	CA	798	G	4.5
1	CA	1037	C	4.5
4	CD	150	GLU	4.5
9	AI	16	ARG	4.5
22	AW	66	C	4.5
35	BA	194	G	4.5
35	BA	1617	C	4.5
35	DA	128	C	4.5
35	DA	701	G	4.5
35	DA	1575	C	4.5
35	DA	1686	C	4.5
1	AA	1086	U	4.5
24	CY	588	MET	4.5
44	DK	131	ALA	4.5
1	CA	1500	A	4.5
35	BA	428	A	4.5
9	AI	109	VAL	4.5
1	AA	1342	C	4.5
1	CA	272	C	4.5
1	CA	1347	G	4.5
5	AE	24	ARG	4.5
5	CE	37	ARG	4.5
35	BA	82	G	4.5
35	DA	1702	G	4.5
4	CD	152	SER	4.5

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Mol	Chain	Res	Type	RSRZ
9	AI	88	TYR	4.5
35	BA	922	U	4.5
58	DZ	38	TYR	4.5
41	DG	9	ARG	4.5
58	DZ	95	PRO	4.5
35	BA	2764	A	4.5
35	DA	2059	A	4.5
1	AA	1359	C	4.5
12	AL	103	GLY	4.5
49	BQ	129	THR	4.5
1	CA	881	G	4.5
1	CA	933	G	4.5
4	CD	26	CYS	4.5
35	BA	85	G	4.5
35	BA	93	G	4.5
35	BA	1161	C	4.5
35	BA	1589	C	4.5
35	BA	2036	C	4.5
35	BA	2548	G	4.5
35	DA	693	C	4.5
35	DA	1244	G	4.5
35	DA	1628	G	4.5
35	DA	2049	G	4.5
1	AA	343	U	4.5
1	AA	531	U	4.5
1	AA	905	U	4.5
11	AK	129	SER	4.5
15	AO	39	LEU	4.5
49	BQ	108	GLY	4.5
2	CB	111	ARG	4.5
1	CA	675	A	4.5
1	CA	748	C	4.5
35	BA	2539	C	4.5
35	DA	1403	C	4.5
1	CA	299	G	4.5
1	CA	1220	G	4.5
35	BA	674	G	4.5
35	BA	1742	G	4.5
35	DA	219	G	4.5
35	DA	2148	G	4.5
35	BA	1757	U	4.5
39	BE	84	PHE	4.5

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Mol	Chain	Res	Type	RSRZ
48	BP	104	GLY	4.5
44	DK	104	VAL	4.5
11	AK	120	ARG	4.5
41	DG	180	PHE	4.5
1	AA	1434	A	4.5
11	CK	98	LEU	4.5
21	CU	12	LYS	4.5
28	D3	50	VAL	4.5
35	BA	654	A	4.5
35	BA	1509(B)	A	4.5
35	DA	824	A	4.5
40	BF	116	ASP	4.5
1	CA	1066	C	4.5
35	BA	691	C	4.5
37	DC	175	PRO	4.5
1	AA	7	G	4.5
1	CA	239	U	4.5
35	BA	1159	U	4.5
35	DA	1951	U	4.5
7	CG	116	ALA	4.5
8	AH	58	TYR	4.5
1	AA	185	A	4.5
1	CA	300	A	4.5
1	CA	937	A	4.5
35	BA	896	A	4.5
35	BA	2809	A	4.5
35	DA	1877	A	4.5
38	BD	23	GLU	4.5
3	CC	50	ALA	4.5
1	AA	534	U	4.5
1	CA	20	U	4.5
1	CA	233	C	4.5
39	DE	192	ASN	4.5
40	BF	188	ARG	4.5
1	CA	399	G	4.5
1	CA	693	G	4.5
1	CA	1345	U	4.5
22	CV	36	U	4.5
35	BA	1719	G	4.5
53	DU	111	GLU	4.5
24	AY	495	GLY	4.5
50	DR	57	ARG	4.5

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Mol	Chain	Res	Type	RSRZ
52	DT	125	ARG	4.5
12	CL	105	TYR	4.5
33	B8	31	HIS	4.5
24	CY	638	GLY	4.5
35	BA	1000	A	4.5
35	BA	2820	A	4.5
35	BA	2892	A	4.5
49	BQ	109	VAL	4.5
1	AA	1389	C	4.5
1	AA	1506	U	4.5
36	DB	1	U	4.5
38	DD	52	ARG	4.5
12	CL	114	LYS	4.5
35	BA	853	G	4.5
35	BA	1223	G	4.5
35	DA	2149	G	4.5
48	BP	125	VAL	4.5
53	DU	80	ILE	4.4
1	AA	1152	A	4.4
1	CA	140	A	4.4
4	AD	154	ASN	4.4
35	BA	1528(A)	A	4.4
35	BA	2346	A	4.4
44	DK	77	LEU	4.4
1	AA	401	C	4.4
1	AA	1205	U	4.4
1	CA	1278	U	4.4
35	DA	296	C	4.4
53	DU	55	ARG	4.4
1	AA	73	G	4.4
1	AA	380	G	4.4
1	AA	635	G	4.4
1	AA	1222	G	4.4
1	AA	1290	G	4.4
1	CA	305	G	4.4
35	BA	205	G	4.4
35	BA	1031	G	4.4
35	DA	1212	G	4.4
35	DA	1814	G	4.4
35	DA	2192	G	4.4
35	DA	2876	G	4.4
50	BR	75	LEU	4.4

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Mol	Chain	Res	Type	RSRZ
2	AB	116	GLU	4.4
12	AL	24	VAL	4.4
1	AA	1499	A	4.4
25	B0	19	LYS	4.4
35	BA	959	A	4.4
35	BA	2199	A	4.4
35	BA	2665	A	4.4
35	DA	2268	A	4.4
3	CC	208	ILE	4.4
15	AO	24	SER	4.4
27	B2	14	ARG	4.4
35	BA	272(J)	C	4.4
35	BA	904	C	4.4
14	CN	43	CYS	4.4
24	CY	317	MET	4.4
35	BA	1651	G	4.4
35	BA	2485	G	4.4
35	DA	325	G	4.4
57	DY	16	ALA	4.4
10	AJ	87	THR	4.4
1	AA	1157	A	4.4
1	CA	1251	A	4.4
35	BA	2378	A	4.4
35	BA	2453	A	4.4
1	AA	133	U	4.4
35	DA	568	U	4.4
35	DA	858	U	4.4
36	DB	40	U	4.4
39	DE	134	ILE	4.4
1	AA	379	C	4.4
24	AY	280	LEU	4.4
35	BA	1150	C	4.4
35	DA	1800	C	4.4
28	D3	20	LYS	4.4
42	DH	33	LEU	4.4
1	CA	1178	G	4.4
35	DA	1630	G	4.4
35	DA	2535	G	4.4
36	DB	18	G	4.4
58	DZ	9	TYR	4.4
10	AJ	42	THR	4.4
58	BZ	161	VAL	4.4

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Mol	Chain	Res	Type	RSRZ
1	CA	790	A	4.4
1	CA	1339	A	4.4
11	AK	76	GLY	4.4
35	BA	2534	A	4.4
35	DA	2437	U	4.4
1	CA	221	C	4.4
35	BA	687	C	4.4
35	BA	2467	C	4.4
35	DA	654(B)	C	4.4
38	BD	269	PHE	4.4
1	AA	1442	G	4.4
1	CA	885	G	4.4
1	CA	1047	G	4.4
35	DA	1591	G	4.4
35	DA	1904	G	4.4
35	DA	2009	G	4.4
35	DA	2597	G	4.4
35	DA	2759	G	4.4
39	BE	45	THR	4.4
55	DW	81	ALA	4.4
1	CA	1268	A	4.4
24	CY	150	ILE	4.4
35	BA	1943	U	4.4
35	DA	887	A	4.4
35	DA	1274	A	4.4
49	DQ	66	ILE	4.4
9	CI	123	PRO	4.4
1	CA	72	C	4.4
35	BA	641	C	4.4
35	BA	2540	C	4.4
35	DA	201	C	4.4
36	BB	79	C	4.4
3	CC	31	HIS	4.4
30	B5	3	LYS	4.4
35	BA	1193	G	4.4
35	DA	2090	G	4.4
35	DA	2588	G	4.4
35	DA	2862	G	4.4
19	CS	21	GLU	4.4
24	CY	124	GLN	4.4
22	AV	47	U	4.4
24	CY	646	PHE	4.4

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Mol	Chain	Res	Type	RSRZ
35	BA	1035	U	4.4
35	DA	272(A)	U	4.4
35	DA	2775	A	4.4
42	BH	117	PRO	4.4
44	DK	135	GLY	4.4
1	AA	248	C	4.4
5	AE	108	ALA	4.4
35	DA	915	C	4.4
35	DA	2175	C	4.4
39	BE	141	ILE	4.4
40	BF	186	ILE	4.4
1	AA	1026	G	4.4
1	AA	1305	G	4.4
1	CA	568	G	4.4
1	CA	734	G	4.4
1	CA	1164	G	4.4
35	BA	1878	G	4.4
35	BA	2315	G	4.4
35	DA	271(W)	G	4.4
35	DA	1515	G	4.4
35	DA	1581	G	4.4
35	DA	2487	G	4.4
1	AA	37	U	4.4
1	AA	573	A	4.4
1	CA	1041	A	4.4
24	CY	665	GLY	4.4
35	DA	2022	U	4.4
35	DA	2180	U	4.4
24	CY	336	THR	4.4
35	DA	984	A	4.4
1	AA	339	C	4.4
1	CA	176	C	4.4
24	AY	474	ALA	4.4
35	BA	267	C	4.4
35	BA	698	C	4.4
35	BA	1376	C	4.4
35	BA	1895	C	4.4
35	DA	527	C	4.4
35	DA	661	C	4.4
46	DN	59	LYS	4.4
52	DT	136	GLN	4.4
54	BV	7	THR	4.4

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Mol	Chain	Res	Type	RSRZ
35	BA	261	G	4.4
35	BA	361	G	4.4
35	BA	771	G	4.4
35	BA	2166	G	4.4
35	BA	2444	G	4.4
35	DA	407	G	4.4
36	DB	89	G	4.4
47	BO	78	ARG	4.4
7	AG	113	GLU	4.4
22	CV	24	U	4.4
39	BE	115	GLY	4.4
24	AY	580	MET	4.4
35	DA	1677	A	4.4
44	DK	113	PRO	4.4
1	AA	43	C	4.4
1	CA	1096	C	4.4
22	CW	76	C	4.4
27	B2	25	VAL	4.4
35	BA	753	C	4.4
35	DA	335	C	4.4
35	DA	1685	C	4.4
49	BQ	110	THR	4.4
1	AA	916	G	4.4
20	AT	52	ALA	4.4
35	BA	551	G	4.4
35	BA	1799	G	4.4
52	DT	53	ARG	4.4
56	BX	75	ASP	4.4
1	CA	451	A	4.4
2	CB	131	PRO	4.4
24	AY	281	PRO	4.4
27	B2	9	GLN	4.4
36	BB	73	A	4.4
2	AB	83	MET	4.4
1	AA	1132	C	4.4
1	AA	1208	C	4.4
1	AA	1328	C	4.4
4	CD	123	HIS	4.4
19	CS	37	ARG	4.4
35	BA	658	C	4.4
10	CJ	49	VAL	4.3
27	D2	40	SER	4.3

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Mol	Chain	Res	Type	RSRZ
27	D2	45	SER	4.3
1	AA	21	G	4.3
1	CA	635	G	4.3
26	B1	90	ILE	4.3
35	BA	920	G	4.3
35	DA	614	U	4.3
35	DA	882	G	4.3
35	DA	1764	G	4.3
3	AC	170	GLN	4.3
22	CV	44	A	4.3
35	DA	294	A	4.3
35	DA	2060	A	4.3
42	BH	141	VAL	4.3
24	CY	304	ASP	4.3
1	CA	153	C	4.3
1	CA	234	C	4.3
1	CA	1203	C	4.3
17	CQ	11	VAL	4.3
35	DA	1546	C	4.3
52	DT	55	ASN	4.3
1	AA	297	G	4.3
1	CA	725	G	4.3
1	CA	1235	U	4.3
10	CJ	66	ARG	4.3
13	CM	47	ASP	4.3
37	DC	196	ALA	4.3
50	BR	67	LEU	4.3
13	CM	111	LYS	4.3
22	AW	50	G	4.3
35	BA	465	G	4.3
35	BA	993	G	4.3
35	BA	2383	G	4.3
35	BA	2484	G	4.3
16	CP	16	HIS	4.3
1	CA	559	A	4.3
35	DA	1286	A	4.3
35	DA	2208	A	4.3
8	AH	80	ILE	4.3
15	CO	85	LEU	4.3
24	AY	72	CYS	4.3
37	DC	225	ILE	4.3
1	AA	735	C	4.3

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Mol	Chain	Res	Type	RSRZ
1	CA	1071	C	4.3
35	DA	692	C	4.3
44	BK	31	GLY	4.3
50	BR	115	GLU	4.3
15	AO	62	GLN	4.3
38	BD	200	ASP	4.3
35	BA	826	U	4.3
35	DA	1779	U	4.3
1	AA	1010	G	4.3
24	CY	72	CYS	4.3
35	BA	1769	G	4.3
35	BA	2255	G	4.3
35	DA	556	G	4.3
35	DA	798	G	4.3
35	DA	2187	G	4.3
35	DA	2822	G	4.3
35	DA	2877	G	4.3
2	CB	236	TYR	4.3
23	CX	13	A	4.3
24	AY	128	TYR	4.3
35	BA	460	A	4.3
35	BA	1268	A	4.3
38	DD	271	ILE	4.3
35	BA	1565	C	4.3
35	DA	2326	C	4.3
47	DO	31	LYS	4.3
40	BF	152	GLU	4.3
44	BK	91	PRO	4.3
1	AA	5	U	4.3
1	AA	421	U	4.3
11	CK	37	GLY	4.3
35	BA	1199	U	4.3
1	CA	348	G	4.3
35	BA	271(V)	G	4.3
35	BA	906	G	4.3
35	BA	1935	G	4.3
35	BA	2625	G	4.3
35	DA	382	G	4.3
35	DA	388	G	4.3
35	DA	1283	G	4.3
35	DA	1470	G	4.3
1	CA	1101	A	4.3

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Mol	Chain	Res	Type	RSRZ
20	AT	20	LEU	4.3
22	CW	22	A	4.3
35	BA	637	A	4.3
35	BA	1342	A	4.3
35	DA	514	A	4.3
35	DA	2450	A	4.3
24	AY	551	GLN	4.3
3	CC	27	LYS	4.3
40	BF	18	ARG	4.3
22	CV	51	C	4.3
24	CY	437	THR	4.3
35	BA	128	C	4.3
35	BA	420	C	4.3
35	BA	1646	C	4.3
35	DA	143(A)	C	4.3
10	CJ	64	GLU	4.3
50	BR	116	LEU	4.3
50	DR	12	ARG	4.3
1	CA	1415	G	4.3
22	AW	54	G	4.3
35	BA	1695	G	4.3
35	DA	1447	G	4.3
35	DA	2002	G	4.3
35	DA	2569	G	4.3
35	DA	528	A	4.3
35	DA	2119	A	4.3
46	DN	92	ALA	4.3
3	AC	70	VAL	4.3
12	CL	46	LYS	4.3
35	BA	1038	C	4.3
35	BA	1546	C	4.3
35	BA	1648	C	4.3
35	BA	2691	C	4.3
35	BA	2755	C	4.3
35	BA	2789	C	4.3
35	DA	1446	C	4.3
4	CD	96	LEU	4.3
35	BA	2449	U	4.3
46	DN	120	LEU	4.3
7	AG	98	SER	4.3
58	DZ	127	LYS	4.3
1	AA	1405	G	4.3

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Mol	Chain	Res	Type	RSRZ
35	BA	1037	G	4.3
35	DA	954	G	4.3
35	DA	1328	G	4.3
35	DA	654	A	4.3
47	BO	50	GLY	4.3
48	BP	16	ARG	4.3
50	BR	8	ARG	4.3
1	AA	934	C	4.3
35	BA	1588	C	4.3
35	BA	2870	C	4.3
35	DA	1547	C	4.3
1	AA	831	U	4.3
47	BO	30	ALA	4.3
8	AH	17	THR	4.3
37	BC	213	VAL	4.3
38	DD	32	SER	4.3
44	BK	95	LYS	4.3
1	AA	1035	A	4.3
1	AA	1458	G	4.3
1	CA	1255	G	4.3
1	CA	1457	G	4.3
35	BA	2725	A	4.3
35	BA	2811	G	4.3
57	DY	78	ALA	4.3
22	AV	11	A	4.3
35	DA	1819	A	4.3
4	CD	191	ARG	4.3
32	D7	34	ARG	4.3
33	B8	65	GLU	4.3
33	B8	64	TYR	4.3
41	DG	117	PHE	4.3
1	CA	797	C	4.3
22	AW	24	C	4.3
22	CV	61	C	4.3
24	CY	650	ALA	4.3
35	BA	1458	C	4.3
35	BA	1464	C	4.3
35	DA	2803	C	4.3
40	DF	128	ALA	4.3
54	BV	77	ALA	4.3
3	CC	205	GLY	4.3
24	AY	207	ASP	4.3

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Mol	Chain	Res	Type	RSRZ
24	AY	306	ASN	4.3
5	AE	134	ALA	4.3
54	DV	89	GLN	4.3
16	CP	15	PRO	4.3
1	AA	1236	A	4.3
1	AA	1511	G	4.3
1	CA	1473	A	4.3
35	BA	100	G	4.3
35	BA	1652	A	4.3
35	DA	1144	G	4.3
35	DA	2749	A	4.3
36	DB	9	G	4.3
47	BO	85	VAL	4.3
47	DO	57	VAL	4.3
26	B1	88	LYS	4.3
34	D9	26	ILE	4.3
44	DK	121	GLU	4.3
49	BQ	5	ARG	4.3
1	CA	449	C	4.3
1	CA	590	C	4.3
1	CA	1097	C	4.3
35	BA	905	U	4.3
35	BA	2571	C	4.3
35	DA	318	C	4.3
37	DC	33	LEU	4.3
51	DS	60	GLY	4.3
49	DQ	54	MET	4.3
5	AE	90	VAL	4.3
38	BD	181	GLU	4.3
47	DO	120	GLU	4.3
38	DD	240	ALA	4.3
24	AY	639	ASN	4.3
31	B6	43	CYS	4.3
1	CA	493	G	4.2
1	CA	947	G	4.2
22	AW	22	A	4.2
35	BA	216	A	4.2
35	BA	2668	G	4.2
35	DA	181	A	4.2
35	DA	1250	G	4.2
35	DA	1471	A	4.2
46	DN	22	THR	4.2

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Mol	Chain	Res	Type	RSRZ
8	CH	130	GLY	4.2
20	AT	57	ARG	4.2
1	CA	596	C	4.2
1	CA	1078	U	4.2
35	BA	936	C	4.2
35	BA	1694	C	4.2
19	CS	77	THR	4.2
11	CK	123	LYS	4.2
24	CY	607	ARG	4.2
38	BD	123	ALA	4.2
28	D3	32	GLN	4.2
47	DO	93	PRO	4.2
1	AA	876	G	4.2
1	CA	650	G	4.2
12	AL	44	THR	4.2
6	AF	26	ILE	4.2
35	BA	610	G	4.2
35	BA	2451	A	4.2
35	DA	1000	A	4.2
35	DA	1475	G	4.2
15	AO	47	LYS	4.2
38	BD	125	ILE	4.2
48	BP	24	GLY	4.2
38	DD	54	ARG	4.2
1	CA	136	C	4.2
1	CA	1372	U	4.2
16	AP	34	GLU	4.2
35	BA	2528	U	4.2
49	BQ	112	GLU	4.2
55	DW	94	ASP	4.2
22	CW	66	C	4.2
35	BA	654(T)	C	4.2
35	DA	902	C	4.2
35	DA	1417	C	4.2
36	DB	10	C	4.2
24	AY	317	MET	4.2
39	BE	163	GLU	4.2
53	DU	98	LEU	4.2
1	AA	988	G	4.2
1	CA	1013	G	4.2
35	BA	1888	G	4.2
35	DA	204	A	4.2

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Mol	Chain	Res	Type	RSRZ
35	DA	800	A	4.2
35	DA	2488	A	4.2
36	DB	48	A	4.2
24	AY	19	ALA	4.2
29	D4	13	ARG	4.2
35	BA	1288	U	4.2
47	BO	73	ASP	4.2
22	CW	67	C	4.2
35	DA	2620	C	4.2
15	AO	3	ILE	4.2
39	BE	95	ILE	4.2
17	AQ	34	LYS	4.2
28	D3	7	LYS	4.2
52	DT	35	LYS	4.2
57	BY	42	VAL	4.2
25	B0	73	GLY	4.2
1	CA	270	A	4.2
1	CA	935	A	4.2
1	AA	544	G	4.2
1	AA	1047	G	4.2
1	CA	714	G	4.2
1	CA	1033	G	4.2
22	AV	64	G	4.2
30	D5	31	VAL	4.2
35	BA	2614	A	4.2
35	BA	2621	A	4.2
35	DA	1741	A	4.2
35	DA	530	G	4.2
35	DA	1300	U	4.2
37	DC	34	ALA	4.2
1	CA	336	C	4.2
1	CA	893	C	4.2
35	BA	635	C	4.2
35	BA	1547	C	4.2
35	BA	1781	C	4.2
37	BC	203	GLU	4.2
50	BR	107	ASP	4.2
42	DH	39	PRO	4.2
40	BF	173	VAL	4.2
1	AA	393	A	4.2
35	DA	2071	A	4.2
1	CA	772	U	4.2

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Mol	Chain	Res	Type	RSRZ
1	CA	926	G	4.2
35	BA	51	G	4.2
35	BA	921	G	4.2
35	DA	109	G	4.2
35	DA	654(H)	G	4.2
35	DA	1256	G	4.2
35	DA	2552	U	4.2
39	BE	132	HIS	4.2
39	DE	189	PRO	4.2
58	DZ	33	LEU	4.2
1	AA	519	C	4.2
1	AA	536	C	4.2
1	AA	1214	C	4.2
22	CW	72	C	4.2
35	DA	1158	C	4.2
24	AY	588	MET	4.2
47	DO	99	PHE	4.2
50	DR	90	ARG	4.2
49	DQ	138	ASP	4.2
3	AC	163	ALA	4.2
12	CL	86	ARG	4.2
22	AV	60	U	4.2
24	AY	245	ALA	4.2
35	BA	1641	A	4.2
35	BA	2476	A	4.2
35	BA	2746	U	4.2
35	DA	1066	U	4.2
35	DA	1265	A	4.2
38	DD	35	LYS	4.2
1	AA	836	G	4.2
22	AV	12	G	4.2
35	BA	242	G	4.2
35	BA	2737	G	4.2
35	BA	2812	G	4.2
1	AA	784	C	4.2
1	AA	811	C	4.2
22	CV	71	C	4.2
35	DA	1297	C	4.2
40	DF	130	ALA	4.2
40	BF	194	MET	4.2
24	AY	167	PRO	4.2
1	CA	1281	U	4.2

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Mol	Chain	Res	Type	RSRZ
1	CA	1398	A	4.2
35	BA	734	A	4.2
35	BA	1326	U	4.2
35	BA	1395	A	4.2
35	DA	2130	U	4.2
1	CA	517	G	4.2
1	CA	1068	G	4.2
12	AL	31	PRO	4.2
24	CY	546	ILE	4.2
35	BA	55	G	4.2
35	DA	934	G	4.2
35	DA	1627	G	4.2
35	DA	2329	G	4.2
38	BD	71	ASP	4.2
58	DZ	99	TYR	4.2
1	AA	618	C	4.2
1	CA	600	C	4.2
4	AD	88	VAL	4.2
22	AV	75	C	4.2
22	AW	67	C	4.2
35	BA	925	C	4.2
35	BA	961	C	4.2
58	DZ	186	GLU	4.2
4	CD	9	CYS	4.2
3	AC	124	ILE	4.2
6	AF	19	LEU	4.2
30	D5	57	VAL	4.2
50	BR	23	ASN	4.2
1	CA	950	U	4.2
5	CE	81	GLU	4.2
35	DA	654(V)	A	4.2
4	AD	36	ARG	4.2
4	CD	155	LEU	4.2
53	BU	23	GLY	4.2
35	BA	325	G	4.2
35	BA	1250	G	4.2
35	DA	1024	G	4.2
35	DA	1647	G	4.2
35	DA	2694	G	4.2
1	AA	221	C	4.2
1	AA	1137	C	4.2
1	CA	267	C	4.2

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Mol	Chain	Res	Type	RSRZ
1	CA	1284	C	4.2
35	DA	565	C	4.2
9	AI	34	ASN	4.2
1	CA	1052	U	4.2
11	AK	45	GLY	4.2
24	AY	226	ASN	4.2
10	CJ	96	ILE	4.2
1	CA	721	G	4.2
1	CA	886	G	4.2
22	CV	12	G	4.2
35	BA	879	G	4.2
35	BA	1002	G	4.2
35	BA	2795	G	4.2
1	CA	569	C	4.2
18	CR	77	GLY	4.2
19	AS	65	ASN	4.2
31	B6	27	LYS	4.2
35	BA	1158	C	4.2
35	DA	2520	C	4.2
54	DV	6	LYS	4.2
2	AB	34	ALA	4.1
9	AI	101	PHE	4.1
24	AY	371	ALA	4.1
35	DA	271(K)	U	4.1
38	BD	153	ALA	4.1
39	DE	148	GLY	4.1
1	CA	430	A	4.1
6	CF	24	GLU	4.1
35	DA	781	A	4.1
35	DA	1885	A	4.1
24	CY	148	LEU	4.1
40	BF	151	SER	4.1
1	CA	1392	G	4.1
13	AM	21	TYR	4.1
35	BA	446	G	4.1
35	DA	381	G	4.1
35	DA	498	G	4.1
35	DA	2697	G	4.1
1	CA	989	C	4.1
1	CA	1141	C	4.1
35	BA	994	C	4.1
35	BA	1934	C	4.1

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Mol	Chain	Res	Type	RSRZ
35	DA	433	C	4.1
35	DA	844	C	4.1
35	DA	893	C	4.1
35	DA	2799	C	4.1
38	BD	9	TYR	4.1
3	AC	177	THR	4.1
50	BR	64	ARG	4.1
35	BA	2419	U	4.1
35	DA	1340	U	4.1
1	AA	520	A	4.1
10	AJ	86	MET	4.1
35	BA	415	A	4.1
35	BA	2868	A	4.1
35	DA	1321	A	4.1
35	DA	1331	A	4.1
26	D1	50	ARG	4.1
40	DF	61	GLY	4.1
56	BX	44	GLU	4.1
1	AA	1325	C	4.1
35	BA	106	C	4.1
35	BA	798	G	4.1
35	BA	1119	C	4.1
35	BA	2329	G	4.1
35	BA	2494	G	4.1
35	DA	361	G	4.1
35	DA	775	G	4.1
35	DA	1154	G	4.1
36	BB	111	G	4.1
36	DB	17	C	4.1
20	CT	41	ILE	4.1
39	BE	116	VAL	4.1
41	DG	123	ASN	4.1
2	CB	86	GLU	4.1
10	CJ	60	ARG	4.1
1	CA	37	U	4.1
23	CX	11	U	4.1
24	CY	376	ALA	4.1
35	BA	1267	U	4.1
35	BA	1214	A	4.1
35	BA	2675	A	4.1
35	DA	1085	A	4.1
44	BK	24	GLY	4.1

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Mol	Chain	Res	Type	RSRZ
1	CA	536	C	4.1
1	CA	770	C	4.1
1	CA	1304	G	4.1
3	AC	138	VAL	4.1
35	BA	1425	G	4.1
35	BA	2373	G	4.1
35	DA	654(A)	G	4.1
42	BH	17	VAL	4.1
1	AA	554	C	4.1
1	CA	1378	C	4.1
2	AB	19	HIS	4.1
20	AT	21	LYS	4.1
22	AW	26	C	4.1
35	BA	844	C	4.1
35	DA	2443	C	4.1
44	DK	78	ILE	4.1
54	DV	82	ARG	4.1
1	AA	415	A	4.1
35	DA	609	A	4.1
35	DA	746	A	4.1
35	DA	804	A	4.1
35	DA	1132	A	4.1
3	CC	98	ASN	4.1
34	B9	30	PRO	4.1
47	DO	55	GLY	4.1
1	CA	629	G	4.1
1	CA	1010	G	4.1
1	CA	1098	C	4.1
1	CA	1494	G	4.1
3	AC	165	THR	4.1
35	BA	18	C	4.1
35	BA	1071	G	4.1
35	DA	491	G	4.1
35	DA	755	C	4.1
35	DA	1429	G	4.1
35	DA	2752	C	4.1
1	CA	405	U	4.1
1	CA	960	U	4.1
24	AY	607	ARG	4.1
35	DA	525	U	4.1
50	DR	17	ARG	4.1
9	AI	56	LEU	4.1

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Mol	Chain	Res	Type	RSRZ
24	CY	564	LYS	4.1
57	BY	19	LYS	4.1
1	AA	968	A	4.1
35	BA	2679	A	4.1
35	DA	705	A	4.1
35	DA	1542	A	4.1
1	AA	588	G	4.1
1	AA	954	G	4.1
1	CA	241	C	4.1
1	CA	470	C	4.1
1	CA	771	G	4.1
1	CA	880	C	4.1
1	CA	1316	G	4.1
22	AW	7	G	4.1
22	CV	62	C	4.1
24	AY	377	VAL	4.1
35	BA	1227	G	4.1
35	BA	2115	G	4.1
35	BA	2769	C	4.1
35	DA	271(I)	G	4.1
35	DA	277	C	4.1
35	DA	304	G	4.1
35	DA	1233	C	4.1
35	DA	2455	G	4.1
35	DA	2630	G	4.1
36	BB	106	G	4.1
38	BD	192	THR	4.1
48	BP	70	GLN	4.1
1	CA	1481	U	4.1
35	BA	383	U	4.1
35	DA	2257	U	4.1
37	DC	60	ARG	4.1
57	BY	84	ARG	4.1
20	CT	93	GLU	4.1
30	B5	26	THR	4.1
1	AA	151	A	4.1
1	CA	994	A	4.1
10	CJ	12	ASP	4.1
35	BA	1354	A	4.1
1	AA	186	C	4.1
1	AA	522	C	4.1
1	AA	698	G	4.1

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Mol	Chain	Res	Type	RSRZ
1	AA	774	G	4.1
35	DA	271(S)	G	4.1
35	DA	1509	C	4.1
35	DA	2050	C	4.1
58	DZ	40	ASP	4.1
1	AA	82	U	4.1
11	CK	58	PRO	4.1
35	BA	2431	U	4.1
12	AL	127	GLU	4.1
24	AY	199	ILE	4.1
42	BH	116	GLU	4.1
57	BY	28	LYS	4.1
1	AA	996	A	4.1
1	AA	1288	A	4.1
1	CA	338	A	4.1
35	BA	1020	A	4.1
35	DA	675	A	4.1
35	DA	1634	A	4.1
35	DA	2269	A	4.1
47	BO	40	VAL	4.1
56	DX	17	ALA	4.1
7	AG	81	GLY	4.1
1	AA	187	C	4.1
1	CA	80	G	4.1
35	BA	974	G	4.1
35	DA	94	C	4.1
35	DA	604	G	4.1
35	DA	673	C	4.1
35	DA	1083	U	4.1
35	DA	1595	G	4.1
35	DA	2157	G	4.1
35	DA	2403	C	4.1
52	BT	66	VAL	4.1
56	BX	52	VAL	4.1
22	CV	55	U	4.1
38	BD	90	ALA	4.1
27	B2	6	VAL	4.1
1	CA	510	A	4.1
35	BA	84	A	4.1
48	BP	17	LYS	4.1
1	AA	45	U	4.1
1	AA	249	U	4.1

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Mol	Chain	Res	Type	RSRZ
1	AA	542	G	4.1
1	AA	833	U	4.1
1	CA	912	C	4.1
1	CA	1388	C	4.1
35	BA	1509	C	4.1
35	BA	2350	C	4.1
1	CA	142	G	4.1
1	CA	1443	G	4.1
35	BA	495	G	4.1
35	BA	978	G	4.1
35	BA	1186	G	4.1
35	BA	1985	G	4.1
35	DA	2792	G	4.1
36	BB	50	G	4.1
39	DE	124	GLY	4.1
5	AE	75	THR	4.1
1	CA	1180	A	4.1
2	CB	110	GLN	4.1
4	AD	95	GLY	4.1
11	CK	60	ALA	4.1
7	AG	91	VAL	4.1
35	DA	829	A	4.1
41	DG	109	VAL	4.1
44	DK	140	GLY	4.1
46	BN	105	GLY	4.1
7	AG	145	ALA	4.0
35	BA	657	U	4.0
35	DA	1988	C	4.0
35	DA	2172	U	4.0
39	DE	7	VAL	4.0
1	CA	1021	G	4.0
1	CA	1084	G	4.0
1	CA	1300	G	4.0
22	CV	5	G	4.0
35	BA	271(R)	G	4.0
35	BA	1862	G	4.0
35	DA	349	G	4.0
35	DA	398	G	4.0
35	DA	745	G	4.0
11	AK	127	LYS	4.0
16	CP	80	PHE	4.0
46	DN	118	LYS	4.0

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Mol	Chain	Res	Type	RSRZ
58	BZ	157	LEU	4.0
1	CA	51	A	4.0
35	BA	1819	A	4.0
35	DA	685	A	4.0
35	DA	2734	A	4.0
24	AY	326	THR	4.0
24	AY	577	SER	4.0
38	BD	135	PHE	4.0
46	DN	137	LYS	4.0
1	AA	480	U	4.0
1	AA	897	C	4.0
1	AA	1060	C	4.0
8	CH	49	GLU	4.0
22	AW	61	U	4.0
35	BA	1375	C	4.0
35	BA	1805	U	4.0
4	AD	193	ASP	4.0
35	DA	992	C	4.0
35	DA	2202	C	4.0
35	DA	2651	C	4.0
36	BB	49	C	4.0
1	AA	1253	G	4.0
1	CA	113	G	4.0
35	BA	1136	G	4.0
35	BA	2003	G	4.0
35	BA	2407	G	4.0
35	DA	1347	G	4.0
35	DA	1377	G	4.0
1	AA	321	A	4.0
8	AH	20	TYR	4.0
35	BA	1142(A)	A	4.0
35	BA	1664	A	4.0
35	DA	2310	A	4.0
46	DN	129	PRO	4.0
2	AB	38	GLY	4.0
4	AD	2	GLY	4.0
37	BC	223	VAL	4.0
44	BK	55	VAL	4.0
1	AA	437	U	4.0
1	CA	1446	U	4.0
35	BA	2348	U	4.0
1	AA	241	C	4.0

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Mol	Chain	Res	Type	RSRZ
1	AA	1172	C	4.0
33	B8	54	GLU	4.0
35	BA	902	C	4.0
35	BA	982	C	4.0
36	BB	20	C	4.0
1	CA	409	G	4.0
21	CU	8	THR	4.0
26	B1	42	GLN	4.0
32	B7	10	ARG	4.0
35	BA	248	G	4.0
35	BA	1835	G	4.0
35	BA	1992	G	4.0
35	BA	2669	G	4.0
35	BA	2770	G	4.0
35	DA	259	G	4.0
35	DA	1758	G	4.0
24	AY	181	LEU	4.0
24	AY	591	LYS	4.0
1	AA	859	A	4.0
7	CG	132	GLY	4.0
35	BA	204	A	4.0
35	BA	233	A	4.0
35	DA	359	A	4.0
35	DA	1608	A	4.0
35	DA	2273	A	4.0
35	DA	2448	A	4.0
38	BD	141	VAL	4.0
40	BF	17	ARG	4.0
18	CR	73	ALA	4.0
22	CV	33	U	4.0
35	DA	1841	U	4.0
35	DA	2102	U	4.0
52	BT	107	ASP	4.0
1	AA	995	C	4.0
1	CA	518	C	4.0
1	CA	1297	C	4.0
11	CK	33	THR	4.0
35	DA	517	C	4.0
35	DA	2551	C	4.0
1	AA	184	G	4.0
11	CK	72	ALA	4.0
24	AY	215	LYS	4.0

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Mol	Chain	Res	Type	RSRZ
41	DG	105	LYS	4.0
47	BO	80	ASP	4.0
1	CA	913	A	4.0
8	AH	55	GLY	4.0
41	DG	142	PRO	4.0
3	CC	168	ALA	4.0
39	DE	81	ILE	4.0
39	DE	153	GLY	4.0
41	BG	85	GLY	4.0
22	AV	68	C	4.0
22	CW	42	C	4.0
35	BA	1640	C	4.0
35	BA	2794	C	4.0
1	AA	157	G	4.0
1	CA	1082	G	4.0
1	CA	1311	G	4.0
15	CO	58	MET	4.0
35	BA	30	G	4.0
35	BA	656	G	4.0
35	DA	906	G	4.0
35	DA	1339	G	4.0
7	AG	139	GLU	4.0
35	BA	394	A	4.0
35	BA	981	A	4.0
20	AT	83	ARG	4.0
37	BC	44	VAL	4.0
1	AA	571	U	4.0
35	DA	762	U	4.0
35	DA	1512	U	4.0
35	DA	2401	U	4.0
40	BF	184	TYR	4.0
2	AB	109	SER	4.0
4	AD	184	LYS	4.0
1	AA	1028	C	4.0
1	CA	1490	C	4.0
35	BA	1754	C	4.0
57	DY	15	VAL	4.0
32	D7	21	ARG	4.0
49	DQ	67	ARG	4.0
1	AA	1181	G	4.0
22	CW	10	G	4.0
35	DA	81	G	4.0

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Mol	Chain	Res	Type	RSRZ
35	DA	613	G	4.0
35	DA	1139	G	4.0
35	DA	2053	G	4.0
35	DA	2116	G	4.0
35	DA	2251	G	4.0
13	AM	6	GLY	4.0
22	AW	11	A	4.0
27	B2	40	SER	4.0
35	DA	497	A	4.0
35	DA	870	A	4.0
1	AA	772	U	4.0
35	BA	568	U	4.0
35	BA	639	U	4.0
35	BA	1512	U	4.0
4	AD	140	VAL	4.0
55	DW	49	LYS	4.0
1	CA	634	C	4.0
17	AQ	13	ASP	4.0
35	BA	22	C	4.0
35	DA	1836	C	4.0
36	DB	109	C	4.0
50	BR	74	LYS	4.0
1	CA	521	G	4.0
1	CA	1276	G	4.0
22	CW	31	G	4.0
35	BA	113	G	4.0
35	BA	1696	G	4.0
35	BA	2250	G	4.0
35	BA	2302	G	4.0
35	DA	674	G	4.0
35	DA	1891	G	4.0
35	DA	2669	G	4.0
9	AI	18	PHE	4.0
1	AA	746	A	4.0
24	AY	573	HIS	4.0
35	BA	422	A	4.0
35	DA	621	A	4.0
20	AT	22	ARG	4.0
23	AX	20	U	4.0
35	BA	1503	U	4.0
35	BA	2232	U	4.0
35	DA	2702	U	4.0

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Mol	Chain	Res	Type	RSRZ
1	CA	175	C	4.0
22	AV	61	C	4.0
35	BA	1345	C	4.0
35	DA	1657	C	4.0
35	DA	2385	C	4.0
35	DA	2788	C	4.0
35	DA	2841	C	4.0
58	DZ	75	ASN	4.0
18	AR	20	ALA	4.0
24	AY	585	ALA	4.0
28	B3	21	ALA	4.0
42	BH	85	LYS	4.0
1	AA	198	G	4.0
1	AA	616	G	4.0
1	AA	654	G	4.0
1	AA	854	G	4.0
1	CA	537	G	4.0
1	CA	1368	G	4.0
1	CA	1370	G	4.0
1	CA	1497	G	4.0
35	BA	729	G	4.0
35	BA	1422	G	4.0
35	DA	308	G	4.0
35	DA	363(D)	G	4.0
35	DA	538	G	4.0
35	DA	1949	G	4.0
35	DA	2337	G	4.0
35	DA	2447	G	4.0
35	DA	2634	G	4.0
1	AA	960	U	4.0
1	CA	665	A	4.0
1	CA	1376	U	4.0
7	AG	48	LYS	4.0
12	AL	65	GLU	4.0
14	AN	28	GLY	4.0
42	DH	138	LYS	4.0
22	CW	40	C	4.0
35	DA	654(I)	C	4.0
35	DA	797	C	4.0
35	DA	814	C	4.0
4	AD	87	GLY	4.0
47	DO	11	ALA	4.0

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Mol	Chain	Res	Type	RSRZ
48	BP	134	ALA	4.0
1	CA	6	G	3.9
1	CA	1127	G	3.9
35	DA	2010	G	3.9
1	AA	1442(B)	A	3.9
22	CV	57	A	3.9
35	DA	1284	A	3.9
35	DA	1394	U	3.9
35	DA	2790	A	3.9
7	AG	55	GLY	3.9
20	CT	17	ARG	3.9
50	DR	52	ILE	3.9
24	CY	473	ASP	3.9
25	B0	16	SER	3.9
39	DE	171	GLU	3.9
42	DH	157	TYR	3.9
50	BR	94	TYR	3.9
1	AA	436	C	3.9
1	CA	735	C	3.9
1	CA	1429	C	3.9
1	CA	1465	C	3.9
4	CD	66	ARG	3.9
15	AO	11	VAL	3.9
35	DA	364	C	3.9
35	DA	1118	C	3.9
35	DA	2471	C	3.9
40	BF	180	GLY	3.9
42	DH	68	THR	3.9
1	AA	1061	G	3.9
1	AA	1310	G	3.9
1	CA	566	G	3.9
1	CA	713	G	3.9
1	AA	958	A	3.9
3	CC	195	VAL	3.9
14	CN	7	ILE	3.9
35	BA	381	G	3.9
35	BA	787	U	3.9
35	BA	1269	A	3.9
35	BA	1396	U	3.9
35	BA	2733	A	3.9
35	DA	1288	U	3.9
35	DA	1739	U	3.9

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Mol	Chain	Res	Type	RSRZ
35	DA	2668	G	3.9
35	DA	2892	A	3.9
9	AI	105	ASP	3.9
55	DW	54	ALA	3.9
16	CP	3	LYS	3.9
5	CE	8	GLU	3.9
15	CO	73	GLU	3.9
38	BD	30	GLU	3.9
42	DH	168	PRO	3.9
1	AA	720	C	3.9
1	AA	1477	C	3.9
1	CA	1030(B)	C	3.9
11	AK	74	ALA	3.9
13	CM	55	ARG	3.9
35	BA	542	C	3.9
35	BA	654(Q)	C	3.9
35	DA	964	C	3.9
35	DA	2700	C	3.9
35	DA	2794	C	3.9
1	AA	1175	G	3.9
1	CA	1073	U	3.9
8	AH	128	GLY	3.9
50	BR	93	GLY	3.9
50	BR	108	GLY	3.9
1	CA	282	A	3.9
1	CA	1175	G	3.9
35	DA	272(E)	G	3.9
35	DA	1631(A)	A	3.9
35	DA	2004	G	3.9
35	DA	2860	A	3.9
46	DN	75	TYR	3.9
17	CQ	80	GLY	3.9
37	BC	134	PRO	3.9
1	AA	330	C	3.9
1	AA	967	C	3.9
1	AA	1128	C	3.9
1	CA	1303	C	3.9
9	CI	32	ASP	3.9
37	BC	12	LEU	3.9
42	BH	101	ARG	3.9
1	CA	677	U	3.9
4	AD	75	PHE	3.9

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Mol	Chain	Res	Type	RSRZ
4	CD	31	CYS	3.9
12	CL	99	HIS	3.9
28	B3	12	PRO	3.9
35	DA	1026	U	3.9
35	DA	2243	U	3.9
42	DH	32	GLU	3.9
49	DQ	116	GLU	3.9
57	BY	82	PRO	3.9
1	AA	377	G	3.9
1	CA	836	G	3.9
1	CA	916	G	3.9
4	AD	106	TYR	3.9
4	CD	138	TYR	3.9
35	BA	975(A)	G	3.9
35	BA	1677	A	3.9
35	BA	2121	G	3.9
35	DA	44	G	3.9
35	DA	85	G	3.9
35	DA	242	G	3.9
35	DA	460	A	3.9
35	DA	794	G	3.9
7	CG	53	LYS	3.9
35	DA	1784	A	3.9
35	DA	1966	A	3.9
36	DB	26	A	3.9
37	BC	121	MET	3.9
19	CS	33	THR	3.9
58	DZ	46	LYS	3.9
16	AP	7	ALA	3.9
44	BK	137	GLU	3.9
58	DZ	187	ALA	3.9
1	AA	189(D)	C	3.9
1	CA	1234	C	3.9
9	AI	4	TYR	3.9
30	D5	3	LYS	3.9
33	B8	46	ARG	3.9
35	BA	413	C	3.9
35	BA	591	C	3.9
35	BA	1041	C	3.9
35	BA	1180	C	3.9
35	DA	2874	C	3.9
52	BT	68	TYR	3.9

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Mol	Chain	Res	Type	RSRZ
42	BH	63	SER	3.9
1	AA	223	U	3.9
35	DA	363(E)	U	3.9
35	DA	2865	U	3.9
46	DN	124	ALA	3.9
1	AA	1011	G	3.9
1	AA	1156	G	3.9
1	CA	485	G	3.9
1	CA	535	A	3.9
8	AH	29	SER	3.9
22	CW	6	G	3.9
35	BA	271(Q)	G	3.9
35	BA	1220	A	3.9
35	BA	1252	G	3.9
35	BA	2638	G	3.9
35	DA	1099	G	3.9
35	DA	1106	G	3.9
35	DA	2834	G	3.9
36	BB	46	A	3.9
48	BP	18	ARG	3.9
58	DZ	78	LYS	3.9
24	AY	255	ILE	3.9
3	CC	32	LEU	3.9
52	BT	82	LEU	3.9
1	AA	501	C	3.9
1	CA	386	C	3.9
6	CF	77	ARG	3.9
35	DA	1270	C	3.9
40	BF	44	ARG	3.9
44	BK	2	LYS	3.9
1	AA	1381	U	3.9
24	AY	304	ASP	3.9
1	AA	966	G	3.9
1	AA	1024	G	3.9
1	AA	1279	A	3.9
1	AA	1492	A	3.9
1	CA	727	G	3.9
1	CA	1089	G	3.9
33	B8	8	LYS	3.9
35	BA	852	G	3.9
35	BA	1666	G	3.9
35	BA	2082	A	3.9

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Mol	Chain	Res	Type	RSRZ
35	BA	2523	G	3.9
35	DA	1087	G	3.9
2	AB	148	TYR	3.9
6	AF	33	TYR	3.9
44	DK	75	SER	3.9
12	CL	30	ALA	3.9
42	DH	74	ASN	3.9
52	BT	20	PRO	3.9
20	CT	20	LEU	3.9
1	CA	177	C	3.9
1	CA	1243	C	3.9
24	CY	79	ILE	3.9
24	CY	506	GLN	3.9
25	B0	32	ARG	3.9
35	BA	1887	C	3.9
35	BA	2501	C	3.9
35	DA	737	C	3.9
35	DA	2065	C	3.9
44	DK	110	GLN	3.9
1	CA	480	U	3.9
35	BA	1993	U	3.9
35	BA	2754	U	3.9
35	DA	1766	U	3.9
38	BD	95	LEU	3.9
58	BZ	109	ALA	3.9
1	AA	566	G	3.9
1	AA	700	G	3.9
1	CA	143	A	3.9
1	CA	923	A	3.9
1	CA	1386	G	3.9
1	CA	1442(A)	G	3.9
18	CR	83	GLU	3.9
22	AW	9	G	3.9
23	AX	16	A	3.9
35	BA	725	G	3.9
35	BA	761	A	3.9
35	BA	2718	G	3.9
35	DA	103	A	3.9
35	DA	2638	G	3.9
35	DA	2777	G	3.9
38	DD	241	PRO	3.9
53	DU	49	HIS	3.9

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Mol	Chain	Res	Type	RSRZ
9	CI	27	THR	3.9
9	CI	111	ARG	3.9
35	DA	1905	C	3.9
35	DA	2008	C	3.9
35	BA	206	U	3.9
35	BA	362	U	3.9
35	BA	511	U	3.9
24	CY	581	ALA	3.9
47	BO	57	VAL	3.9
58	BZ	150	LEU	3.9
1	CA	109	A	3.9
1	CA	908	A	3.9
1	AA	628	G	3.9
1	AA	917	G	3.9
1	AA	1312	G	3.9
1	CA	1182	G	3.9
4	AD	5	ILE	3.9
35	BA	111	A	3.9
35	BA	646	A	3.9
47	DO	22	ILE	3.9
57	BY	81	LYS	3.9
24	CY	165	GLN	3.9
10	CJ	81	THR	3.9
24	AY	179	ASP	3.9
1	AA	578	C	3.9
35	BA	865	C	3.9
35	BA	1263	U	3.9
35	BA	2183	C	3.9
35	BA	2493	U	3.9
35	BA	2622	C	3.9
35	BA	2666	C	3.9
35	DA	736	C	3.9
35	DA	1152	C	3.9
35	DA	2196	C	3.9
35	DA	2585	U	3.9
49	DQ	59	ARG	3.9
52	DT	34	VAL	3.9
38	DD	166	GLN	3.9
48	DP	122	PRO	3.9
24	CY	453	GLY	3.9
1	CA	602	A	3.9
35	BA	241	A	3.9

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Mol	Chain	Res	Type	RSRZ
35	BA	670	A	3.9
35	BA	1762	A	3.9
35	BA	2366	A	3.9
35	BA	2602	A	3.9
1	AA	944	G	3.9
1	AA	1343	G	3.9
1	CA	1294	G	3.9
35	BA	23	G	3.9
35	BA	2793	G	3.9
35	DA	117	G	3.9
35	DA	338	G	3.9
35	DA	628	G	3.9
35	DA	2623	G	3.9
31	B6	11	LEU	3.9
50	BR	65	LEU	3.9
52	DT	30	VAL	3.9
35	BA	2667	C	3.8
35	DA	1141	U	3.8
47	DO	79	PHE	3.8
53	BU	15	LYS	3.9
53	BU	108	GLU	3.8
1	AA	790	A	3.8
1	CA	1318	A	3.8
1	CA	1442(B)	A	3.8
24	AY	81	ILE	3.8
35	BA	322	A	3.8
35	BA	901	A	3.8
35	DA	1554	A	3.8
35	DA	1603	A	3.8
35	DA	2320	A	3.8
35	DA	2670	A	3.8
48	BP	76	LYS	3.8
9	AI	94	ALA	3.8
13	CM	80	ARG	3.8
1	AA	515	G	3.8
1	AA	1334	G	3.8
1	AA	1373	G	3.8
1	CA	181	G	3.8
24	CY	117	GLN	3.8
35	BA	556	G	3.8
35	DA	2166	G	3.8
42	DH	127	GLU	3.8

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Mol	Chain	Res	Type	RSRZ
1	CA	697	U	3.8
5	CE	129	ILE	3.8
1	AA	398	C	3.8
5	AE	102	ALA	3.8
35	BA	791	C	3.8
35	DA	416	C	3.8
35	DA	564	C	3.8
35	DA	1881	C	3.8
58	DZ	175	VAL	3.8
2	AB	40	HIS	3.8
39	BE	121	ASN	3.8
40	BF	107	LYS	3.8
40	BF	206	ILE	3.8
47	DO	77	ILE	3.8
24	CY	322	VAL	3.8
35	DA	1760	A	3.8
37	BC	215	VAL	3.8
1	CA	146	G	3.8
1	CA	1470	G	3.8
22	CV	49	G	3.8
35	BA	281	G	3.8
35	BA	1285	G	3.8
35	BA	1910	G	3.8
35	DA	1410	G	3.8
35	DA	2325	G	3.8
39	DE	96	PHE	3.8
47	DO	119	PRO	3.8
57	BY	106	LEU	3.8
35	BA	2249	U	3.8
1	AA	1524	C	3.8
1	CA	726	C	3.8
35	BA	634	C	3.8
35	BA	673	C	3.8
35	BA	2690	C	3.8
35	DA	417	C	3.8
39	DE	17	ASP	3.8
49	BQ	59	ARG	3.8
51	DS	55	ALA	3.8
22	AW	55	5MU	3.8
57	DY	91	GLU	3.8
4	AD	41	GLY	3.8
30	B5	54	GLY	3.8

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Mol	Chain	Res	Type	RSRZ
35	DA	1969	A	3.8
35	DA	2813	A	3.8
39	BE	202	LYS	3.8
39	BE	58	ARG	3.8
1	CA	741	G	3.8
22	CV	6	G	3.8
24	AY	216	LEU	3.8
35	BA	473	G	3.8
35	BA	1705	G	3.8
10	CJ	86	MET	3.8
35	BA	1141	U	3.8
35	DA	1808	U	3.8
35	DA	2344	U	3.8
38	DD	197	GLY	3.8
13	AM	79	LYS	3.8
3	CC	183	ASP	3.8
35	BA	888	C	3.8
35	DA	679	C	3.8
35	DA	925	C	3.8
37	DC	67	HIS	3.8
24	AY	155	GLU	3.8
52	BT	17	THR	3.8
1	AA	453	A	3.8
3	CC	119	ARG	3.8
35	BA	43	A	3.8
35	BA	1616	A	3.8
35	BA	1665	A	3.8
35	DA	1237	A	3.8
52	BT	124	ASP	3.8
10	CJ	65	LEU	3.8
1	AA	302	G	3.8
1	AA	1421	G	3.8
35	DA	1718	G	3.8
1	CA	494	U	3.8
20	AT	82	SER	3.8
47	DO	42	SER	3.8
50	BR	56	LYS	3.8
1	CA	277	C	3.8
1	CA	328	C	3.8
2	AB	96	ARG	3.8
35	BA	1411	C	3.8
35	BA	2723	C	3.8

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Mol	Chain	Res	Type	RSRZ
35	DA	37	C	3.8
35	DA	246	C	3.8
35	DA	654(P)	C	3.8
35	DA	2145	C	3.8
19	AS	56	GLN	3.8
24	AY	104	ALA	3.8
35	BA	503	A	3.8
35	BA	1587	A	3.8
37	BC	18	ASN	3.8
49	DQ	103	MET	3.8
1	AA	688	G	3.8
1	AA	724	G	3.8
1	AA	973	G	3.8
1	CA	112	G	3.8
1	CA	588	G	3.8
19	CS	27	GLU	3.8
30	B5	8	LYS	3.8
35	BA	396	G	3.8
35	BA	1025	G	3.8
35	BA	1125	G	3.8
35	BA	2414	G	3.8
35	BA	2608	G	3.8
35	DA	459	U	3.8
35	DA	702	G	3.8
35	DA	1332	G	3.8
35	DA	1346	G	3.8
35	DA	1620	G	3.8
35	DA	1692	U	3.8
5	CE	20	GLN	3.8
38	DD	194	GLY	3.8
1	AA	1249	C	3.8
1	CA	555	C	3.8
11	AK	121	PRO	3.8
24	AY	294	PRO	3.8
24	CY	320	PRO	3.8
35	DA	39	C	3.8
8	AH	49	GLU	3.8
37	DC	223	VAL	3.8
15	AO	88	ARG	3.8
35	BA	783	A	3.8
35	BA	2566	A	3.8
35	BA	2781	A	3.8

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Mol	Chain	Res	Type	RSRZ
35	DA	802	A	3.8
49	DQ	14	ARG	3.8
28	D3	54	VAL	3.8
1	AA	173	U	3.8
1	CA	976	G	3.8
1	CA	1419	G	3.8
28	D3	42	ALA	3.8
35	BA	117	G	3.8
35	BA	2079	U	3.8
35	DA	1568	G	3.8
35	DA	1940	U	3.8
35	DA	2332	U	3.8
35	DA	2722	G	3.8
36	BB	110	G	3.8
56	DX	77	LYS	3.8
1	AA	545	C	3.8
5	AE	135	THR	3.8
22	AV	69	C	3.8
35	BA	2143	C	3.8
35	BA	2386	C	3.8
35	DA	2007	C	3.8
8	AH	110	ALA	3.8
24	CY	423	LYS	3.8
56	BX	71	GLY	3.8
44	BK	89	HIS	3.8
1	CA	532	A	3.8
11	AK	43	SER	3.8
35	BA	1913	A	3.8
35	DA	1652	A	3.8
52	DT	43	GLN	3.8
24	AY	398	ILE	3.8
27	B2	64	LEU	3.8
38	DD	206	LEU	3.8
1	AA	253	U	3.8
1	AA	672	U	3.8
1	CA	1083	U	3.8
6	AF	67	MET	3.8
22	AW	28	U	3.8
29	B4	1	MET	3.8
35	BA	2728	U	3.8
49	DQ	62	GLY	3.8
1	CA	265	G	3.8

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Mol	Chain	Res	Type	RSRZ
1	CA	604	G	3.8
30	D5	6	VAL	3.8
35	BA	500	G	3.8
35	BA	2353	G	3.8
35	BA	2645	G	3.8
35	DA	271(V)	G	3.8
35	DA	1071	G	3.8
35	DA	2035	G	3.8
38	BD	186	HIS	3.8
1	AA	762	C	3.8
1	AA	1317	C	3.8
35	BA	992	C	3.8
35	BA	1790	C	3.8
35	DA	1909	C	3.8
56	DX	62	LYS	3.8
7	AG	94	ARG	3.8
16	CP	36	ILE	3.8
31	B6	46	HIS	3.8
35	BA	2801(A)	A	3.8
35	DA	515	A	3.8
1	AA	1406	U	3.8
4	AD	4	TYR	3.8
13	CM	98	VAL	3.8
1	AA	1456	G	3.8
1	CA	428	G	3.8
35	DA	1380	G	3.8
35	DA	2351	G	3.8
1	AA	590	C	3.8
35	BA	31	C	3.8
35	BA	1761	C	3.8
37	DC	45	HIS	3.8
57	BY	20	TYR	3.8
24	AY	225	GLU	3.8
4	AD	116	GLN	3.8
4	CD	120	LEU	3.8
35	BA	2135	A	3.8
35	DA	735	A	3.8
35	DA	1213	A	3.8
1	AA	921	U	3.8
35	DA	2218	U	3.8
38	DD	8	PRO	3.8
40	BF	83	PHE	3.8

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Mol	Chain	Res	Type	RSRZ
6	AF	59	TYR	3.7
9	AI	67	GLY	3.7
24	AY	254	LYS	3.7
1	AA	799	G	3.7
1	CA	317	G	3.7
1	CA	1156	G	3.7
24	CY	534	ILE	3.7
35	DA	2018	G	3.7
38	DD	254	THR	3.7
1	CA	762	C	3.7
24	CY	426	GLN	3.7
35	BA	2538	C	3.7
35	DA	2601	C	3.7
9	AI	41	VAL	3.7
26	D1	14	VAL	3.7
34	B9	2	LYS	3.7
49	DQ	109	VAL	3.7
54	DV	61	VAL	3.7
1	AA	405	U	3.7
1	AA	975	A	3.7
2	AB	212	GLN	3.7
4	AD	103	ASN	3.7
22	CW	45	A	3.7
35	BA	1143	A	3.7
35	BA	1576	U	3.7
35	DA	271(Y)	U	3.7
35	DA	562	U	3.7
35	DA	1523	U	3.7
35	DA	2801	A	3.7
5	AE	22	GLY	3.7
27	D2	13	ALA	3.7
41	DG	134	GLY	3.7
16	CP	69	THR	3.7
37	BC	23	ILE	3.7
38	BD	109	ASP	3.7
35	BA	494	G	3.7
35	DA	418	G	3.7
35	DA	966	G	3.7
35	DA	1368	G	3.7
1	CA	681	C	3.7
35	BA	2767	C	3.7
35	DA	624	C	3.7

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Mol	Chain	Res	Type	RSRZ
35	DA	2456	C	3.7
52	BT	29	ARG	3.7
11	CK	86	GLY	3.7
16	CP	47	ASP	3.7
24	AY	319	ASP	3.7
24	AY	581	ALA	3.7
24	CY	372	GLY	3.7
50	BR	114	VAL	3.7
6	AF	31	GLU	3.7
35	BA	788	A	3.7
35	BA	2291	U	3.7
35	DA	141	A	3.7
35	DA	340	A	3.7
35	DA	2346	A	3.7
40	BF	181	LEU	3.7
37	DC	103	LYS	3.7
49	BQ	31	ASP	3.7
52	DT	94	ALA	3.7
1	CA	542	G	3.7
8	AH	76	PRO	3.7
35	BA	874	G	3.7
35	DA	1537	G	3.7
35	DA	1651	G	3.7
54	DV	16	PRO	3.7
1	AA	556	C	3.7
1	CA	1115	C	3.7
1	CA	1515	C	3.7
3	AC	167	TRP	3.7
35	BA	34	C	3.7
37	BC	194	ILE	3.7
39	DE	155	LYS	3.7
56	BX	58	HIS	3.7
1	CA	327	A	3.7
3	CC	151	VAL	3.7
13	CM	7	VAL	3.7
12	CL	53	ARG	3.7
35	BA	71	A	3.7
35	BA	2171	A	3.7
35	DA	479	A	3.7
35	DA	482	A	3.7
35	DA	1253	A	3.7
36	DB	14	U	3.7

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Mol	Chain	Res	Type	RSRZ
24	AY	252	ASP	3.7
38	DD	171	ASP	3.7
41	DG	69	ALA	3.7
42	DH	25	LYS	3.7
19	CS	16	LEU	3.7
32	D7	17	GLY	3.7
1	AA	163	C	3.7
1	CA	904	C	3.7
5	AE	18	ARG	3.7
35	BA	1091	G	3.7
35	BA	1153	C	3.7
35	BA	1627	G	3.7
35	BA	2415	G	3.7
41	DG	2	PRO	3.7
13	CM	40	ASN	3.7
20	CT	12	ALA	3.7
26	B1	57	GLU	3.7
33	B8	10	ALA	3.7
35	DA	22	C	3.7
35	DA	2380	C	3.7
58	BZ	154	ASP	3.7
7	CG	24	THR	3.7
51	DS	21	THR	3.7
19	AS	57	HIS	3.7
35	BA	1094	U	3.7
35	DA	2092	U	3.7
1	AA	1374	A	3.7
1	CA	696	A	3.7
35	BA	2561	A	3.7
35	DA	909	A	3.7
35	DA	2014	A	3.7
10	CJ	97	GLU	3.7
37	BC	116	ALA	3.7
47	BO	99	PHE	3.7
2	AB	167	PRO	3.7
1	AA	370	C	3.7
1	AA	1461	G	3.7
10	AJ	70	ARG	3.7
20	AT	23	ARG	3.7
2	AB	182	ILE	3.7
22	AV	31	G	3.7
22	CV	70	G	3.7

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Mol	Chain	Res	Type	RSRZ
35	BA	832	G	3.7
35	BA	1892	C	3.7
35	DA	77	C	3.7
35	DA	309	G	3.7
35	DA	577	G	3.7
35	DA	795	C	3.7
35	DA	1408	C	3.7
35	DA	1754	C	3.7
35	DA	2581	G	3.7
50	BR	43	GLU	3.7
49	DQ	75	THR	3.7
58	DZ	52	SER	3.7
7	AG	11	GLN	3.7
22	CW	61	U	3.7
35	BA	2028	U	3.7
36	BB	74	U	3.7
1	CA	907	A	3.7
1	CA	1280	A	3.7
24	CY	83	ASP	3.7
35	BA	2377	A	3.7
2	AB	86	GLU	3.7
50	DR	83	ILE	3.7
52	BT	94	ALA	3.7
24	AY	513	LYS	3.7
8	CH	25	ASP	3.7
1	AA	867	G	3.7
1	AA	1030(B)	C	3.7
1	CA	426	G	3.7
1	CA	503	C	3.7
1	CA	581	G	3.7
1	CA	689	C	3.7
1	CA	1145	C	3.7
1	CA	1310	G	3.7
1	CA	1385	G	3.7
9	CI	62	TYR	3.7
17	AQ	81	ARG	3.7
35	BA	129	C	3.7
35	BA	382	G	3.7
35	DA	61	G	3.7
35	DA	133	C	3.7
1	CA	125	U	3.7
1	CA	421	U	3.7

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Mol	Chain	Res	Type	RSRZ
35	DA	72	U	3.7
36	DB	35	U	3.7
1	AA	1067	A	3.7
35	BA	900	A	3.7
35	DA	1254	A	3.7
37	DC	88	GLU	3.7
54	DV	19	LYS	3.7
39	BE	27	LEU	3.7
1	CA	1030(A)	G	3.7
22	CW	70	C	3.7
35	BA	1332	G	3.7
35	BA	1541	G	3.7
35	DA	232	G	3.7
35	DA	295	G	3.7
35	DA	552	G	3.7
35	DA	602	G	3.7
35	DA	1166	C	3.7
35	DA	1324	G	3.7
35	DA	1750	G	3.7
35	DA	2802	G	3.7
1	AA	891	U	3.7
35	BA	29	U	3.7
35	DA	303	U	3.7
35	DA	1267	U	3.7
52	DT	31	SER	3.7
1	AA	1238	A	3.7
1	AA	1360	A	3.7
13	AM	5	ALA	3.7
35	DA	1088	A	3.7
35	DA	1098	A	3.7
35	DA	2005	A	3.7
35	DA	2572	A	3.7
40	DF	74	ARG	3.7
49	DQ	98	LYS	3.7
5	CE	23	GLY	3.7
8	AH	96	GLY	3.7
2	AB	112	VAL	3.7
46	DN	122	VAL	3.7
1	AA	256	U	3.7
1	AA	326	G	3.7
1	AA	502	G	3.7
1	AA	1498	U	3.7

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Mol	Chain	Res	Type	RSRZ
1	CA	339	C	3.7
35	BA	66	C	3.7
34	D9	1	MET	3.7
35	BA	354	G	3.7
35	BA	731	C	3.7
39	DE	12	THR	3.7
35	BA	2780	G	3.7
35	BA	2819	G	3.7
35	DA	563	G	3.7
35	DA	1238	G	3.7
35	DA	2086	U	3.7
35	DA	2637	U	3.7
40	BF	47	GLY	3.7
51	BS	75	GLU	3.7
13	CM	9	ILE	3.7
17	CQ	2	PRO	3.7
24	AY	100	VAL	3.7
24	AY	451	ILE	3.7
53	DU	61	TRP	3.7
58	DZ	71	VAL	3.7
40	BF	208	GLY	3.7
5	CE	112	LEU	3.7
42	DH	40	GLU	3.7
18	AR	47	THR	3.7
1	AA	166	G	3.7
1	AA	192	U	3.7
1	AA	503	C	3.7
1	CA	394	G	3.7
1	CA	1334	G	3.7
1	CA	1379	G	3.7
1	CA	1397	C	3.7
35	BA	2447	G	3.7
35	DA	1125	G	3.7
35	DA	1325	G	3.7
35	DA	1426	G	3.7
35	DA	1617	C	3.7
35	DA	1930	G	3.7
35	DA	2408	U	3.7
7	AG	85	TYR	3.6
27	B2	5	GLU	3.6
24	CY	19	ALA	3.6
32	D7	1	MET	3.6

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Mol	Chain	Res	Type	RSRZ
38	BD	247	ALA	3.6
39	DE	54	GLN	3.6
1	AA	994	A	3.6
1	CA	859	A	3.6
26	B1	53	VAL	3.6
32	D7	39	ARG	3.6
35	DA	983	A	3.6
48	BP	65	ARG	3.6
3	AC	34	LEU	3.6
15	CO	83	GLU	3.6
57	BY	100	ALA	3.6
58	DZ	94	GLU	3.6
1	AA	739	C	3.6
1	AA	1388	C	3.6
1	CA	839	U	3.6
9	AI	10	ARG	3.6
54	BV	22	VAL	3.6
1	CA	868	C	3.6
10	AJ	80	LYS	3.6
22	AW	42	C	3.6
35	BA	445	C	3.6
35	BA	985	C	3.6
35	DA	86	C	3.6
35	DA	721	C	3.6
35	DA	895	U	3.6
35	DA	1079	C	3.6
35	DA	1415	U	3.6
35	DA	2755	C	3.6
35	DA	2784	C	3.6
39	DE	41	LYS	3.6
1	CA	540	G	3.6
35	BA	2731	G	3.6
12	CL	56	ALA	3.6
40	BF	113	ALA	3.6
1	CA	412	A	3.6
22	CW	60	A	3.6
35	BA	957	A	3.6
35	DA	1815	A	3.6
33	B8	60	LEU	3.6
20	AT	41	ILE	3.6
6	AF	15	ASP	3.6
24	AY	537	GLU	3.6

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Mol	Chain	Res	Type	RSRZ
38	DD	272	ALA	3.6
35	BA	1944	U	3.6
35	DA	2698	U	3.6
37	BC	219	MET	3.6
55	BW	11	ARG	3.6
55	BW	92	ARG	3.6
1	AA	470	C	3.6
1	CA	707	C	3.6
1	CA	1509	C	3.6
3	CC	34	LEU	3.6
1	AA	346	G	3.6
1	AA	1443	G	3.6
12	AL	72	GLY	3.6
35	BA	1053	C	3.6
35	BA	2888	C	3.6
35	DA	451	C	3.6
35	DA	1387	C	3.6
35	BA	1239	G	3.6
35	BA	1968	G	3.6
35	BA	2694	G	3.6
35	DA	614(B)	G	3.6
37	BC	164	PHE	3.6
49	DQ	135	ASP	3.6
52	DT	138	ALA	3.6
55	BW	89	ALA	3.6
1	AA	274	A	3.6
1	CA	1016	A	3.6
1	CA	1434	A	3.6
35	DA	1262	A	3.6
35	DA	1986	A	3.6
53	BU	25	TRP	3.6
42	BH	98	LEU	3.6
2	AB	166	ASP	3.6
42	DH	75	ALA	3.6
37	DC	117	THR	3.6
39	DE	100	GLU	3.6
46	DN	127	ASP	3.6
1	CA	1427	U	3.6
54	DV	12	TYR	3.6
1	AA	267	C	3.6
1	AA	1440	C	3.6
1	CA	556	C	3.6

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Mol	Chain	Res	Type	RSRZ
25	D0	13	GLY	3.6
35	BA	893	C	3.6
35	BA	924	C	3.6
35	BA	1124	C	3.6
35	DA	1925	C	3.6
35	DA	2667	C	3.6
57	BY	67	LEU	3.6
12	CL	51	ALA	3.6
22	CV	63	G	3.6
35	BA	1325	G	3.6
35	BA	1328	G	3.6
35	DA	1707	G	3.6
35	DA	1862	G	3.6
1	CA	614	A	3.6
24	AY	279	TYR	3.6
54	DV	43	GLU	3.6
35	BA	2020	A	3.6
35	DA	2411	A	3.6
47	DO	104	ARG	3.6
50	BR	12	ARG	3.6
4	AD	188	LEU	3.6
30	B5	58	LEU	3.6
37	DC	137	LEU	3.6
41	DG	135	LEU	3.6
14	CN	48	ALA	3.6
49	BQ	107	ALA	3.6
22	CV	20	U	3.6
24	CY	375	GLY	3.6
35	DA	2272	U	3.6
47	BO	74	GLY	3.6
1	AA	418	C	3.6
10	AJ	89	ASP	3.6
24	AY	328	ILE	3.6
35	BA	115	C	3.6
35	BA	378	C	3.6
35	BA	1270	C	3.6
35	BA	2342	C	3.6
35	DA	652	C	3.6
35	DA	1548	C	3.6
1	CA	993	G	3.6
1	CA	1133	G	3.6
24	CY	28	THR	3.6

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Mol	Chain	Res	Type	RSRZ
35	DA	651	G	3.6
39	DE	39	PRO	3.6
58	DZ	126	VAL	3.6
1	AA	523	A	3.6
1	CA	676	A	3.6
4	CD	163	GLU	3.6
35	DA	1558	A	3.6
28	D3	23	LEU	3.6
54	DV	86	GLY	3.6
19	CS	43	GLU	3.6
35	DA	907	U	3.6
35	DA	1101	U	3.6
18	AR	49	LYS	3.6
37	DC	195	ARG	3.6
3	CC	60	ALA	3.6
22	CV	25	C	3.6
35	BA	1179	C	3.6
35	BA	1221(A)	C	3.6
35	BA	2507	C	3.6
35	BA	2773	C	3.6
35	DA	413	C	3.6
35	DA	531	C	3.6
35	DA	904	C	3.6
35	DA	1327	C	3.6
35	DA	1894	C	3.6
55	BW	105	VAL	3.6
46	DN	49	GLY	3.6
1	AA	1432	G	3.6
1	CA	550	G	3.6
1	CA	818	G	3.6
20	CT	85	MET	3.6
35	BA	561	G	3.6
35	BA	778	G	3.6
35	BA	875	G	3.6
35	DA	739	G	3.6
35	DA	832	G	3.6
35	DA	2168	G	3.6
35	DA	2481	G	3.6
3	CC	101	LEU	3.6
7	CG	16	LEU	3.6
13	AM	14	ARG	3.6
35	BA	548	A	3.6

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Mol	Chain	Res	Type	RSRZ
35	BA	627	A	3.6
47	DO	17	ARG	3.6
26	B1	55	GLY	3.6
32	D7	38	GLY	3.6
50	DR	71	GLN	3.6
35	DA	1659	U	3.6
35	DA	2232	U	3.6
5	CE	15	ARG	3.6
12	CL	18	VAL	3.6
38	DD	202	LYS	3.6
1	CA	268	C	3.6
1	CA	679	C	3.6
35	BA	816	C	3.6
35	BA	2715	C	3.6
35	DA	461	C	3.6
35	DA	955	C	3.6
35	DA	2275	C	3.6
36	BB	10	C	3.6
1	AA	829	G	3.6
1	CA	780	A	3.6
1	CA	919	A	3.6
13	AM	4	ILE	3.6
22	CV	21	A	3.6
22	CW	19	G	3.6
35	BA	1029	A	3.6
35	BA	2037	G	3.6
35	BA	2252	G	3.6
35	BA	2711	A	3.6
35	DA	501	A	3.6
35	DA	941	A	3.6
35	DA	1319	G	3.6
35	DA	1676	A	3.6
35	DA	1696	G	3.6
3	CC	115	LEU	3.6
35	DA	1762	A	3.6
40	DF	138	GLU	3.6
18	CR	25	THR	3.6
58	BZ	8	TYR	3.6
1	AA	434	U	3.6
1	AA	1212	U	3.6
1	CA	641	U	3.6
1	CA	1364	U	3.6

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Mol	Chain	Res	Type	RSRZ
26	B1	74	VAL	3.6
35	BA	1706	U	3.6
35	DA	810	U	3.6
38	BD	185	VAL	3.6
47	BO	10	VAL	3.6
4	CD	193	ASP	3.6
4	CD	14	ARG	3.6
17	AQ	94	ASN	3.6
37	BC	153	ILE	3.6
49	DQ	120	ILE	3.6
1	AA	518	C	3.6
1	AA	931	C	3.6
1	AA	1515	C	3.6
1	CA	564	C	3.6
1	CA	1027	C	3.6
1	CA	1112	C	3.6
1	CA	1459	C	3.6
35	BA	903	C	3.6
35	BA	1064	C	3.6
35	BA	2881	C	3.6
35	DA	392	C	3.6
35	DA	1924	C	3.6
35	DA	2229	C	3.6
36	BB	27	C	3.6
1	CA	1174	G	3.6
6	CF	52	ILE	3.6
8	AH	6	ILE	3.6
24	CY	424	LEU	3.6
35	BA	217	G	3.6
35	BA	1953	A	3.6
35	BA	2029	G	3.6
35	BA	2481	G	3.6
35	BA	2624	G	3.6
35	DA	110	G	3.6
35	DA	2238	G	3.6
6	CF	22	GLU	3.6
38	BD	176	ARG	3.6
1	CA	83	U	3.6
32	B7	25	PRO	3.6
24	AY	618	GLY	3.6
35	BA	1078	U	3.6
35	DA	2613	U	3.6

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Mol	Chain	Res	Type	RSRZ
7	AG	102	ARG	3.6
24	CY	300	GLU	3.6
1	AA	699	C	3.6
1	CA	395	C	3.6
22	CV	1	C	3.6
35	BA	970	C	3.6
35	BA	1852	C	3.6
4	AD	206	PHE	3.6
37	BC	133	GLY	3.6
38	DD	172	TYR	3.6
52	DT	44	ASP	3.6
1	AA	255	G	3.6
1	CA	70	G	3.6
1	CA	945	G	3.6
1	CA	1357	A	3.6
1	CA	1418	A	3.6
24	AY	353	ALA	3.6
24	CY	660	ARG	3.6
35	BA	181	A	3.6
35	BA	271(D)	G	3.6
35	BA	1791	A	3.6
35	BA	1792	G	3.6
35	BA	1842	G	3.6
35	DA	96	G	3.6
35	DA	1248	G	3.6
36	DB	82	G	3.6
24	CY	636	PRO	3.6
35	BA	2504	U	3.6
35	DA	305	U	3.6
35	DA	2091	U	3.6
35	DA	2609	U	3.6
3	CC	131	ARG	3.5
4	CD	25	ARG	3.5
46	DN	2	LYS	3.5
24	AY	515	GLU	3.5
24	CY	532	GLY	3.5
33	D8	38	GLY	3.5
35	BA	545	C	3.5
35	BA	964	C	3.5
35	BA	1147	C	3.5
35	DA	2699	C	3.5
36	DB	43	C	3.5

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Mol	Chain	Res	Type	RSRZ
37	DC	164	PHE	3.5
39	BE	53	PRO	3.5
39	DE	89	ASP	3.5
46	DN	51	PHE	3.5
5	AE	89	ILE	3.5
11	AK	24	SER	3.5
1	AA	517	G	3.5
1	CA	236	G	3.5
1	CA	946	A	3.5
4	AD	61	LYS	3.5
27	D2	32	LEU	3.5
35	BA	1952	A	3.5
35	BA	2052	G	3.5
35	BA	2159	G	3.5
35	DA	1753	G	3.5
35	DA	1848	A	3.5
35	DA	2391	G	3.5
38	DD	276	LYS	3.5
44	DK	61	ALA	3.5
35	BA	395	U	3.5
35	BA	588	U	3.5
35	BA	2102	U	3.5
35	BA	2698	U	3.5
52	DT	20	PRO	3.5
58	DZ	174	VAL	3.5
3	CC	96	GLY	3.5
11	AK	110	ASP	3.5
28	D3	45	GLY	3.5
47	DO	95	GLY	3.5
1	CA	739	C	3.5
35	DA	105	C	3.5
35	DA	198	C	3.5
35	DA	611	C	3.5
35	DA	888	C	3.5
35	DA	998	C	3.5
35	DA	1362	C	3.5
35	DA	1752	C	3.5
35	DA	2195	C	3.5
35	DA	2881	C	3.5
1	AA	792	A	3.5
1	AA	964	A	3.5
1	CA	1236	A	3.5

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Mol	Chain	Res	Type	RSRZ
12	CL	121	GLY	3.5
24	AY	612	THR	3.5
24	CY	16	GLY	3.5
46	DN	78	TYR	3.5
35	BA	1455	G	3.5
35	BA	2310	A	3.5
35	BA	2553	G	3.5
35	DA	391	G	3.5
35	DA	466	A	3.5
35	DA	2397	G	3.5
35	DA	2711	A	3.5
39	DE	201	THR	3.5
46	DN	115	ARG	3.5
49	DQ	63	LYS	3.5
1	CA	833	U	3.5
35	DA	759	G	3.5
35	DA	2029	G	3.5
24	AY	168	ILE	3.5
34	B9	25	VAL	3.5
53	DU	41	ALA	3.5
58	DZ	24	LEU	3.5
1	CA	1282	C	3.5
22	AV	74	C	3.5
24	AY	584	ILE	3.5
49	BQ	39	PRO	3.5
54	DV	93	GLU	3.5
15	AO	70	LEU	3.5
1	AA	791	G	3.5
1	AA	1519	A	3.5
1	CA	88	A	3.5
35	BA	1798	U	3.5
35	DA	252	G	3.5
35	DA	397	G	3.5
35	DA	677	A	3.5
35	DA	823	G	3.5
35	DA	1269	A	3.5
35	DA	1509(B)	A	3.5
35	DA	2384	G	3.5
35	DA	2393	A	3.5
35	DA	2422	A	3.5
49	DQ	18	LYS	3.5
19	AS	38	SER	3.5

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Mol	Chain	Res	Type	RSRZ
35	BA	562	U	3.5
8	AH	117	GLY	3.5
55	BW	10	VAL	3.5
24	CY	184	LYS	3.5
46	BN	78	TYR	3.5
50	BR	42	LYS	3.5
38	BD	43	ARG	3.5
1	CA	110	C	3.5
1	CA	290	C	3.5
35	BA	484	C	3.5
35	BA	645	C	3.5
35	BA	692	C	3.5
35	DA	2026	C	3.5
35	DA	2261	C	3.5
11	AK	61	ALA	3.5
12	CL	27	LEU	3.5
14	AN	43	CYS	3.5
25	B0	15	ASP	3.5
16	CP	26	ARG	3.5
35	DA	740	U	3.5
35	DA	1901	A	3.5
48	BP	84	ASN	3.5
51	DS	36	TYR	3.5
58	BZ	112	ARG	3.5
1	AA	115	G	3.5
1	CA	774	G	3.5
1	CA	1467	G	3.5
22	CV	19	G	3.5
24	AY	85	PRO	3.5
35	DA	1193	G	3.5
35	DA	1519	G	3.5
35	DA	2845	G	3.5
47	DO	2	ILE	3.5
4	CD	56	VAL	3.5
24	AY	385	THR	3.5
46	DN	128	HIS	3.5
47	BO	76	ALA	3.5
10	AJ	35	SER	3.5
54	DV	29	PRO	3.5
1	CA	1296	C	3.5
11	CK	89	ALA	3.5
12	AL	32	PHE	3.5

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Mol	Chain	Res	Type	RSRZ
35	BA	678	C	3.5
35	BA	1080	C	3.5
36	BB	42	C	3.5
37	BC	216	THR	3.5
1	AA	908	A	3.5
35	BA	276	A	3.5
35	BA	1046	A	3.5
35	BA	2522	U	3.5
35	DA	272(I)	U	3.5
35	DA	1023	U	3.5
35	DA	1103	A	3.5
35	DA	1943	U	3.5
35	DA	2144	U	3.5
35	DA	2684	U	3.5
54	DV	91	TYR	3.5
35	BA	622	G	3.5
35	BA	1260	G	3.5
35	DA	579	G	3.5
35	DA	1704	G	3.5
35	DA	1826	G	3.5
16	AP	54	GLU	3.5
26	B1	70	VAL	3.5
40	BF	154	VAL	3.5
4	CD	116	GLN	3.5
24	CY	573	HIS	3.5
30	B5	37	LYS	3.5
55	DW	29	LEU	3.5
39	DE	144	ARG	3.5
1	CA	366	C	3.5
7	CG	150	ALA	3.5
13	CM	51	ALA	3.5
35	BA	105	C	3.5
35	BA	417	C	3.5
35	BA	1221	C	3.5
35	DA	1531	C	3.5
35	DA	1564	C	3.5
35	DA	2701	C	3.5
50	BR	99	LYS	3.5
57	DY	79	CYS	3.5
58	BZ	170	THR	3.5
1	AA	827	U	3.5
1	CA	12	U	3.5

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Mol	Chain	Res	Type	RSRZ
1	CA	1005	A	3.5
3	AC	8	ILE	3.5
12	AL	89	ARG	3.5
20	AT	90	GLN	3.5
35	BA	609	A	3.5
35	BA	2564	A	3.5
35	DA	1095	A	3.5
1	AA	438	G	3.5
1	AA	550	G	3.5
1	AA	1081	G	3.5
1	AA	1526	G	3.5
1	CA	258	G	3.5
1	CA	1131	G	3.5
1	CA	1442	G	3.5
2	AB	89	GLY	3.5
9	CI	47	LEU	3.5
24	AY	249	GLY	3.5
35	BA	98	G	3.5
35	BA	1525	G	3.5
35	DA	275	G	3.5
35	DA	495	G	3.5
35	DA	1425	G	3.5
35	DA	2838	G	3.5
36	BB	54	G	3.5
4	CD	156	GLU	3.5
37	BC	32	GLU	3.5
49	DQ	43	THR	3.5
58	DZ	44	PHE	3.5
24	CY	151	ARG	3.5
38	BD	60	ARG	3.5
52	DT	91	ARG	3.5
53	DU	92	ARG	3.5
1	AA	930	C	3.5
1	CA	848	C	3.5
1	CA	1165	C	3.5
35	BA	1866	C	3.5
35	BA	2261	C	3.5
35	DA	420	C	3.5
35	DA	1882	C	3.5
40	BF	125	LEU	3.5
1	CA	622	A	3.5
4	CD	133	VAL	3.5

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Mol	Chain	Res	Type	RSRZ
15	AO	26	GLU	3.5
15	CO	10	LYS	3.5
35	BA	403	U	3.5
35	BA	1274	A	3.5
35	DA	2602	A	3.5
47	DO	48	PRO	3.5
1	AA	112	G	3.5
1	AA	1516	G	3.5
1	CA	231	G	3.5
1	CA	1120	G	3.5
4	AD	127	THR	3.5
35	BA	538	G	3.5
35	BA	2338	G	3.5
35	BA	2891	G	3.5
35	DA	690	G	3.5
35	DA	2307	G	3.5
35	DA	2595	G	3.5
8	CH	136	GLU	3.5
38	DD	87	ASN	3.5
47	BO	112	MET	3.5
3	CC	128	PHE	3.5
15	AO	2	PRO	3.5
50	BR	80	PHE	3.5
58	DZ	50	GLN	3.5
1	AA	511	C	3.5
1	CA	1277	C	3.5
35	BA	693	C	3.5
35	BA	2471	C	3.5
10	CJ	4	ILE	3.5
35	BA	427	U	3.5
35	DA	1012	U	3.5
1	AA	1229	A	3.5
1	CA	1333	A	3.5
3	AC	142	MET	3.5
17	CQ	15	MET	3.5
28	D3	34	GLU	3.5
35	BA	1654	A	3.5
53	DU	101	ARG	3.5
1	CA	858	G	3.5
15	AO	34	LEU	3.5
17	AQ	11	VAL	3.5
13	AM	31	LYS	3.5

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Mol	Chain	Res	Type	RSRZ
35	BA	989	G	3.5
35	BA	1529	G	3.5
35	BA	2035	G	3.5
35	BA	2093	G	3.5
35	DA	355	G	3.5
55	BW	33	ARG	3.5
1	AA	677	U	3.5
1	CA	672	U	3.5
1	CA	708	C	3.5
1	CA	1352	C	3.5
24	CY	374	LEU	3.5
35	BA	363(E)	U	3.5
35	BA	2799	C	3.5
35	DA	87	C	3.5
35	DA	826	U	3.5
35	DA	2201	C	3.5
38	BD	72	LYS	3.5
39	DE	14	ILE	3.5
35	BA	2565	A	3.5
35	DA	49	A	3.5
58	BZ	128	VAL	3.5
5	CE	95	ALA	3.4
7	AG	56	GLN	3.4
1	AA	1184	G	3.4
1	CA	35	G	3.4
1	CA	1144	G	3.4
6	AF	34	GLY	3.4
30	D5	54	GLY	3.4
34	D9	6	SER	3.4
35	DA	654(L)	G	3.4
35	DA	2302	G	3.4
35	DA	2867	G	3.4
58	DZ	12	GLY	3.4
58	BZ	126	VAL	3.4
1	CA	433	C	3.4
1	CA	643	C	3.4
28	D3	13	ILE	3.4
35	BA	1205	U	3.4
35	DA	421	U	3.4
35	DA	2021	C	3.4
36	BB	84	C	3.4
40	DF	50	SER	3.4

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Mol	Chain	Res	Type	RSRZ
1	CA	816	A	3.4
1	CA	975	A	3.4
1	CA	1306	A	3.4
2	AB	30	ARG	3.4
9	AI	111	ARG	3.4
26	B1	54	ALA	3.4
35	BA	1322	A	3.4
35	DA	241	A	3.4
6	CF	89	MET	3.4
24	AY	586	GLY	3.4
58	BZ	148	ASP	3.4
1	CA	168	G	3.4
1	CA	644	G	3.4
1	CA	1241	G	3.4
1	CA	1290	G	3.4
9	AI	112	LYS	3.4
19	CS	32	LYS	3.4
35	DA	1948	G	3.4
35	DA	2550	G	3.4
3	AC	203	PHE	3.4
16	CP	8	ARG	3.4
16	AP	45	THR	3.4
44	BK	36	GLU	3.4
47	BO	6	THR	3.4
1	AA	222	U	3.4
35	DA	1090	U	3.4
35	DA	1420	U	3.4
35	DA	1844	C	3.4
35	DA	2260	C	3.4
38	BD	64	ILE	3.4
15	CO	53	HIS	3.4
24	CY	525	PHE	3.4
1	AA	51	A	3.4
1	AA	300	A	3.4
1	CA	313	A	3.4
4	AD	167	GLY	3.4
8	CH	73	ASP	3.4
24	AY	263	ALA	3.4
35	DA	2322	A	3.4
36	BB	102	A	3.4
38	DD	243	GLY	3.4
41	BG	24	GLY	3.4

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Mol	Chain	Res	Type	RSRZ
50	DR	19	ALA	3.4
52	BT	93	ARG	3.4
11	AK	44	SER	3.4
1	CA	731	G	3.4
24	AY	671	MET	3.4
35	BA	2706	G	3.4
35	DA	616	G	3.4
35	DA	944	G	3.4
35	DA	1799	G	3.4
35	DA	2228	G	3.4
35	DA	2405	G	3.4
37	BC	218	THR	3.4
39	BE	127	ASP	3.4
1	AA	83	U	3.4
35	DA	1433	U	3.4
35	DA	2593	U	3.4
1	CA	189(B)	C	3.4
1	CA	194	C	3.4
35	DA	595	C	3.4
41	DG	75	LYS	3.4
51	BS	76	LYS	3.4
4	CD	109	GLY	3.4
1	AA	1268	A	3.4
1	CA	196	A	3.4
1	CA	415	A	3.4
1	CA	1055	A	3.4
1	CA	1447	A	3.4
5	CE	24	ARG	3.4
39	DE	31	CYS	3.4
24	CY	350	GLU	3.4
24	AY	158	GLY	3.4
24	CY	149	VAL	3.4
1	AA	1068	G	3.4
1	AA	1491	G	3.4
1	CA	575	G	3.4
20	AT	56	MET	3.4
24	AY	310	ALA	3.4
24	CY	287	PRO	3.4
24	CY	606	MET	3.4
35	BA	408	G	3.4
35	BA	1024	G	3.4
35	DA	1989	G	3.4

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Mol	Chain	Res	Type	RSRZ
3	AC	43	LEU	3.4
3	AC	127	ARG	3.4
47	BO	82	ASN	3.4
47	DO	111	PHE	3.4
35	DA	1688	U	3.4
35	DA	2291	U	3.4
37	BC	184	GLU	3.4
26	B1	23	LYS	3.4
35	DA	237	C	3.4
35	DA	486	C	3.4
46	DN	98	VAL	3.4
56	DX	61	GLY	3.4
50	DR	11	ASN	3.4
1	CA	1130	A	3.4
4	CD	145	GLU	3.4
8	AH	99	GLU	3.4
11	AK	22	HIS	3.4
35	BA	2425	A	3.4
35	DA	2418	A	3.4
24	CY	434	GLU	3.4
42	DH	116	GLU	3.4
46	BN	80	GLY	3.4
47	DO	18	LYS	3.4
1	AA	682	G	3.4
1	CA	709	G	3.4
22	AV	49	G	3.4
35	BA	636	G	3.4
35	BA	1491	G	3.4
35	DA	271(H)	G	3.4
47	DO	94	ARG	3.4
53	DU	67	ALA	3.4
10	CJ	85	LEU	3.4
11	AK	59	TYR	3.4
22	AV	20	U	3.4
35	BA	1523	U	3.4
35	BA	2604	U	3.4
35	DA	2312	U	3.4
4	AD	43	HIS	3.4
54	BV	41	GLY	3.4
1	AA	336	C	3.4
1	AA	1153	C	3.4
1	CA	248	C	3.4

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Mol	Chain	Res	Type	RSRZ
1	CA	623	C	3.4
22	CW	62	C	3.4
35	BA	2065	C	3.4
35	DA	174	C	3.4
35	DA	1140	C	3.4
1	CA	349	A	3.4
35	BA	990	A	3.4
35	BA	2369	A	3.4
35	DA	1427	A	3.4
35	DA	2169	A	3.4
37	BC	117	THR	3.4
37	DC	94	TYR	3.4
13	CM	92	HIS	3.4
15	AO	45	VAL	3.4
15	CO	71	GLN	3.4
24	AY	107	VAL	3.4
1	AA	156	G	3.4
1	CA	297	G	3.4
1	CA	703	G	3.4
1	CA	1002	G	3.4
35	BA	877	U	3.4
35	BA	1801	G	3.4
35	DA	1252	G	3.4
35	DA	1422	G	3.4
35	DA	1485	G	3.4
36	DB	97	G	3.4
46	DN	81	GLY	3.4
40	BF	133	ASN	3.4
58	DZ	67	LEU	3.4
1	AA	970	C	3.4
2	CB	132	LYS	3.4
24	AY	458	HIS	3.4
35	BA	1135	C	3.4
35	DA	1710	C	3.4
40	DF	105	VAL	3.4
1	AA	152	A	3.4
1	AA	1015	A	3.4
1	CA	273	A	3.4
1	CA	918	A	3.4
24	AY	637	ARG	3.4
35	BA	654(V)	A	3.4
35	BA	2273	A	3.4

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Mol	Chain	Res	Type	RSRZ
35	BA	2753	A	3.4
19	CS	52	TYR	3.4
1	AA	942	G	3.4
1	CA	203	U	3.4
4	AD	67	ILE	3.4
2	AB	130	ARG	3.4
35	BA	1364	G	3.4
35	DA	570	G	3.4
35	DA	1671	U	3.4
35	DA	2189	U	3.4
22	CV	40	C	3.4
24	CY	685	GLU	3.4
6	AF	27	GLN	3.4
35	BA	2201	C	3.4
35	DA	1318	C	3.4
35	DA	2294	C	3.4
49	BQ	136	ALA	3.4
1	CA	393	A	3.4
1	CA	1492	A	3.4
2	CB	97	TRP	3.4
35	BA	782	A	3.4
35	DA	2566	A	3.4
6	CF	33	TYR	3.4
1	CA	1062	U	3.4
24	AY	286	ILE	3.4
24	AY	399	LEU	3.4
35	BA	90	U	3.4
35	BA	2390	U	3.4
52	BT	49	VAL	3.4
1	AA	232	G	3.4
1	AA	1050	G	3.4
1	CA	878	G	3.4
1	CA	1011	G	3.4
35	BA	831	G	3.4
35	BA	1492	G	3.4
35	DA	748	G	3.4
35	DA	939	G	3.4
1	AA	1066	C	3.4
1	CA	1384	C	3.4
1	CA	1411	C	3.4
24	CY	244	ALA	3.4
35	BA	2021	C	3.4

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Mol	Chain	Res	Type	RSRZ
35	BA	2359	C	3.4
55	BW	78	GLU	3.4
38	BD	61	LEU	3.4
44	DK	54	PRO	3.4
35	BA	6	A	3.4
35	DA	1938	A	3.4
37	DC	91	GLY	3.4
22	AW	56	U	3.4
35	BA	555	U	3.4
35	BA	1834	U	3.4
35	DA	943	U	3.4
35	DA	2563	U	3.4
6	AF	83	ASP	3.4
11	AK	78	GLN	3.4
16	AP	76	GLN	3.4
50	BR	50	HIS	3.4
1	CA	7	G	3.4
1	CA	391	G	3.4
1	CA	742	G	3.4
8	CH	93	VAL	3.4
35	BA	1310	G	3.4
35	BA	2399	G	3.4
35	DA	220	G	3.4
35	DA	619	G	3.4
35	DA	1337	G	3.4
35	DA	2165	G	3.4
35	DA	2186	G	3.4
35	DA	2479	G	3.4
1	AA	137	C	3.3
1	AA	1226	C	3.3
1	CA	63	C	3.3
3	AC	157	ILE	3.3
33	B8	24	ALA	3.3
40	DF	137	LYS	3.4
35	BA	97	C	3.3
35	DA	1708	C	3.3
35	DA	2772	C	3.3
38	BD	190	TYR	3.3
3	CC	132	ARG	3.3
4	AD	194	LEU	3.3
1	AA	889	A	3.3
38	BD	216	GLY	3.3

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Mol	Chain	Res	Type	RSRZ
32	B7	1	MET	3.3
3	CC	26	LYS	3.3
57	DY	88	LYS	3.3
35	BA	230	U	3.3
35	DA	1396	U	3.3
42	DH	142	GLY	3.3
18	AR	53	ARG	3.3
52	BT	51	ARG	3.3
1	AA	1385	G	3.3
1	CA	318	G	3.3
1	CA	597	G	3.3
35	BA	1107	G	3.3
35	BA	2300	G	3.3
1	AA	1019	C	3.3
1	CA	717	C	3.3
9	AI	32	ASP	3.3
26	B1	71	TYR	3.3
35	BA	2885	C	3.3
1	AA	640	A	3.3
1	CA	533	A	3.3
35	DA	1069	A	3.3
24	AY	180	VAL	3.3
35	BA	907	U	3.3
38	BD	99	ASP	3.3
40	BF	29	ASN	3.3
30	B5	32	PRO	3.3
49	DQ	70	PRO	3.3
4	AD	66	ARG	3.3
1	CA	505	G	3.3
1	CA	1185	G	3.3
11	AK	41	THR	3.3
18	AR	88	LYS	3.3
35	BA	1169	G	3.3
35	BA	2535	G	3.3
35	DA	135	G	3.3
35	DA	266	G	3.3
35	DA	307	G	3.3
35	DA	942	G	3.3
35	DA	978	G	3.3
35	DA	1388	G	3.3
35	DA	1682	G	3.3
35	DA	2093	G	3.3

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Mol	Chain	Res	Type	RSRZ
35	DA	2341	G	3.3
36	DB	33	G	3.3
44	BK	44	ALA	3.3
53	DU	48	ALA	3.3
1	AA	586	C	3.3
8	AH	112	LEU	3.3
12	CL	16	GLU	3.3
33	B8	50	LEU	3.3
35	BA	2073	C	3.3
35	DA	2188	C	3.3
1	CA	1250	A	3.3
28	D3	30	ARG	3.3
35	BA	1631(A)	A	3.3
35	DA	43	A	3.3
35	DA	614(C)	A	3.3
36	DB	25	A	3.3
41	DG	153	ARG	3.3
11	CK	69	ALA	3.3
16	CP	14	ASN	3.3
24	CY	67	ALA	3.3
27	B2	54	LYS	3.3
1	CA	1381	U	3.3
1	CA	1498	U	3.3
35	BA	937	U	3.3
35	DA	1602	U	3.3
35	DA	2462	U	3.3
4	CD	77	ASN	3.3
8	AH	35	ILE	3.3
37	DC	174	ALA	3.3
48	BP	86	LYS	3.3
57	BY	72	VAL	3.3
1	AA	1311	G	3.3
1	CA	281	G	3.3
35	BA	2802	G	3.3
35	DA	80	G	3.3
35	DA	2744	G	3.3
1	AA	1420	C	3.3
1	CA	189(A)	C	3.3
13	CM	56	LEU	3.3
35	DA	791	C	3.3
35	DA	1600	C	3.3
35	DA	2161	C	3.3

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Mol	Chain	Res	Type	RSRZ
1	CA	702	A	3.3
1	CA	1275	A	3.3
12	CL	65	GLU	3.3
35	BA	221	A	3.3
35	BA	2060	A	3.3
35	DA	320	A	3.3
55	BW	40	ASN	3.3
35	BA	2034	U	3.3
35	DA	2390	U	3.3
11	CK	39	PRO	3.3
48	BP	40	SER	3.3
55	BW	21	VAL	3.3
18	CR	75	ILE	3.3
49	BQ	134	ARG	3.3
39	BE	41	LYS	3.3
1	AA	318	G	3.3
1	CA	278	G	3.3
1	CA	289	G	3.3
1	CA	736	C	3.3
5	AE	105	VAL	3.3
10	CJ	94	VAL	3.3
35	BA	1248	G	3.3
35	DA	258	G	3.3
35	DA	549	G	3.3
35	DA	1225	G	3.3
35	DA	2389	G	3.3
35	DA	965	C	3.3
35	DA	975	C	3.3
35	DA	1221	C	3.3
35	DA	2174	C	3.3
53	DU	94	ASN	3.3
5	CE	6	PHE	3.3
1	AA	900	A	3.3
1	CA	329	A	3.3
1	CA	819	A	3.3
9	CI	114	TYR	3.3
16	CP	12	LYS	3.3
16	CP	32	TYR	3.3
35	BA	2882	A	3.3
51	DS	23	ARG	3.3
56	DX	46	ALA	3.3
58	DZ	185	GLU	3.3

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Mol	Chain	Res	Type	RSRZ
10	AJ	88	LEU	3.3
5	AE	121	LYS	3.3
11	AK	69	ALA	3.3
11	CK	126	ARG	3.3
20	CT	44	ALA	3.3
47	DO	80	ASP	3.3
24	AY	467	LYS	3.3
50	DR	68	ARG	3.3
1	AA	216	G	3.3
1	AA	541	G	3.3
1	CA	895	G	3.3
1	CA	178	C	3.3
2	CB	196	LEU	3.3
22	AV	2	G	3.3
22	CV	2	G	3.3
35	BA	80	G	3.3
35	BA	1922	G	3.3
35	BA	2472	G	3.3
35	DA	553	G	3.3
35	DA	805	G	3.3
51	DS	90	GLY	3.3
54	BV	63	GLY	3.3
35	BA	915	C	3.3
35	BA	2394	C	3.3
35	DA	129	C	3.3
35	DA	385	C	3.3
35	DA	1458	C	3.3
35	DA	2404	C	3.3
47	DO	12	ASP	3.3
54	BV	90	PRO	3.3
1	AA	84	U	3.3
1	CA	204	U	3.3
1	CA	353	A	3.3
1	CA	991	U	3.3
4	AD	38	TYR	3.3
4	CD	170	VAL	3.3
11	AK	122	LYS	3.3
34	D9	25	VAL	3.3
35	BA	126	A	3.3
35	BA	306	U	3.3
35	BA	1198	U	3.3
35	BA	1272	A	3.3

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Mol	Chain	Res	Type	RSRZ
35	DA	2473	U	3.3
50	DR	26	LYS	3.3
55	DW	92	ARG	3.3
55	DW	110	LYS	3.3
50	DR	51	LEU	3.3
12	CL	83	VAL	3.3
40	DF	158	THR	3.3
50	DR	32	GLY	3.3
54	BV	8	GLY	3.3
58	DZ	43	GLU	3.3
22	CW	46	G	3.3
35	BA	1074	G	3.3
35	BA	2321	G	3.3
35	BA	2618	G	3.3
35	DA	2012	G	3.3
35	DA	2461	C	3.3
35	DA	2618	G	3.3
36	BB	51	G	3.3
52	BT	123	GLN	3.3
35	BA	94	C	3.3
1	CA	321	A	3.3
1	CA	482	A	3.3
1	CA	1091	U	3.3
4	AD	49	ARG	3.3
10	AJ	27	ALA	3.3
26	D1	34	THR	3.3
31	B6	29	ASN	3.3
42	BH	50	VAL	3.3
35	DA	362	U	3.3
35	DA	2866	U	3.3
37	BC	79	ALA	3.3
56	BX	35	THR	3.3
37	DC	43	GLU	3.3
12	AL	125	PRO	3.3
2	AB	218	ALA	3.3
37	BC	64	SER	3.3
49	BQ	49	ALA	3.3
49	BQ	61	GLY	3.3
34	D9	7	VAL	3.3
35	DA	2279	G	3.3
35	DA	2848	G	3.3
39	BE	143	ASN	3.3

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Mol	Chain	Res	Type	RSRZ
39	DE	184	VAL	3.3
57	BY	79	CYS	3.3
1	CA	322	C	3.3
1	CA	754	C	3.3
1	CA	1155	G	3.3
35	BA	1533	G	3.3
35	BA	2833	G	3.3
35	DA	55	G	3.3
35	DA	370	G	3.3
35	DA	610	G	3.3
35	DA	1448	G	3.3
35	DA	1782	C	3.3
35	DA	1883	G	3.3
1	AA	1285	A	3.3
1	AA	1510	U	3.3
35	BA	1312	U	3.3
35	BA	1341	U	3.3
4	AD	112	VAL	3.3
35	BA	1932	A	3.3
35	BA	2269	A	3.3
35	BA	2422	A	3.3
35	DA	53	A	3.3
35	DA	1096	A	3.3
36	BB	52	A	3.3
26	D1	85	LEU	3.3
5	AE	116	THR	3.3
49	BQ	121	ALA	3.3
17	AQ	12	SER	3.3
3	CC	176	HIS	3.3
19	AS	64	GLU	3.3
41	DG	102	PHE	3.3
58	DZ	11	GLU	3.3
1	AA	145	G	3.3
1	AA	489	C	3.3
1	AA	575	G	3.3
1	AA	711	G	3.3
1	CA	131	C	3.3
1	CA	1181	G	3.3
1	CA	1400	C	3.3
27	B2	43	GLN	3.3
42	DH	112	PRO	3.3
22	CV	47	U	3.3

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Mol	Chain	Res	Type	RSRZ
22	CW	48	U	3.3
24	CY	565	VAL	3.3
35	BA	214	G	3.3
35	BA	271(K)	U	3.3
35	BA	1229	G	3.3
35	BA	2584	U	3.3
35	BA	2717	G	3.3
35	DA	32	C	3.3
35	DA	489	G	3.3
35	DA	594	U	3.3
35	DA	873	G	3.3
35	DA	919	G	3.3
35	DA	1381	G	3.3
35	DA	1648	C	3.3
35	DA	2240	C	3.3
35	DA	2399	G	3.3
1	CA	185	A	3.3
5	CE	36	ASP	3.3
24	CY	686	LYS	3.3
35	BA	1419	A	3.3
35	DA	835	A	3.3
2	AB	143	GLU	3.3
13	AM	61	GLU	3.3
39	BE	142	GLY	3.3
40	BF	207	GLY	3.3
24	AY	388	THR	3.2
55	BW	57	ASN	3.2
15	CO	86	GLY	3.2
17	AQ	8	GLY	3.2
24	AY	169	GLY	3.2
41	DG	76	SER	3.2
42	BH	84	SER	3.2
42	DH	108	GLY	3.2
47	DO	105	GLU	3.2
1	AA	587	G	3.2
1	AA	1062	U	3.2
1	AA	1182	G	3.2
1	CA	664	G	3.2
1	CA	1171	G	3.2
1	CA	1274	G	3.2
1	CA	1439	C	3.2
9	AI	36	TYR	3.2

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Mol	Chain	Res	Type	RSRZ
10	CJ	76	ASN	3.2
22	AV	30	G	3.2
35	BA	614(A)	U	3.2
2	CB	160	ASP	3.2
3	CC	18	TRP	3.2
3	CC	140	ARG	3.2
35	BA	702	G	3.2
35	BA	956	G	3.2
35	DA	380	U	3.2
35	DA	977	G	3.2
35	DA	1835	G	3.2
35	DA	2592	G	3.2
35	DA	2844	G	3.2
52	BT	136	GLN	3.2
16	AP	35	LYS	3.2
24	AY	452	SER	3.2
35	BA	8	A	3.2
35	DA	734	A	3.2
35	DA	1689	A	3.2
35	DA	2369	A	3.2
50	DR	10	LEU	3.2
24	CY	406	GLU	3.2
4	AD	25	ARG	3.2
9	CI	25	LYS	3.2
12	CL	33	ARG	3.2
1	AA	204	U	3.2
1	AA	657	G	3.2
1	AA	896	C	3.2
4	CD	95	GLY	3.2
8	CH	117	GLY	3.2
9	CI	88	TYR	3.2
24	AY	623	ASP	3.2
35	BA	508	G	3.2
35	BA	587	C	3.2
35	BA	709	U	3.2
35	BA	341	G	3.2
35	BA	1157	G	3.2
35	BA	1849	G	3.2
35	BA	2026	C	3.2
35	BA	2141	G	3.2
35	DA	271(R)	G	3.2
35	DA	396	G	3.2

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Mol	Chain	Res	Type	RSRZ
35	DA	583	G	3.2
35	DA	672	C	3.2
35	DA	1465	G	3.2
35	DA	2421	G	3.2
35	DA	2678	C	3.2
36	BB	11	C	3.2
48	BP	20	GLY	3.2
1	CA	583	A	3.2
24	AY	567	LEU	3.2
58	DZ	183	LEU	3.2
24	CY	535	PRO	3.2
9	CI	117	HIS	3.2
39	BE	110	GLY	3.2
16	CP	31	LYS	3.2
53	DU	29	SER	3.2
1	CA	669	U	3.2
24	AY	295	GLU	3.2
1	CA	93	G	3.2
1	CA	198	G	3.2
1	CA	492	G	3.2
1	CA	1209	C	3.2
24	AY	565	VAL	3.2
35	BA	1033	U	3.2
35	DA	607	U	3.2
35	DA	1240	U	3.2
47	BO	11	ALA	3.2
50	DR	102	GLU	3.2
1	CA	1475	G	3.2
9	AI	97	LYS	3.2
35	BA	559	G	3.2
35	BA	2018	G	3.2
35	BA	2313	C	3.2
35	BA	2853	C	3.2
35	BA	2886	G	3.2
35	DA	285	C	3.2
35	DA	1493	C	3.2
35	DA	412	A	3.2
35	DA	620	G	3.2
35	DA	717	G	3.2
35	DA	856	C	3.2
35	DA	1342	A	3.2
35	DA	2304	G	3.2

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Mol	Chain	Res	Type	RSRZ
35	DA	2869	G	3.2
20	AT	33	ILE	3.2
24	AY	33	LEU	3.2
39	BE	131	ALA	3.2
33	B8	40	GLU	3.2
19	CS	78	ARG	3.2
38	DD	5	LYS	3.2
57	DY	94	LYS	3.2
1	CA	367	U	3.2
1	CA	591	U	3.2
1	CA	1194	U	3.2
9	AI	106	ALA	3.2
16	AP	29	ASP	3.2
16	AP	66	PRO	3.2
38	DD	128	GLY	3.2
47	BO	52	VAL	3.2
54	BV	79	VAL	3.2
35	BA	2563	U	3.2
36	DB	55	U	3.2
58	DZ	93	ASP	3.2
6	CF	58	GLY	3.2
12	AL	88	GLY	3.2
22	CV	18	G	3.2
24	CY	621	ILE	3.2
32	B7	28	ARG	3.2
35	DA	409	C	3.2
39	BE	128	SER	3.2
35	BA	349	G	3.2
35	BA	977	G	3.2
35	BA	2763	G	3.2
35	DA	78	A	3.2
35	DA	631	A	3.2
35	DA	849	A	3.2
35	DA	1613	G	3.2
35	DA	2278	A	3.2
37	BC	49	GLY	3.2
50	BR	86	ARG	3.2
56	BX	67	GLY	3.2
57	BY	104	GLY	3.2
2	AB	121	LEU	3.2
3	AC	184	TYR	3.2
58	DZ	89	PHE	3.2

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Mol	Chain	Res	Type	RSRZ
1	AA	743	U	3.2
1	CA	261	U	3.2
1	CA	358	U	3.2
22	CW	56	U	3.2
35	BA	235	U	3.2
35	BA	1026	U	3.2
35	BA	1101	U	3.2
37	DC	212	SER	3.2
38	DD	195	ALA	3.2
40	DF	92	PRO	3.2
55	DW	60	ASN	3.2
7	AG	138	LYS	3.2
35	BA	560	C	3.2
35	BA	2856	C	3.2
35	DA	1892	C	3.2
47	BO	47	ILE	3.2
1	AA	1044	A	3.2
1	CA	108	G	3.2
1	CA	830	G	3.2
1	CA	965	A	3.2
22	CV	53	G	3.2
23	AX	15	A	3.2
35	BA	271(U)	G	3.2
35	BA	628	G	3.2
35	DA	317	G	3.2
50	BR	51	LEU	3.2
37	DC	114	VAL	3.2
57	BY	60	PHE	3.2
46	BN	10	GLU	3.2
1	AA	1341	U	3.2
1	CA	1085	U	3.2
5	CE	138	ALA	3.2
9	AI	31	GLN	3.2
37	DC	106	ASP	3.2
39	BE	18	ASP	3.2
24	CY	626	ALA	3.2
35	BA	239	U	3.2
35	BA	2312	U	3.2
35	DA	569	U	3.2
39	DE	23	VAL	3.2
47	BO	42	SER	3.2
47	BO	63	VAL	3.2

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Mol	Chain	Res	Type	RSRZ
22	AW	63	C	3.2
35	BA	2284	C	3.2
35	BA	2889	C	3.2
35	DA	1451	C	3.2
35	DA	1513	C	3.2
35	DA	1691	C	3.2
35	DA	2066	C	3.2
36	DB	88	C	3.2
37	DC	6	LYS	3.2
1	CA	11	G	3.2
1	CA	815	A	3.2
35	DA	171	G	3.2
35	DA	248	G	3.2
35	DA	633	A	3.2
35	DA	716	A	3.2
35	DA	853	G	3.2
35	DA	1552	G	3.2
35	DA	1668	A	3.2
37	DC	161	ARG	3.2
1	CA	1124	G	3.2
4	AD	28	SER	3.2
12	AL	83	VAL	3.2
15	CO	18	PHE	3.2
24	AY	185	ALA	3.2
24	AY	541	ALA	3.2
35	BA	638	G	3.2
35	BA	707	G	3.2
35	DA	2191	G	3.2
50	DR	15	SER	3.2
51	DS	100	ALA	3.2
4	AD	84	LYS	3.2
8	AH	104	ARG	3.2
18	AR	38	GLU	3.2
24	CY	637	ARG	3.2
30	D5	56	LYS	3.2
47	DO	82	ASN	3.2
6	CF	26	ILE	3.2
1	AA	1382	C	3.2
1	CA	106	C	3.2
1	CA	810	C	3.2
1	CA	1118	C	3.2
54	BV	24	LYS	3.2

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Mol	Chain	Res	Type	RSRZ
57	DY	26	LYS	3.2
1	AA	298	A	3.2
1	AA	538	G	3.2
1	CA	262	A	3.2
1	CA	607	A	3.2
35	BA	1538	G	3.2
35	BA	2358	G	3.2
35	DA	872	A	3.2
35	DA	1231	G	3.2
35	DA	1439	A	3.2
38	BD	40	THR	3.2
38	DD	217	ARG	3.2
1	CA	903	G	3.2
10	AJ	31	GLY	3.2
35	DA	1742	G	3.2
40	BF	42	ALA	3.2
51	DS	22	GLY	3.2
14	CN	61	TRP	3.2
24	AY	122	TRP	3.2
24	CY	533	VAL	3.2
1	CA	561	U	3.2
10	CJ	93	GLY	3.2
30	B5	20	ARG	3.2
35	BA	271(L)	U	3.2
35	BA	858	U	3.2
35	DA	1035	U	3.2
35	DA	1397	U	3.2
35	DA	2847	U	3.2
38	BD	110	GLY	3.2
38	DD	2	ALA	3.2
41	DG	168	GLU	3.2
42	DH	93	GLY	3.2
50	DR	36	THR	3.2
7	AG	144	MET	3.2
24	AY	444	PRO	3.2
39	BE	62	PRO	3.2
51	BS	82	ILE	3.2
1	CA	901	A	3.2
29	D4	23	GLU	3.2
35	DA	903	C	3.2
37	BC	33	LEU	3.2
58	BZ	24	LEU	3.2

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Mol	Chain	Res	Type	RSRZ
35	DA	1528	A	3.2
35	DA	1700	A	3.2
1	CA	1108	G	3.2
15	CO	74	ASP	3.2
22	CW	20	G	3.2
35	BA	1816	G	3.2
35	DA	506	G	3.2
35	DA	2751	G	3.2
36	DB	81	G	3.2
51	BS	16	ASN	3.2
24	CY	179	ASP	3.2
35	DA	2150	U	3.2
36	DB	96	U	3.2
40	BF	155	LEU	3.2
48	BP	34	GLY	3.2
54	DV	87	HIS	3.2
35	BA	813	U	3.2
24	CY	436	PRO	3.2
48	BP	51	PHE	3.2
38	DD	65	ILE	3.2
1	AA	165	C	3.2
1	AA	217	C	3.2
14	AN	50	LYS	3.2
30	D5	9	LYS	3.2
40	BF	59	TYR	3.2
1	AA	1287	A	3.1
7	AG	123	GLU	3.1
32	B7	35	ARG	3.1
35	BA	2145	C	3.2
35	DA	581	C	3.2
35	DA	2129	C	3.2
24	CY	283	PRO	3.1
35	BA	727	A	3.1
35	BA	1812	A	3.1
35	DA	429	A	3.1
35	DA	1586	A	3.1
46	DN	55	VAL	3.1
1	AA	1143	G	3.1
1	CA	853	G	3.1
35	BA	1192	G	3.1
35	BA	2325	G	3.1
35	DA	363(C)	G	3.1

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Mol	Chain	Res	Type	RSRZ
47	DO	74	GLY	3.1
1	CA	189(F)	U	3.1
1	CA	189(K)	U	3.1
18	CR	79	LEU	3.1
47	DO	53	LYS	3.1
47	DO	113	LYS	3.1
35	BA	2796	U	3.1
41	DG	56	ALA	3.1
47	BO	23	ARG	3.1
10	AJ	98	ILE	3.1
1	AA	335	C	3.1
1	CA	279	A	3.1
1	CA	288	A	3.1
1	CA	892	A	3.1
4	AD	159	ARG	3.1
35	BA	1462	C	3.1
35	DA	543	C	3.1
39	BE	20	ALA	3.1
57	BY	48	ALA	3.1
35	BA	2430	A	3.1
35	BA	2670	A	3.1
35	BA	2776	A	3.1
35	DA	1242	A	3.1
50	BR	52	ILE	3.1
35	BA	1424	G	3.1
35	BA	1856	G	3.1
35	DA	194	G	3.1
58	BZ	48	PHE	3.1
2	AB	215	LEU	3.1
35	DA	2118	U	3.1
38	DD	19	ALA	3.1
6	AF	17	SER	3.1
47	BO	56	ASP	3.1
1	AA	910	C	3.1
5	CE	35	GLY	3.1
21	CU	4	GLY	3.1
35	BA	889	C	3.1
35	BA	1660	C	3.1
35	BA	2007	C	3.1
35	DA	540	C	3.1
38	BD	224	ALA	3.1
35	BA	1471	A	3.1

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Mol	Chain	Res	Type	RSRZ
13	CM	58	GLU	3.1
39	DE	55	ASN	3.1
1	AA	604	G	3.1
1	CA	216	G	3.1
4	CD	184	LYS	3.1
35	BA	240	G	3.1
35	BA	684	G	3.1
35	BA	2605	U	3.1
35	DA	2193	G	3.1
39	DE	174	ASP	3.1
24	AY	79	ILE	3.1
55	BW	103	ILE	3.1
42	BH	111	HIS	3.1
21	AU	25	LYS	3.1
1	AA	706	A	3.1
1	AA	1203	C	3.1
1	CA	1044	A	3.1
1	CA	1107	C	3.1
1	CA	1195	C	3.1
4	AD	105	VAL	3.1
38	BD	27	THR	3.1
41	BG	173	LEU	3.1
58	BZ	136	PHE	3.1
24	CY	351	ARG	3.1
35	BA	271(C)	C	3.1
35	BA	866	A	3.1
35	BA	1048	A	3.1
35	BA	1073	A	3.1
35	BA	1095	A	3.1
35	BA	2775	A	3.1
35	DA	279	C	3.1
35	DA	1900	A	3.1
35	DA	2612	C	3.1
35	DA	2787	C	3.1
44	BK	98	ARG	3.1
52	DT	12	SER	3.1
1	CA	266	G	3.1
1	CA	775	G	3.1
1	CA	905	U	3.1
9	AI	15	ALA	3.1
17	CQ	16	GLN	3.1
35	BA	2048	G	3.1

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Mol	Chain	Res	Type	RSRZ
35	BA	2633	G	3.1
35	BA	2864	G	3.1
35	DA	1056	G	3.1
30	B5	7	PRO	3.1
58	BZ	176	PRO	3.1
24	AY	176	GLY	3.1
39	DE	73	GLU	3.1
41	BG	84	LYS	3.1
48	BP	132	LYS	3.1
1	CA	435	C	3.1
3	AC	172	ARG	3.1
35	BA	535	C	3.1
35	BA	2326	C	3.1
35	DA	1557	C	3.1
1	AA	1427	U	3.1
10	CJ	62	HIS	3.1
20	AT	76	ALA	3.1
24	CY	36	THR	3.1
1	CA	778	G	3.1
35	BA	424	G	3.1
35	BA	2218	U	3.1
35	BA	2766	G	3.1
35	DA	1720	U	3.1
44	DK	51	ALA	3.1
5	AE	88	LYS	3.1
12	CL	42	THR	3.1
14	CN	47	LEU	3.1
25	B0	71	ASP	3.1
38	BD	202	LYS	3.1
39	DE	40	GLU	3.1
1	AA	1169	A	3.1
1	AA	1213	A	3.1
1	AA	1254	C	3.1
1	CA	345	C	3.1
1	CA	1100	C	3.1
1	CA	1179	A	3.1
2	AB	114	ARG	3.1
10	AJ	74	ILE	3.1
12	AL	29	GLY	3.1
35	BA	677	A	3.1
35	DA	244	A	3.1
35	DA	2394	C	3.1

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Mol	Chain	Res	Type	RSRZ
1	CA	841	U	3.1
7	CG	83	ALA	3.1
22	CV	60	U	3.1
30	B5	33	CYS	3.1
35	DA	2017	U	3.1
44	BK	141	ALA	3.1
1	AA	771	G	3.1
1	CA	98	G	3.1
1	CA	1458	G	3.1
35	BA	954	G	3.1
35	BA	1459	G	3.1
35	DA	1338	G	3.1
35	DA	1364	G	3.1
35	DA	1964	G	3.1
35	DA	2795	G	3.1
35	DA	2837	G	3.1
39	DE	59	VAL	3.1
55	DW	96	ILE	3.1
4	AD	114	ARG	3.1
6	CF	82	ARG	3.1
24	AY	7	TYR	3.1
14	CN	17	LYS	3.1
24	CY	101	LEU	3.1
37	BC	63	VAL	3.1
40	BF	139	PHE	3.1
46	DN	70	LYS	3.1
4	AD	69	GLY	3.1
48	DP	74	GLU	3.1
1	AA	1039	C	3.1
1	AA	1225	A	3.1
1	CA	1518	A	3.1
4	CD	132	ARG	3.1
12	AL	112	ASP	3.1
14	AN	35	ARG	3.1
22	CV	67	C	3.1
35	BA	299	A	3.1
35	BA	784	A	3.1
35	BA	955	C	3.1
35	BA	1612	C	3.1
55	BW	88	ARG	3.1
1	AA	1472	U	3.1
1	CA	182	U	3.1

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Mol	Chain	Res	Type	RSRZ
3	CC	184	TYR	3.1
29	D4	56	VAL	3.1
35	BA	851	U	3.1
35	BA	1113	U	3.1
35	BA	1671	U	3.1
35	DA	2832	U	3.1
44	BK	67	PHE	3.1
51	DS	12	PHE	3.1
50	BR	10	LEU	3.1
54	DV	47	VAL	3.1
1	AA	257	G	3.1
1	CA	332	G	3.1
9	CI	66	ARG	3.1
35	BA	2384	G	3.1
35	DA	341	G	3.1
35	DA	352	G	3.1
35	DA	437	G	3.1
35	DA	855	G	3.1
35	DA	2633	G	3.1
3	CC	45	LYS	3.1
5	CE	59	GLY	3.1
7	AG	37	ASN	3.1
11	CK	63	LEU	3.1
50	DR	18	LEU	3.1
58	DZ	69	THR	3.1
24	AY	227	ILE	3.1
37	BC	144	GLY	3.1
1	AA	132	C	3.1
1	CA	172	A	3.1
11	AK	54	ARG	3.1
35	BA	1111	A	3.1
35	BA	1797	C	3.1
35	BA	1967	C	3.1
35	DA	330	A	3.1
35	DA	1516	C	3.1
1	CA	1012	U	3.1
35	DA	614(A)	U	3.1
35	DA	1597	A	3.1
35	DA	1810	A	3.1
12	AL	46	LYS	3.1
15	AO	57	LEU	3.1
19	CS	54	GLY	3.1

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Mol	Chain	Res	Type	RSRZ
35	DA	2460	U	3.1
58	BZ	64	GLY	3.1
1	AA	1293	G	3.1
1	CA	1074	G	3.1
14	AN	26	ARG	3.1
35	BA	704	G	3.1
35	BA	2642	G	3.1
3	AC	9	GLY	3.1
3	CC	72	LYS	3.1
46	DN	65	LYS	3.1
8	AH	95	VAL	3.1
1	AA	911	U	3.1
1	AA	978	A	3.1
1	AA	1244	C	3.1
1	CA	1159	U	3.1
1	CA	1168	A	3.1
1	CA	1176	A	3.1
1	CA	1420	C	3.1
1	CA	1444	C	3.1
6	CF	47	ARG	3.1
11	CK	119	CYS	3.1
25	B0	54	GLY	3.1
28	B3	41	PRO	3.1
1	CA	1495	U	3.1
35	BA	272(I)	U	3.1
35	BA	2654	A	3.1
35	DA	278	A	3.1
35	DA	2622	C	3.1
39	BE	161	GLY	3.1
44	BK	128	ALA	3.1
1	CA	9	G	3.1
1	CA	145	G	3.1
6	CF	18	GLN	3.1
22	AW	23	G	3.1
35	BA	123	G	3.1
35	BA	1187	G	3.1
35	BA	1215	G	3.1
35	BA	1850	G	3.1
35	BA	2686	G	3.1
42	DH	159	GLU	3.1
49	BQ	62	GLY	3.1
50	BR	118	GLU	3.1

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Mol	Chain	Res	Type	RSRZ
37	BC	222	SER	3.1
50	DR	50	HIS	3.0
6	AF	50	TYR	3.0
15	CO	69	TYR	3.0
1	AA	109	A	3.0
1	AA	1209	C	3.0
1	CA	280	C	3.0
10	AJ	95	GLU	3.0
1	CA	387	U	3.0
1	CA	560	U	3.0
35	BA	485	C	3.0
35	BA	790	C	3.0
24	CY	355	LEU	3.0
35	BA	824	A	3.0
35	BA	1843	C	3.0
35	DA	297	C	3.0
35	DA	311	A	3.0
35	DA	419	C	3.0
35	DA	523	C	3.0
35	DA	889	C	3.0
35	DA	2691	C	3.0
38	BD	113	VAL	3.0
47	DO	14	THR	3.0
55	DW	27	LYS	3.0
57	DY	96	ILE	3.0
5	CE	127	ASN	3.0
24	AY	576	ASP	3.0
58	DZ	28	MET	3.0
1	CA	683	G	3.0
8	AH	67	PRO	3.0
29	B4	48	ARG	3.0
32	B7	12	ARG	3.0
35	BA	654(H)	G	3.0
35	BA	1524	G	3.0
35	DA	217	G	3.0
36	BB	69	G	3.0
58	DZ	159	PRO	3.0
2	AB	142	LEU	3.0
41	DG	50	ALA	3.0
4	CD	102	ASP	3.0
49	DQ	25	ASP	3.0
54	BV	20	LEU	3.0

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Mol	Chain	Res	Type	RSRZ
13	AM	17	VAL	3.0
21	CU	7	ARG	3.0
25	B0	39	ARG	3.0
35	BA	976	C	3.0
35	DA	47	C	3.0
35	DA	108	U	3.0
35	DA	158	U	3.0
35	DA	2249	U	3.0
38	BD	232	PRO	3.0
55	BW	31	GLU	3.0
58	DZ	74	VAL	3.0
1	AA	1191	A	3.0
1	CA	130	A	3.0
5	CE	12	LEU	3.0
35	DA	257	A	3.0
35	DA	1045	A	3.0
35	DA	2591	C	3.0
35	DA	2789	C	3.0
36	BB	38	C	3.0
39	DE	38	THR	3.0
1	AA	1178	G	3.0
22	AV	18	G	3.0
35	BA	326	G	3.0
35	BA	1055	G	3.0
35	BA	1520	G	3.0
35	DA	272(C)	G	3.0
35	DA	1039	G	3.0
35	DA	1813	G	3.0
35	DA	2056	G	3.0
48	BP	94	GLU	3.0
9	CI	78	LYS	3.0
37	DC	107	GLY	3.0
38	DD	212	SER	3.0
46	BN	59	LYS	3.0
46	DN	53	VAL	3.0
8	AH	27	PRO	3.0
13	AM	3	ARG	3.0
16	AP	67	THR	3.0
35	DA	1357	U	3.0
35	DA	2197	U	3.0
37	DC	17	PRO	3.0
1	AA	770	C	3.0

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Mol	Chain	Res	Type	RSRZ
1	AA	1004	A	3.0
1	AA	1460	A	3.0
1	CA	16	A	3.0
1	CA	745	C	3.0
9	CI	19	LEU	3.0
15	CO	70	LEU	3.0
22	CV	16	C	3.0
35	BA	1501	C	3.0
35	DA	507	A	3.0
35	DA	654(K)	C	3.0
35	DA	1409	C	3.0
36	BB	64	C	3.0
36	DB	58	A	3.0
38	BD	229	VAL	3.0
49	DQ	12	GLN	3.0
2	AB	21	ARG	3.0
7	CG	65	ALA	3.0
7	CG	149	ARG	3.0
11	AK	73	MET	3.0
15	AO	37	ASN	3.0
16	AP	47	ASP	3.0
38	DD	57	GLY	3.0
42	DH	101	ARG	3.0
1	CA	666	G	3.0
35	BA	2149	G	3.0
35	DA	654(C)	G	3.0
35	DA	892	G	3.0
35	DA	1051	G	3.0
35	DA	1168	G	3.0
1	CA	921	U	3.0
11	AK	39	PRO	3.0
15	AO	38	ARG	3.0
24	AY	116	PRO	3.0
24	CY	113	GLY	3.0
29	D4	52	THR	3.0
35	BA	25	U	3.0
35	DA	1923	U	3.0
38	BD	198	ASN	3.0
39	BE	99	GLY	3.0
1	AA	614	A	3.0
1	CA	701	C	3.0
1	CA	1019	C	3.0

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Mol	Chain	Res	Type	RSRZ
35	BA	1261	C	3.0
35	BA	1830	C	3.0
35	BA	2478	A	3.0
35	BA	2768	C	3.0
35	DA	834	C	3.0
50	BR	34	ILE	3.0
55	DW	69	LEU	3.0
4	CD	169	LYS	3.0
24	AY	67	ALA	3.0
38	DD	140	THR	3.0
50	BR	32	GLY	3.0
52	BT	60	THR	3.0
39	DE	159	HIS	3.0
55	BW	99	ARG	3.0
1	AA	1030(A)	G	3.0
1	CA	68	G	3.0
25	D0	27	GLU	3.0
26	B1	3	LYS	3.0
35	BA	552	G	3.0
35	BA	2640	G	3.0
35	DA	2413	G	3.0
35	DA	2415	G	3.0
1	CA	244	U	3.0
1	CA	1000	U	3.0
35	BA	2615	U	3.0
35	BA	2786	U	3.0
35	DA	1061	U	3.0
50	BR	76	VAL	3.0
7	AG	115	ARG	3.0
13	CM	28	ALA	3.0
22	AW	73	A	3.0
22	CW	13	C	3.0
35	BA	603	A	3.0
35	BA	1166	C	3.0
35	DA	722	A	3.0
35	DA	2503	A	3.0
35	DA	2632	A	3.0
36	BB	31	C	3.0
42	BH	65	HIS	3.0
3	CC	142	MET	3.0
7	CG	110	GLN	3.0
24	AY	358	MET	3.0

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Mol	Chain	Res	Type	RSRZ
58	DZ	178	GLU	3.0
37	BC	207	GLY	3.0
24	AY	626	ALA	3.0
24	CY	221	ALA	3.0
31	D6	16	CYS	3.0
37	BC	183	PRO	3.0
37	DC	116	ALA	3.0
49	BQ	114	ALA	3.0
24	AY	644	ARG	3.0
42	BH	67	LEU	3.0
42	DH	130	ARG	3.0
57	DY	97	ARG	3.0
1	CA	255	G	3.0
1	CA	1154	G	3.0
13	AM	69	GLU	3.0
16	AP	43	LYS	3.0
35	BA	1279	G	3.0
35	BA	2505	G	3.0
35	DA	712	G	3.0
35	DA	1816	G	3.0
35	DA	2414	G	3.0
10	CJ	89	ASP	3.0
25	B0	40	GLN	3.0
30	D5	7	PRO	3.0
35	DA	1188	U	3.0
35	DA	2605	U	3.0
42	BH	123	PHE	3.0
55	DW	32	ALA	3.0
1	AA	676	A	3.0
1	CA	458	C	3.0
1	CA	1496	C	3.0
11	CK	129	SER	3.0
22	CW	69	C	3.0
35	BA	2117	A	3.0
35	DA	445	C	3.0
35	DA	857	C	3.0
35	DA	1032	A	3.0
35	DA	1970	A	3.0
44	DK	42	ASN	3.0
51	DS	52	SER	3.0
24	AY	658	ASP	3.0
24	CY	93	GLU	3.0

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Mol	Chain	Res	Type	RSRZ
24	CY	551	GLN	3.0
24	CY	569	ASP	3.0
46	DN	3	THR	3.0
14	CN	41	ARG	3.0
33	B8	23	VAL	3.0
39	DE	16	ARG	3.0
3	CC	10	PHE	3.0
22	AW	48	U	3.0
35	DA	125	G	3.0
35	DA	261	G	3.0
35	DA	496	G	3.0
35	DA	1329	U	3.0
35	DA	1805	U	3.0
35	DA	2308	G	3.0
38	BD	66	ASP	3.0
39	BE	179	GLU	3.0
49	BQ	135	ASP	3.0
2	AB	204	ASN	3.0
24	AY	18	ALA	3.0
58	DZ	164	ALA	3.0
2	AB	66	GLY	3.0
1	AA	1016	A	3.0
1	CA	163	C	3.0
1	CA	1018	C	3.0
29	D4	55	ARG	3.0
40	BF	162	LEU	3.0
11	AK	67	ASP	3.0
35	BA	611	C	3.0
35	BA	2081	C	3.0
35	DA	487	C	3.0
35	DA	612	C	3.0
35	DA	1570	A	3.0
35	DA	2558	C	3.0
9	AI	58	HIS	3.0
13	AM	8	GLU	3.0
47	BO	75	SER	3.0
52	DT	124	ASP	3.0
17	AQ	26	GLN	3.0
21	CU	22	ARG	3.0
40	DF	125	LEU	3.0
58	BZ	155	LEU	3.0
10	AJ	99	LYS	3.0

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Mol	Chain	Res	Type	RSRZ
38	BD	21	PHE	3.0
50	DR	9	LYS	3.0
1	CA	189(H)	G	3.0
1	CA	350	G	3.0
1	CA	626	U	3.0
1	CA	1511	G	3.0
4	AD	62	GLN	3.0
4	AD	195	ALA	3.0
35	BA	387	U	3.0
35	BA	1294	U	3.0
35	BA	2049	G	3.0
35	DA	121	G	3.0
47	BO	88	ASN	3.0
46	DN	133	GLN	3.0
58	BZ	110	GLY	3.0
17	AQ	15	MET	3.0
48	BP	130	PHE	3.0
52	BT	129	ARG	3.0
1	AA	1357	A	3.0
1	CA	461	A	3.0
35	BA	806	C	3.0
35	BA	2855	C	3.0
35	DA	363(F)	A	3.0
35	DA	603	A	3.0
35	DA	1449	A	3.0
35	DA	1694	C	3.0
11	AK	128	ALA	3.0
24	CY	501	THR	3.0
30	D5	48	GLU	3.0
3	CC	43	LEU	3.0
11	AK	99	GLN	3.0
41	DG	173	LEU	3.0
8	CH	1	MET	3.0
16	CP	35	LYS	3.0
42	BH	133	VAL	3.0
35	BA	1323	U	3.0
35	BA	2726	U	3.0
35	BA	2849	U	3.0
35	DA	2796	U	3.0
8	CH	94	TYR	3.0
12	AL	71	PRO	3.0
35	BA	1831	G	3.0

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Mol	Chain	Res	Type	RSRZ
35	BA	2391	G	3.0
35	DA	51	G	3.0
35	DA	95	G	3.0
35	DA	329	G	3.0
35	DA	738	G	3.0
35	DA	932	G	3.0
35	DA	1635	G	3.0
37	BC	87	ALA	3.0
38	DD	153	ALA	3.0
49	DQ	49	ALA	3.0
13	CM	99	ARG	3.0
24	CY	683	VAL	3.0
51	DS	56	LEU	3.0
57	BY	51	VAL	3.0
1	AA	726	C	3.0
1	AA	1298	C	3.0
1	CA	1413	A	3.0
35	BA	1900	A	3.0
35	BA	2316	C	3.0
35	DA	234	C	3.0
35	DA	502	A	3.0
35	DA	653	A	3.0
35	DA	2507	C	3.0
2	AB	152	PHE	3.0
5	AE	132	ALA	3.0
3	CC	110	ASN	2.9
9	CI	113	LYS	2.9
16	CP	71	ARG	2.9
38	BD	203	ASN	2.9
1	AA	813	U	2.9
3	AC	134	ILE	2.9
10	CJ	6	ILE	2.9
13	CM	115	LYS	2.9
22	CW	18	U	2.9
27	B2	2	LYS	2.9
33	B8	11	LYS	2.9
37	DC	14	LYS	2.9
39	DE	194	GLY	2.9
48	DP	102	ARG	2.9
35	BA	2357	U	2.9
55	BW	64	MET	2.9
1	AA	1508	G	2.9

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Mol	Chain	Res	Type	RSRZ
35	BA	219	G	2.9
35	BA	1642	G	2.9
35	BA	2867	G	2.9
35	DA	205	G	2.9
35	DA	323	G	2.9
35	DA	333	G	2.9
35	DA	430	G	2.9
35	DA	1374	G	2.9
35	DA	2289	G	2.9
35	DA	2664	G	2.9
6	CF	57	GLN	2.9
48	BP	115	LEU	2.9
29	D4	19	GLY	2.9
1	AA	372	C	2.9
1	AA	624	C	2.9
1	AA	1030	C	2.9
1	AA	1114	C	2.9
6	AF	101	ALA	2.9
22	AV	65	C	2.9
22	CV	23	C	2.9
35	BA	192	C	2.9
35	BA	1445	A	2.9
35	BA	1604	C	2.9
35	BA	1644	C	2.9
35	DA	148	C	2.9
35	DA	184	C	2.9
35	DA	192	C	2.9
35	DA	195	A	2.9
35	DA	664	C	2.9
35	DA	1218	C	2.9
35	DA	2292	C	2.9
35	DA	2395	C	2.9
36	DB	38	C	2.9
6	CF	13	ASN	2.9
37	DC	176	VAL	2.9
47	BO	61	VAL	2.9
52	BT	70	VAL	2.9
33	D8	63	PRO	2.9
3	AC	158	GLY	2.9
24	CY	673	PHE	2.9
26	D1	84	GLY	2.9
48	BP	119	GLU	2.9

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Mol	Chain	Res	Type	RSRZ
26	B1	92	LYS	2.9
34	B9	36	GLN	2.9
1	AA	498	U	2.9
1	CA	1414	U	2.9
35	DA	464	U	2.9
55	DW	97	LYS	2.9
1	AA	666	G	2.9
1	CA	954	G	2.9
13	CM	8	GLU	2.9
24	CY	552	SER	2.9
35	BA	1151	G	2.9
35	BA	1163	G	2.9
35	DA	240	G	2.9
35	DA	711	G	2.9
35	DA	1888	G	2.9
35	DA	2458	G	2.9
36	BB	115	G	2.9
40	DF	94	PRO	2.9
49	BQ	91	GLU	2.9
1	AA	92	C	2.9
1	AA	1383	C	2.9
3	CC	135	LYS	2.9
24	CY	107	VAL	2.9
47	DO	107	ARG	2.9
24	CY	353	ALA	2.9
35	BA	802	A	2.9
35	BA	1504	C	2.9
35	BA	2335	A	2.9
35	DA	1587	A	2.9
36	DB	13	A	2.9
3	CC	62	ASP	2.9
5	CE	44	GLY	2.9
37	DC	221	PRO	2.9
56	DX	47	PHE	2.9
2	CB	174	VAL	2.9
8	AH	127	LEU	2.9
24	AY	264	LEU	2.9
1	AA	835	U	2.9
3	CC	134	ILE	2.9
22	AW	34	U	2.9
7	CG	117	ALA	2.9
31	B6	20	ASN	2.9

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Mol	Chain	Res	Type	RSRZ
37	DC	226	ASN	2.9
44	BK	42	ASN	2.9
46	BN	61	ARG	2.9
52	DT	5	ALA	2.9
41	DG	122	PRO	2.9
1	AA	1241	G	2.9
1	CA	189(G)	G	2.9
22	CV	26	G	2.9
30	B5	59	GLU	2.9
35	BA	1426	G	2.9
35	DA	212	G	2.9
35	DA	743	G	2.9
35	DA	2160	G	2.9
8	AH	102	ARG	2.9
38	DD	176	ARG	2.9
53	DU	112	ARG	2.9
1	AA	1217	C	2.9
1	CA	508	C	2.9
7	CG	15	ASP	2.9
22	AV	51	C	2.9
35	DA	1365	A	2.9
35	DA	1399	C	2.9
36	BB	25	A	2.9
55	DW	44	ALA	2.9
37	BC	4	HIS	2.9
18	AR	69	THR	2.9
35	BA	930	U	2.9
1	AA	633	G	2.9
1	AA	1021	G	2.9
1	AA	1087	G	2.9
1	AA	1283	G	2.9
1	CA	77	G	2.9
1	CA	1520	G	2.9
3	AC	164	ARG	2.9
22	CW	15	G	2.9
33	B8	36	LYS	2.9
35	DA	132	G	2.9
35	DA	356	G	2.9
44	BK	56	GLU	2.9
1	AA	959	A	2.9
1	CA	924	C	2.9
1	CA	1228	C	2.9

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Mol	Chain	Res	Type	RSRZ
1	CA	1267	C	2.9
1	CA	1383	C	2.9
35	BA	277	C	2.9
35	BA	654(R)	C	2.9
35	BA	685	A	2.9
35	BA	2632	A	2.9
35	DA	689	A	2.9
35	DA	1972	A	2.9
3	CC	95	THR	2.9
18	CR	70	ILE	2.9
24	CY	31	ARG	2.9
35	DA	1590	U	2.9
35	DA	1991	U	2.9
35	DA	2132	U	2.9
44	DK	39	LYS	2.9
50	BR	72	ASP	2.9
24	CY	271	LEU	2.9
37	BC	172	ILE	2.9
54	BV	64	HIS	2.9
1	CA	66	G	2.9
31	B6	35	GLU	2.9
34	B9	33	LYS	2.9
35	BA	171	G	2.9
35	BA	1619	G	2.9
35	BA	2495	G	2.9
35	DA	630	G	2.9
35	DA	2282	G	2.9
35	DA	2375	G	2.9
35	DA	2454	G	2.9
53	DU	21	ALA	2.9
1	AA	1400	C	2.9
1	CA	1146	A	2.9
6	AF	89	MET	2.9
6	CF	50	TYR	2.9
35	BA	1788	C	2.9
35	DA	262	A	2.9
35	DA	1712	C	2.9
35	DA	2453	A	2.9
24	CY	116	PRO	2.9
35	BA	2554	U	2.9
35	DA	524	U	2.9
35	DA	1709	U	2.9

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Mol	Chain	Res	Type	RSRZ
49	BQ	55	VAL	2.9
52	BT	7	ILE	2.9
58	BZ	174	VAL	2.9
12	CL	119	LYS	2.9
24	AY	336	THR	2.9
53	DU	52	ARG	2.9
57	BY	83	THR	2.9
15	AO	7	GLU	2.9
7	CG	47	CYS	2.9
10	AJ	91	PRO	2.9
16	AP	60	LEU	2.9
40	DF	86	GLY	2.9
52	DT	114	LEU	2.9
1	AA	1142	G	2.9
1	CA	166	G	2.9
3	AC	189	ALA	2.9
3	CC	147	LYS	2.9
35	BA	2736	G	2.9
38	BD	184	LYS	2.9
40	BF	73	ALA	2.9
52	DT	85	LYS	2.9
1	AA	1424	C	2.9
1	CA	840	C	2.9
35	DA	84	A	2.9
35	DA	130	C	2.9
35	DA	183	C	2.9
2	CB	121	LEU	2.9
39	BE	194	GLY	2.9
35	DA	2506	U	2.9
39	BE	81	ILE	2.9
48	BP	8	PRO	2.9
1	CA	835	U	2.9
3	AC	10	PHE	2.9
16	AP	22	THR	2.9
9	CI	20	ARG	2.9
13	CM	120	LYS	2.9
3	CC	130	VAL	2.9
27	B2	51	ARG	2.9
9	AI	69	GLY	2.9
40	BF	159	GLY	2.9
18	AR	56	THR	2.9
24	AY	76	ASP	2.9

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Mol	Chain	Res	Type	RSRZ
41	DG	140	ILE	2.9
56	BX	69	TYR	2.9
1	AA	567	G	2.9
1	AA	1324	A	2.9
1	CA	101	A	2.9
1	CA	260	G	2.9
1	CA	978	A	2.9
1	CA	1283	G	2.9
35	BA	2148	G	2.9
35	DA	1740	G	2.9
35	DA	1850	G	2.9
35	DA	2250	G	2.9
40	BF	38	ARG	2.9
42	DH	49	VAL	2.9
1	CA	1335	C	2.9
5	CE	7	GLU	2.9
44	DK	15	GLY	2.9
47	DO	54	GLU	2.9
49	DQ	122	GLY	2.9
54	BV	86	GLY	2.9
1	CA	686	U	2.9
4	CD	62	GLN	2.9
12	AL	49	ASN	2.9
35	BA	1320	C	2.9
35	DA	1625	C	2.9
37	BC	139	PRO	2.9
7	AG	21	VAL	2.9
19	AS	78	ARG	2.9
20	AT	86	ARG	2.9
40	DF	91	GLY	2.9
56	BX	40	LYS	2.9
2	AB	43	ASP	2.9
5	AE	71	LEU	2.9
24	AY	445	GLU	2.9
31	D6	26	ASN	2.9
58	BZ	119	GLU	2.9
24	AY	620	VAL	2.9
3	CC	179	ARG	2.9
24	AY	363	ARG	2.9
55	DW	33	ARG	2.9
1	AA	392	G	2.9
1	AA	855	G	2.9

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Mol	Chain	Res	Type	RSRZ
1	AA	1027	C	2.9
1	AA	1048	G	2.9
1	AA	1316	G	2.9
1	CA	64	G	2.9
1	AA	1090	U	2.9
1	CA	1128	C	2.9
35	BA	116	C	2.9
35	BA	801	G	2.9
35	BA	1643	G	2.9
35	BA	1857	G	2.9
35	BA	2475	C	2.9
35	DA	1107	G	2.9
35	DA	2352	A	2.9
9	AI	64	THR	2.9
17	AQ	57	VAL	2.9
24	AY	238	THR	2.9
35	BA	626	U	2.9
35	BA	2506	U	2.9
35	DA	1438	U	2.9
37	DC	202	PRO	2.9
3	AC	61	ALA	2.9
8	AH	21	LYS	2.9
24	AY	462	ILE	2.9
40	BF	33	LEU	2.9
53	BU	72	HIS	2.9
52	BT	4	GLY	2.9
39	BE	164	ARG	2.8
41	DG	100	TRP	2.8
1	AA	347	G	2.8
1	AA	363	A	2.8
1	AA	707	C	2.8
1	AA	1009	G	2.8
1	CA	31	G	2.8
1	CA	592	G	2.8
1	CA	724	G	2.8
2	CB	84	GLU	2.8
8	AH	89	PRO	2.8
22	AV	29	G	2.8
22	CW	5	G	2.8
35	BA	629	G	2.8
35	BA	823	G	2.8
35	BA	923	C	2.8

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Mol	Chain	Res	Type	RSRZ
35	BA	1633	G	2.8
35	BA	2226	C	2.8
35	BA	2529	G	2.8
35	DA	106	C	2.8
35	DA	395	U	2.8
35	DA	1089	G	2.8
35	DA	1094	U	2.8
35	DA	1161	C	2.8
35	DA	1194	A	2.8
35	DA	1370	C	2.8
35	DA	1506	C	2.8
35	DA	1763	G	2.8
35	DA	1833	U	2.8
35	DA	2011	U	2.8
35	DA	2286	A	2.8
35	DA	2298	A	2.8
35	DA	2379	G	2.8
4	AD	143	GLY	2.8
37	BC	29	LEU	2.8
50	DR	37	THR	2.8
51	DS	50	SER	2.8
38	BD	159	ALA	2.8
6	CF	86	ARG	2.8
5	CE	22	GLY	2.8
17	CQ	39	SER	2.8
9	CI	48	GLU	2.8
48	BP	43	GLY	2.8
51	DS	54	LEU	2.8
31	B6	26	ASN	2.8
25	D0	81	VAL	2.8
2	AB	64	ARG	2.8
4	AD	14	ARG	2.8
10	CJ	46	ARG	2.8
1	AA	1219	U	2.8
1	AA	1426	C	2.8
1	CA	25	C	2.8
1	CA	154	C	2.8
1	CA	192	U	2.8
1	CA	200	G	2.8
1	CA	1218	C	2.8
1	CA	1407	C	2.8
1	CA	1432	G	2.8

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Mol	Chain	Res	Type	RSRZ
2	CB	125	PRO	2.8
3	CC	207	VAL	2.8
5	CE	155	GLU	2.8
6	CF	7	ASN	2.8
22	CV	3	C	2.8
35	BA	86	C	2.8
35	BA	706	A	2.8
35	BA	863	A	2.8
35	BA	1202	C	2.8
35	BA	1603	A	2.8
35	DA	351	G	2.8
35	DA	476	G	2.8
35	DA	1093	G	2.8
35	DA	1187	G	2.8
35	DA	2315	G	2.8
35	DA	2478	A	2.8
35	DA	2636	U	2.8
35	DA	2706	G	2.8
36	DB	19	G	2.8
42	BH	40	GLU	2.8
44	DK	35	MET	2.8
48	BP	26	GLY	2.8
35	DA	1251	C	2.8
35	DA	1290	C	2.8
35	DA	1751	C	2.8
24	AY	561	VAL	2.8
38	DD	186	HIS	2.8
2	AB	193	ASP	2.8
49	DQ	72	LYS	2.8
52	DT	39	ARG	2.8
57	DY	10	GLY	2.8
4	AD	83	SER	2.8
24	CY	23	ALA	2.8
47	BO	84	ALA	2.8
56	BX	29	TRP	2.8
3	AC	72	LYS	2.8
10	CJ	3	LYS	2.8
7	AG	143	ARG	2.8
24	AY	557	GLY	2.8
49	BQ	16	ARG	2.8
50	BR	96	ARG	2.8
14	CN	44	LEU	2.8

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Mol	Chain	Res	Type	RSRZ
32	D7	25	PRO	2.8
35	BA	810	U	2.8
35	DA	358	U	2.8
35	DA	2113	U	2.8
1	AA	272	C	2.8
1	AA	1187	G	2.8
1	CA	331	G	2.8
35	BA	726	G	2.8
35	BA	880	G	2.8
35	BA	1266	G	2.8
35	BA	1432	C	2.8
35	BA	1487	G	2.8
35	BA	1661	G	2.8
35	BA	2848	G	2.8
35	DA	271(Q)	G	2.8
35	DA	1227	G	2.8
35	DA	1334	G	2.8
35	DA	1413	G	2.8
35	DA	2374	C	2.8
35	DA	2480	C	2.8
36	DB	111	G	2.8
38	BD	249	PRO	2.8
39	DE	98	PRO	2.8
38	DD	122	ASP	2.8
41	BG	174	GLU	2.8
5	CE	47	LYS	2.8
6	AF	11	ASN	2.8
24	CY	553	GLY	2.8
26	D1	13	ILE	2.8
32	D7	36	GLN	2.8
58	DZ	26	GLY	2.8
24	CY	182	ARG	2.8
53	DU	53	ARG	2.8
12	AL	6	THR	2.8
16	AP	15	PRO	2.8
2	AB	198	ASP	2.8
11	CK	61	ALA	2.8
37	DC	40	GLU	2.8
37	DC	188	ASP	2.8
38	DD	200	ASP	2.8
40	BF	179	GLU	2.8
50	DR	89	ASP	2.8

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Mol	Chain	Res	Type	RSRZ
19	AS	45	VAL	2.8
40	DF	8	GLN	2.8
52	BT	28	VAL	2.8
53	BU	69	CYS	2.8
1	AA	414	A	2.8
1	AA	659	U	2.8
1	CA	582	U	2.8
1	CA	663	A	2.8
10	CJ	15	THR	2.8
24	CY	9	LEU	2.8
48	BP	99	LEU	2.8
1	AA	254	G	2.8
1	CA	377	G	2.8
1	CA	1206	G	2.8
1	CA	1387	G	2.8
24	CY	578	SER	2.8
35	BA	537	C	2.8
35	BA	825	C	2.8
35	DA	542	C	2.8
35	DA	658	C	2.8
35	DA	710	G	2.8
35	DA	1245	G	2.8
35	DA	2032	G	2.8
35	DA	2101	G	2.8
36	BB	76	G	2.8
37	BC	46	ALA	2.8
9	AI	35	GLU	2.8
34	D9	29	ASN	2.8
38	DD	129	ASN	2.8
48	BP	137	LYS	2.8
57	DY	44	ILE	2.8
58	DZ	96	VAL	2.8
2	AB	178	ARG	2.8
40	DF	164	ARG	2.8
13	AM	43	THR	2.8
4	CD	149	ALA	2.8
20	AT	106	ALA	2.8
49	BQ	50	ALA	2.8
49	BQ	95	ALA	2.8
5	CE	57	LYS	2.8
24	CY	591	LYS	2.8
58	BZ	138	GLU	2.8

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Mol	Chain	Res	Type	RSRZ
1	AA	789	U	2.8
1	CA	81	U	2.8
1	CA	173	U	2.8
26	B1	52	ARG	2.8
35	BA	2609	U	2.8
1	AA	394	G	2.8
1	AA	425	G	2.8
1	AA	948	C	2.8
13	CM	74	VAL	2.8
22	CV	48	C	2.8
22	CV	72	A	2.8
35	BA	1958	C	2.8
35	DA	1246	A	2.8
35	DA	2412	A	2.8
36	BB	26	A	2.8
44	BK	92	GLY	2.8
35	DA	123	G	2.8
35	DA	654(Q)	C	2.8
35	DA	769	G	2.8
35	DA	1232	G	2.8
35	DA	1555	G	2.8
35	DA	1584	C	2.8
35	DA	2094	G	2.8
10	CJ	42	THR	2.8
38	DD	116	GLN	2.8
12	CL	104	VAL	2.8
38	DD	268	ARG	2.8
40	BF	156	LEU	2.8
47	BO	91	LEU	2.8
41	BG	125	PHE	2.8
52	DT	130	ALA	2.8
53	DU	47	TYR	2.8
9	CI	22	GLY	2.8
19	CS	53	ASN	2.8
35	BA	525	U	2.8
35	BA	554	U	2.8
35	BA	1130	U	2.8
35	BA	2398	U	2.8
35	BA	2585	U	2.8
35	DA	1576	U	2.8
35	DA	2689	U	2.8
46	DN	99	LEU	2.8

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Mol	Chain	Res	Type	RSRZ
1	AA	1375	A	2.8
1	CA	860	A	2.8
1	CA	1254	C	2.8
3	AC	60	ALA	2.8
19	AS	52	TYR	2.8
35	BA	679	C	2.8
35	BA	1853	A	2.8
35	DA	432	A	2.8
35	DA	1001	A	2.8
35	DA	1076	C	2.8
36	DB	46	A	2.8
48	BP	150	ALA	2.8
58	BZ	9	TYR	2.8
1	AA	1419	G	2.8
1	CA	450	G	2.8
1	CA	529	G	2.8
35	BA	44	G	2.8
35	BA	418	G	2.8
35	DA	363	G	2.8
35	DA	1719	G	2.8
35	DA	2330	G	2.8
9	CI	24	GLY	2.8
9	CI	51	ARG	2.8
24	CY	475	ASN	2.8
11	CK	104	GLN	2.8
39	DE	49	LEU	2.8
57	DY	90	LEU	2.8
46	BN	106	MET	2.8
24	AY	321	TYR	2.8
24	CY	175	SER	2.8
1	AA	839	U	2.8
25	D0	54	GLY	2.8
2	AB	118	LEU	2.8
35	BA	2243	U	2.8
4	CD	3	ARG	2.8
22	CV	28	C	2.8
24	CY	671	MET	2.8
35	BA	1353	A	2.8
35	BA	1363	C	2.8
35	BA	2461	C	2.8
35	BA	2626	C	2.8
35	DA	65	C	2.8

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Mol	Chain	Res	Type	RSRZ
35	DA	272(G)	C	2.8
35	DA	288	C	2.8
35	DA	1495	A	2.8
36	BB	94	C	2.8
1	CA	876	G	2.8
35	BA	1613	G	2.8
35	DA	30	G	2.8
35	DA	315	G	2.8
35	DA	2894	G	2.8
5	AE	139	LEU	2.8
29	B4	27	THR	2.8
41	DG	176	LEU	2.8
24	CY	641	GLN	2.8
55	DW	48	ALA	2.8
55	DW	55	ALA	2.8
3	CC	199	LYS	2.8
28	B3	52	HIS	2.8
29	B4	28	LYS	2.8
40	DF	129	PHE	2.8
15	AO	68	ARG	2.8
20	AT	71	THR	2.8
24	CY	91	THR	2.8
35	BA	557	U	2.8
24	CY	225	GLU	2.8
24	CY	657	THR	2.8
35	BA	1768	U	2.8
35	DA	1249	U	2.8
37	BC	195	ARG	2.8
41	BG	61	ALA	2.8
22	CW	11	A	2.8
35	BA	1669	A	2.8
35	DA	2199	A	2.8
1	CA	18	C	2.8
35	DA	462	C	2.8
35	DA	1179	C	2.8
35	DA	2317	C	2.8
36	BB	65	C	2.8
39	DE	71	GLY	2.8
40	DF	13	SER	2.8
40	DF	87	GLY	2.8
1	CA	567	G	2.8
17	CQ	3	LYS	2.8

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Mol	Chain	Res	Type	RSRZ
37	BC	31	LYS	2.8
54	BV	19	LYS	2.8
24	AY	299	VAL	2.8
24	AY	657	THR	2.8
3	CC	200	ALA	2.8
37	DC	90	ALA	2.8
40	DF	146	ALA	2.8
46	DN	88	GLU	2.8
50	DR	47	PHE	2.8
56	BX	91	ALA	2.8
8	CH	82	HIS	2.8
11	CK	36	ASP	2.8
33	B8	25	MET	2.8
7	CG	28	ASN	2.8
16	AP	74	LEU	2.8
18	AR	48	GLY	2.8
25	B0	14	ARG	2.8
29	B4	41	PRO	2.8
39	DE	22	PRO	2.8
1	AA	767	A	2.8
35	BA	689	A	2.8
35	BA	2305	A	2.8
35	BA	2721	A	2.8
1	AA	169	C	2.8
1	AA	1321	C	2.8
22	AW	33	C	2.8
1	CA	761	G	2.8
3	AC	201	TYR	2.8
24	AY	298	VAL	2.8
35	BA	1079	C	2.8
35	DA	1116	C	2.8
36	BB	30	C	2.8
36	DB	37	C	2.8
47	DO	70	LYS	2.8
35	BA	1998	G	2.8
35	DA	354	G	2.8
35	DA	2239	G	2.8
50	BR	21	TYR	2.8
32	D7	35	ARG	2.8
53	BU	41	ALA	2.8
54	DV	42	GLY	2.8
1	AA	1135	U	2.7

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Mol	Chain	Res	Type	RSRZ
1	CA	13	U	2.7
1	CA	1380	U	2.7
4	CD	85	LYS	2.7
24	CY	623	ASP	2.7
3	CC	12	LEU	2.7
4	AD	171	GLY	2.7
6	AF	30	LEU	2.7
13	CM	75	ALA	2.7
24	AY	77	HIS	2.7
38	DD	123	ALA	2.7
55	DW	51	LEU	2.7
39	BE	16	ARG	2.7
1	AA	974	A	2.7
24	AY	140	ASP	2.7
24	CY	576	ASP	2.7
35	DA	52	A	2.7
1	CA	999	C	2.7
3	AC	27	LYS	2.7
20	CT	14	LYS	2.7
35	BA	1118	C	2.7
35	BA	2136	C	2.7
35	BA	2196	C	2.7
35	BA	2356	C	2.7
35	DA	271(C)	C	2.7
35	DA	1075	C	2.7
35	DA	1967	C	2.7
39	DE	109	LYS	2.7
40	DF	79	GLY	2.7
1	AA	285	G	2.7
1	AA	606	G	2.7
1	AA	1521	G	2.7
1	CA	1405	G	2.7
3	AC	113	ALA	2.7
8	AH	7	ALA	2.7
35	BA	1346	G	2.7
35	BA	2337	G	2.7
35	DA	946	G	2.7
35	DA	1561	G	2.7
35	DA	2708	G	2.7
36	DB	113	G	2.7
16	CP	19	ILE	2.7
24	CY	481	VAL	2.7

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Mol	Chain	Res	Type	RSRZ
37	BC	9	ARG	2.7
41	DG	70	VAL	2.7
51	BS	106	ARG	2.7
55	BW	37	ARG	2.7
34	B9	27	CYS	2.7
57	BY	7	VAL	2.7
35	DA	90	U	2.7
35	DA	2068	U	2.7
36	BB	77	U	2.7
36	BB	112	U	2.7
39	BE	105	THR	2.7
7	AG	128	ALA	2.7
24	AY	413	ILE	2.7
1	AA	273	A	2.7
1	AA	965	A	2.7
24	AY	454	MET	2.7
27	D2	52	ASP	2.7
40	BF	27	GLU	2.7
46	DN	101	HIS	2.7
49	BQ	66	ILE	2.7
35	BA	2778	A	2.7
1	AA	1218	C	2.7
1	CA	1230	C	2.7
7	AG	96	GLN	2.7
12	CL	123	LYS	2.7
35	BA	737	C	2.7
35	BA	2480	C	2.7
35	DA	1675	C	2.7
35	DA	2314	C	2.7
12	CL	43	VAL	2.7
40	DF	80	ALA	2.7
1	CA	22	G	2.7
2	AB	191	ASP	2.7
5	CE	80	ILE	2.7
35	BA	1371	G	2.7
35	BA	1647	G	2.7
35	BA	2235	G	2.7
35	BA	2550	G	2.7
35	DA	1369	G	2.7
35	DA	2276	G	2.7
35	DA	2490	G	2.7
35	DA	2805	G	2.7

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Mol	Chain	Res	Type	RSRZ
36	DB	87	G	2.7
38	BD	244	ARG	2.7
41	DG	25	TYR	2.7
52	DT	52	ILE	2.7
1	CA	62	U	2.7
18	CR	84	LYS	2.7
19	AS	63	THR	2.7
27	D2	72	ALA	2.7
28	B3	26	LEU	2.7
48	DP	123	LEU	2.7
3	CC	172	ARG	2.7
10	CJ	51	ARG	2.7
21	AU	14	TRP	2.7
24	AY	113	GLY	2.7
31	B6	39	TYR	2.7
1	AA	270	A	2.7
1	AA	1014	A	2.7
1	CA	814	A	2.7
5	CE	10	MET	2.7
35	BA	1132	A	2.7
35	DA	1073	A	2.7
38	BD	146	GLU	2.7
41	BG	45	GLU	2.7
20	AT	92	LEU	2.7
21	AU	20	LYS	2.7
33	D8	32	LEU	2.7
35	BA	1611	C	2.7
35	DA	69	C	2.7
35	DA	271(B)	C	2.7
35	DA	414	C	2.7
35	DA	1631	C	2.7
35	DA	2103	C	2.7
35	DA	2427	C	2.7
39	BE	54	GLN	2.7
40	BF	137	LYS	2.7
3	CC	152	ILE	2.7
1	AA	265	G	2.7
1	AA	755	G	2.7
1	AA	1274	G	2.7
1	CA	1032	G	2.7
4	CD	13	ARG	2.7
24	AY	391	GLY	2.7

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Mol	Chain	Res	Type	RSRZ
35	DA	2524	G	2.7
38	DD	36	PRO	2.7
44	DK	57	ILE	2.7
35	BA	1950	G	2.7
35	BA	2844	G	2.7
35	DA	179	G	2.7
35	DA	1117	G	2.7
35	DA	1216	G	2.7
35	DA	1361	G	2.7
35	DA	1856	G	2.7
35	DA	2024	G	2.7
35	BA	1739	U	2.7
35	DA	2245	U	2.7
39	DE	102	VAL	2.7
3	CC	52	LEU	2.7
24	CY	500	GLN	2.7
41	BG	82	LEU	2.7
37	DC	150	ILE	2.7
39	BE	50	GLY	2.7
44	DK	62	ASP	2.7
9	AI	128	ARG	2.7
28	B3	29	ARG	2.7
58	DZ	25	PRO	2.7
1	CA	1015	A	2.7
11	AK	38	ASN	2.7
24	CY	433	GLU	2.7
35	BA	218	A	2.7
35	BA	653	A	2.7
35	DA	216	A	2.7
35	DA	347	A	2.7
35	DA	761	A	2.7
35	DA	2459	A	2.7
1	AA	154	C	2.7
1	AA	832	C	2.7
1	CA	578	C	2.7
36	BB	88	C	2.7
37	BC	150	ILE	2.7
1	AA	286	G	2.7
1	AA	667	G	2.7
1	CA	254	G	2.7
1	CA	1090	U	2.7
35	BA	252	G	2.7

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Mol	Chain	Res	Type	RSRZ
35	BA	842	G	2.7
35	BA	1390	U	2.7
35	DA	36	G	2.7
35	DA	408	G	2.7
35	DA	427	U	2.7
35	DA	845	G	2.7
35	DA	869	G	2.7
35	DA	2525	G	2.7
36	DB	106	G	2.7
46	BN	35	ARG	2.7
24	AY	663	THR	2.7
6	AF	58	GLY	2.7
39	DE	123	ALA	2.7
48	BP	116	GLY	2.7
53	DU	84	LYS	2.7
13	CM	39	ILE	2.7
29	B4	10	VAL	2.7
32	D7	22	MET	2.7
55	BW	7	ALA	2.7
58	BZ	151	HIS	2.7
4	CD	131	ARG	2.7
18	CR	74	ARG	2.7
37	DC	74	ARG	2.7
1	AA	535	A	2.7
35	BA	320	A	2.7
35	DA	957	A	2.7
35	DA	1050	A	2.7
1	CA	19	C	2.7
3	CC	75	VAL	2.7
15	AO	85	LEU	2.7
28	B3	42	ALA	2.7
35	BA	1327	C	2.7
35	DA	435	C	2.7
35	DA	1304	C	2.7
35	DA	2108	C	2.7
35	DA	2527	C	2.7
35	DA	2704	C	2.7
36	DB	32	C	2.7
36	DB	42	C	2.7
37	BC	83	LYS	2.7
37	BC	171	ALA	2.7
37	BC	205	ALA	2.7

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Mol	Chain	Res	Type	RSRZ
37	DC	98	GLU	2.7
38	BD	53	PHE	2.7
40	BF	19	GLU	2.7
53	DU	105	VAL	2.7
11	CK	62	GLN	2.7
54	DV	2	PHE	2.7
1	CA	447	G	2.7
1	CA	682	G	2.7
1	CA	939	G	2.7
1	CA	1003	G	2.7
35	BA	293	U	2.7
35	BA	434	U	2.7
35	BA	1921	G	2.7
35	BA	1989	G	2.7
35	BA	2543	G	2.7
35	BA	2677	G	2.7
35	DA	747	U	2.7
24	AY	375	GLY	2.7
7	CG	147	ALA	2.7
8	AH	126	LYS	2.7
9	AI	75	ASP	2.7
12	CL	74	GLY	2.7
35	DA	1191	G	2.7
39	BE	185	LYS	2.7
46	BN	107	LEU	2.7
53	BU	5	LYS	2.7
17	AQ	60	ILE	2.7
53	DU	46	ALA	2.7
4	CD	7	PRO	2.7
7	CG	41	ARG	2.7
29	D4	20	ASN	2.7
47	BO	93	PRO	2.7
1	AA	949	A	2.7
1	AA	1179	A	2.7
24	AY	522	GLY	2.7
1	AA	936	C	2.7
2	AB	58	ILE	2.7
4	CD	97	LEU	2.7
24	CY	452	SER	2.7
27	B2	53	LEU	2.7
31	B6	45	LYS	2.7
35	BA	300	A	2.7

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Mol	Chain	Res	Type	RSRZ
35	BA	2309	A	2.7
35	DA	1596	A	2.7
35	DA	313	C	2.7
35	DA	634	C	2.7
35	DA	1611	C	2.7
35	DA	2111	C	2.7
38	BD	82	ILE	2.7
48	BP	25	SER	2.7
52	DT	126	ALA	2.7
4	CD	115	ARG	2.7
12	CL	62	SER	2.7
25	D0	77	ARG	2.7
35	BA	1329	U	2.7
35	BA	1951	U	2.7
35	DA	1326	U	2.7
38	DD	173	VAL	2.7
1	AA	761	G	2.7
1	CA	69	G	2.7
1	CA	917	G	2.7
1	CA	1034	G	2.7
12	CL	124	LYS	2.7
35	BA	1828	G	2.7
35	BA	2623	G	2.7
35	BA	2643	G	2.7
15	AO	46	HIS	2.7
24	AY	84	THR	2.7
49	BQ	56	ARG	2.7
1	AA	753	A	2.7
9	CI	52	ALA	2.7
12	CL	107	ALA	2.7
35	BA	528	A	2.7
35	BA	789	A	2.7
35	DA	917	A	2.7
35	DA	2030	A	2.7
40	DF	49	ALA	2.7
1	AA	1129	C	2.7
35	BA	1230	C	2.7
35	DA	62	C	2.7
1	AA	801	U	2.7
1	CA	571	U	2.7
3	CC	123	GLN	2.7
25	D0	83	PRO	2.7

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Mol	Chain	Res	Type	RSRZ
35	BA	1066	U	2.7
37	BC	2	PRO	2.7
38	DD	246	PRO	2.7
47	BO	97	ARG	2.7
1	CA	167	G	2.7
5	CE	45	PHE	2.7
16	AP	11	SER	2.7
35	DA	508	G	2.7
35	DA	1444	G	2.7
38	DD	31	LYS	2.7
51	DS	27	SER	2.7
1	CA	495	A	2.7
46	DN	15	LEU	2.7
49	DQ	77	LYS	2.7
35	DA	1852	C	2.7
22	CW	21	U	2.7
24	CY	337	SER	2.7
35	DA	511	U	2.7
7	AG	26	PHE	2.7
47	DO	63	VAL	2.7
54	BV	83	ARG	2.7
1	CA	951	G	2.7
7	CG	104	LEU	2.7
19	AS	54	GLY	2.7
35	BA	2012	G	2.7
35	DA	1968	G	2.7
35	DA	2489	G	2.7
39	BE	88	GLY	2.7
54	DV	39	LEU	2.7
24	CY	164	MET	2.7
2	AB	129	GLU	2.7
4	AD	80	GLU	2.7
5	CE	128	PRO	2.7
10	AJ	76	ASN	2.7
16	CP	39	TYR	2.7
46	BN	79	PRO	2.7
16	AP	8	ARG	2.7
1	AA	116	A	2.7
1	AA	374	A	2.7
1	CA	298	A	2.7
35	BA	752	A	2.7
38	DD	158	ALA	2.7

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Mol	Chain	Res	Type	RSRZ
51	DS	26	LEU	2.7
1	CA	936	C	2.6
1	CA	1121	U	2.6
1	CA	1406	U	2.6
13	AM	47	ASP	2.6
35	BA	202	U	2.6
35	BA	1463	C	2.6
35	BA	2832	U	2.6
35	DA	1257	C	2.6
35	DA	1323	U	2.6
35	DA	1827	C	2.6
35	DA	2785	C	2.6
41	DG	146	TYR	2.6
56	DX	32	PRO	2.6
15	CO	30	ALA	2.6
16	CP	72	ARG	2.6
38	BD	70	TRP	2.6
39	BE	145	LYS	2.6
52	BT	83	ILE	2.6
2	CB	230	VAL	2.6
35	BA	882	G	2.6
35	BA	2732	G	2.6
35	DA	518	G	2.6
8	AH	68	ARG	2.6
48	BP	74	GLU	2.6
49	DQ	133	ARG	2.6
1	AA	140	A	2.6
8	AH	32	LYS	2.6
15	CO	60	VAL	2.6
23	CX	14	A	2.6
35	BA	1321	A	2.6
35	BA	2765	A	2.6
35	DA	13	A	2.6
35	DA	1392	A	2.6
35	DA	1528(A)	A	2.6
1	AA	932	C	2.6
1	AA	1444	C	2.6
1	CA	223	U	2.6
35	BA	9	U	2.6
35	BA	1774	C	2.6
35	BA	2197	U	2.6
49	DQ	94	VAL	2.6

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Mol	Chain	Res	Type	RSRZ
35	DA	1636	C	2.6
2	CB	63	MET	2.6
3	AC	85	ARG	2.6
13	CM	69	GLU	2.6
2	CB	198	ASP	2.6
7	AG	35	LYS	2.6
8	AH	133	LEU	2.6
30	B5	6	VAL	2.6
38	DD	253	GLN	2.6
49	DQ	130	LYS	2.6
53	DU	79	PHE	2.6
54	DV	78	LYS	2.6
35	BA	2831	G	2.6
35	DA	940	G	2.6
35	DA	2429	G	2.6
35	DA	2717	G	2.6
10	CJ	100	THR	2.6
5	AE	68	GLU	2.6
24	AY	352	VAL	2.6
24	CY	507	TYR	2.6
25	B0	2	ALA	2.6
28	B3	1	MET	2.6
39	BE	44	TYR	2.6
49	BQ	101	ARG	2.6
1	AA	935	A	2.6
1	CA	374	A	2.6
1	CA	573	A	2.6
1	CA	1105	A	2.6
1	AA	269	C	2.6
1	AA	1430	C	2.6
1	CA	1382	C	2.6
1	CA	1425	U	2.6
1	CA	1512	U	2.6
35	BA	155	U	2.6
35	DA	127	A	2.6
35	BA	2202	C	2.6
35	BA	2689	U	2.6
35	DA	200	U	2.6
35	DA	454	A	2.6
35	DA	606	U	2.6
35	DA	644	A	2.6
35	DA	1322	A	2.6

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Mol	Chain	Res	Type	RSRZ
24	CY	84	THR	2.6
17	CQ	10	VAL	2.6
24	CY	217	VAL	2.6
49	DQ	80	GLU	2.6
55	DW	35	ILE	2.6
58	DZ	109	ALA	2.6
4	CD	151	LYS	2.6
4	AD	51	PRO	2.6
16	CP	22	THR	2.6
22	AW	53	G	2.6
35	DA	301	G	2.6
35	DA	500	G	2.6
35	DA	1047	G	2.6
35	DA	2383	G	2.6
35	DA	2428	G	2.6
36	BB	75	G	2.6
48	BP	63	PRO	2.6
2	CB	226	ARG	2.6
9	AI	120	ARG	2.6
58	DZ	112	ARG	2.6
1	AA	164	U	2.6
1	AA	1418	A	2.6
1	CA	32	A	2.6
1	CA	253	U	2.6
1	CA	343	U	2.6
1	CA	740	U	2.6
3	AC	185	GLY	2.6
22	AV	55	U	2.6
22	AV	57	A	2.6
24	AY	183	MET	2.6
24	AY	550	MET	2.6
27	B2	8	LYS	2.6
28	D3	33	GLN	2.6
35	BA	2208	A	2.6
48	BP	73	GLY	2.6
49	BQ	76	LYS	2.6
54	DV	85	LYS	2.6
35	DA	694	U	2.6
1	CA	980	C	2.6
15	CO	19	PRO	2.6
35	BA	231	C	2.6
35	DA	2855	C	2.6

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Mol	Chain	Res	Type	RSRZ
39	BE	59	VAL	2.6
2	AB	20	GLU	2.6
14	CN	5	ALA	2.6
12	AL	63	GLY	2.6
14	CN	12	ARG	2.6
38	DD	69	ARG	2.6
42	DH	77	LYS	2.6
50	DR	86	ARG	2.6
42	DH	79	VAL	2.6
44	BK	41	PHE	2.6
1	AA	505	G	2.6
3	AC	182	ILE	2.6
16	CP	56	ALA	2.6
35	DA	952	G	2.6
35	DA	1466	G	2.6
58	BZ	137	ILE	2.6
40	DF	196	LEU	2.6
42	BH	135	GLY	2.6
57	DY	25	GLY	2.6
1	AA	669	U	2.6
1	AA	946	A	2.6
1	CA	640	A	2.6
7	AG	44	TYR	2.6
22	CV	76	A	2.6
24	CY	610	VAL	2.6
57	DY	31	LEU	2.6
35	BA	1971	A	2.6
35	BA	2286	A	2.6
35	DA	828	U	2.6
35	DA	1379	A	2.6
35	DA	2654	A	2.6
1	AA	1038	C	2.6
1	CA	1043	C	2.6
2	AB	67	THR	2.6
4	AD	70	ILE	2.6
4	CD	142	PRO	2.6
12	CL	102	ARG	2.6
24	AY	109	ASP	2.6
24	CY	589	ALA	2.6
35	DA	151	C	2.6
35	DA	238	C	2.6
35	DA	580	C	2.6

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Mol	Chain	Res	Type	RSRZ
35	DA	678	C	2.6
47	DO	114	ILE	2.6
4	CD	52	SER	2.6
24	AY	624	LEU	2.6
8	AH	135	CYS	2.6
1	AA	93	G	2.6
1	CA	27	G	2.6
1	CA	97	G	2.6
22	AV	42	G	2.6
35	BA	1184	G	2.6
35	BA	2349	G	2.6
35	DA	399	G	2.6
35	DA	406	G	2.6
35	DA	654(O)	G	2.6
35	DA	1344	G	2.6
37	DC	64	SER	2.6
39	BE	65	GLY	2.6
52	DT	121	ILE	2.6
3	CC	178	LEU	2.6
24	AY	78	ARG	2.6
24	AY	106	VAL	2.6
24	AY	366	VAL	2.6
32	B7	21	ARG	2.6
39	DE	33	VAL	2.6
11	CK	22	HIS	2.6
22	CW	28	U	2.6
24	AY	184	LYS	2.6
40	DF	160	ASN	2.6
1	CA	161	A	2.6
33	D8	6	THR	2.6
35	BA	654(U)	A	2.6
35	BA	1956	U	2.6
35	BA	1995	U	2.6
35	DA	434	U	2.6
35	DA	2134	A	2.6
1	CA	1060	C	2.6
4	AD	204	ILE	2.6
35	BA	279	C	2.6
35	DA	971	C	2.6
35	DA	1428	C	2.6
41	DG	57	ALA	2.6
24	CY	431	LEU	2.6

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Mol	Chain	Res	Type	RSRZ
38	DD	274	ARG	2.6
55	BW	18	ARG	2.6
41	DG	45	GLU	2.6
52	BT	12	SER	2.6
9	AI	119	ALA	2.6
11	CK	34	ASP	2.6
13	CM	10	PRO	2.6
24	CY	407	PRO	2.6
52	DT	123	GLN	2.6
58	BZ	134	PRO	2.6
1	AA	710	G	2.6
1	AA	1088	G	2.6
5	CE	63	ARG	2.6
35	BA	654(S)	G	2.6
35	BA	1823	G	2.6
35	BA	2323	G	2.6
35	DA	948	G	2.6
35	DA	972	G	2.6
35	DA	2677	G	2.6
36	BB	9	G	2.6
31	B6	38	LYS	2.6
38	BD	134	ARG	2.6
38	DD	63	ARG	2.6
52	DT	9	LEU	2.6
1	CA	1499	A	2.6
3	CC	74	GLY	2.6
9	CI	72	GLY	2.6
12	CL	67	THR	2.6
22	AV	58	A	2.6
35	DA	270	A	2.6
35	DA	2750	A	2.6
56	DX	45	THR	2.6
7	CG	40	ALA	2.6
8	CH	74	PRO	2.6
10	CJ	53	PRO	2.6
35	BA	541	C	2.6
35	BA	1446	C	2.6
35	DA	2626	C	2.6
9	CI	116	LYS	2.6
37	DC	135	ARG	2.6
39	BE	79	ARG	2.6
50	BR	79	LEU	2.6

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Mol	Chain	Res	Type	RSRZ
15	AO	33	THR	2.6
38	DD	40	THR	2.6
4	CD	172	PRO	2.6
11	AK	19	ALA	2.6
12	AL	45	PRO	2.6
44	BK	32	ALA	2.6
48	BP	42	SER	2.6
1	AA	299	G	2.6
1	AA	365	U	2.6
9	AI	127	LYS	2.6
23	AX	19	U	2.6
35	BA	379	G	2.6
35	BA	701	G	2.6
35	BA	868	U	2.6
35	BA	1488	G	2.6
35	BA	1593	G	2.6
35	BA	2070	G	2.6
35	DA	1713	U	2.6
36	DB	44	G	2.6
41	DG	182	LYS	2.6
44	DK	2	LYS	2.6
48	DP	43	GLY	2.6
1	CA	141	A	2.6
1	CA	1204	A	2.6
35	DA	1884	A	2.6
1	AA	454	C	2.6
1	CA	237	C	2.6
35	DA	2350	C	2.6
37	DC	4	HIS	2.6
50	DR	53	HIS	2.6
4	CD	139	ARG	2.6
6	CF	10	LEU	2.6
10	CJ	52	GLY	2.6
40	BF	32	LEU	2.6
50	BR	98	LEU	2.6
54	DV	5	VAL	2.6
32	B7	39	ARG	2.6
34	D9	8	LYS	2.6
40	BF	117	ARG	2.6
41	DG	93	THR	2.6
9	CI	76	ALA	2.6
24	AY	365	GLU	2.6

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Mol	Chain	Res	Type	RSRZ
5	CE	78	HIS	2.6
9	CI	39	GLY	2.6
24	AY	510	VAL	2.6
5	AE	12	LEU	2.6
26	D1	46	LEU	2.6
28	B3	23	LEU	2.6
35	DA	2280	G	2.6
35	DA	2505	G	2.6
38	DD	111	LEU	2.6
40	BF	97	TYR	2.6
33	B8	15	LYS	2.6
35	BA	298	G	2.6
35	DA	188	G	2.6
35	DA	656	G	2.6
35	DA	1169	G	2.6
35	DA	1443	G	2.6
8	CH	118	VAL	2.6
22	CV	73	A	2.6
35	BA	2758	A	2.6
35	BA	2850	A	2.6
35	DA	774	A	2.6
35	DA	959	A	2.6
35	DA	1932	A	2.6
35	DA	2287	A	2.6
39	DE	141	ILE	2.6
44	BK	48	MET	2.6
47	BO	2	ILE	2.6
1	AA	188	C	2.6
1	CA	930	C	2.6
20	CT	16	HIS	2.6
35	BA	580	C	2.6
35	BA	1974	C	2.6
35	BA	2416	C	2.6
35	DA	268	C	2.6
35	DA	923	C	2.6
35	DA	2771	C	2.6
3	AC	156	ARG	2.6
8	AH	18	ARG	2.6
24	CY	247	ARG	2.6
31	D6	37	ARG	2.6
38	BD	262	ARG	2.6
38	DD	20	ASP	2.6

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Mol	Chain	Res	Type	RSRZ
24	CY	276	VAL	2.6
3	CC	185	GLY	2.6
55	BW	112	GLY	2.6
1	AA	950	U	2.6
1	CA	516	U	2.6
34	B9	29	ASN	2.6
38	BD	126	GLN	2.6
1	AA	39	G	2.5
1	AA	399	G	2.5
1	AA	742	G	2.5
1	AA	1197	G	2.5
1	CA	310	G	2.5
5	CE	121	LYS	2.5
11	CK	71	LYS	2.5
24	AY	472	VAL	2.5
24	CY	354	ARG	2.5
38	BD	4	LYS	2.5
38	DD	143	HIS	2.6
35	BA	1626	G	2.5
35	DA	1541	G	2.5
42	DH	50	VAL	2.5
1	CA	472	A	2.5
15	CO	59	MET	2.5
24	AY	220	ALA	2.5
35	DA	1084	A	2.5
39	DE	110	GLY	2.5
44	BK	46	ALA	2.5
46	BN	40	PRO	2.5
58	BZ	15	PRO	2.5
1	AA	395	C	2.5
1	CA	67	C	2.5
3	CC	56	ASP	2.5
35	BA	1599	C	2.5
35	DA	1646	C	2.5
35	DA	2853	C	2.5
48	DP	40	SER	2.5
56	DX	6	ASP	2.5
58	DZ	157	LEU	2.5
12	CL	54	LYS	2.5
24	AY	160	ARG	2.5
28	B3	35	ARG	2.5
37	BC	200	HIS	2.5

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Mol	Chain	Res	Type	RSRZ
38	DD	183	ARG	2.5
56	DX	35	THR	2.5
3	CC	41	GLY	2.5
50	BR	41	ALA	2.5
17	AQ	86	GLU	2.5
20	AT	24	LEU	2.5
24	AY	198	GLU	2.5
24	AY	403	GLU	2.5
24	CY	278	ASP	2.5
35	BA	524	U	2.5
35	BA	1394	U	2.5
35	BA	1940	U	2.5
11	AK	70	LYS	2.5
58	BZ	90	VAL	2.5
1	AA	1032	G	2.5
35	BA	997	G	2.5
35	BA	1036	G	2.5
35	BA	1219	G	2.5
35	DA	1223	G	2.5
36	DB	110	G	2.5
54	BV	45	THR	2.5
57	BY	73	ARG	2.5
1	AA	344	A	2.5
1	CA	452	A	2.5
22	CV	43	A	2.5
35	BA	2170	A	2.5
35	DA	1632	A	2.5
35	DA	2336	A	2.5
36	BB	29	A	2.5
36	DB	53	A	2.5
38	BD	15	PHE	2.5
1	AA	745	C	2.5
1	CA	1028	C	2.5
9	CI	126	SER	2.5
23	CX	21	C	2.5
24	AY	401	SER	2.5
35	BA	203	C	2.5
35	BA	1072	C	2.5
35	BA	2742	C	2.5
35	DA	1230	C	2.5
42	DH	71	LEU	2.5
47	DO	45	GLU	2.5

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Mol	Chain	Res	Type	RSRZ
49	DQ	1	MET	2.5
24	AY	40	HIS	2.5
24	CY	343	ASN	2.5
25	D0	41	ARG	2.5
32	D7	27	GLY	2.5
40	BF	178	PRO	2.5
40	DF	30	PRO	2.5
40	DF	167	ALA	2.5
44	BK	124	ALA	2.5
46	BN	128	HIS	2.5
51	BS	95	HIS	2.5
57	BY	6	HIS	2.5
1	AA	955	U	2.5
1	AA	1364	U	2.5
22	CW	37	U	2.5
28	B3	38	GLU	2.5
35	BA	2150	U	2.5
35	BA	2537	U	2.5
35	DA	239	U	2.5
36	DB	8	U	2.5
36	DB	41	U	2.5
39	BE	120	TRP	2.5
37	DC	204	GLY	2.5
38	BD	157	ARG	2.5
53	BU	16	LYS	2.5
1	CA	767	A	2.5
1	CA	941	G	2.5
1	CA	1505	G	2.5
35	BA	520	G	2.5
35	BA	854	G	2.5
35	BA	862	G	2.5
35	DA	879	G	2.5
35	DA	1393	A	2.5
35	DA	1690	A	2.5
35	DA	2570	G	2.5
38	BD	231	HIS	2.5
40	DF	75	HIS	2.5
2	AB	206	ASP	2.5
24	CY	172	ASP	2.5
1	AA	1363	C	2.5
1	CA	235	C	2.5
1	CA	456	C	2.5

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Mol	Chain	Res	Type	RSRZ
22	AV	16	C	2.5
35	BA	2025	C	2.5
35	DA	509	C	2.5
14	CN	52	GLN	2.5
17	AQ	72	ARG	2.5
35	BA	2865	U	2.5
3	CC	191	THR	2.5
21	CU	13	ILE	2.5
51	DS	48	LEU	2.5
38	BD	3	VAL	2.5
40	DF	104	LYS	2.5
50	DR	35	THR	2.5
12	AL	128	ALA	2.5
52	DT	13	ARG	2.5
1	CA	642	A	2.5
1	CA	1428	A	2.5
22	CW	77	A	2.5
24	AY	16	GLY	2.5
26	B1	28	GLY	2.5
35	BA	1653	G	2.5
35	DA	1015	G	2.5
35	DA	1828	G	2.5
35	DA	1950	G	2.5
35	DA	2057	A	2.5
36	BB	83	G	2.5
57	DY	99	CYS	2.5
1	AA	708	C	2.5
1	AA	848	C	2.5
2	AB	117	GLU	2.5
4	CD	34	GLU	2.5
7	CG	50	ILE	2.5
10	CJ	82	ILE	2.5
13	AM	67	GLU	2.5
17	AQ	14	LYS	2.5
24	AY	402	ILE	2.5
58	BZ	102	LEU	2.5
35	BA	1996	C	2.5
35	BA	2108	C	2.5
35	DA	2501	C	2.5
48	BP	124	LYS	2.5
55	DW	41	LYS	2.5
2	AB	240	GLN	2.5

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Mol	Chain	Res	Type	RSRZ
12	CL	78	GLN	2.5
20	AT	42	GLN	2.5
1	AA	605	U	2.5
1	CA	17	U	2.5
5	AE	35	GLY	2.5
17	CQ	30	PRO	2.5
9	AI	81	ILE	2.5
12	CL	80	HIS	2.5
20	AT	13	LEU	2.5
22	CW	8	U	2.5
24	CY	328	ILE	2.5
30	D5	60	VAL	2.5
35	BA	566	U	2.5
35	BA	614	U	2.5
35	BA	999	U	2.5
35	DA	2296	U	2.5
41	DG	181	ARG	2.5
48	BP	149	GLU	2.5
55	BW	100	THR	2.5
6	AF	47	ARG	2.5
13	CM	64	TRP	2.5
25	B0	9	SER	2.5
38	BD	41	GLY	2.5
1	AA	348	G	2.5
1	AA	500	G	2.5
1	CA	247	G	2.5
35	BA	651	G	2.5
35	BA	1063	G	2.5
35	BA	1570	A	2.5
35	BA	1759	A	2.5
35	BA	2287	A	2.5
35	DA	215	G	2.5
35	DA	1037	G	2.5
35	DA	2857	G	2.5
42	DH	26	VAL	2.5
57	BY	66	PRO	2.5
1	CA	240	C	2.5
1	CA	834	C	2.5
24	AY	115	GLU	2.5
24	CY	400	GLU	2.5
35	BA	335	C	2.5
35	BA	1879	C	2.5

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Mol	Chain	Res	Type	RSRZ
35	BA	2142	C	2.5
35	DA	2248	C	2.5
37	BC	206	LYS	2.5
40	BF	95	ARG	2.5
46	BN	19	GLU	2.5
57	BY	78	ALA	2.5
58	BZ	44	PHE	2.5
1	CA	65	U	2.5
24	CY	352	VAL	2.5
24	CY	260	LEU	2.5
35	BA	773	U	2.5
35	BA	1234	U	2.5
35	DA	193	U	2.5
35	DA	1273	U	2.5
35	DA	1503	U	2.5
50	DR	94	TYR	2.5
58	DZ	70	LEU	2.5
2	CB	117	GLU	2.5
9	AI	118	LYS	2.5
52	DT	8	LYS	2.5
44	DK	81	ALA	2.5
7	AG	106	GLN	2.5
1	CA	183	G	2.5
1	CA	825	G	2.5
12	CL	31	PRO	2.5
15	AO	66	LEU	2.5
24	AY	105	ILE	2.5
26	B1	94	LEU	2.5
35	BA	16	G	2.5
35	BA	56	A	2.5
35	BA	2322	A	2.5
35	BA	2740	A	2.5
35	DA	2376	A	2.5
35	DA	2861	G	2.5
58	DZ	153	SER	2.5
38	DD	75	ILE	2.5
58	DZ	53	ILE	2.5
1	CA	379	C	2.5
1	CA	1029	C	2.5
3	AC	53	ALA	2.5
4	AD	132	ARG	2.5
19	CS	64	GLU	2.5

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Mol	Chain	Res	Type	RSRZ
22	CV	39	C	2.5
24	AY	592	GLU	2.5
35	DA	378	C	2.5
50	DR	33	ARG	2.5
1	CA	133	U	2.5
1	CA	891	U	2.5
4	AD	94	LEU	2.5
27	B2	56	GLN	2.5
35	BA	464	U	2.5
35	BA	2687	U	2.5
35	DA	773	U	2.5
35	DA	1130	U	2.5
41	DG	101	ILE	2.5
51	BS	12	PHE	2.5
37	BC	226	ASN	2.5
30	B5	40	LYS	2.5
37	DC	79	ALA	2.5
1	CA	171	A	2.5
1	CA	431	A	2.5
1	CA	558	G	2.5
1	CA	1064	G	2.5
1	CA	1170	A	2.5
1	CA	1191	A	2.5
3	CC	102	ASN	2.5
3	CC	112	SER	2.5
24	AY	39	ILE	2.5
24	CY	82	ILE	2.5
7	CG	18	TYR	2.5
12	AL	52	LEU	2.5
28	D3	47	VAL	2.5
35	BA	745	G	2.5
35	BA	1959	G	2.5
35	DA	424	G	2.5
35	DA	438	G	2.5
35	DA	521	G	2.5
35	DA	522	G	2.5
35	DA	1645	G	2.5
35	DA	2153	G	2.5
35	DA	2451	A	2.5
35	DA	2603	G	2.5
39	DE	172	VAL	2.5
47	DO	50	GLY	2.5

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Mol	Chain	Res	Type	RSRZ
50	DR	75	LEU	2.5
55	BW	12	ILE	2.5
57	BY	59	GLY	2.5
1	AA	783	C	2.5
1	CA	224	C	2.5
1	CA	826	C	2.5
1	CA	1317	C	2.5
24	CY	416	LYS	2.5
35	BA	652	C	2.5
35	BA	998	C	2.5
35	BA	2355	C	2.5
35	DA	302	C	2.5
35	DA	731	C	2.5
35	DA	1880	C	2.5
57	BY	47	LYS	2.5
1	CA	1095	U	2.5
35	BA	380	U	2.5
35	BA	1931	U	2.5
52	BT	128	GLU	2.5
37	DC	59	VAL	2.5
48	BP	122	PRO	2.5
56	BX	57	LEU	2.5
58	BZ	25	PRO	2.5
4	CD	82	ALA	2.5
17	CQ	14	LYS	2.5
24	CY	259	PHE	2.5
53	DU	35	ALA	2.5
57	BY	46	LYS	2.5
3	CC	125	GLU	2.5
24	CY	627	ARG	2.5
1	AA	648	A	2.5
1	CA	1067	A	2.5
4	CD	171	GLY	2.5
42	BH	43	VAL	2.5
1	CA	104	G	2.5
1	CA	1160	G	2.5
29	B4	16	CYS	2.5
35	BA	1427	A	2.5
55	DW	23	LEU	2.5
1	AA	1344	C	2.5
27	D2	2	LYS	2.5
35	DA	2299	G	2.5

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Mol	Chain	Res	Type	RSRZ
36	BB	72	G	2.5
35	BA	908	C	2.5
35	BA	2474	C	2.5
35	BA	2496	C	2.5
35	DA	2635	C	2.5
38	DD	102	LYS	2.5
44	DK	44	ALA	2.5
57	BY	34	LYS	2.5
4	AD	8	VAL	2.5
16	CP	83	GLU	2.5
34	D9	17	ILE	2.5
34	D9	37	GLY	2.5
35	BA	1023	U	2.5
35	DA	2398	U	2.5
13	CM	83	ASP	2.5
24	AY	173	THR	2.5
44	BK	66	THR	2.5
55	DW	80	PRO	2.5
24	CY	313	ALA	2.5
46	DN	132	ALA	2.5
6	CF	44	GLY	2.5
15	AO	20	GLY	2.5
24	AY	667	GLY	2.5
32	D7	44	PRO	2.5
35	BA	910	A	2.5
35	DA	222	A	2.5
58	BZ	5	LEU	2.5
35	DA	1649	G	2.5
35	DA	2100	G	2.5
48	DP	39	LYS	2.5
1	AA	280	C	2.5
7	AG	32	ARG	2.5
22	CW	41	C	2.5
35	BA	1133	U	2.5
35	BA	1362	C	2.5
35	BA	2683	C	2.5
35	DA	431	U	2.5
40	BF	39	TRP	2.5
12	AL	100	ILE	2.5
2	CB	101	MET	2.4
10	CJ	61	GLU	2.4
30	D5	42	PRO	2.4

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Mol	Chain	Res	Type	RSRZ
55	BW	35	ILE	2.5
41	BG	152	LEU	2.4
57	BY	77	PRO	2.4
2	AB	85	ALA	2.4
3	AC	150	LYS	2.4
37	DC	136	GLY	2.4
54	DV	3	ALA	2.4
24	CY	340	TYR	2.4
37	BC	38	PHE	2.4
3	CC	76	VAL	2.4
6	CF	14	LEU	2.4
37	BC	98	GLU	2.4
52	DT	46	GLU	2.4
58	BZ	83	PRO	2.4
15	AO	51	HIS	2.4
30	D5	22	HIS	2.4
16	AP	56	ALA	2.4
31	B6	13	CYS	2.4
35	DA	1749	A	2.4
35	DA	1809	A	2.4
1	CA	275	G	2.4
1	CA	758	G	2.4
1	CA	821	G	2.4
1	CA	1341	U	2.4
1	CA	1358	U	2.4
1	CA	1474	G	2.4
35	BA	271(T)	C	2.4
35	BA	1022	G	2.4
35	BA	1106	G	2.4
35	BA	1173	G	2.4
35	BA	1949	G	2.4
35	BA	1955	U	2.4
35	BA	2282	G	2.4
35	BA	2536	G	2.4
35	BA	2682	U	2.4
35	BA	2745	C	2.4
35	DA	484	C	2.4
35	DA	576	U	2.4
35	DA	936	C	2.4
35	DA	1082	U	2.4
35	DA	1330	C	2.4
35	DA	1781	C	2.4

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Mol	Chain	Res	Type	RSRZ
35	DA	2203	U	2.4
35	DA	2381	C	2.4
35	DA	2791	C	2.4
36	DB	118	G	2.4
9	AI	102	LEU	2.4
29	D4	44	THR	2.4
38	DD	29	PRO	2.4
13	CM	85	GLY	2.4
24	AY	103	GLY	2.4
24	CY	213	HIS	2.4
27	B2	48	HIS	2.4
30	B5	10	LYS	2.4
40	BF	199	TRP	2.4
3	CC	23	TYR	2.4
8	CH	105	ARG	2.4
13	AM	16	ASP	2.4
18	AR	54	ARG	2.4
20	AT	84	LEU	2.4
28	D3	46	ASN	2.4
17	CQ	49	GLU	2.4
35	DA	256	A	2.4
36	BB	59	A	2.4
1	AA	444	C	2.4
1	AA	1036	G	2.4
1	CA	404	U	2.4
1	CA	549	C	2.4
1	CA	743	U	2.4
35	BA	124	G	2.4
7	CG	6	ARG	2.4
16	AP	14	ASN	2.4
35	BA	654(P)	C	2.4
35	BA	730	C	2.4
35	BA	979	G	2.4
35	BA	1005	C	2.4
35	BA	2294	C	2.4
35	DA	342	G	2.4
35	DA	537	C	2.4
35	DA	1299	G	2.4
35	DA	1453	U	2.4
35	DA	2416	C	2.4
58	DZ	87	ASP	2.4
24	CY	603	GLU	2.4

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Mol	Chain	Res	Type	RSRZ
38	BD	252	TRP	2.4
7	AG	84	ASN	2.4
48	BP	87	ASP	2.4
49	BQ	83	MET	2.4
8	AH	115	SER	2.4
9	AI	20	ARG	2.4
9	AI	125	TYR	2.4
15	CO	79	ARG	2.4
46	DN	20	GLY	2.4
55	BW	90	ARG	2.4
58	BZ	16	SER	2.4
1	CA	325	A	2.4
32	B7	30	VAL	2.4
35	DA	2712(A)	A	2.4
35	DA	2882	A	2.4
42	BH	131	VAL	2.4
9	CI	3	GLN	2.4
24	CY	435	ASP	2.4
1	AA	224	C	2.4
1	AA	1520	G	2.4
29	B4	40	HIS	2.4
35	BA	1015	G	2.4
35	BA	2779	U	2.4
8	CH	69	ARG	2.4
12	CL	113	ARG	2.4
35	BA	234	C	2.4
35	DA	372	G	2.4
35	DA	725	G	2.4
35	DA	2063	C	2.4
16	AP	68	ASP	2.4
17	CQ	83	ASP	2.4
32	B7	48	LYS	2.4
57	DY	62	GLU	2.4
20	CT	45	GLN	2.4
20	CT	103	GLY	2.4
24	AY	386	GLY	2.4
5	AE	126	ARG	2.4
6	AF	85	VAL	2.4
16	AP	51	VAL	2.4
24	CY	69	VAL	2.4
49	DQ	119	ARG	2.4
51	DS	95	HIS	2.4

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Mol	Chain	Res	Type	RSRZ
30	D5	28	PRO	2.4
2	CB	77	ALA	2.4
11	CK	122	LYS	2.4
14	AN	46	GLU	2.4
19	CS	28	LYS	2.4
35	BA	887	A	2.4
35	DA	218	A	2.4
40	DF	21	ALA	2.4
41	DG	73	ALA	2.4
50	BR	55	ALA	2.4
1	CA	256	U	2.4
1	CA	723	U	2.4
39	BE	8	LYS	2.4
39	DE	203	LYS	2.4
47	BO	26	LYS	2.4
1	AA	1323	G	2.4
1	AA	1354	C	2.4
1	CA	612	C	2.4
1	CA	730	G	2.4
22	AW	68	C	2.4
22	CW	49	C	2.4
27	B2	68	ARG	2.4
35	BA	1635	G	2.4
35	BA	1930	G	2.4
35	BA	2271	G	2.4
35	BA	2685	G	2.4
35	DA	271(P)	C	2.4
35	DA	2138	C	2.4
8	CH	135	CYS	2.4
26	B1	64	ALA	2.4
49	DQ	107	ALA	2.4
26	B1	33	LYS	2.4
33	B8	59	LYS	2.4
50	BR	49	ASP	2.4
14	CN	33	VAL	2.4
3	CC	30	ARG	2.4
42	BH	64	LEU	2.4
48	DP	38	GLN	2.4
34	B9	32	HIS	2.4
1	AA	1333	A	2.4
12	CL	103	GLY	2.4
1	CA	56	U	2.4

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Mol	Chain	Res	Type	RSRZ
1	CA	920	U	2.4
35	BA	497	A	2.4
35	BA	1242	A	2.4
35	BA	2311	A	2.4
42	BH	48	GLY	2.4
56	DX	19	ALA	2.4
35	DA	2406	U	2.4
1	AA	245	C	2.4
1	AA	1284	C	2.4
1	CA	351	G	2.4
1	CA	668	G	2.4
1	CA	1030	C	2.4
2	AB	57	PHE	2.4
7	AG	99	LEU	2.4
5	AE	78	HIS	2.4
22	CW	71	G	2.4
11	AK	118	GLY	2.4
24	AY	613	PRO	2.4
35	BA	1511	C	2.4
35	BA	1519	G	2.4
35	BA	1568	G	2.4
35	BA	2224	G	2.4
35	BA	2465	C	2.4
35	BA	2558	C	2.4
35	DA	481	G	2.4
35	DA	924	C	2.4
39	BE	78	LEU	2.4
20	AT	44	ALA	2.4
3	AC	48	TYR	2.4
24	CY	510	VAL	2.4
52	BT	15	VAL	2.4
57	BY	93	GLY	2.4
24	CY	403	GLU	2.4
2	AB	183	PRO	2.4
3	CC	49	SER	2.4
10	AJ	12	ASP	2.4
12	CL	50	SER	2.4
56	DX	60	ARG	2.4
1	AA	1468	A	2.4
1	CA	1340	A	2.4
22	CV	27	U	2.4
24	AY	675	HIS	2.4

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Mol	Chain	Res	Type	RSRZ
40	DF	22	ALA	2.4
26	D1	92	LYS	2.4
35	BA	213	A	2.4
35	BA	1392	A	2.4
35	BA	1760	A	2.4
35	BA	1848	A	2.4
35	BA	1876	A	2.4
35	BA	2144	U	2.4
35	DA	905	U	2.4
35	DA	918	A	2.4
35	DA	2504	U	2.4
35	DA	2665	A	2.4
2	AB	37	ASN	2.4
39	BE	57	LYS	2.4
50	BR	26	LYS	2.4
24	AY	345	THR	2.4
24	AY	685	GLU	2.4
40	BF	158	THR	2.4
53	DU	89	GLU	2.4
1	AA	589	C	2.4
1	CA	649	G	2.4
1	CA	711	G	2.4
22	AV	19	G	2.4
24	CY	167	PRO	2.4
24	CY	504	ARG	2.4
35	BA	1414	G	2.4
35	BA	2147	G	2.4
35	DA	541	C	2.4
35	DA	663	G	2.4
35	DA	1209	G	2.4
35	DA	1589	C	2.4
38	BD	213	ARG	2.4
39	DE	93	VAL	2.4
5	AE	145	LYS	2.4
39	BE	129	HIS	2.4
52	DT	2	ASN	2.4
56	DX	55	ASN	2.4
47	DO	10	VAL	2.4
54	DV	34	GLU	2.4
8	CH	40	ALA	2.4
1	AA	977	A	2.4
1	CA	249	U	2.4

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Mol	Chain	Res	Type	RSRZ
1	CA	813	U	2.4
35	BA	1174	A	2.4
35	DA	2565	A	2.4
1	AA	1368	G	2.4
1	CA	132	C	2.4
1	CA	1259	C	2.4
2	AB	155	LEU	2.4
18	AR	46	GLU	2.4
37	DC	110	ASP	2.4
57	BY	85	VAL	2.4
6	CF	76	ALA	2.4
18	CR	64	ARG	2.4
22	CW	54	G	2.4
24	CY	394	ALA	2.4
35	BA	1575	C	2.4
35	BA	2714	G	2.4
35	DA	31	C	2.4
35	DA	1886	C	2.4
35	DA	2417	C	2.4
47	DO	64	ARG	2.4
51	BS	105	ALA	2.4
55	DW	61	ASN	2.4
3	AC	146	ALA	2.4
3	CC	162	GLN	2.4
25	D0	18	ALA	2.4
32	B7	47	ARG	2.4
38	DD	263	ARG	2.4
47	DO	8	LEU	2.4
22	AV	17(A)	U	2.4
35	DA	1406	U	2.4
41	BG	114	ILE	2.4
1	AA	663	A	2.4
1	CA	26	A	2.4
35	DA	1567	A	2.4
36	BB	78	A	2.4
58	BZ	180	VAL	2.4
24	AY	442	THR	2.4
1	CA	283	C	2.4
5	CE	64	ARG	2.4
14	CN	46	GLU	2.4
31	B6	41	PRO	2.4
35	BA	2710	C	2.4

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Mol	Chain	Res	Type	RSRZ
35	DA	393	C	2.4
35	DA	995	C	2.4
35	DA	1430	C	2.4
35	DA	1550	C	2.4
35	DA	2185	C	2.4
42	BH	95	ARG	2.4
1	AA	485	G	2.4
1	AA	1295	G	2.4
10	AJ	36	GLY	2.4
35	BA	1776	G	2.4
35	BA	2024	G	2.4
35	DA	17	G	2.4
35	DA	2083	G	2.4
24	AY	187	THR	2.4
53	DU	16	LYS	2.4
4	CD	60	GLU	2.4
9	AI	2	GLU	2.4
9	CI	55	ALA	2.4
11	CK	35	PRO	2.4
15	AO	77	ARG	2.4
35	DA	269	U	2.4
35	DA	2696	U	2.4
41	BG	95	ARG	2.4
52	DT	86	ILE	2.4
58	BZ	133	ILE	2.4
58	DZ	100	VAL	2.4
9	AI	124	GLN	2.4
26	D1	42	GLN	2.4
40	BF	203	GLN	2.4
1	CA	432	A	2.4
16	CP	52	ASP	2.4
35	BA	621	A	2.4
35	BA	1204	A	2.4
35	DA	483	A	2.4
35	DA	2266	A	2.4
36	BB	66	A	2.4
37	DC	73	VAL	2.3
49	BQ	34	LEU	2.3
1	AA	1098	C	2.3
1	CA	457	C	2.3
4	AD	205	GLU	2.3
22	AV	25	C	2.3

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Mol	Chain	Res	Type	RSRZ
22	AV	66	C	2.3
24	AY	291	GLY	2.3
24	CY	251	ILE	2.3
27	B2	36	ARG	2.3
28	B3	44	ARG	2.3
33	D8	57	ARG	2.3
35	BA	1140	C	2.3
35	BA	1999	C	2.3
35	DA	865	C	2.3
40	DF	72	ARG	2.3
1	AA	1355	G	2.3
1	CA	189	G	2.3
1	CA	476	G	2.3
1	CA	902	G	2.3
20	AT	87	LYS	2.3
24	AY	569	ASP	2.3
24	CY	222	ASP	2.3
35	BA	2759	G	2.3
35	DA	458	G	2.3
35	DA	1601	G	2.3
6	AF	40	VAL	2.3
2	CB	152	PHE	2.3
5	AE	146	ALA	2.3
11	CK	40	ILE	2.3
15	AO	80	ALA	2.3
40	BF	61	GLY	2.3
44	DK	41	PHE	2.3
54	DV	54	GLY	2.3
1	AA	1211	U	2.3
1	CA	5	U	2.3
35	BA	1188	U	2.3
8	CH	32	LYS	2.3
17	CQ	13	ASP	2.3
20	CT	42	GLN	2.3
46	DN	1	MET	2.3
35	BA	699	A	2.3
35	BA	2821	A	2.3
35	DA	118	A	2.3
35	DA	142	A	2.3
35	DA	2328	A	2.3
41	DG	15	VAL	2.3
3	CC	24	ALA	2.3

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Mol	Chain	Res	Type	RSRZ
19	CS	20	LEU	2.3
11	AK	12	ARG	2.3
24	CY	199	ILE	2.3
40	DF	26	ALA	2.3
1	AA	218	C	2.3
1	AA	824	C	2.3
1	AA	866	C	2.3
1	CA	1404	C	2.3
13	CM	35	GLU	2.3
35	DA	2652	C	2.3
35	DA	2742	C	2.3
1	CA	460	G	2.3
5	AE	38	GLN	2.3
10	CJ	57	LYS	2.3
12	CL	28	LYS	2.3
35	BA	220	G	2.3
35	BA	1011	G	2.3
35	BA	2549	G	2.3
36	BB	21	G	2.3
37	BC	109	MET	2.3
38	BD	276	LYS	2.3
51	DS	44	LYS	2.3
2	AB	163	PHE	2.3
2	AB	187	LEU	2.3
8	CH	96	GLY	2.3
1	CA	1196	U	2.3
3	AC	200	ALA	2.3
55	BW	86	LEU	2.3
10	CJ	41	PRO	2.3
4	AD	150	GLU	2.3
10	AJ	34	VAL	2.3
28	D3	6	VAL	2.3
44	DK	116	ASN	2.3
1	CA	648	A	2.3
12	AL	35	GLY	2.3
19	CS	10	PHE	2.3
24	CY	129	LYS	2.3
31	D6	38	LYS	2.3
35	DA	233	A	2.3
35	DA	789	A	2.3
46	DN	109	LYS	2.3
12	CL	93	LEU	2.3

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Mol	Chain	Res	Type	RSRZ
14	CN	2	ALA	2.3
52	DT	83	ILE	2.3
1	CA	137	C	2.3
1	CA	1260	C	2.3
11	CK	12	ARG	2.3
26	B1	38	SER	2.3
26	D1	35	THR	2.3
29	D4	25	TYR	2.3
35	BA	2787	C	2.3
35	DA	1532	C	2.3
44	DK	56	GLU	2.3
49	DQ	48	GLU	2.3
1	CA	475	G	2.3
35	BA	10	G	2.3
35	BA	11	G	2.3
35	BA	94(A)	G	2.3
35	DA	468	G	2.3
35	DA	582	G	2.3
35	DA	768	G	2.3
35	DA	818	G	2.3
35	DA	938	G	2.3
2	CB	222	ILE	2.3
24	AY	178	ILE	2.3
35	BA	200	U	2.3
35	BA	779	U	2.3
38	DD	130	ALA	2.3
39	BE	17	ASP	2.3
24	AY	449	THR	2.3
1	CA	759	A	2.3
1	CA	968	A	2.3
22	CW	39	A	2.3
25	B0	3	HIS	2.3
28	D3	52	HIS	2.3
33	B8	3	LYS	2.3
35	BA	1027	A	2.3
35	DA	428	A	2.3
37	BC	123	ALA	2.3
54	BV	80	GLN	2.3
1	AA	435	C	2.3
1	AA	972	C	2.3
1	AA	1008	C	2.3
3	CC	21	ARG	2.3

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Mol	Chain	Res	Type	RSRZ
12	CL	29	GLY	2.3
12	CL	97	ARG	2.3
37	DC	181	PHE	2.3
39	BE	83	ASP	2.3
35	BA	280	C	2.3
35	BA	486	C	2.3
35	BA	1941	C	2.3
35	BA	2281	C	2.3
36	DB	91	C	2.3
48	DP	142	GLY	2.3
1	CA	416	G	2.3
1	CA	763	G	2.3
4	CD	64	LEU	2.3
20	CT	43	LEU	2.3
1	AA	560	U	2.3
1	AA	982	U	2.3
24	AY	135	PHE	2.3
35	BA	1811	G	2.3
35	DA	1034	G	2.3
40	BF	101	LEU	2.3
46	DN	18	ALA	2.3
47	DO	25	LEU	2.3
35	DA	1065	U	2.3
55	BW	77	ASP	2.3
37	BC	5	GLY	2.3
55	DW	64	MET	2.3
4	AD	139	ARG	2.3
11	CK	87	THR	2.3
13	CM	125	ARG	2.3
53	BU	11	ARG	2.3
58	BZ	114	GLY	2.3
7	CG	136	LYS	2.3
12	AL	124	LYS	2.3
16	CP	67	THR	2.3
26	B1	43	TYR	2.3
10	CJ	59	SER	2.3
17	CQ	93	GLN	2.3
22	CW	44	A	2.3
22	CW	73	A	2.3
33	B8	18	ALA	2.3
35	BA	1618	A	2.3
35	DA	92	A	2.3

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Mol	Chain	Res	Type	RSRZ
35	DA	1812	A	2.3
40	BF	196	LEU	2.3
54	BV	3	ALA	2.3
56	DX	8	ILE	2.3
54	BV	29	PRO	2.3
57	DY	107	ASP	2.3
1	AA	1262	C	2.3
1	CA	1431	C	2.3
4	CD	8	VAL	2.3
24	CY	156	ARG	2.3
35	DA	1196	C	2.3
39	DE	37	ARG	2.3
46	DN	25	ARG	2.3
10	CJ	30	SER	2.3
14	CN	6	LEU	2.3
17	CQ	22	LEU	2.3
24	CY	592	GLU	2.3
44	DK	102	GLU	2.3
1	AA	668	G	2.3
1	AA	1017	G	2.3
1	AA	1255	G	2.3
1	AA	1345	U	2.3
1	CA	667	G	2.3
22	CV	42	G	2.3
24	CY	302	HIS	2.3
31	D6	49	HIS	2.3
35	BA	260	G	2.3
35	BA	2866	U	2.3
35	DA	405	U	2.3
35	DA	2649	U	2.3
36	DB	54	G	2.3
37	DC	56	ASP	2.3
39	DE	103	ASP	2.3
6	CF	87	ARG	2.3
16	AP	18	ARG	2.3
25	D0	10	THR	2.3
25	D0	44	ARG	2.3
40	DF	17	ARG	2.3
24	CY	274	ASP	2.3
35	BA	2266	A	2.3
35	BA	2542	A	2.3
35	DA	472	A	2.3

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Mol	Chain	Res	Type	RSRZ
41	DG	12	TYR	2.3
46	BN	34	LEU	2.3
56	BX	92	LEU	2.3
1	AA	1045	C	2.3
1	CA	1038	C	2.3
1	CA	1161	C	2.3
35	DA	816	C	2.3
35	DA	1604	C	2.3
35	DA	2081	C	2.3
2	CB	93	VAL	2.3
2	CB	129	GLU	2.3
6	AF	43	LEU	2.3
11	CK	67	ASP	2.3
11	AK	101	SER	2.3
12	AL	16	GLU	2.3
37	DC	131	ILE	2.3
38	BD	94	LEU	2.3
49	DQ	15	GLY	2.3
1	AA	1220	G	2.3
35	BA	860	U	2.3
35	BA	1433	U	2.3
35	BA	2038	G	2.3
35	DA	260	G	2.3
35	DA	271(X)	G	2.3
35	DA	715	G	2.3
35	DA	1944	U	2.3
15	CO	51	HIS	2.3
35	DA	2067	G	2.3
38	DD	164	GLN	2.3
2	AB	63	MET	2.3
6	CF	23	LYS	2.3
8	CH	80	ILE	2.3
40	DF	68	LYS	2.3
1	AA	1239	A	2.3
10	AJ	71	LEU	2.3
14	AN	5	ALA	2.3
14	AN	48	ALA	2.3
35	BA	103	A	2.3
35	BA	567	A	2.3
35	BA	2738	A	2.3
35	DA	571	A	2.3
7	CG	14	PRO	2.3

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Mol	Chain	Res	Type	RSRZ
16	CP	46	PRO	2.3
1	AA	985	C	2.3
1	AA	1115	C	2.3
1	AA	1242	C	2.3
5	AE	140	ARG	2.3
39	DE	135	HIS	2.3
11	AK	81	ASP	2.3
21	CU	26	LYS	2.3
24	AY	629	GLY	2.3
35	DA	838	C	2.3
35	DA	1375	C	2.3
35	DA	1745	C	2.3
1	CA	164	U	2.3
1	CA	692	U	2.3
24	AY	228	MET	2.3
25	D0	21	LEU	2.3
38	DD	204	ILE	2.3
35	BA	1065	U	2.3
35	DA	104	U	2.3
58	DZ	8	TYR	2.3
8	AH	61	VAL	2.3
25	D0	42	GLY	2.3
57	DY	83	THR	2.3
8	CH	6	ILE	2.3
37	DC	16	ASP	2.3
20	CT	92	LEU	2.3
47	DO	47	ILE	2.3
53	DU	65	ILE	2.3
9	AI	115	GLY	2.3
24	CY	331	TYR	2.3
1	AA	390	C	2.3
1	CA	189(C)	C	2.3
1	CA	1039	C	2.3
7	AG	72	ARG	2.3
26	D1	36	GLY	2.3
8	AH	44	PHE	2.3
9	CI	54	ASP	2.3
42	DH	14	GLY	2.3
1	AA	1308	U	2.3
5	CE	30	ALA	2.3
22	CW	68	C	2.3
35	BA	1289	C	2.3

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Mol	Chain	Res	Type	RSRZ
35	DA	1588	C	2.3
35	BA	2091	U	2.3
35	BA	2244	U	2.3
37	DC	205	ALA	2.3
53	DU	60	LEU	2.3
5	CE	122	GLU	2.3
1	AA	1497	G	2.3
6	AF	6	VAL	2.3
24	CY	279	TYR	2.3
24	CY	611	THR	2.3
32	B7	22	MET	2.3
35	BA	1271	G	2.3
35	DA	35	G	2.3
35	DA	1164	G	2.3
36	BB	89	G	2.3
50	DR	30	THR	2.3
51	DS	108	GLY	2.3
58	BZ	74	VAL	2.3
7	CG	60	LYS	2.3
18	AR	35	ARG	2.3
53	DU	71	GLN	2.3
3	CC	169	ALA	2.3
38	DD	275	LYS	2.3
1	CA	152	A	2.3
22	CV	59	A	2.3
35	BA	1572	A	2.3
35	BA	1809	A	2.3
35	BA	2225	A	2.3
35	DA	1609	A	2.3
26	D1	89	GLU	2.3
51	BS	103	GLU	2.3
55	DW	21	VAL	2.3
1	AA	110	C	2.3
1	AA	1367	C	2.3
1	AA	1429	C	2.3
11	CK	124	LYS	2.3
12	CL	117	ARG	2.3
13	AM	11	ARG	2.3
49	BQ	113	GLN	2.3
4	CD	202	LEU	2.3
22	AV	39	C	2.3
35	BA	2006	C	2.3

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Mol	Chain	Res	Type	RSRZ
35	BA	2264	C	2.3
35	DA	510	C	2.3
35	DA	516	C	2.3
35	DA	758	C	2.3
35	DA	1185	C	2.3
35	DA	1598	C	2.3
11	CK	52	GLY	2.3
9	AI	90	PRO	2.3
20	CT	75	ASN	2.3
24	CY	174	PHE	2.3
30	D5	11	THR	2.3
31	D6	15	GLU	2.3
37	DC	41	THR	2.3
35	DA	113	G	2.2
35	DA	600	G	2.2
35	DA	700	G	2.2
35	DA	1529	G	2.2
36	BB	63	G	2.2
37	DC	119	ASP	2.3
2	CB	147	LYS	2.2
38	BD	92	ILE	2.2
1	AA	909	A	2.2
1	CA	737	A	2.2
1	CA	1319	A	2.2
5	CE	42	GLY	2.2
12	AL	40	VAL	2.2
39	BE	19	ARG	2.2
37	DC	48	LEU	2.2
40	BF	57	VAL	2.2
44	DK	95	LYS	2.2
25	D0	52	GLY	2.2
18	AR	30	ASP	2.2
24	AY	473	ASP	2.2
35	BA	199	A	2.2
35	DA	637	A	2.2
35	DA	2741	A	2.2
44	DK	97	GLY	2.2
24	CY	240	GLU	2.2
25	B0	68	GLU	2.2
27	B2	52	ASP	2.2
47	BO	96	THR	2.2
10	CJ	21	GLN	2.2

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Mol	Chain	Res	Type	RSRZ
12	AL	33	ARG	2.2
17	AQ	92	ARG	2.2
42	DH	169	VAL	2.2
53	BU	63	VAL	2.2
55	DW	84	ARG	2.2
58	BZ	129	SER	2.2
1	AA	153	C	2.2
1	CA	1153	C	2.2
3	CC	47	LEU	2.2
35	BA	1598	C	2.2
35	BA	2043	C	2.2
35	DA	453	C	2.2
35	DA	1621	U	2.2
35	DA	1683	C	2.2
46	DN	112	LEU	2.2
21	AU	23	PRO	2.2
31	B6	49	HIS	2.2
2	AB	84	GLU	2.2
2	AB	235	SER	2.2
38	BD	76	PRO	2.2
1	AA	976	G	2.2
1	CA	474	G	2.2
1	CA	838	G	2.2
4	CD	67	ILE	2.2
12	AL	43	VAL	2.2
11	AK	13	GLN	2.2
19	CS	61	TYR	2.2
20	AT	12	ALA	2.2
24	AY	73	PHE	2.2
24	AY	251	ILE	2.2
24	AY	154	GLN	2.2
24	AY	632	LEU	2.2
25	B0	20	ARG	2.2
35	BA	24	G	2.2
35	DA	88	G	2.2
35	DA	625	G	2.2
52	BT	46	GLU	2.2
51	BS	84	GLN	2.2
1	CA	1169	A	2.2
35	BA	1009	A	2.2
35	BA	2274	A	2.2
35	DA	422	A	2.2

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Mol	Chain	Res	Type	RSRZ
37	DC	2	PRO	2.2
40	BF	96	ASP	2.2
46	DN	6	PRO	2.2
24	AY	297	GLU	2.2
26	D1	67	ILE	2.2
29	D4	15	ILE	2.2
1	AA	449	C	2.2
1	AA	754	C	2.2
1	CA	862	C	2.2
22	AW	52	C	2.2
22	CW	16	C	2.2
26	D1	32	LYS	2.2
35	BA	1417	C	2.2
35	BA	1513	C	2.2
35	DA	2402	C	2.2
37	DC	126	SER	2.2
47	DO	84	ALA	2.2
48	BP	121	LYS	2.2
4	AD	92	VAL	2.2
25	B0	56	ASP	2.2
24	AY	20	HIS	2.2
25	B0	69	PHE	2.2
33	B8	49	VAL	2.2
38	BD	220	HIS	2.2
41	BG	89	GLY	2.2
52	BT	79	HIS	2.2
1	CA	471	G	2.2
25	B0	72	ARG	2.2
35	BA	553	G	2.2
35	BA	1047	G	2.2
35	BA	1807	G	2.2
35	BA	2270	G	2.2
35	BA	2289	G	2.2
35	DA	1593	G	2.2
46	DN	4	TYR	2.2
47	BO	94	ARG	2.2
49	DQ	101	ARG	2.2
58	BZ	152	ALA	2.2
3	AC	55	VAL	2.2
1	AA	539	A	2.2
1	CA	243	A	2.2
1	CA	1093	A	2.2

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Mol	Chain	Res	Type	RSRZ
35	DA	394	A	2.2
35	DA	821	A	2.2
40	DF	112	MET	2.2
3	AC	20	SER	2.2
19	AS	53	ASN	2.2
24	AY	246	ILE	2.2
44	BK	47	ASN	2.2
7	AG	90	GLU	2.2
12	AL	11	VAL	2.2
12	AL	39	VAL	2.2
24	CY	429	ALA	2.2
30	B5	19	ARG	2.2
35	DA	868	U	2.2
47	DO	49	ARG	2.2
52	DT	128	GLU	2.2
58	BZ	79	ARG	2.2
1	AA	857	C	2.2
1	CA	443	C	2.2
35	BA	2205	C	2.2
35	DA	337	C	2.2
35	DA	790	C	2.2
35	DA	1445(A)	C	2.2
35	DA	2043	C	2.2
35	DA	2177	C	2.2
57	DY	89	PHE	2.2
37	DC	139	PRO	2.2
39	BE	74	PRO	2.2
1	AA	1356	G	2.2
4	CD	157	LEU	2.2
14	CN	37	PHE	2.2
24	AY	647	VAL	2.2
22	CW	27	G	2.2
27	B2	3	LEU	2.2
32	B7	3	ARG	2.2
35	DA	2367	G	2.2
39	DE	82	ARG	2.2
41	BG	171	ALA	2.2
42	BH	165	ALA	2.2
35	BA	869	G	2.2
35	BA	1093	G	2.2
35	BA	1865	G	2.2
50	DR	56	LYS	2.2

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Mol	Chain	Res	Type	RSRZ
42	BH	70	THR	2.2
49	BQ	137	TYR	2.2
1	CA	1519	A	2.2
35	BA	2376	A	2.2
35	DA	443	A	2.2
35	DA	492	A	2.2
35	DA	2058	A	2.2
35	DA	2117	A	2.2
56	BX	61	GLY	2.2
46	DN	48	MET	2.2
2	CB	187	LEU	2.2
3	AC	186	PHE	2.2
8	CH	95	VAL	2.2
11	CK	23	ALA	2.2
12	AL	119	LYS	2.2
24	CY	119	GLU	2.2
24	CY	628	ARG	2.2
26	D1	5	CYS	2.2
35	BA	1313	U	2.2
35	DA	448	U	2.2
54	BV	61	VAL	2.2
1	AA	1267	C	2.2
1	CA	135	C	2.2
1	CA	201	C	2.2
6	AF	57	GLN	2.2
24	CY	205	TYR	2.2
35	BA	272(H)	C	2.2
35	BA	1827	C	2.2
35	BA	1905	C	2.2
35	DA	20	C	2.2
35	DA	97	C	2.2
36	BB	60	C	2.2
13	CM	124	PRO	2.2
24	CY	451	ILE	2.2
47	BO	72	PRO	2.2
4	AD	131	ARG	2.2
9	CI	75	ASP	2.2
1	AA	540	G	2.2
22	CW	53	G	2.2
24	CY	447	GLY	2.2
38	BD	7	LYS	2.2
40	DF	207	GLY	2.2

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Mol	Chain	Res	Type	RSRZ
41	BG	33	ARG	2.2
35	BA	916	G	2.2
35	BA	2845	G	2.2
35	DA	2003	G	2.2
50	BR	102	GLU	2.2
12	AL	120	TYR	2.2
14	CN	22	THR	2.2
24	CY	668	SER	2.2
39	BE	34	VAL	2.2
41	DG	68	PRO	2.2
1	CA	90	U	2.2
5	CE	54	ALA	2.2
35	BA	958	U	2.2
35	BA	2716	U	2.2
54	DV	31	ALA	2.2
3	AC	18	TRP	2.2
33	B8	37	SER	2.2
41	DG	3	LEU	2.2
47	DO	106	LEU	2.2
52	BT	23	ARG	2.2
1	CA	1242	C	2.2
12	CL	69	TYR	2.2
16	CP	82	GLN	2.2
35	BA	1957	C	2.2
35	DA	786	C	2.2
35	DA	1064	C	2.2
53	DU	88	ILE	2.2
2	CB	14	GLY	2.2
9	AI	54	ASP	2.2
4	AD	58	LEU	2.2
5	CE	41	VAL	2.2
8	CH	2	LEU	2.2
16	AP	75	ARG	2.2
31	B6	25	LYS	2.2
37	DC	206	LYS	2.2
51	BS	37	ALA	2.2
1	CA	584	G	2.2
2	CB	32	ILE	2.2
22	CV	4	G	2.2
24	AY	236	GLU	2.2
39	DE	104	VAL	2.2
49	DQ	52	VAL	2.2

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Mol	Chain	Res	Type	RSRZ
35	BA	2027	G	2.2
35	DA	175	G	2.2
35	DA	654(D)	G	2.2
35	DA	1450	G	2.2
35	DA	1526	G	2.2
35	DA	1811	G	2.2
35	DA	2526	G	2.2
1	AA	134	A	2.2
1	AA	1340	A	2.2
1	CA	263	A	2.2
1	CA	712	A	2.2
9	CI	21	PRO	2.2
12	AL	48	PRO	2.2
22	CW	36	A	2.2
35	DA	283	A	2.2
35	DA	2335	A	2.2
35	BA	1240	U	2.2
46	BN	81	GLY	2.2
52	DT	131	ALA	2.2
5	AE	19	MET	2.2
6	AF	92	LYS	2.2
24	AY	206	LEU	2.2
31	B6	37	ARG	2.2
39	DE	116	VAL	2.2
48	BP	112	LEU	2.2
57	DY	86	ARG	2.2
35	BA	2772	C	2.2
35	DA	2743	C	2.2
36	DB	12	C	2.2
57	BY	61	ILE	2.2
11	CK	42	TRP	2.2
11	CK	100	ALA	2.2
24	AY	102	ASP	2.2
24	AY	257	PRO	2.2
24	AY	278	ASP	2.2
39	BE	160	TYR	2.2
50	BR	71	GLN	2.2
56	DX	11	PRO	2.2
58	BZ	99	TYR	2.2
10	CJ	16	LEU	2.2
12	CL	20	LYS	2.2
46	DN	84	LYS	2.2

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Mol	Chain	Res	Type	RSRZ
51	DS	32	LEU	2.2
54	BV	85	LYS	2.2
16	CP	1	MET	2.2
1	AA	709	G	2.2
1	AA	1494	G	2.2
1	AA	1523	G	2.2
1	CA	191	G	2.2
1	CA	890	G	2.2
1	CA	1184	G	2.2
17	AQ	65	ILE	2.2
12	AL	5	PRO	2.2
12	AL	99	HIS	2.2
27	B2	27	GLU	2.2
35	BA	1423	G	2.2
35	DA	654(E)	G	2.2
35	BA	1273	U	2.2
35	BA	1773	A	2.2
35	BA	2351	G	2.2
39	BE	77	ILE	2.2
35	DA	1129	A	2.2
35	DA	1255	U	2.2
35	DA	1847	A	2.2
56	DX	12	VAL	2.2
40	DF	60	SER	2.2
1	CA	744	C	2.2
24	AY	447	GLY	2.2
35	BA	19	C	2.2
35	BA	172	C	2.2
35	BA	797	C	2.2
35	BA	2774	C	2.2
35	DA	1502	C	2.2
35	DA	2025	C	2.2
35	DA	2306	C	2.2
35	DA	2316	C	2.2
12	CL	68	ALA	2.2
14	AN	49	HIS	2.2
20	AT	32	ALA	2.2
24	AY	552	SER	2.2
37	BC	110	ASP	2.2
38	BD	79	VAL	2.2
52	DT	117	ASP	2.2
40	DF	115	ALA	2.2

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Mol	Chain	Res	Type	RSRZ
4	CD	57	ARG	2.2
25	B0	43	THR	2.2
40	BF	48	THR	2.2
56	BX	45	THR	2.2
1	AA	773	G	2.2
35	BA	1620	G	2.2
35	BA	1964	G	2.2
35	DA	197	A	2.2
35	DA	214	G	2.2
35	DA	1829	A	2.2
35	DA	2650	U	2.2
36	BB	55	U	2.2
10	AJ	16	LEU	2.2
10	AJ	30	SER	2.2
16	AP	73	LEU	2.2
16	CP	17	TYR	2.2
5	AE	118	ILE	2.2
7	CG	140	ASP	2.2
19	AS	72	GLY	2.2
38	BD	267	SER	2.2
49	BQ	21	THR	2.2
35	BA	527	C	2.2
35	DA	2263	C	2.2
50	DR	69	ASP	2.2
11	AK	50	TYR	2.2
19	AS	4	SER	2.2
2	AB	55	PHE	2.2
4	CD	35	ARG	2.2
6	AF	97	PHE	2.2
24	CY	342	TYR	2.2
31	D6	9	LEU	2.2
58	BZ	18	LEU	2.2
40	BF	53	THR	2.2
52	DT	23	ARG	2.2
1	AA	397	A	2.2
1	AA	551	U	2.2
1	AA	1480	G	2.2
1	CA	627	G	2.2
1	CA	695	A	2.2
1	CA	922	G	2.2
31	D6	43	CYS	2.2
35	BA	1829	A	2.2

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Mol	Chain	Res	Type	RSRZ
35	BA	1851	U	2.2
35	DA	14	A	2.2
35	DA	271(M)	G	2.2
35	DA	657	U	2.2
35	DA	1282	U	2.2
35	DA	1954	G	2.2
35	DA	2425	A	2.2
35	DA	2812	G	2.2
40	DF	161	GLU	2.2
54	DV	23	GLU	2.2
2	AB	45	GLN	2.2
12	CL	9	GLN	2.2
26	B1	32	LYS	2.2
38	BD	197	GLY	2.2
39	BE	155	LYS	2.2
39	DE	145	LYS	2.2
49	BQ	122	GLY	2.2
29	D4	48	ARG	2.2
1	AA	314	C	2.1
1	AA	1195	C	2.1
1	CA	295	C	2.1
2	CB	126	GLU	2.1
5	AE	33	VAL	2.1
5	CE	73	ASN	2.1
22	AW	62	C	2.1
35	BA	2045	C	2.1
35	BA	2803	C	2.1
35	DA	1052	C	2.1
35	DA	1658	C	2.1
35	DA	2420	C	2.1
24	AY	558	PHE	2.1
44	DK	33	ASN	2.1
4	CD	10	ARG	2.1
24	AY	32	ILE	2.1
48	DP	96	THR	2.1
52	DT	59	THR	2.1
55	DW	107	LEU	2.1
24	CY	468	ARG	2.1
1	AA	125	U	2.1
35	BA	1610	A	2.1
35	BA	1810	A	2.1
35	BA	2897	U	2.1

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Mol	Chain	Res	Type	RSRZ
49	DQ	29	PHE	2.1
51	BS	85	VAL	2.1
1	AA	303	A	2.1
1	CA	333	G	2.1
1	CA	746	A	2.1
13	CM	32	GLU	2.1
31	B6	51	GLU	2.1
35	DA	48	G	2.1
37	DC	185	LYS	2.1
39	BE	92	THR	2.1
55	BW	23	LEU	2.1
24	CY	212	TYR	2.1
44	DK	138	VAL	2.1
55	BW	61	ASN	2.1
57	DY	23	ARG	2.1
1	AA	328	C	2.1
1	AA	744	C	2.1
1	AA	1037	C	2.1
1	CA	504	C	2.1
1	CA	525	C	2.1
3	CC	20	SER	2.1
35	BA	107	C	2.1
35	DA	908	C	2.1
35	DA	1662	C	2.1
38	DD	86	PRO	2.1
24	AY	95	GLU	2.1
8	AH	13	ILE	2.1
8	AH	46	LYS	2.1
24	CY	674	ASP	2.1
44	BK	3	LYS	2.1
47	DO	39	ILE	2.1
47	DO	87	ILE	2.1
19	AS	47	HIS	2.1
25	D0	45	PHE	2.1
51	DS	84	GLN	2.1
1	AA	114	U	2.1
24	CY	86	GLY	2.1
35	BA	2884	U	2.1
35	DA	1639	U	2.1
37	DC	122	GLY	2.1
53	DU	77	SER	2.1
53	BU	116	ALA	2.1

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Mol	Chain	Res	Type	RSRZ
1	AA	1080	A	2.1
1	CA	628	G	2.1
1	CA	690	G	2.1
1	CA	776	G	2.1
2	AB	221	LEU	2.1
6	CF	21	LEU	2.1
10	CJ	98	ILE	2.1
22	CW	58	A	2.1
15	CO	25	THR	2.1
24	AY	615	GLU	2.1
35	BA	911	A	2.1
35	DA	124	G	2.1
36	BB	48	A	2.1
39	DE	45	THR	2.1
50	BR	30	THR	2.1
55	BW	22	ASP	2.1
39	DE	91	VAL	2.1
5	CE	124	GLY	2.1
41	BG	56	ALA	2.1
46	DN	72	TYR	2.1
55	DW	108	GLY	2.1
56	DX	58	HIS	2.1
58	BZ	22	GLY	2.1
1	AA	34	C	2.1
1	CA	186	C	2.1
1	CA	747	C	2.1
35	BA	1493	C	2.1
35	DA	732	C	2.1
27	B2	41	ILE	2.1
38	DD	261	LYS	2.1
46	BN	117	PHE	2.1
11	AK	102	GLY	2.1
24	AY	668	SER	2.1
31	D6	21	TYR	2.1
35	DA	2423	U	2.1
55	BW	75	TYR	2.1
2	AB	197	VAL	2.1
7	AG	15	ASP	2.1
22	CW	59	A	2.1
35	BA	2013	A	2.1
35	DA	2151	G	2.1
37	DC	19	LYS	2.1

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Mol	Chain	Res	Type	RSRZ
40	DF	120	GLU	2.1
46	DN	56	ASN	2.1
52	BT	38	ASN	2.1
52	DT	38	ASN	2.1
2	AB	203	GLY	2.1
24	CY	386	GLY	2.1
35	DA	956	G	2.1
35	DA	1650	G	2.1
8	AH	138	TRP	2.1
18	AR	42	ARG	2.1
1	AA	155	C	2.1
1	AA	1296	C	2.1
1	CA	1149	C	2.1
4	CD	129	ASN	2.1
24	AY	646	PHE	2.1
44	BK	21	PRO	2.1
49	BQ	53	ALA	2.1
35	BA	2880	C	2.1
35	DA	134	C	2.1
35	DA	1895	C	2.1
36	BB	109	C	2.1
52	BT	18	ASP	2.1
12	AL	13	LYS	2.1
37	DC	151	GLY	2.1
38	BD	133	LEU	2.1
40	BF	122	LYS	2.1
42	BH	138	LYS	2.1
56	DX	38	GLU	2.1
25	D0	17	GLN	2.1
35	BA	1142	U	2.1
35	DA	1097	U	2.1
41	BG	57	ALA	2.1
46	DN	39	ARG	2.1
11	CK	115	PRO	2.1
58	BZ	54	HIS	2.1
1	AA	1361	G	2.1
1	CA	1099	G	2.1
24	CY	579	GLU	2.1
35	BA	1324	G	2.1
35	DA	2277	G	2.1
42	BH	47	GLU	2.1
40	BF	62	ARG	2.1

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Mol	Chain	Res	Type	RSRZ
3	CC	193	TYR	2.1
17	CQ	95	TYR	2.1
28	D3	27	GLY	2.1
35	BA	1631	C	2.1
35	BA	1990	C	2.1
3	AC	75	VAL	2.1
16	AP	79	VAL	2.1
24	AY	392	GLU	2.1
24	AY	404	VAL	2.1
30	B5	9	LYS	2.1
44	BK	18	THR	2.1
37	BC	30	VAL	2.1
38	DD	196	VAL	2.1
1	CA	884	U	2.1
3	CC	65	ALA	2.1
4	AD	187	ARG	2.1
5	AE	37	ARG	2.1
13	AM	44	ARG	2.1
14	CN	23	ARG	2.1
41	DG	79	ASN	2.1
47	BO	60	ALA	2.1
47	DO	83	ALA	2.1
24	AY	643	ILE	2.1
38	DD	95	LEU	2.1
41	DG	65	GLY	2.1
53	BU	2	PRO	2.1
24	CY	272	LEU	2.1
4	CD	46	LYS	2.1
6	CF	67	MET	2.1
35	BA	2320	A	2.1
35	DA	1457	A	2.1
39	DE	72	VAL	2.1
57	DY	68	HIS	2.1
1	CA	1526	G	2.1
3	CC	63	ASN	2.1
3	CC	38	ARG	2.1
4	CD	80	GLU	2.1
22	CW	50	G	2.1
2	CB	42	ILE	2.1
6	AF	51	PRO	2.1
7	CG	55	GLY	2.1
24	AY	247	ARG	2.1

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Mol	Chain	Res	Type	RSRZ
24	CY	24	GLY	2.1
26	D1	77	ALA	2.1
29	B4	39	CYS	2.1
1	AA	1259	C	2.1
1	CA	899	C	2.1
17	CQ	9	VAL	2.1
25	D0	31	VAL	2.1
26	B1	78	LYS	2.1
26	D1	8	SER	2.1
26	D1	70	VAL	2.1
37	BC	148	PHE	2.1
38	BD	104	TYR	2.1
42	BH	114	VAL	2.1
42	DH	129	THR	2.1
42	BH	175	LYS	2.1
49	BQ	32	TYR	2.1
51	DS	16	ASN	2.1
1	CA	365	U	2.1
1	CA	870	U	2.1
1	CA	1391	U	2.1
35	BA	1540	U	2.1
35	BA	2492	U	2.1
10	CJ	39	PRO	2.1
44	BK	25	PRO	2.1
2	CB	190	THR	2.1
3	AC	115	LEU	2.1
31	B6	33	LYS	2.1
35	DA	1272	A	2.1
35	DA	1544	A	2.1
35	DA	2042	A	2.1
50	DR	78	LYS	2.1
1	AA	741	G	2.1
1	AA	1365	G	2.1
1	CA	557	G	2.1
4	AD	208	SER	2.1
8	AH	19	VAL	2.1
20	CT	49	ALA	2.1
24	CY	515	GLU	2.1
35	BA	2219	G	2.1
35	DA	139	G	2.1
35	DA	660	G	2.1
41	BG	83	ARG	2.1

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Mol	Chain	Res	Type	RSRZ
47	BO	69	ILE	2.1
1	CA	291	C	2.1
1	CA	342	C	2.1
35	BA	2297	C	2.1
35	BA	2381	C	2.1
35	DA	2236	C	2.1
35	DA	2301	C	2.1
35	DA	2773	C	2.1
1	CA	552	U	2.1
24	CY	22	ASP	2.1
38	DD	210	GLY	2.1
48	DP	20	GLY	2.1
50	DR	93	GLY	2.1
40	DF	62	ARG	2.1
44	DK	107	ILE	2.1
35	BA	2497	A	2.1
35	DA	229	A	2.1
35	DA	1029	A	2.1
35	DA	2705	A	2.1
58	BZ	153	SER	2.1
3	CC	78	GLY	2.1
1	AA	1177	G	2.1
7	AG	40	ALA	2.1
9	CI	4	TYR	2.1
11	CK	75	TYR	2.1
17	CQ	42	TYR	2.1
24	CY	121	VAL	2.1
50	DR	106	GLY	2.1
22	CV	30	G	2.1
24	CY	233	GLU	2.1
35	BA	2318	G	2.1
35	DA	271(U)	G	2.1
56	BX	76	ARG	2.1
17	AQ	98	LEU	2.1
35	DA	2824	C	2.1
37	BC	137	LEU	2.1
37	BC	217	THR	2.1
22	AV	1	C	2.1
24	AY	619	ASP	2.1
29	D4	35	VAL	2.1
35	BA	201	C	2.1
35	BA	886	C	2.1

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Mol	Chain	Res	Type	RSRZ
35	BA	1909	C	2.1
35	DA	584	C	2.1
35	DA	935	C	2.1
24	CY	474	ALA	2.1
40	DF	73	ALA	2.1
42	BH	102	ALA	2.1
5	CE	70	PRO	2.1
37	DC	173	HIS	2.1
39	DE	58	ARG	2.1
40	BF	45	ARG	2.1
46	DN	74	ARG	2.1
48	BP	144	GLU	2.1
52	BT	52	ILE	2.1
6	CF	27	GLN	2.1
7	CG	43	PHE	2.1
12	CL	82	VAL	2.1
16	CP	37	GLY	2.1
24	AY	338	GLY	2.1
41	DG	92	VAL	2.1
57	DY	80	GLY	2.1
1	AA	389	A	2.1
35	BA	1927	A	2.1
35	DA	699	A	2.1
53	BU	93	LYS	2.1
3	CC	100	ALA	2.1
18	AR	60	ALA	2.1
1	AA	625	G	2.1
1	AA	1276	G	2.1
1	CA	527	G	2.1
1	CA	1024	G	2.1
8	AH	41	ARG	2.1
16	AP	42	ARG	2.1
17	AQ	38	ARG	2.1
40	BF	78	ILE	2.1
40	DF	142	TRP	2.1
3	CC	196	LEU	2.1
17	CQ	18	THR	2.1
35	DA	89	G	2.1
35	DA	247	G	2.1
35	DA	668	G	2.1
35	DA	1062	G	2.1
44	DK	125	ARG	2.1

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Mol	Chain	Res	Type	RSRZ
24	CY	391	GLY	2.1
28	B3	31	LEU	2.1
28	D3	53	LEU	2.1
47	BO	108	GLU	2.1
47	DO	68	GLU	2.1
51	BS	70	GLY	2.1
54	BV	46	VAL	2.1
29	B4	38	LYS	2.1
35	DA	142(A)	C	2.1
35	DA	366	C	2.1
35	DA	2089	U	2.1
36	BB	28	C	2.1
47	BO	67	LYS	2.1
24	AY	605	ILE	2.1
6	AF	68	PRO	2.1
52	DT	29	ARG	2.1
24	AY	434	GLU	2.1
24	CY	380	LEU	2.1
13	AM	40	ASN	2.0
35	BA	2660	A	2.0
35	DA	532	A	2.0
35	DA	1360	A	2.0
48	DP	13	ASN	2.0
51	DS	11	LYS	2.0
54	DV	84	LYS	2.0
5	AE	131	ILE	2.0
27	D2	41	ILE	2.0
1	CA	139	G	2.0
8	CH	3	THR	2.0
27	B2	26	ARG	2.0
42	BH	12	PRO	2.0
42	BH	51	ARG	2.0
49	BQ	100	GLY	2.0
49	BQ	106	VAL	2.0
50	BR	6	SER	2.0
10	AJ	83	GLU	2.0
22	AV	26	G	2.0
29	D4	27	THR	2.0
35	BA	2330	G	2.0
35	DA	452	G	2.0
35	DA	1747(A)	G	2.0
55	DW	68	ARG	2.0

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Mol	Chain	Res	Type	RSRZ
38	BD	188	GLU	2.0
42	BH	53	GLU	2.0
1	AA	1000	U	2.0
1	CA	1020	U	2.0
16	AP	77	ALA	2.0
29	B4	49	PHE	2.0
35	BA	812	C	2.0
35	BA	1683	C	2.0
35	BA	2146	C	2.0
35	BA	2695	C	2.0
35	BA	2739	U	2.0
35	DA	112	U	2.0
35	DA	999	U	2.0
40	BF	98	SER	2.0
40	DF	67	GLN	2.0
55	BW	102	HIS	2.0
5	CE	75	THR	2.0
7	CG	155	ARG	2.0
14	AN	39	LEU	2.0
17	AQ	18	THR	2.0
38	DD	213	ARG	2.0
9	AI	53	VAL	2.0
9	CI	59	PHE	2.0
44	DK	137	GLU	2.0
1	CA	373	A	2.0
9	CI	127	LYS	2.0
14	CN	18	VAL	2.0
24	CY	144	ALA	2.0
25	D0	24	LYS	2.0
4	AD	6	GLY	2.0
4	AD	165	MET	2.0
35	BA	2750	A	2.0
11	CK	41	THR	2.0
24	AY	200	PRO	2.0
28	B3	53	LEU	2.0
37	DC	145	THR	2.0
1	CA	613	C	2.0
1	CA	824	C	2.0
1	CA	1369	C	2.0
5	CE	34	VAL	2.0
8	AH	88	LYS	2.0
24	CY	575	VAL	2.0

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Mol	Chain	Res	Type	RSRZ
35	BA	1826	G	2.0
35	DA	1176	G	2.0
35	BA	1710	C	2.0
35	BA	1976	U	2.0
35	BA	2559	C	2.0
35	BA	2653	U	2.0
35	DA	76	C	2.0
35	DA	937	U	2.0
35	DA	1761	C	2.0
35	DA	1851	U	2.0
35	DA	2178	C	2.0
36	BB	1	U	2.0
44	DK	9	LYS	2.0
48	BP	19	VAL	2.0
52	DT	89	VAL	2.0
3	CC	53	ALA	2.0
25	D0	40	GLN	2.0
47	DO	36	GLY	2.0
57	BY	10	GLY	2.0
57	BY	65	ALA	2.0
58	BZ	172	ALA	2.0
2	AB	60	ASP	2.0
4	CD	27	TYR	2.0
12	CL	36	VAL	2.0
16	CP	38	TYR	2.0
24	AY	672	PHE	2.0
38	BD	149	PRO	2.0
47	DO	88	ASN	2.0
24	CY	231	TYR	2.0
41	BG	172	LEU	2.0
41	DG	136	ARG	2.0
54	DV	81	TYR	2.0
55	BW	20	VAL	2.0
1	CA	8	A	2.0
1	CA	1092	A	2.0
3	CC	92	ALA	2.0
24	AY	25	LYS	2.0
24	AY	394	ALA	2.0
42	DH	80	SER	2.0
46	BN	139	GLU	2.0
25	D0	12	ASN	2.0
35	BA	829	A	2.0

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Mol	Chain	Res	Type	RSRZ
4	AD	19	LEU	2.0
8	CH	9	MET	2.0
33	B8	57	ARG	2.0
39	DE	170	LEU	2.0
1	CA	823	G	2.0
1	CA	398	C	2.0
1	CA	1359	C	2.0
6	AF	66	GLU	2.0
10	CJ	7	LYS	2.0
15	CO	44	LYS	2.0
18	AR	19	LYS	2.0
22	CV	41	C	2.0
33	B8	44	LYS	2.0
35	BA	694	U	2.0
35	BA	2167	U	2.0
35	BA	2719	G	2.0
35	DA	389	G	2.0
35	DA	2864	G	2.0
35	DA	2231	C	2.0
37	DC	13	GLU	2.0
49	DQ	76	LYS	2.0
51	BS	81	GLY	2.0
52	DT	25	GLY	2.0
35	BA	2374	C	2.0
35	DA	1615	C	2.0
55	DW	93	ALA	2.0
3	CC	69	HIS	2.0
3	AC	54	ARG	2.0
15	CO	4	THR	2.0
38	DD	91	ARG	2.0
40	BF	123	LEU	2.0
52	DT	93	ARG	2.0
56	BX	60	ARG	2.0
1	CA	915	A	2.0
2	CB	231	GLU	2.0
4	CD	86	LYS	2.0
4	CD	164	ALA	2.0
33	D8	33	ASN	2.0
8	AH	8	ASP	2.0
22	CW	14	A	2.0
51	DS	59	LYS	2.0
2	CB	67	THR	2.0

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Mol	Chain	Res	Type	RSRZ
29	D4	4	GLY	2.0
41	DG	89	GLY	2.0
48	DP	41	ARG	2.0
1	AA	1194	U	2.0
1	CA	587	G	2.0
1	CA	595	G	2.0
1	CA	1104	G	2.0
3	CC	180	ALA	2.0
22	CV	8	U	2.0
35	BA	1167	U	2.0
35	BA	2519	U	2.0
35	BA	2324	C	2.0
35	BA	2619	C	2.0
35	DA	250	G	2.0
36	BB	96	U	2.0
4	CD	158	ILE	2.0
15	AO	52	SER	2.0
24	CY	679	VAL	2.0
46	DN	10	GLU	2.0
46	DN	19	GLU	2.0
55	BW	74	ALA	2.0
3	CC	54	ARG	2.0
10	CJ	5	ARG	2.0
10	CJ	54	PHE	2.0
20	AT	91	LEU	2.0
38	BD	14	ARG	2.0
38	DD	182	LEU	2.0
41	DG	139	LEU	2.0
57	BY	41	GLY	2.0
28	B3	46	ASN	2.0
24	CY	120	THR	2.0
24	CY	239	GLU	2.0
30	B5	51	TYR	2.0
50	DR	87	TYR	2.0
51	DS	105	ALA	2.0
32	B7	5	TRP	2.0
35	DA	1070	A	2.0
35	DA	2198	A	2.0
51	BS	104	GLY	2.0
12	AL	34	ARG	2.0
37	BC	140	ASN	2.0
40	BF	205	ARG	2.0

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Mol	Chain	Res	Type	RSRZ
40	DF	66	PRO	2.0
52	DT	118	ARG	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
22	5MU	CV	54	20/22	0.34	-	89,92,95,96	0
22	5MU	AV	54	20/22	0.69	-	82,84,86,86	0
22	5MU	AW	55	20/22	0.54	-	161,165,168,168	0
22	5MU	CW	55	20/22	0.64	-	178,179,186,186	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
61	FUA	AY	702	37/37	0.58	-	98,102,110,111	0
59	ZN	AN	101	1/1	1.50	-	35,35,35,35	0
62	GDP	AY	703	28/28	0.53	-	78,82,83,84	0
59	ZN	CD	301	1/1	0.17	-	49,49,49,49	0
62	GDP	CY	703	28/28	0.59	-	81,87,94,95	0
60	MG	AY	701	1/1	0.87	-	30,30,30,30	0
61	FUA	CY	702	37/37	1.20	-	102,104,107,109	0
60	MG	CY	701	1/1	0.76	-	39,39,39,39	0
59	ZN	AD	301	1/1	0.30	-	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
59	ZN	D4	101	1/1	0.28	-	164,164,164,164	0
59	ZN	CN	101	1/1	1.74	-	66,66,66,66	0
59	ZN	B4	101	1/1	0.43	-	122,122,122,122	0
59	ZN	B9	101	1/1	0.48	-	62,62,62,62	0
59	ZN	D9	101	1/1	0.83	-	86,86,86,86	0

6.5 Other polymers ⓘ

There are no such residues in this entry.