



# Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 10:02 PM GMT

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

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.  
We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)  
A user guide is available at  
<http://wwpdb.org/validation/2016/XrayValidationReportHelp>  
with specific help available everywhere you see the ⓘ symbol.

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

MolProbity : 4.02b-467  
Mogul : 1.7 (RC4), CSD as536be (2015)  
Xtriage (Phenix) : 1.9-1692  
EDS : rb-20026688  
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)  
Refmac : 5.8.0135  
CCP4 : 6.5.0  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : trunk26865

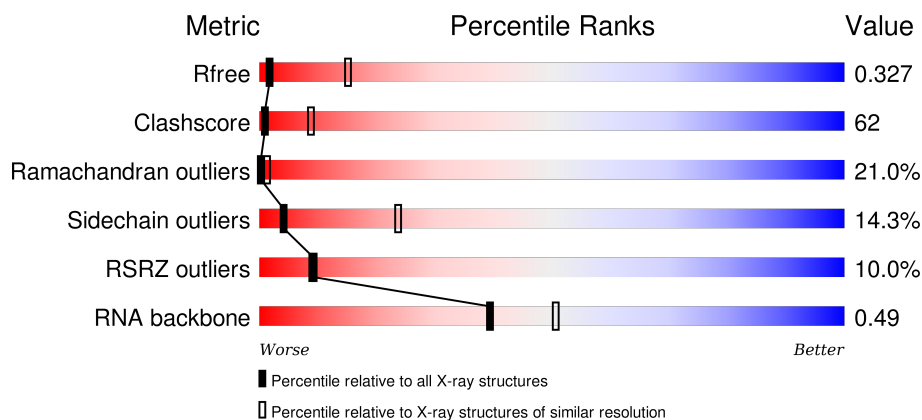
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

## *X-RAY DIFFRACTION*

The reported resolution of this entry is 3.50 Å.

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



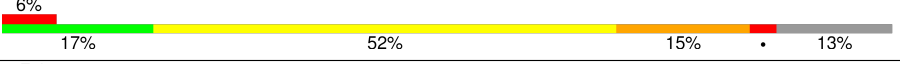
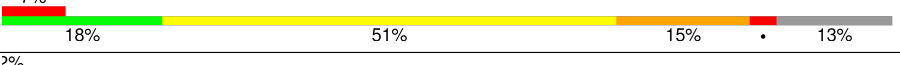
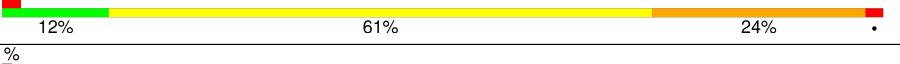
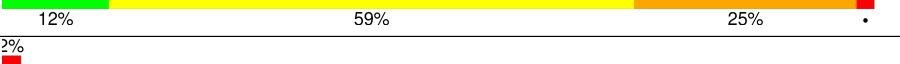
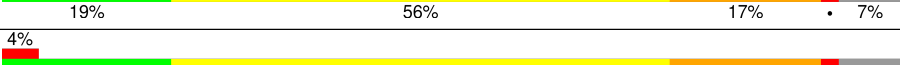
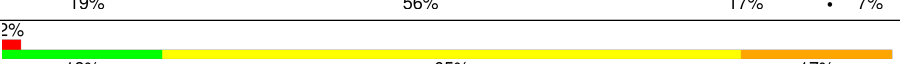
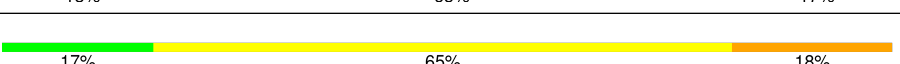
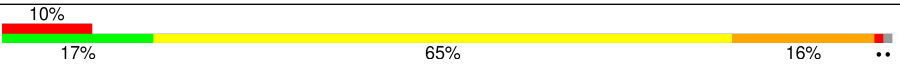
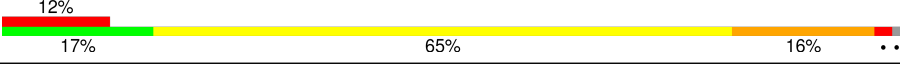
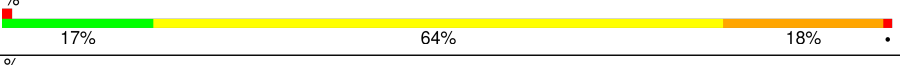
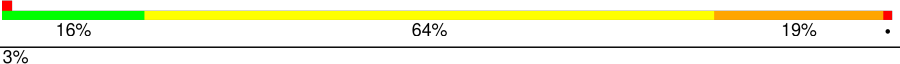
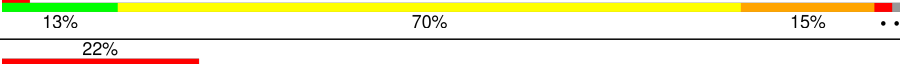
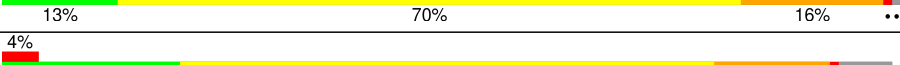
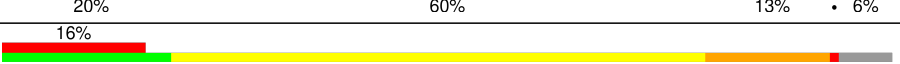
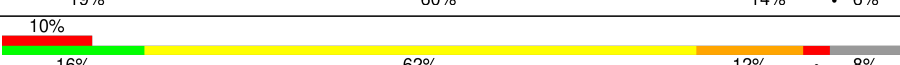
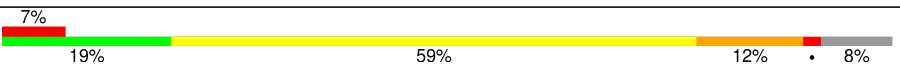
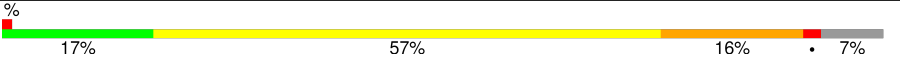
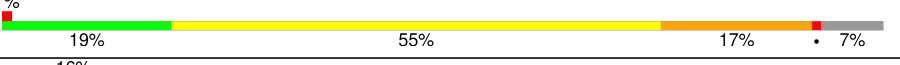
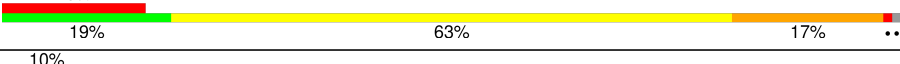
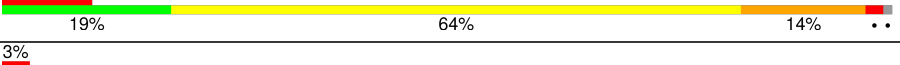
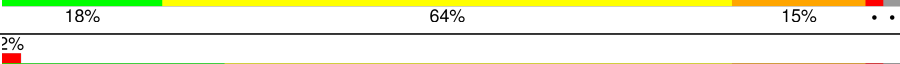
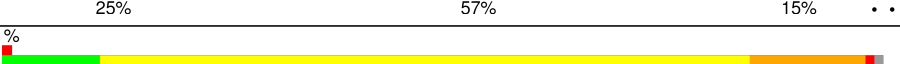
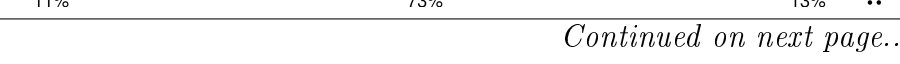


Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
$R_{free}$	91344	1051 (3.60-3.40)
Clashscore	102246	1157 (3.60-3.40)
Ramachandran outliers	100387	1120 (3.60-3.40)
Sidechain outliers	100360	1121 (3.60-3.40)
RSRZ outliers	91569	1058 (3.60-3.40)
RNA backbone	2183	1050 (4.20-2.80)

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

Mol	Chain	Length	Quality of chain
1	AA	1522	<div> <div>11%</div> <div>13%</div> <div>73%</div> <div>12%</div> <div>..</div> </div>
1	CA	1522	<div> <div>13%</div> <div>13%</div> <div>73%</div> <div>13%</div> <div>.</div> </div>
2	AB	256	<div> <div>9%</div> <div>16%</div> <div>50%</div> <div>25%</div> <div>8%</div> </div>
2	CB	256	<div> <div>8%</div> <div>16%</div> <div>50%</div> <div>25%</div> <div>8%</div> </div>

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Mol	Chain	Length	Quality of chain
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	
8	AH	138	
8	CH	138	
9	AI	128	
9	CI	128	
10	AJ	105	
10	CJ	105	
11	AK	129	
11	CK	129	
12	AL	135	
12	CL	135	
13	AM	126	
13	CM	126	
14	AN	61	
14	CN	61	
15	AO	89	

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Mol	Chain	Length	Quality of chain
15	CO	89	
16	AP	88	
16	CP	88	
17	AQ	105	
17	CQ	105	
18	AR	88	
18	CR	88	
19	AS	93	
19	CS	93	
20	AT	106	
20	CT	106	
21	AU	27	
21	CU	27	
22	AV	76	
22	CV	76	
23	AW	77	
23	CW	77	
24	AX	31	
24	CX	31	
25	AY	185	
25	CY	185	
26	B0	85	
26	D0	85	
27	B1	98	
27	D1	98	

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Mol	Chain	Length	Quality of chain
28	B2	72	
28	D2	72	
29	B3	60	
29	D3	60	
30	B4	71	
30	D4	71	
31	B5	60	
31	D5	60	
32	B6	54	
32	D6	54	
33	B7	49	
33	D7	49	
34	B8	65	
34	D8	65	
35	BA	2782	
35	DA	2782	
36	BB	122	
36	DB	122	
37	BC	229	
37	DC	229	
38	BD	276	
38	DD	276	
39	BE	206	
39	DE	206	
40	BF	210	

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Mol	Chain	Length	Quality of chain
40	DF	210	
41	BG	182	
41	DG	182	
42	BH	180	
42	DH	180	
43	BI	148	
43	DI	148	
44	BN	140	
44	DN	140	
45	BO	122	
45	DO	122	
46	BP	150	
46	DP	150	
47	BQ	141	
47	DQ	141	
48	BR	118	
48	DR	118	
49	BS	112	
49	DS	112	
50	BT	146	
50	DT	146	
51	BU	118	
51	DU	118	
52	BV	101	
52	DV	101	

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Mol	Chain	Length	Quality of chain
53	BW	113	
53	DW	113	
54	BX	96	
54	DX	96	
55	BY	110	
55	DY	110	
56	BZ	206	
56	DZ	206	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
57	MG	AA	1613	-	-	-	X
57	MG	AA	1695	-	-	-	X
57	MG	AA	1720	-	-	-	X
57	MG	AA	1734	-	-	-	X
57	MG	AA	1797	-	-	-	X
57	MG	AW	119	-	-	-	X
57	MG	BA	3025	-	-	-	X
57	MG	BA	3029	-	-	-	X
57	MG	BA	3048	-	-	-	X
57	MG	BA	3051	-	-	-	X
57	MG	BA	3101	-	-	-	X
57	MG	BA	3120	-	-	-	X
57	MG	BA	3125	-	-	-	X
57	MG	BA	3129	-	-	-	X
57	MG	BA	3143	-	-	-	X
57	MG	BA	3166	-	-	-	X
57	MG	BA	3167	-	-	-	X
57	MG	BA	3177	-	-	-	X
57	MG	BA	3189	-	-	-	X
57	MG	BA	3196	-	-	-	X
57	MG	BA	3210	-	-	-	X
57	MG	BA	3261	-	-	-	X
57	MG	BA	3268	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
57	MG	BA	3274	-	-	-	X
57	MG	BA	3346	-	-	-	X
57	MG	BA	3352	-	-	-	X
57	MG	BA	3379	-	-	-	X
57	MG	BA	3389	-	-	-	X
57	MG	BA	3397	-	-	-	X
57	MG	BA	3409	-	-	-	X
57	MG	BA	3412	-	-	-	X
57	MG	BA	3432	-	-	-	X
57	MG	BD	301	-	-	-	X
57	MG	BO	201	-	-	-	X
57	MG	BP	202	-	-	-	X
57	MG	CA	1613	-	-	-	X
57	MG	CA	1624	-	-	-	X
57	MG	CA	1630	-	-	-	X
57	MG	CA	1634	-	-	-	X
57	MG	CA	1639	-	-	-	X
57	MG	CA	1686	-	-	-	X
57	MG	CA	1687	-	-	-	X
57	MG	CA	1690	-	-	-	X
57	MG	CA	1696	-	-	-	X
57	MG	CA	1699	-	-	-	X
57	MG	CA	1700	-	-	-	X
57	MG	CA	1707	-	-	-	X
57	MG	CA	1711	-	-	-	X
57	MG	CA	1712	-	-	-	X
57	MG	CA	1716	-	-	-	X
57	MG	CA	1736	-	-	-	X
57	MG	CA	1746	-	-	-	X
57	MG	CA	1763	-	-	-	X
57	MG	CA	1801	-	-	-	X
57	MG	CA	1805	-	-	-	X
57	MG	CN	101	-	-	-	X
57	MG	CW	119	-	-	-	X
57	MG	DA	3008	-	-	-	X
57	MG	DA	3012	-	-	-	X
57	MG	DA	3023	-	-	-	X
57	MG	DA	3027	-	-	-	X
57	MG	DA	3046	-	-	-	X
57	MG	DA	3048	-	-	-	X
57	MG	DA	3049	-	-	-	X
57	MG	DA	3063	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
57	MG	DA	3066	-	-	-	X
57	MG	DA	3069	-	-	-	X
57	MG	DA	3071	-	-	-	X
57	MG	DA	3092	-	-	-	X
57	MG	DA	3094	-	-	-	X
57	MG	DA	3106	-	-	-	X
57	MG	DA	3118	-	-	-	X
57	MG	DA	3138	-	-	-	X
57	MG	DA	3141	-	-	-	X
57	MG	DA	3142	-	-	-	X
57	MG	DA	3149	-	-	-	X
57	MG	DA	3192	-	-	-	X
57	MG	DA	3232	-	-	-	X
57	MG	DA	3238	-	-	-	X
57	MG	DA	3256	-	-	-	X
57	MG	DA	3262	-	-	-	X
57	MG	DA	3282	-	-	-	X
57	MG	DA	3293	-	-	-	X
57	MG	DA	3308	-	-	-	X
57	MG	DA	3309	-	-	-	X
57	MG	DA	3313	-	-	-	X
57	MG	DA	3315	-	-	-	X
57	MG	DA	3318	-	-	-	X
57	MG	DA	3358	-	-	-	X
57	MG	DA	3375	-	-	-	X
57	MG	DA	3377	-	-	-	X
57	MG	DA	3387	-	-	-	X
57	MG	DA	3388	-	-	-	X
57	MG	DA	3396	-	-	-	X
57	MG	DA	3408	-	-	-	X
57	MG	DA	3419	-	-	-	X
57	MG	DA	3421	-	-	-	X
57	MG	DA	3429	-	-	-	X
57	MG	DB	214	-	-	-	X
57	MG	DP	201	-	-	-	X
57	MG	DU	202	-	-	-	X

## 2 Entry composition

There are 58 unique types of molecules in this entry. The entry contains 290487 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- Molecule 22 is a RNA chain called P-SITE RNA ASL-PHE.

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

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

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

- Molecule 24 is a RNA chain called MRNA.

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

- Molecule 25 is a protein called RIBOSOME RECYCLING FACTOR.

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

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

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

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

There are 4 discrepancies between the modelled and reference sequences:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
37	BC	191	Total	C	N	O	0	0	1
			1142	691	221	230			
37	DC	191	Total	C	N	O	0	0	1
			1143	692	221	230			

There are 2 discrepancies between the modelled and reference sequences:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- Molecule 57 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

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

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

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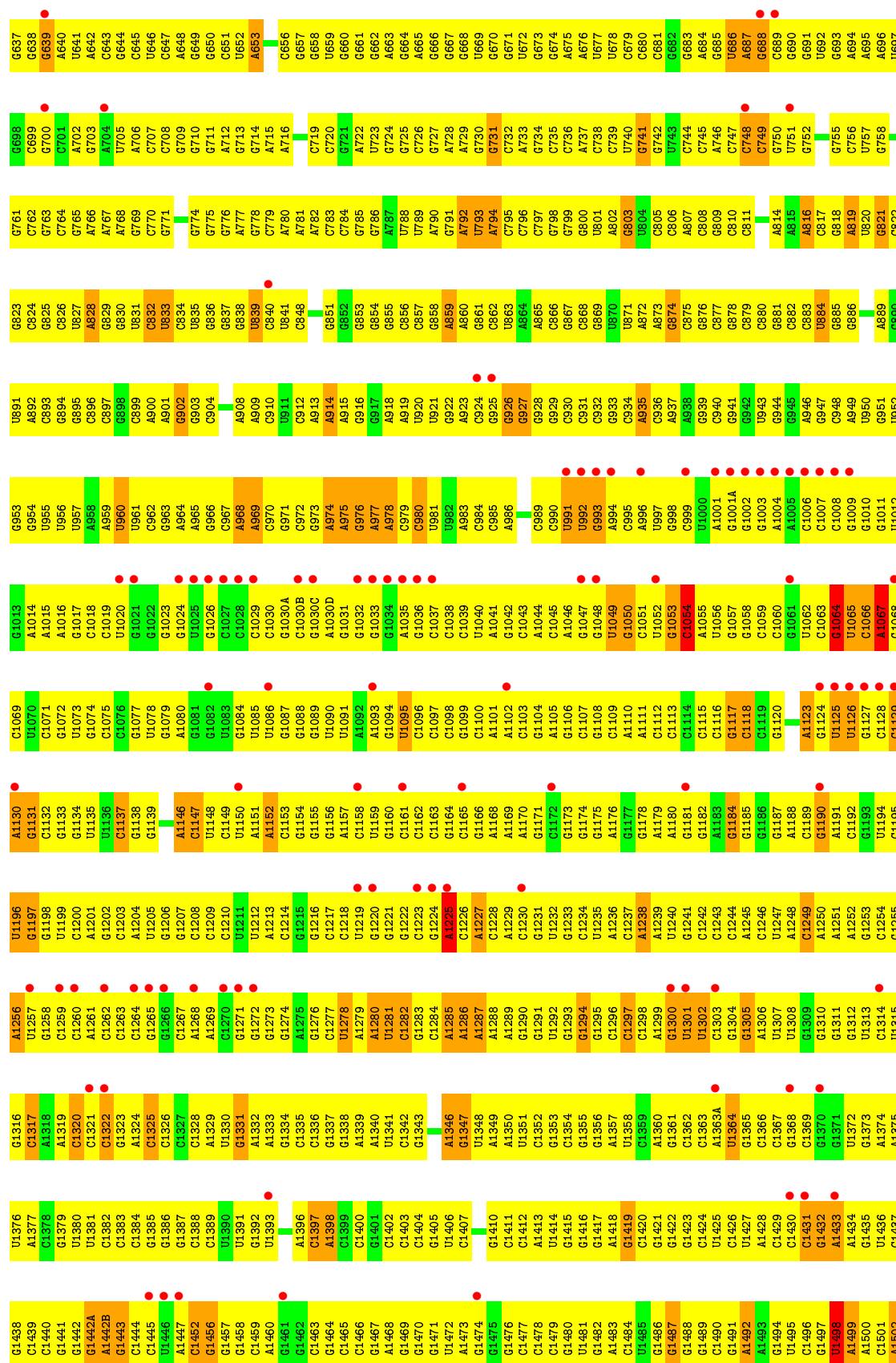
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
57	D1	4	Total 4	Mg 4	0	0
57	DP	4	Total 4	Mg 4	0	0
57	CW	23	Total 23	Mg 23	0	0
57	D5	1	Total 1	Mg 1	0	0
57	BD	3	Total 3	Mg 3	0	0
57	CE	3	Total 3	Mg 3	0	0
57	CG	1	Total 1	Mg 1	0	0
57	DD	3	Total 3	Mg 3	0	0
57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

- Molecule 58 is ZINC ION (three-letter code: ZN) (formula: Zn).

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

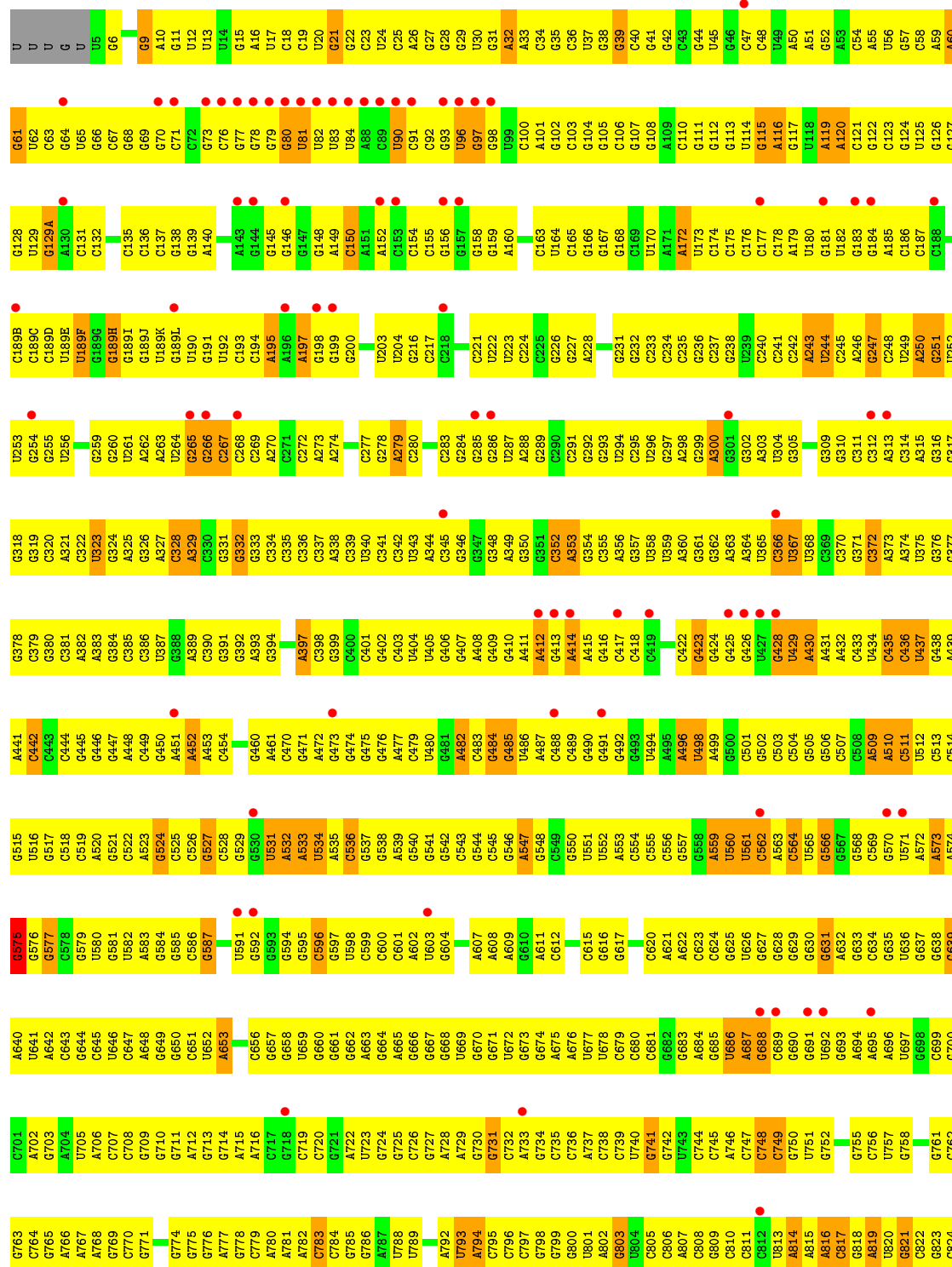


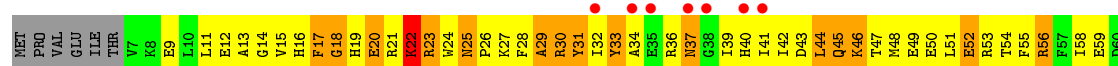


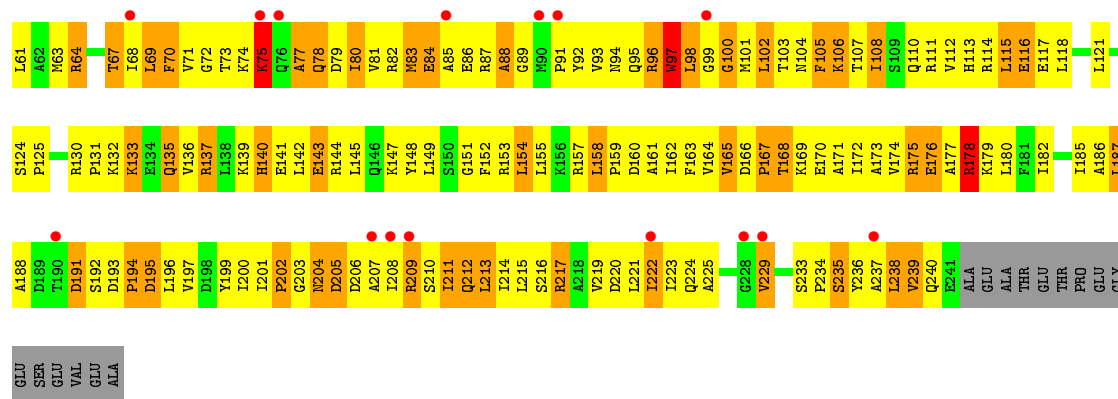


● Molecule 1: 16S rRNA

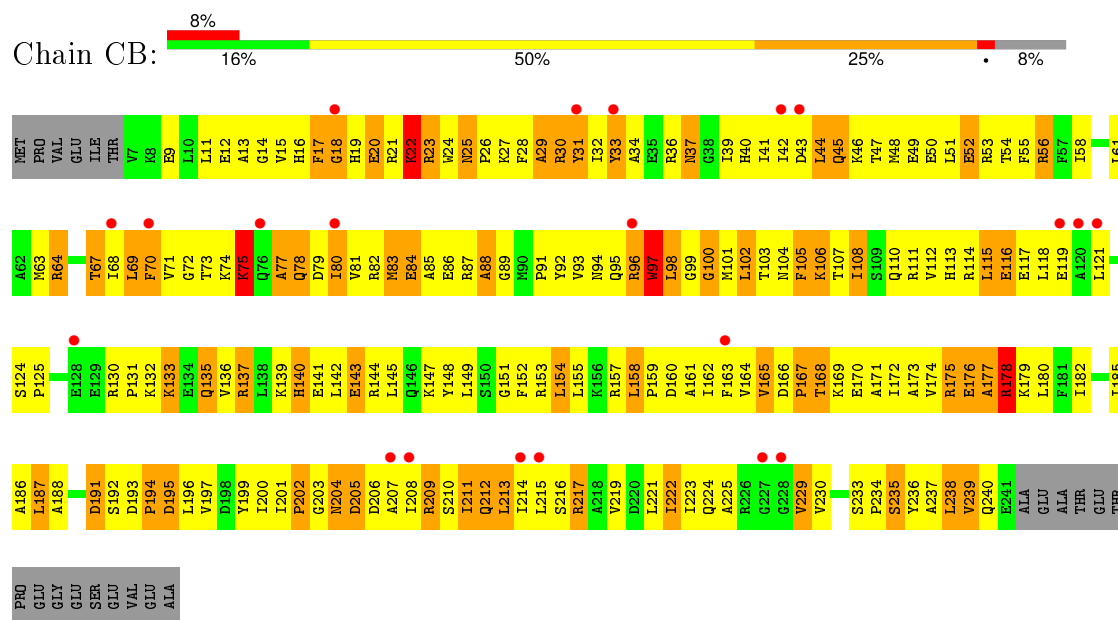
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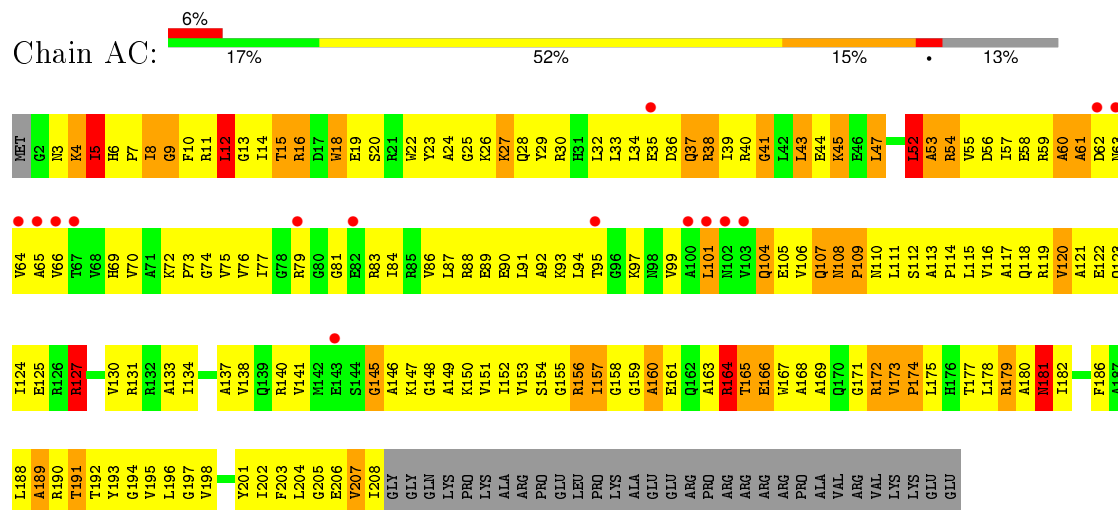




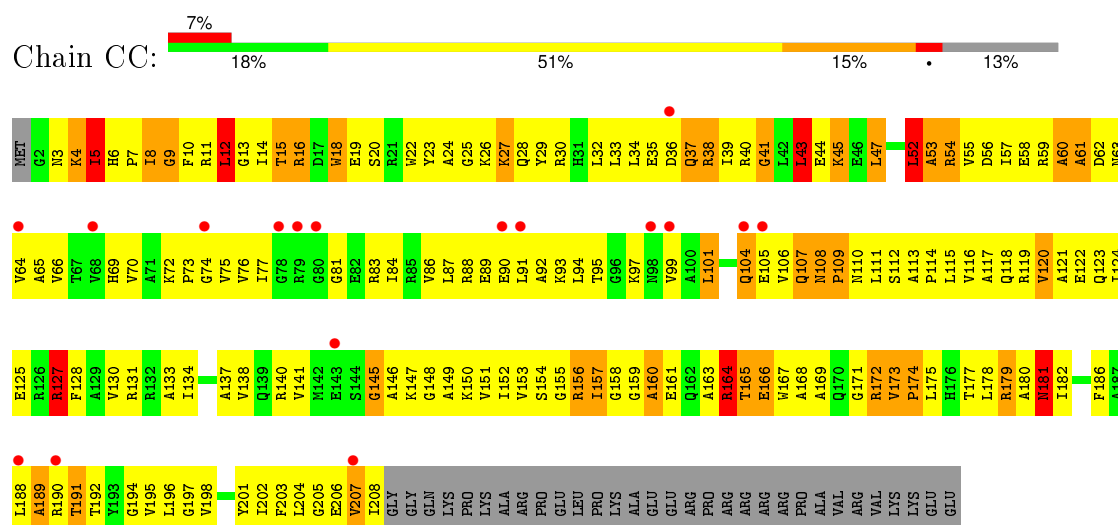
### • Molecule 2: 30S RIBOSOMAL PROTEIN S2



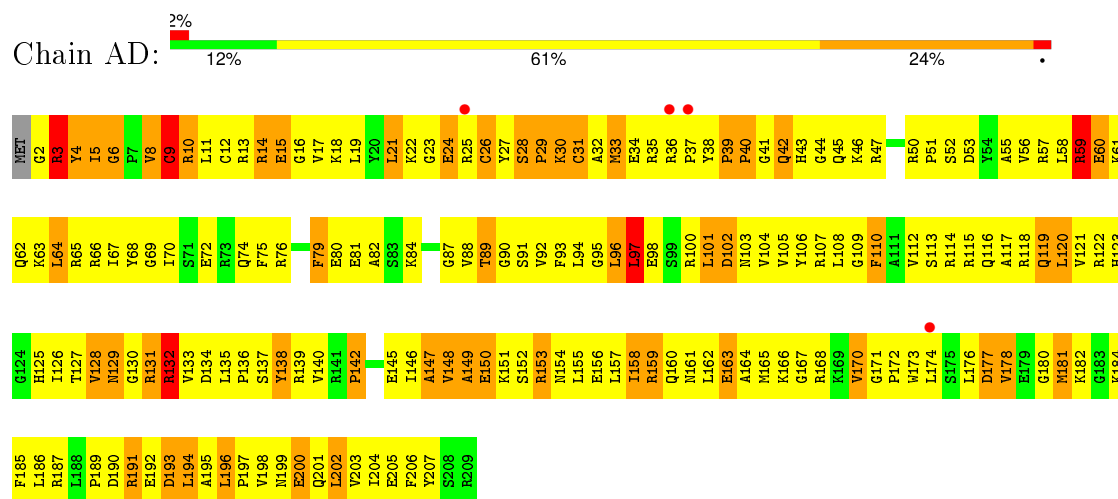
### • Molecule 3: 30S RIBOSOMAL PROTEIN S3



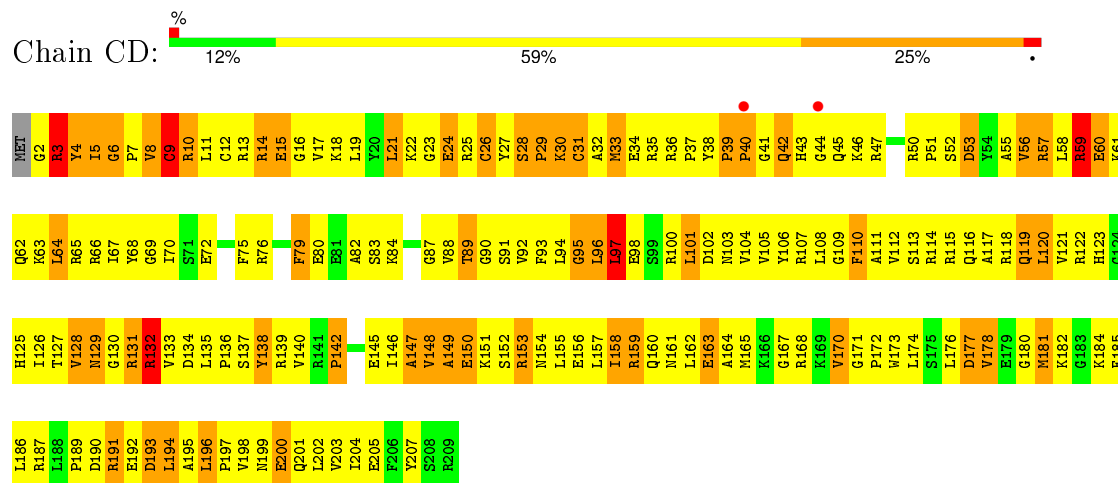
### • Molecule 3: 30S RIBOSOMAL PROTEIN S3



• Molecule 4: 30S RIBOSOMAL PROTEIN S4

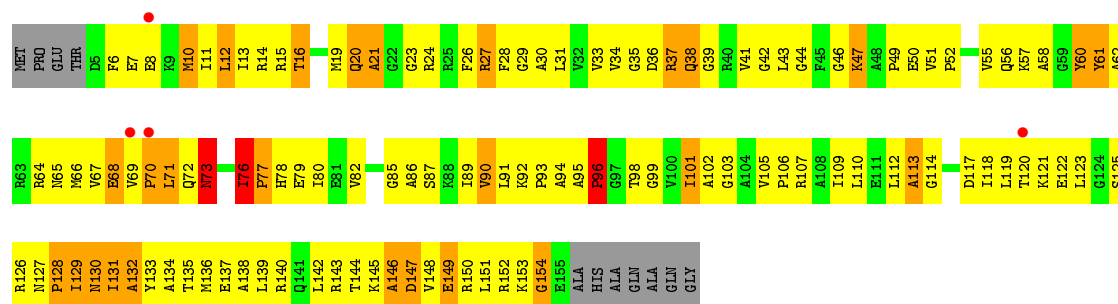


• Molecule 4: 30S RIBOSOMAL PROTEIN S4

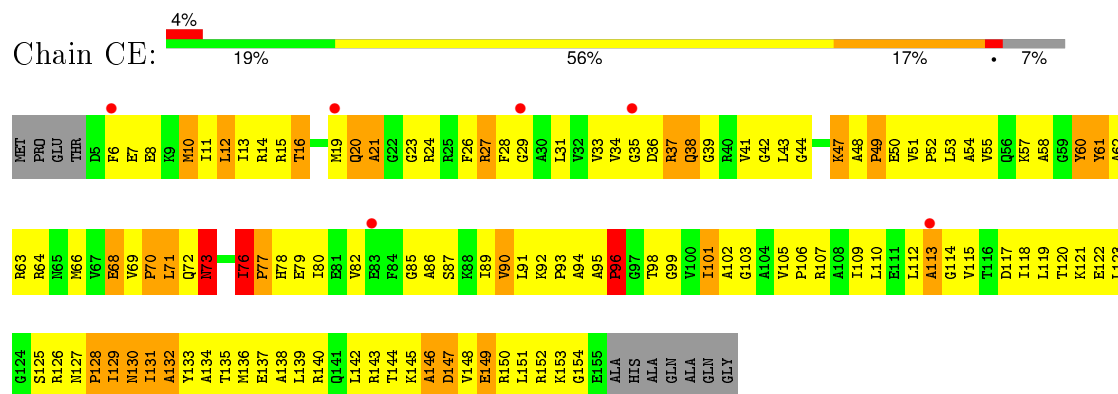


• Molecule 5: 30S RIBOSOMAL PROTEIN S5

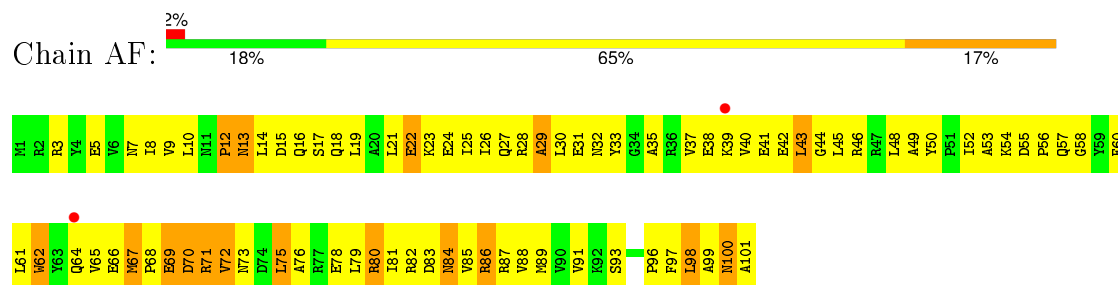




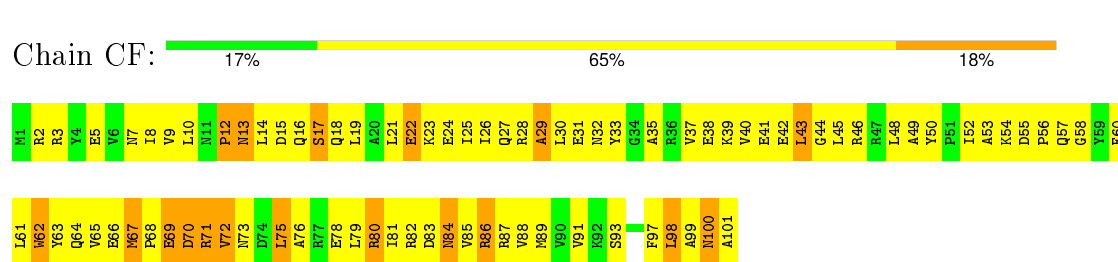
• Molecule 5: 30S RIBOSOMAL PROTEIN S5



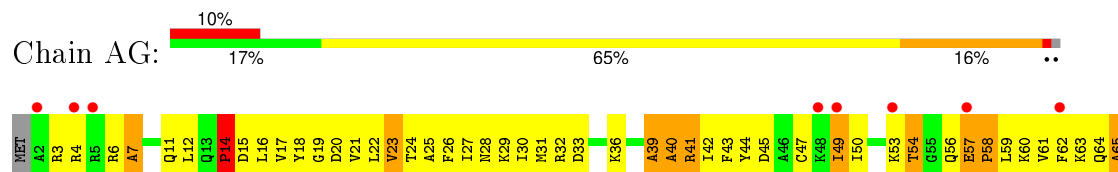
• Molecule 6: 30S RIBOSOMAL PROTEIN S6

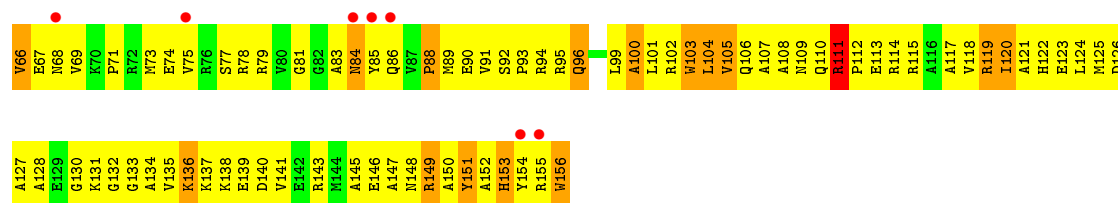


• Molecule 6: 30S RIBOSOMAL PROTEIN S6

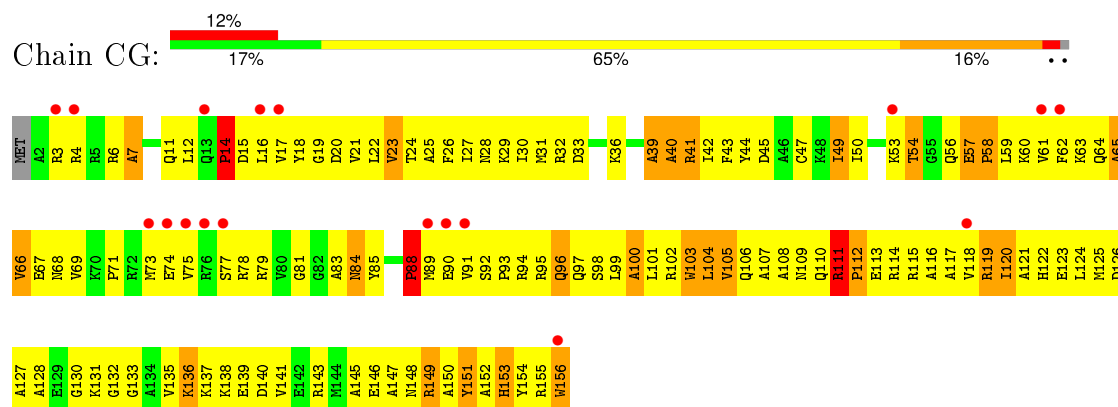


• Molecule 7: 30S RIBOSOMAL PROTEIN S7

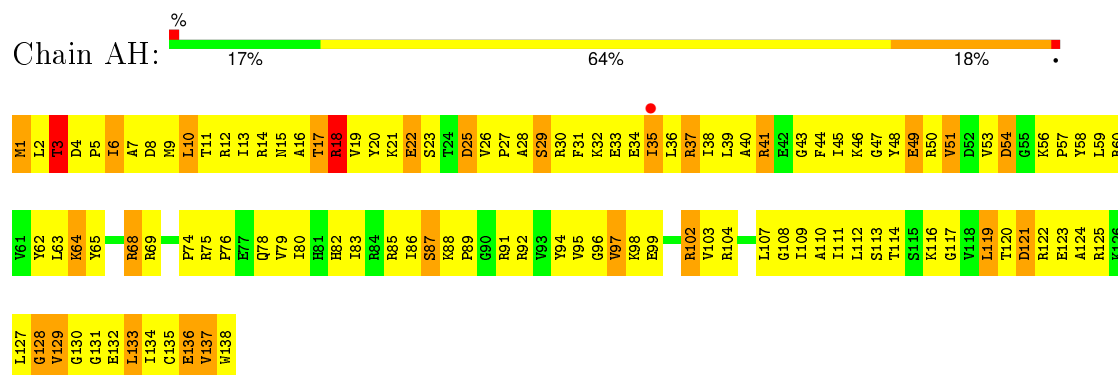




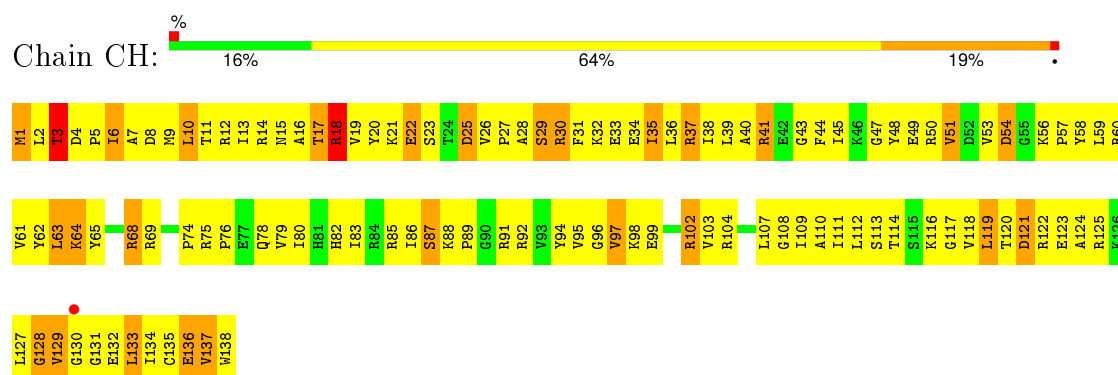
• Molecule 7: 30S RIBOSOMAL PROTEIN S7



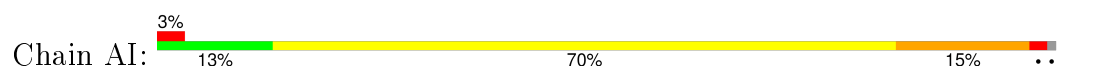
• Molecule 8: 30S RIBOSOMAL PROTEIN S8

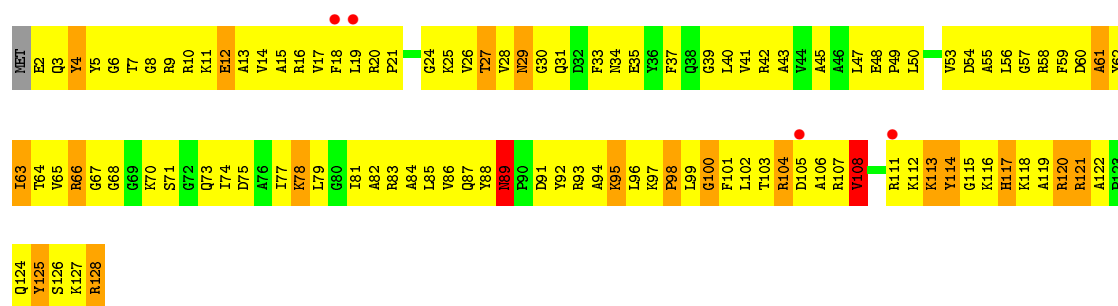


• Molecule 8: 30S RIBOSOMAL PROTEIN S8

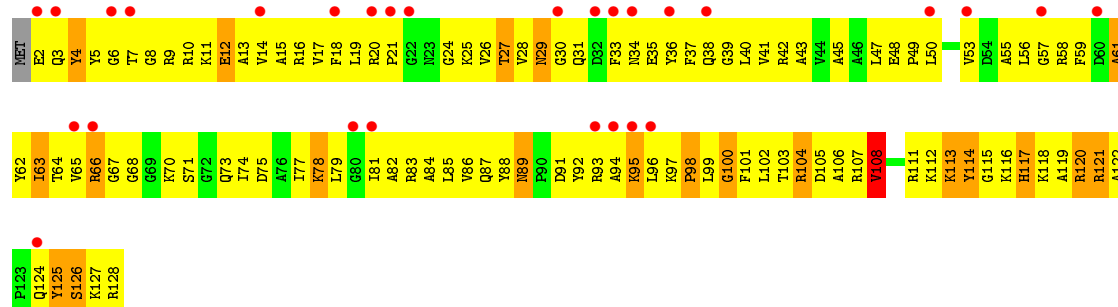


• Molecule 9: 30S RIBOSOMAL PROTEIN S9

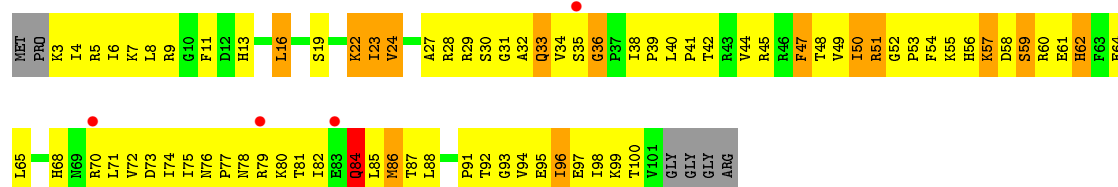




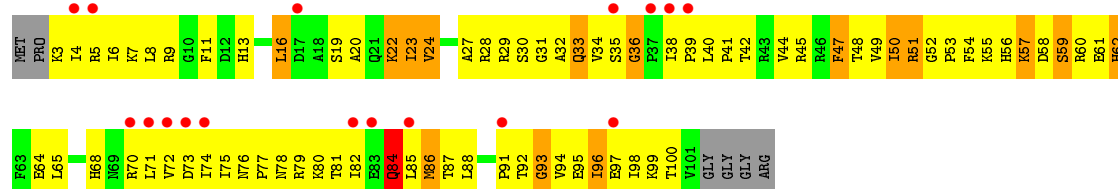
• Molecule 9: 30S RIBOSOMAL PROTEIN S9



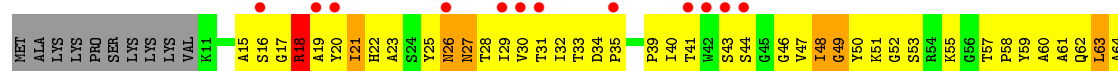
• Molecule 10: 30S RIBOSOMAL PROTEIN S10

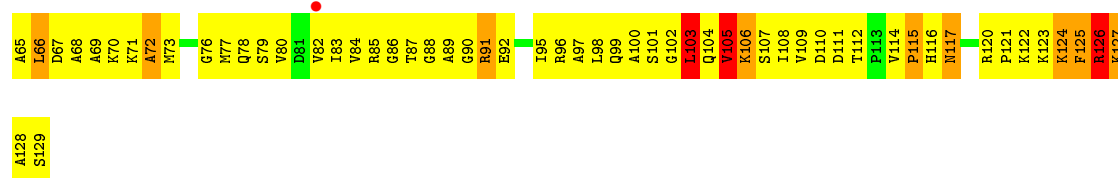


• Molecule 10: 30S RIBOSOMAL PROTEIN S10

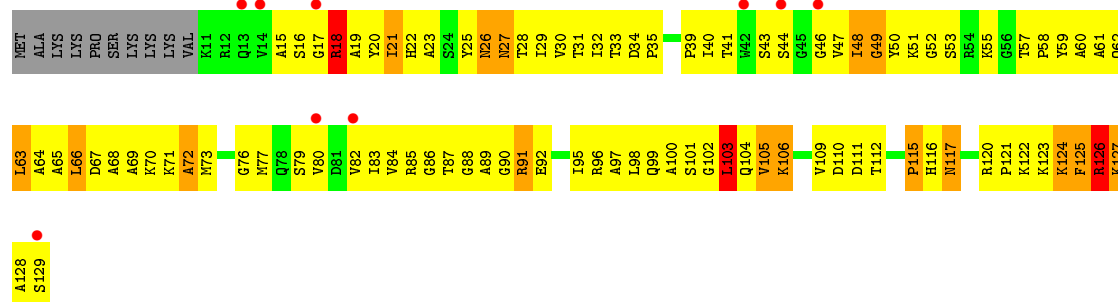


• Molecule 11: 30S RIBOSOMAL PROTEIN S11

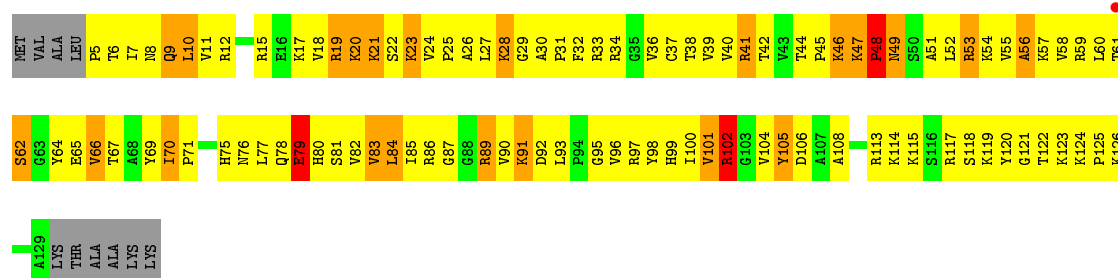




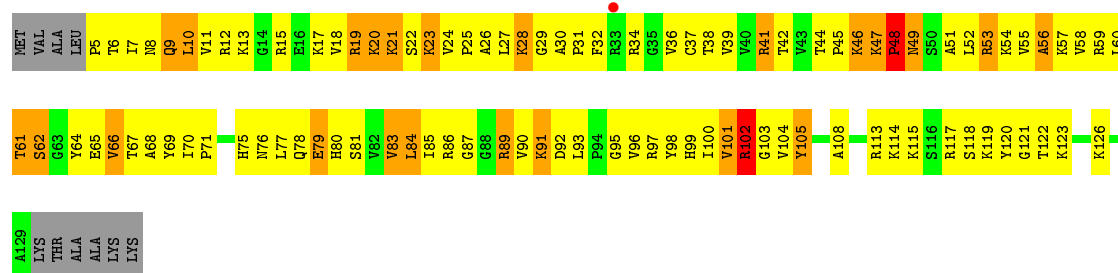
• Molecule 11: 30S RIBOSOMAL PROTEIN S11



• Molecule 12: 30S RIBOSOMAL PROTEIN S12

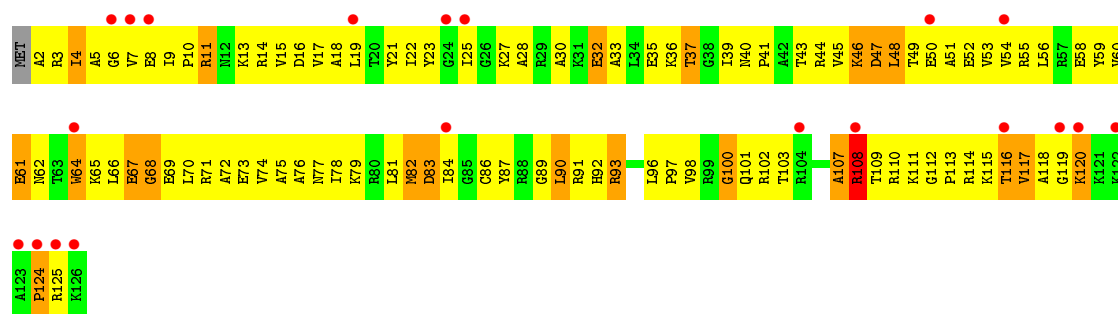


• Molecule 12: 30S RIBOSOMAL PROTEIN S12

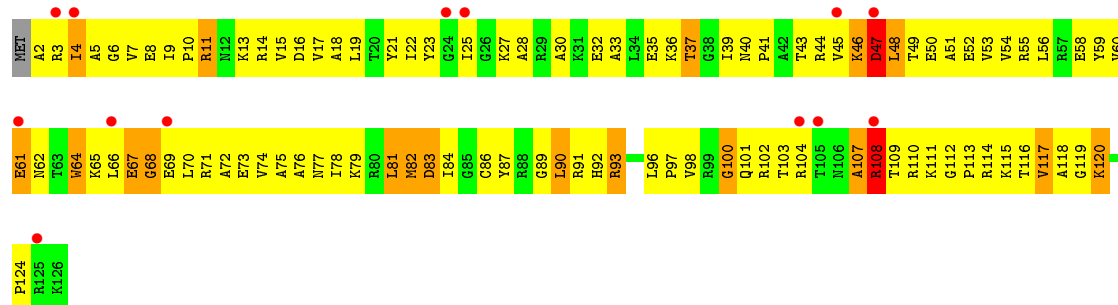
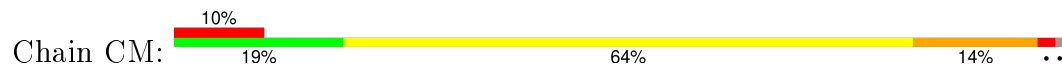


• Molecule 13: 30S RIBOSOMAL PROTEIN S13

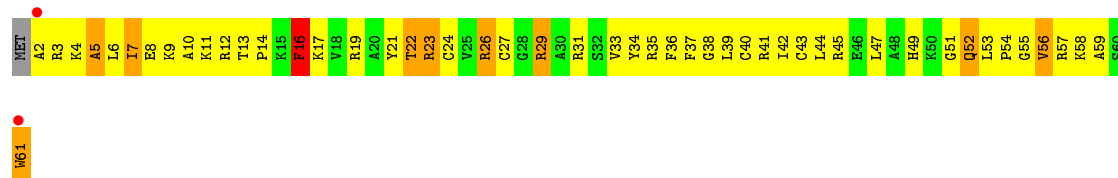




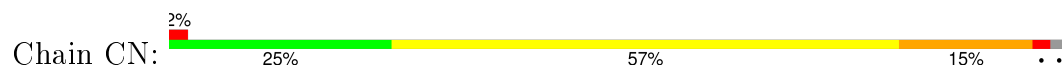
• Molecule 13: 30S RIBOSOMAL PROTEIN S13



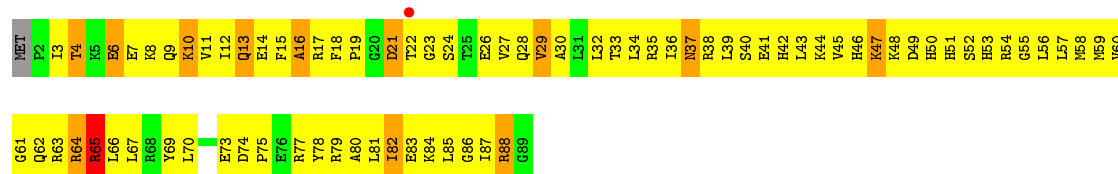
• Molecule 14: 30S RIBOSOMAL PROTEIN S14



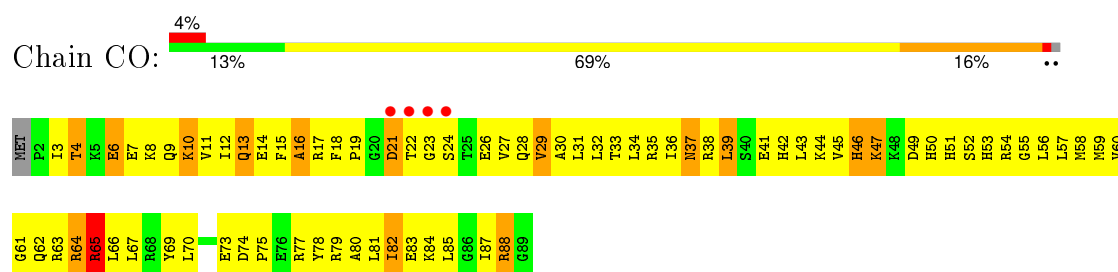
• Molecule 14: 30S RIBOSOMAL PROTEIN S14



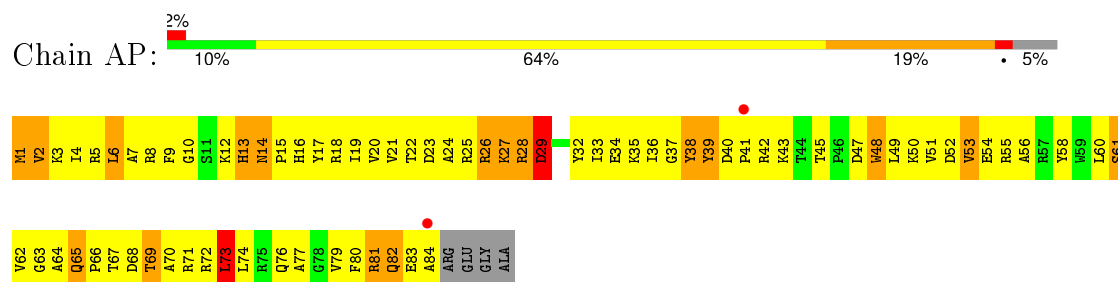
• Molecule 15: 30S RIBOSOMAL PROTEIN S15



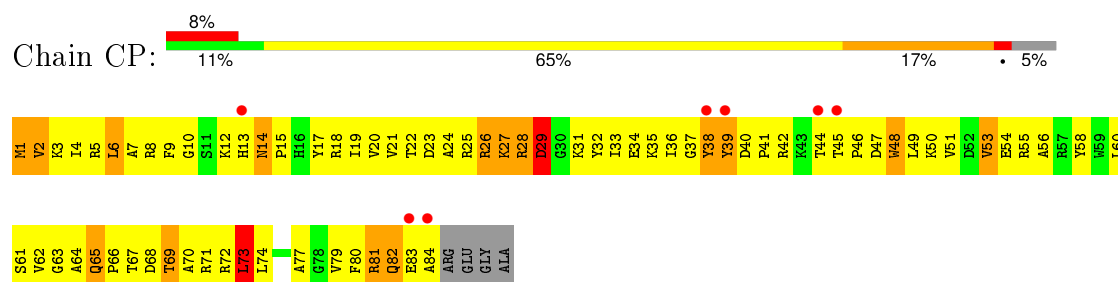
• Molecule 15: 30S RIBOSOMAL PROTEIN S15



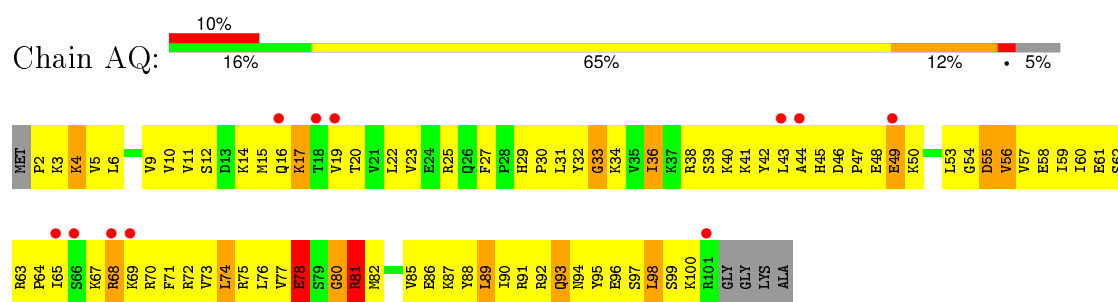
• Molecule 16: 30S RIBOSOMAL PROTEIN S16



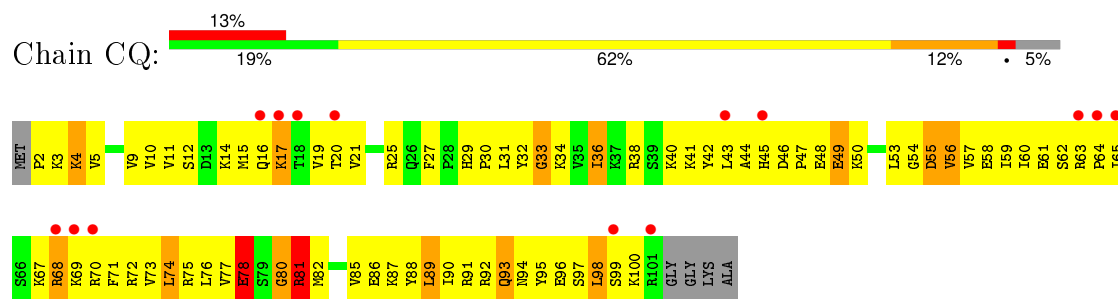
• Molecule 16: 30S RIBOSOMAL PROTEIN S16



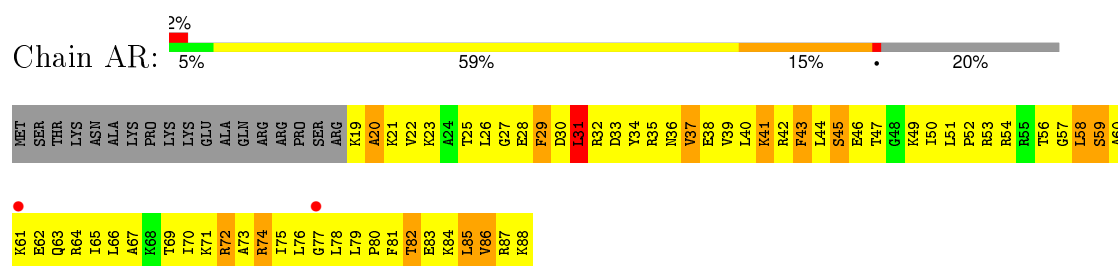
• Molecule 17: 30S RIBOSOMAL PROTEIN S17



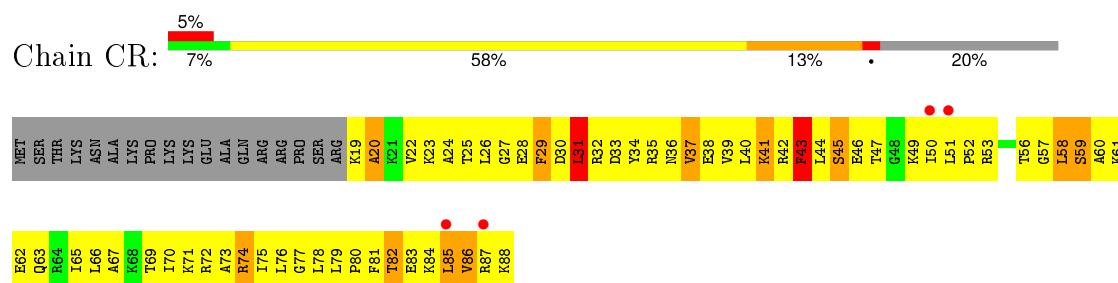
• Molecule 17: 30S RIBOSOMAL PROTEIN S17



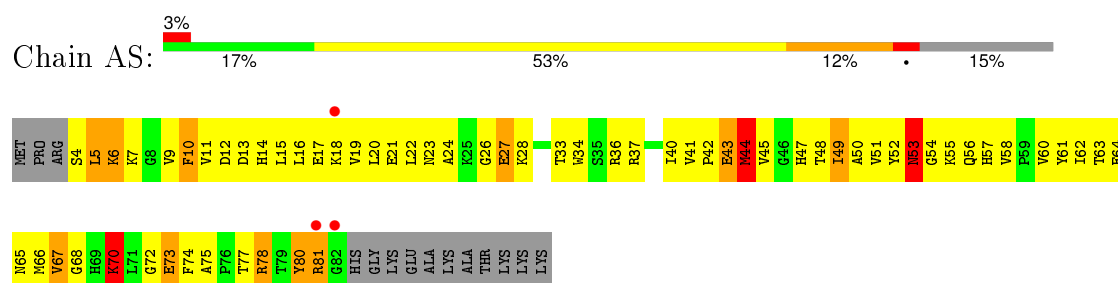
• Molecule 18: 30S RIBOSOMAL PROTEIN S18



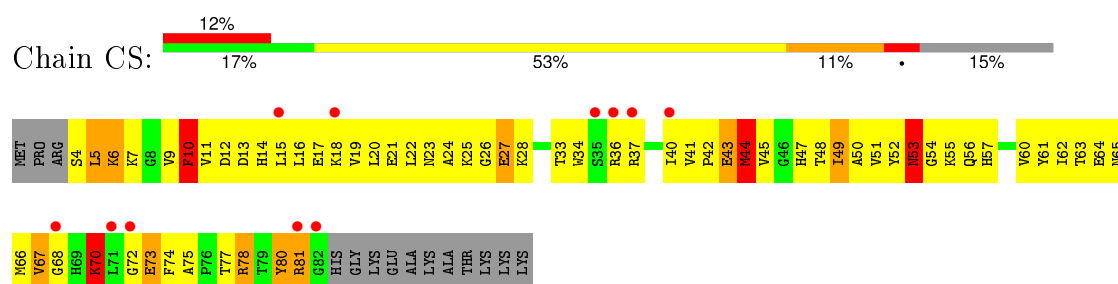
● Molecule 18: 30S RIBOSOMAL PROTEIN S18



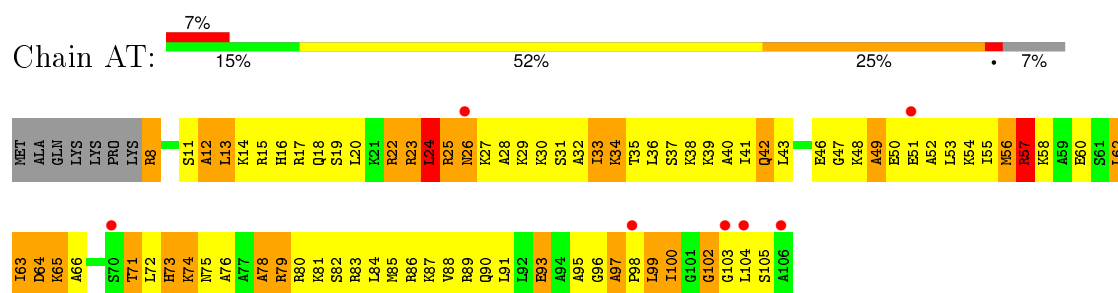
● Molecule 19: 30S RIBOSOMAL PROTEIN S19



● Molecule 19: 30S RIBOSOMAL PROTEIN S19



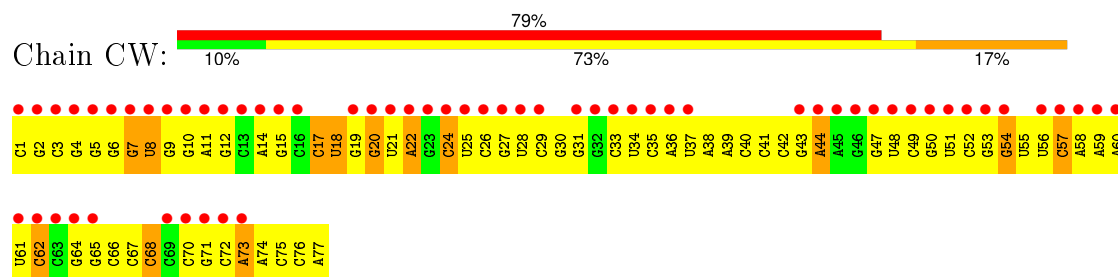
● Molecule 20: 30S RIBOSOMAL PROTEIN S20



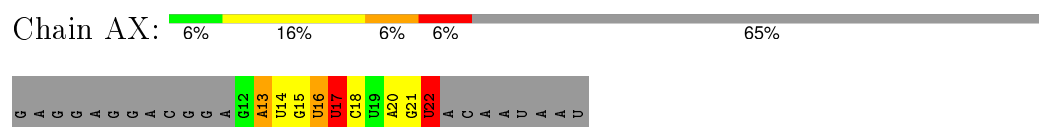
• Molecule 20: 30S RIBOSOMAL PROTEIN S20



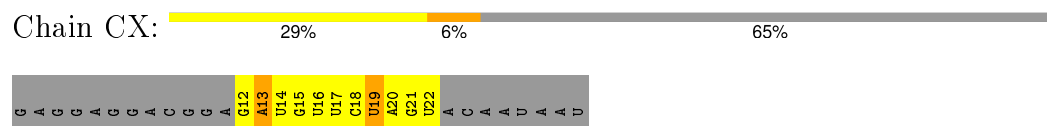
- Molecule 23: tRNA-FMET



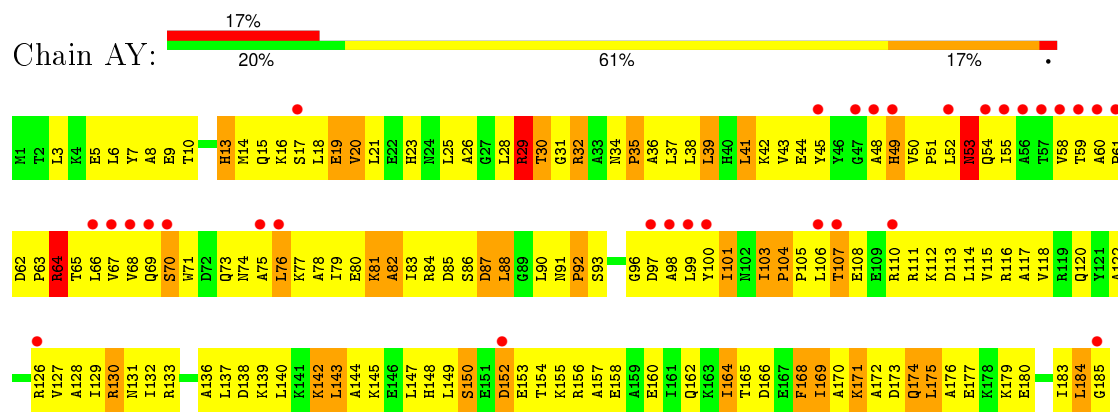
- Molecule 24: mRNA



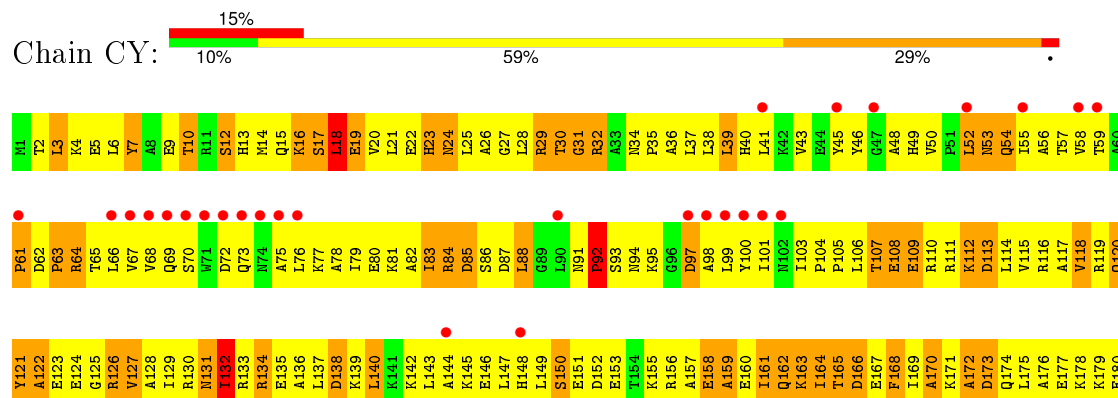
- Molecule 24: mRNA



● Molecule 25: RIBOSOME RECYCLING FACTOR

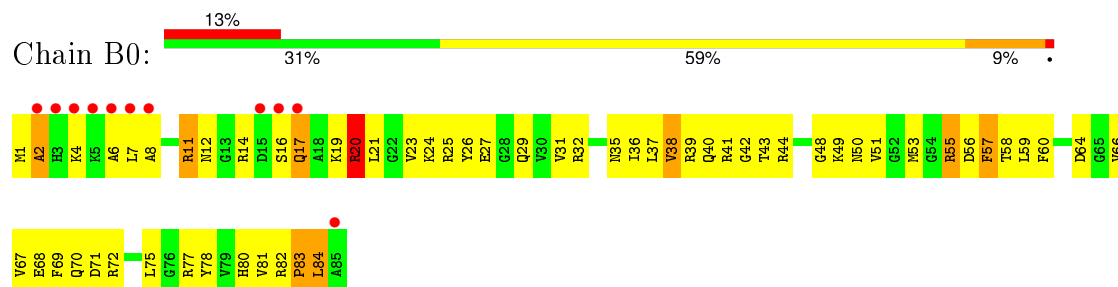


- Molecule 25: RIBOSOME RECYCLING FACTOR

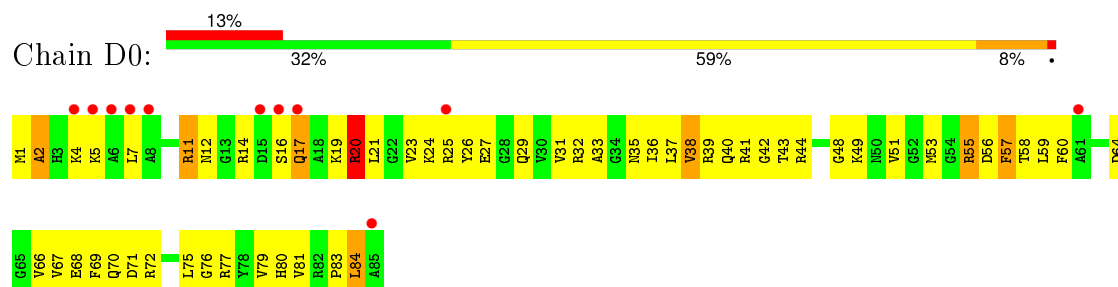


Q181  
E182  
L183  
L184  
G185

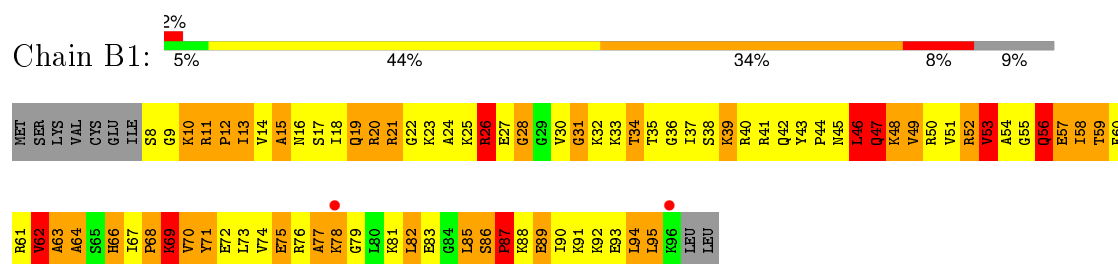
• Molecule 26: 50S RIBOSOMAL PROTEIN L27



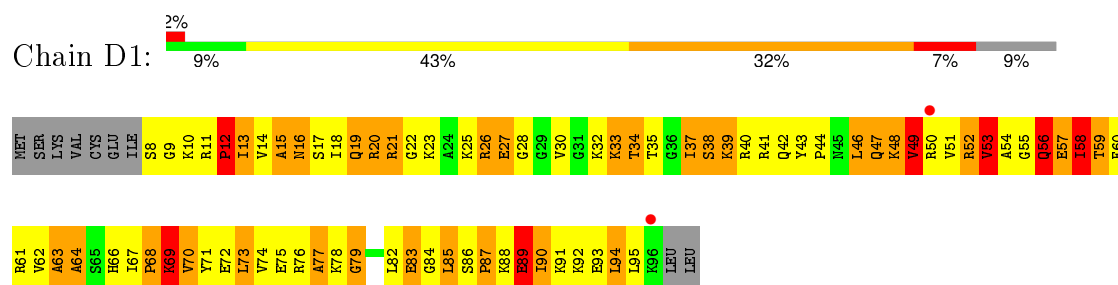
• Molecule 26: 50S RIBOSOMAL PROTEIN L27



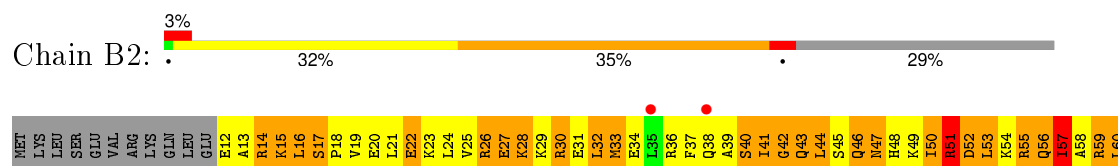
• Molecule 27: 50S RIBOSOMAL PROTEIN L28

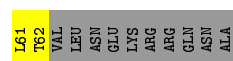


• Molecule 27: 50S RIBOSOMAL PROTEIN L28

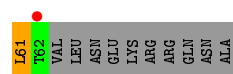
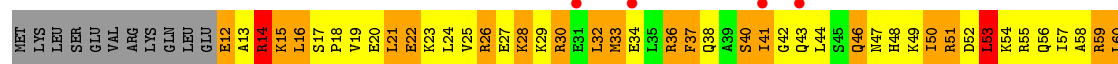


• Molecule 28: 50S RIBOSOMAL PROTEIN L29

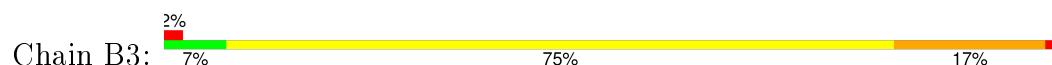




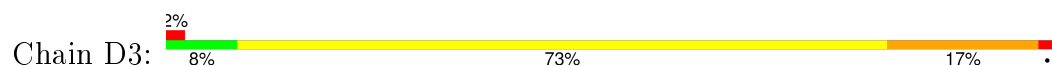
• Molecule 28: 50S RIBOSOMAL PROTEIN L29



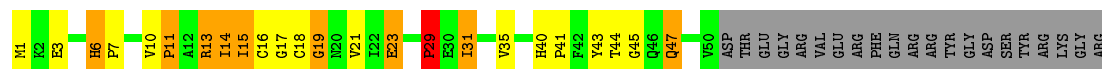
• Molecule 29: 50S RIBOSOMAL PROTEIN L30



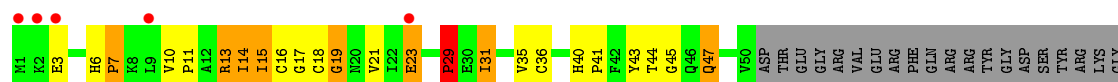
• Molecule 29: 50S RIBOSOMAL PROTEIN L30



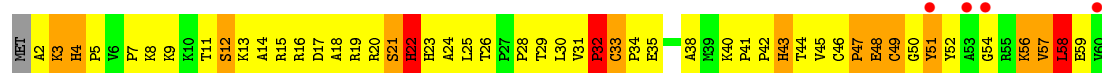
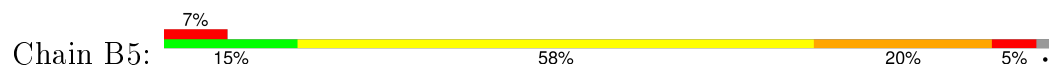
• Molecule 30: 50S RIBOSOMAL PROTEIN L31



• Molecule 30: 50S RIBOSOMAL PROTEIN L31

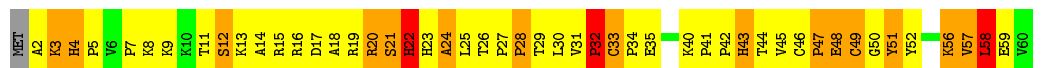


• Molecule 31: 50S RIBOSOMAL PROTEIN L32



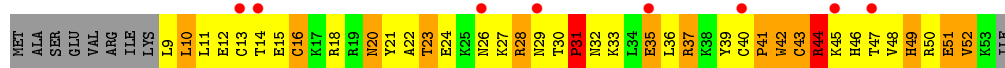
• Molecule 31: 50S RIBOSOMAL PROTEIN L32

Chain D5: 17% 52% 25% 5%



- Molecule 32: 50S RIBOSOMAL PROTEIN L33

Chain B6: 15% 11% 44% 24% 17%



- Molecule 32: 50S RIBOSOMAL PROTEIN L33

Chain D6: 26% 9% 46% 22% 6% 17%



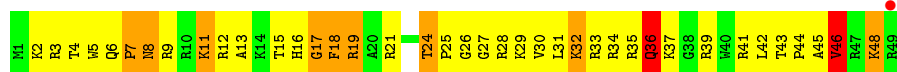
- Molecule 33: 50S RIBOSOMAL PROTEIN L34

Chain B7: 16% 59% 20%



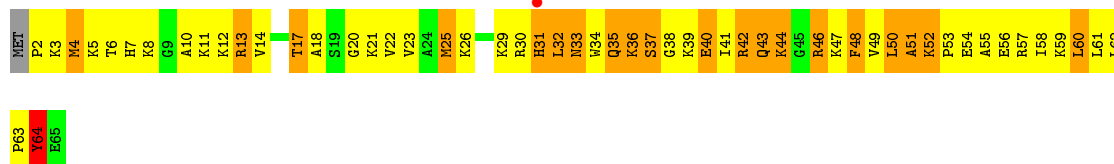
- Molecule 33: 50S RIBOSOMAL PROTEIN L34

Chain D7: 2% 20% 57% 18%



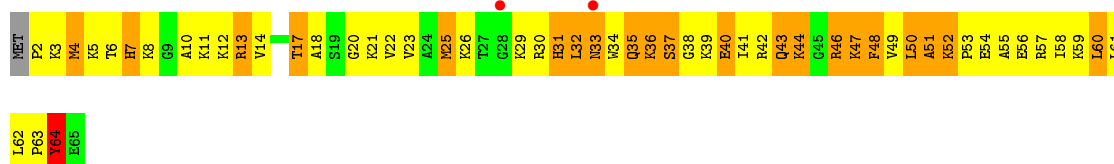
- Molecule 34: 50S RIBOSOMAL PROTEIN L35

Chain B8: 2% 14% 52% 31%

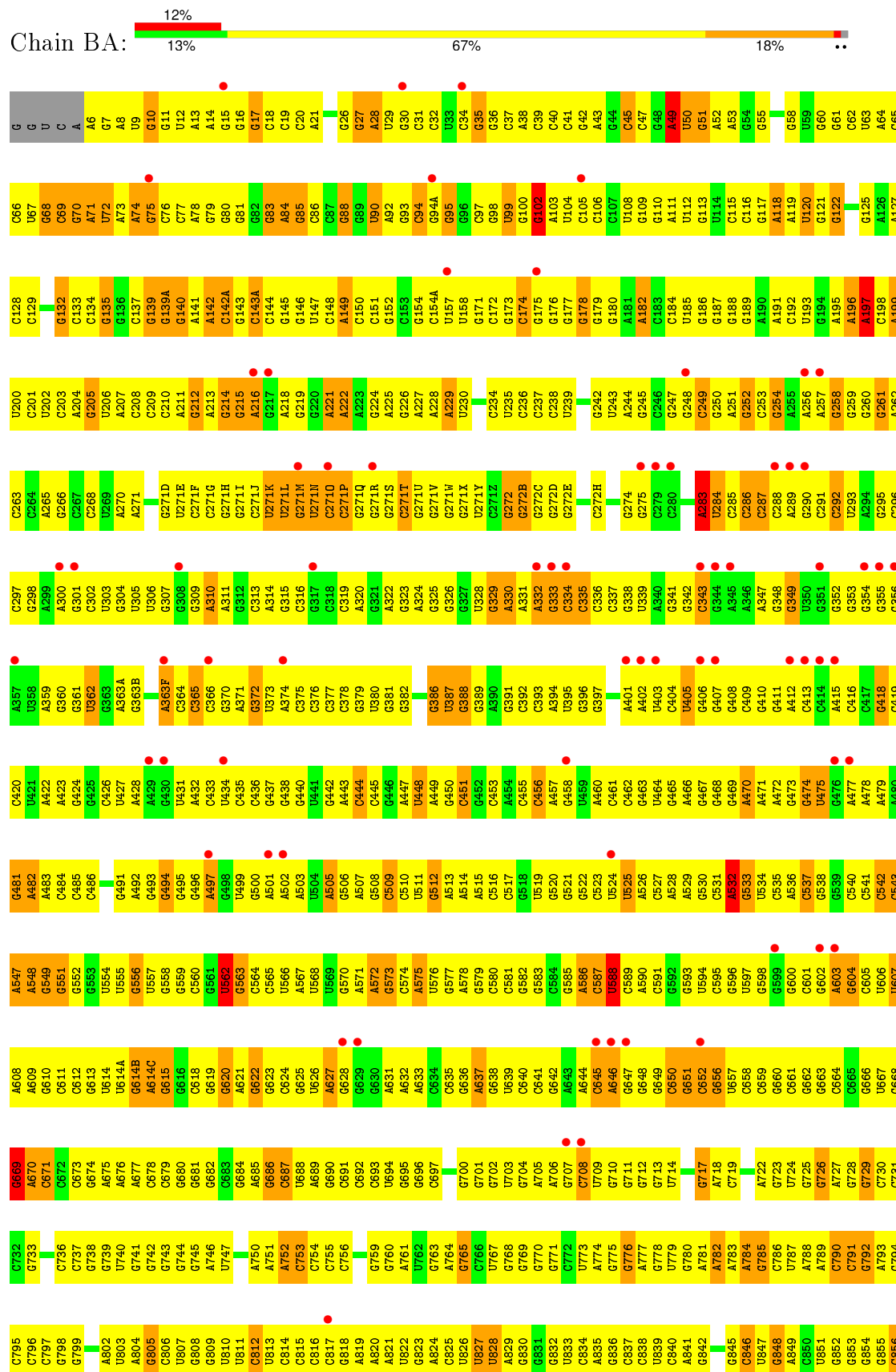


- Molecule 34: 50S RIBOSOMAL PROTEIN L35

Chain D8: 3% 14% 51% 32%

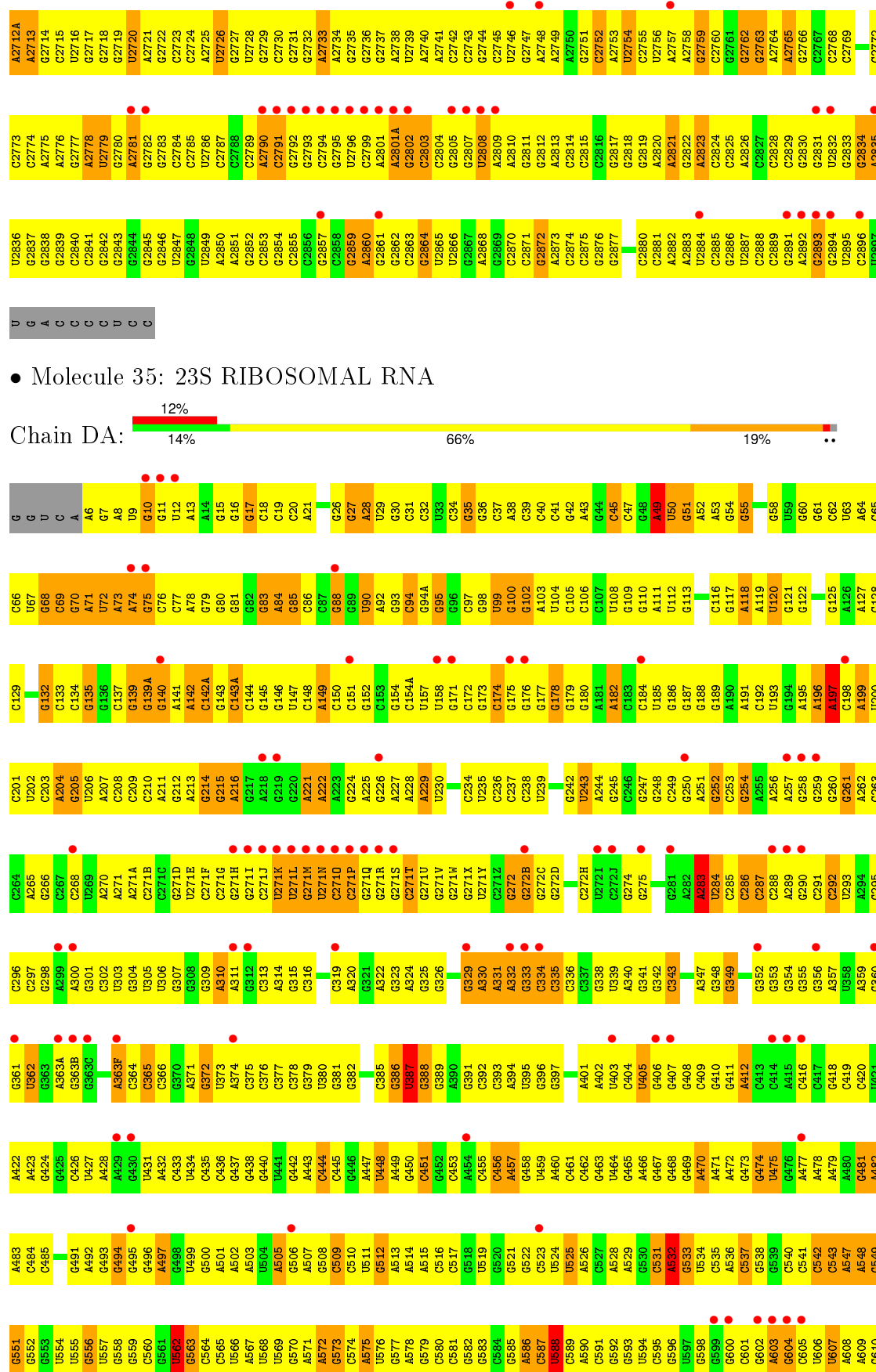


● Molecule 35: 23S RIBOSOMAL RNA



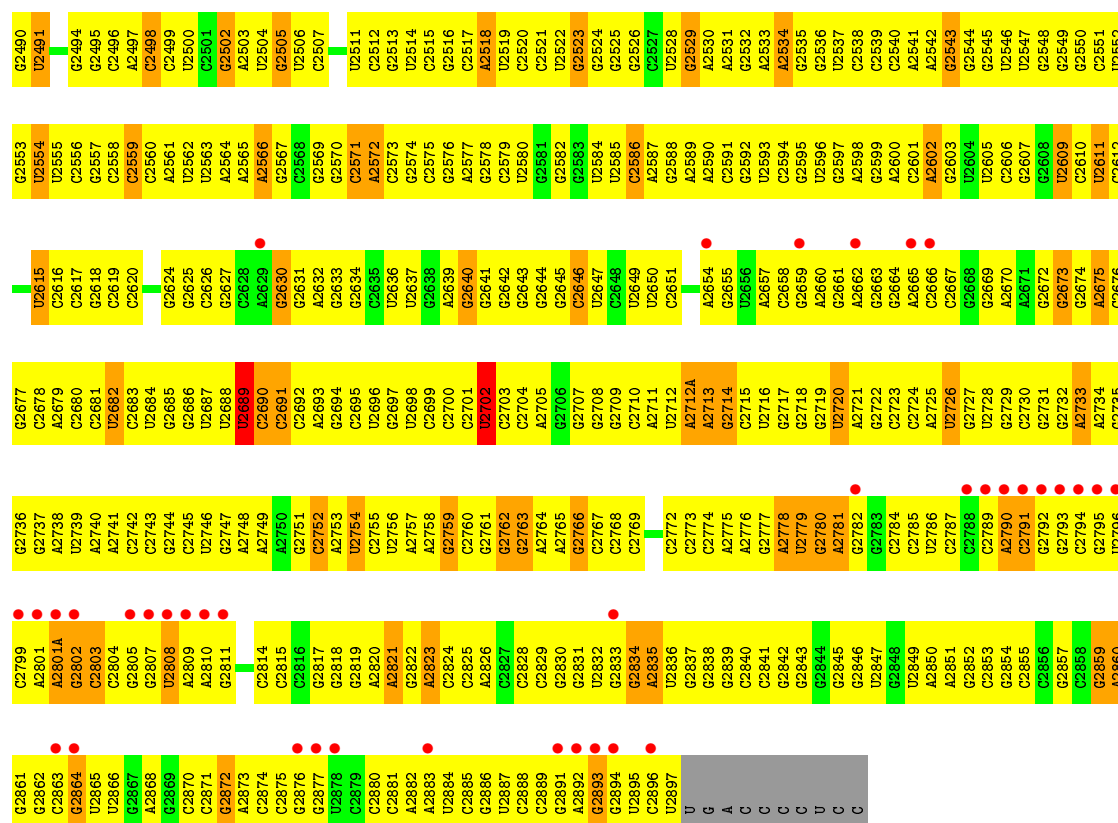
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G1721	C1858	C1599	A1529	C1467	C1408	G1347	G1285	G1224	G1163	A1048	A988	A926	G859
A1722	U1659	G1600	G1528	C1468	C1409	G1348	A1286	G1225	G1164	C1049	G989	G928	U860
U1739	C1660	C1601	C1530	A1469	G1410	A1349	A1287	G1226	U1165	A1050	A990	A861	A861
G1740	G1661	U1602	C1531	G1470	G1411	C1350	U1288	G1227	G1166	G1051	C991	G832	G862
A1741	C1662	A1603	G1532	A1471	A1412	C1351	U1289	G1228	U1167	C1052	C992	A833	A863
G1742	C1663	C1604	G1533	A1472	G1413	U1352	C1290	G1229	G1168	C1053	G993	G935	C864
C1743	A1665	G1605	C1543	A1473	G1414	A1353	C1291	G1230	G1169	A1106	C994	C936	C865
G1744	G1666	G1606	A1544	C1474	U1415	A1354	U1292	G1231	G1170	G1107	C995	U937	G866
C1745	G1666	C1607	A1545	G1475	G1416	A1355	C1293	G1232	G1171	U1108	A996	U937	A866
G1745A	G1667	C1546	G1476	G1478	G1417	G1356	U1294	U1233	G1172	G1109	G997	G938	G867
G1746	A1608	A1609	C1547	G1479	A1418	U1357	C1297	U1234	A1174	G1110	C998	G939	G869
G1747	A1609	A1610	C1548	G1479	A1419	G1358	C1298	A1237	U1175	A1111	G999	G940	A870
G1748	C1611	C1612	C1549	G1480	U1420	A1359	C1299	G1238	G1176	G1112	A1000	A941	A871
A1749	G1613	G1614	G1550	U1481	G1421	A1360	G1299	G1239	A1177	U1113	G1001	A942	G872
G1750	C1615	A1614	G1551	G1482	G1422	G1361	U1300	U1240	C1178	G1114	G1002	U943	G874
C1751	C1616	C1617	C1552	G1483	G1423	C1362	A1301	U1241	C1180	G1115	C1003	G944	G875
G1752	A1617	A1618	G1553	G1484	G1424	C1363	A1302	A1242	C1181	G1116	C1004	A945	C876
C1753	G1619	G1620	A1554	G1485	G1425	G1364	G1303	A1243	C1182	G1117	C1005	G946	U877
G1754	U1679	A1619	G1555	G1486	G1426	A1365	C1304	G1244	G1183	C1118	C1006	G947	A878
A1755	C1678	G1621	C1556	G1487	A1427	A1366	C1305	G1245	G1184	G1122	C1007	G948	G879
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G1763	C1687	G1628	C1564	A1496	G1435	G1374	C1315	G1253	G1192	G1131	C1016	G956	C894
G1764	U1688	G1629	G1565	G1497	G1436	C1375	U1316	A1254	G1193	G1132	G1017	U957	U895
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U1766	G1690	G1630	G1567	G1499	U1438	G1377	A1318	G1256	C1195	U1135	G1019	A959	C897
C1767	C1691	A1631	U1568	C1500	G1439	A1378	C1319	G1257	C1196	G1136	A1020	G961	C898
U1768	U1692	A1632	A1570	U1502	G1440	G1379	G1320	G1258	G1197	G1137	A1021	G962	A900
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A1772	G1694	A1634	A1572	C1504	G1442	C1381	A1322	G1260	U1199	G1139	U1023	C964	C902
G1773	C1695	G1635	U1573	C1505	G1443	C1382	U1323	C1261	G1200	G1140	G1024	G965	C903
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A1780	G1702	A1641	G1581	U1509B	G1449	G1388	U1329	U1267	C1146	C1147	G1030	C971	A909
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U1787	U1709	G1648	C1588	U1517	G1456	U1398	A1336	A1274	A1214	C1153	U1038	G978	G916
C1788	G1710	G1649	C1589	U1518	C1457	C1398	G1337	A1275	G1215	G1154	G1039	G979	A917
A1789	U1711	G1650	G1591	G1519	G1458	G1400	G1338	G1276	G1216	G1155	G1039	G979	A918
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A1791	U1713	A1652	G1593	U1523	G1461	C1402	U1341	G1278	G1218	G1157	G1042	A981	G920
G1792	C1714	G1653	G1594	U1524	C1462	C1403	A1342	G1279	G1219	C1158	C1043	C982	G921
C1793	G1717	A1654	C1595	G1525	C1463	C1404	G1343	G1280	C1221	U1159	G1044	A984	U922
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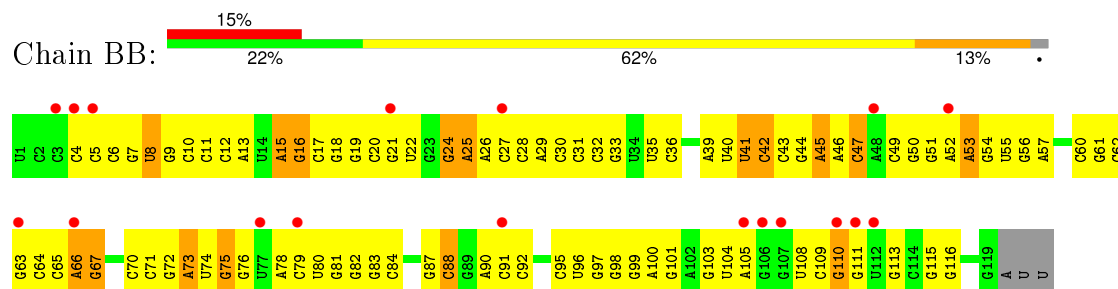


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G1491	U1431	A1367	A1307	G1245	C1118	C1006	G946	U877	C816	A627	A627
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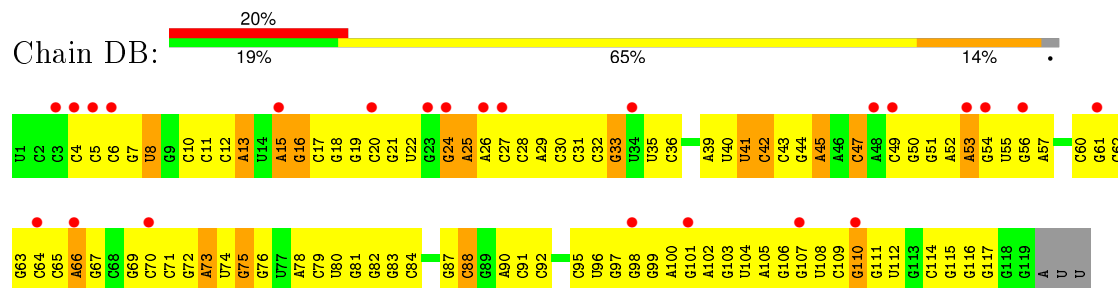
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• Molecule 36: 5S RIBOSOMAL RNA

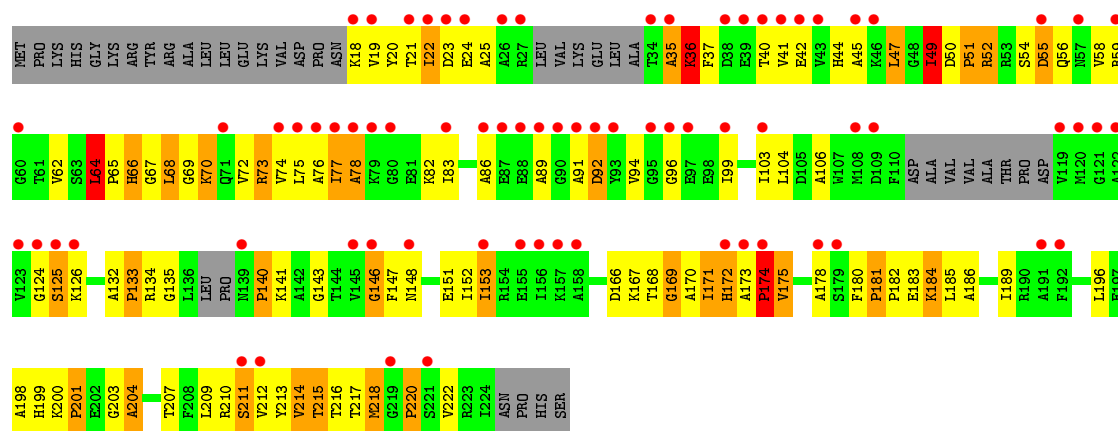


• Molecule 36: 5S RIBOSOMAL RNA

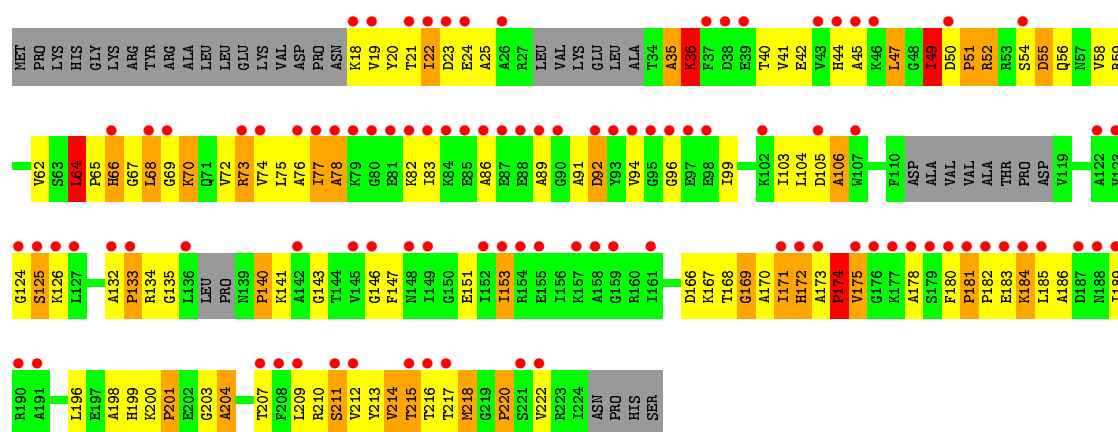


• Molecule 37: 50S RIBOSOMAL PROTEIN L1

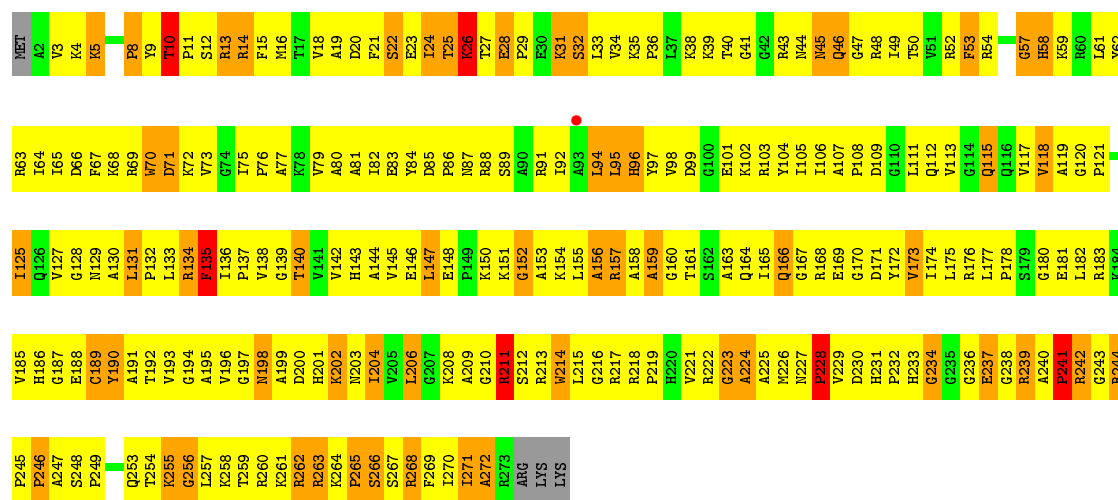
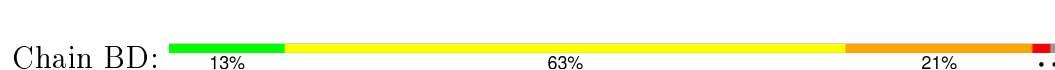




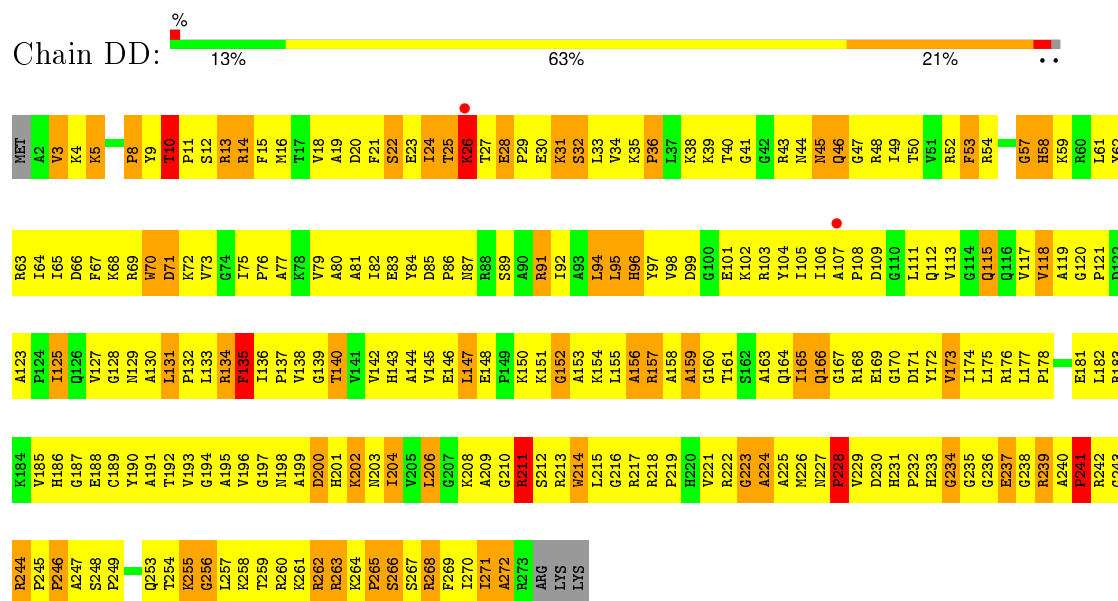
• Molecule 37: 50S RIBOSOMAL PROTEIN L1



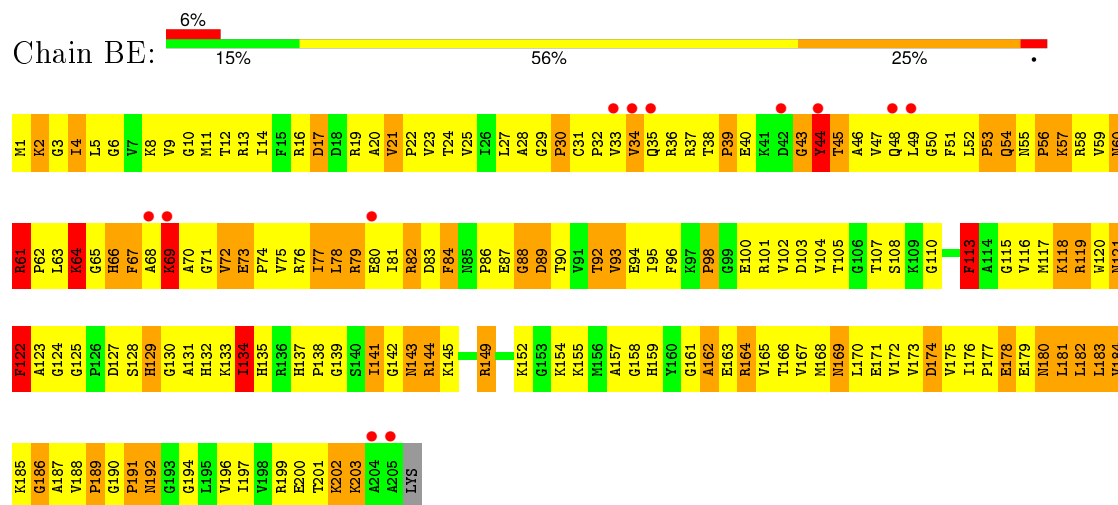
• Molecule 38: 50S RIBOSOMAL PROTEIN L2



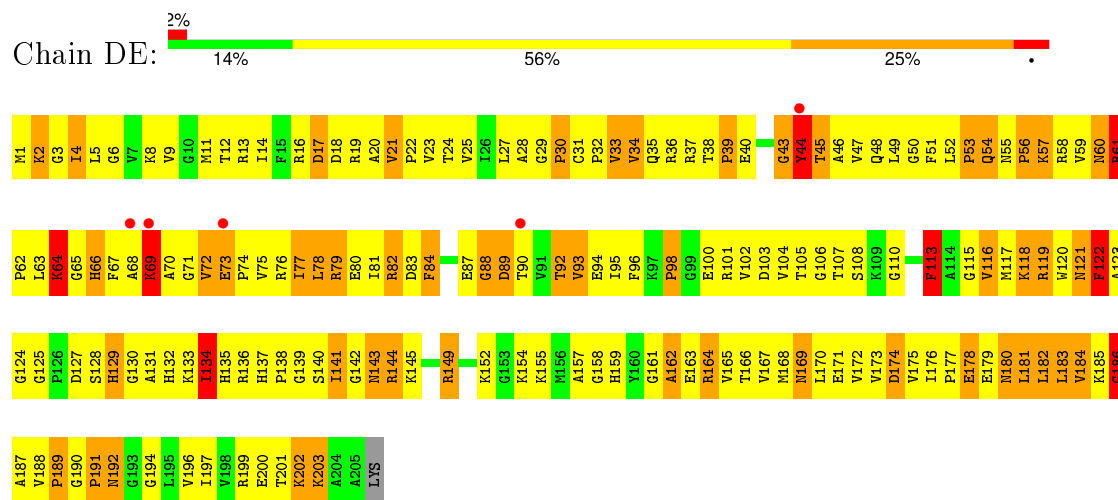
• Molecule 38: 50S RIBOSOMAL PROTEIN L2



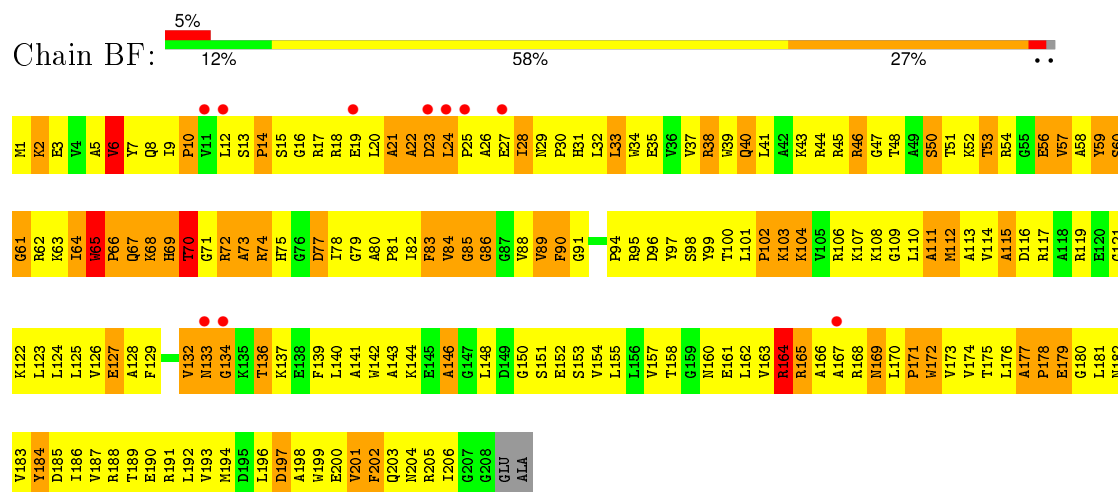
## ● Molecule 39: 50S RIBOSOMAL PROTEIN L3



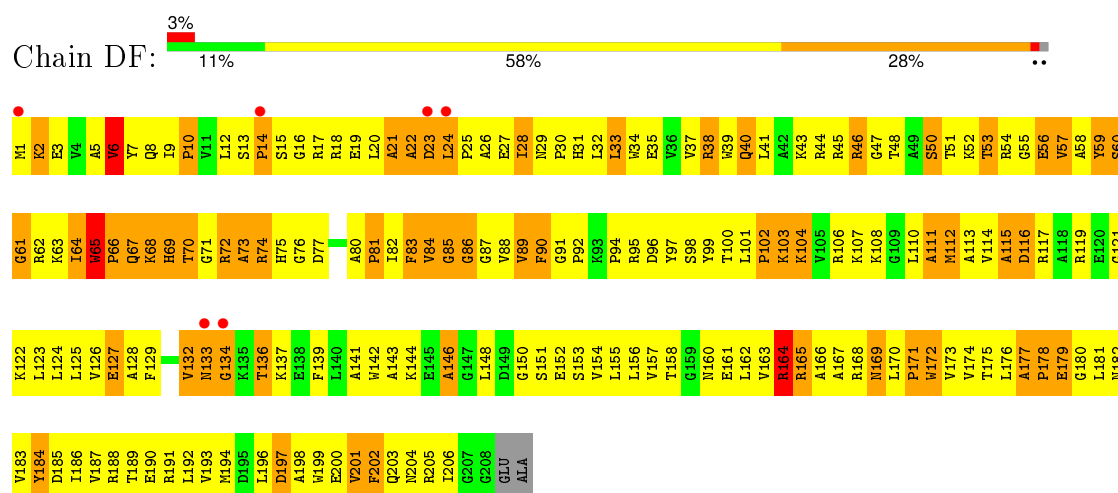
## ● Molecule 39: 50S RIBOSOMAL PROTEIN L3



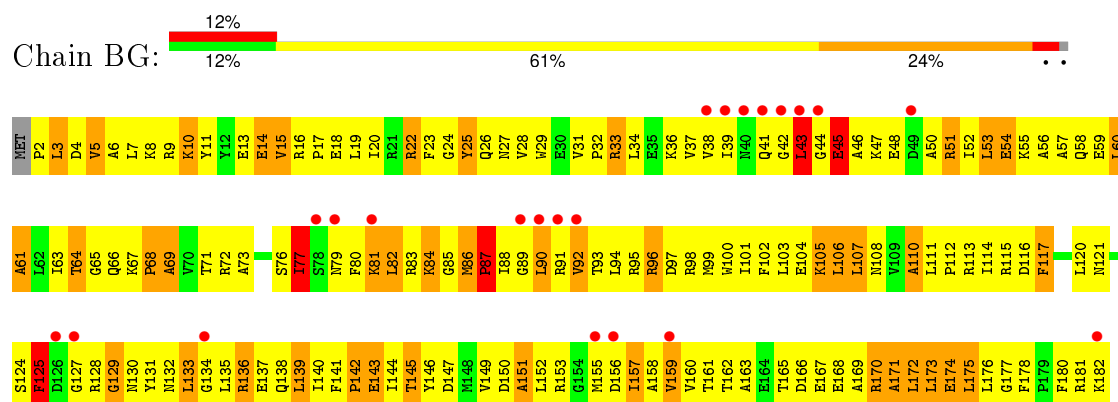
## ● Molecule 40: 50S RIBOSOMAL PROTEIN L4



## ● Molecule 40: 50S RIBOSOMAL PROTEIN L4

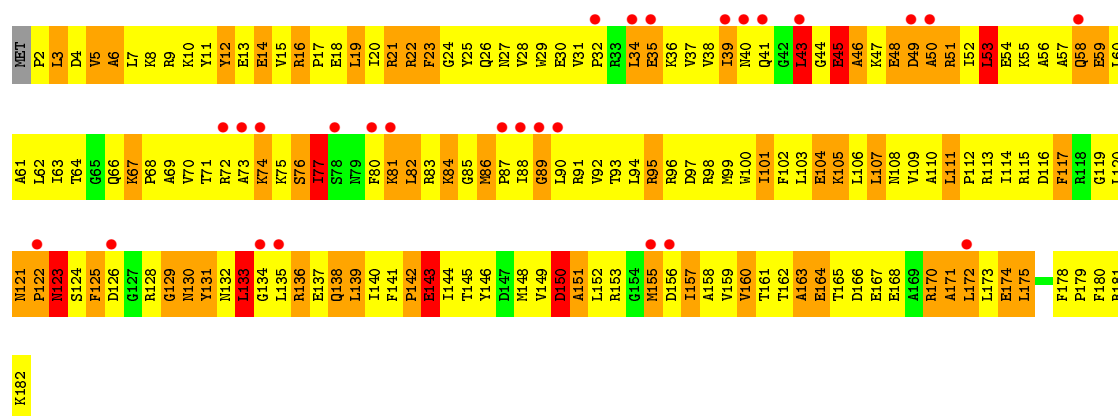


## ● Molecule 41: 50S RIBOSOMAL PROTEIN L5

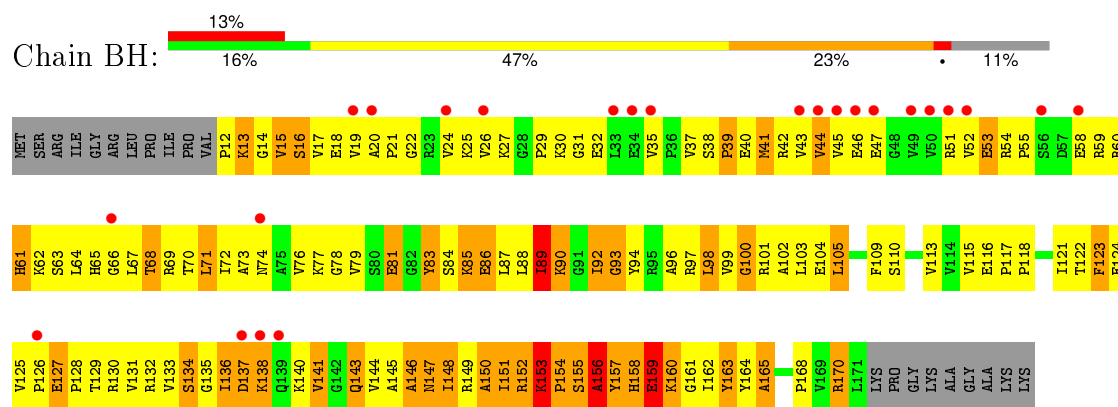


## ● Molecule 41: 50S RIBOSOMAL PROTEIN L5

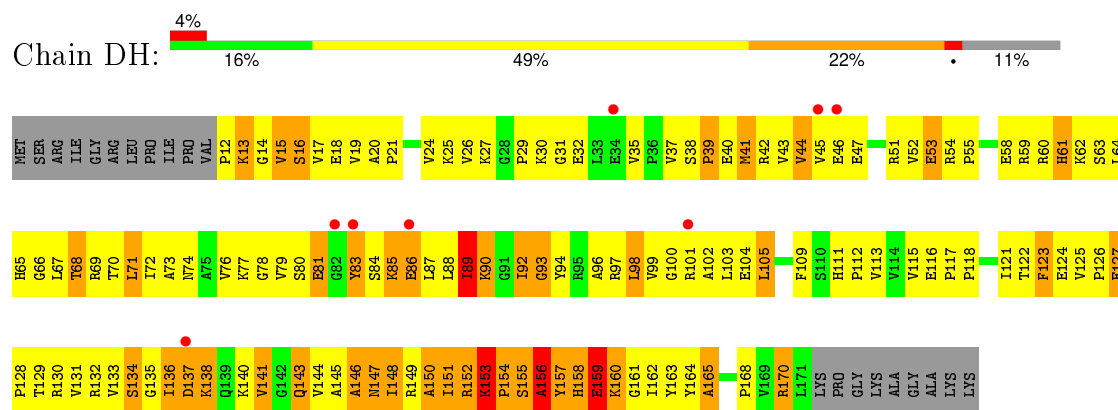




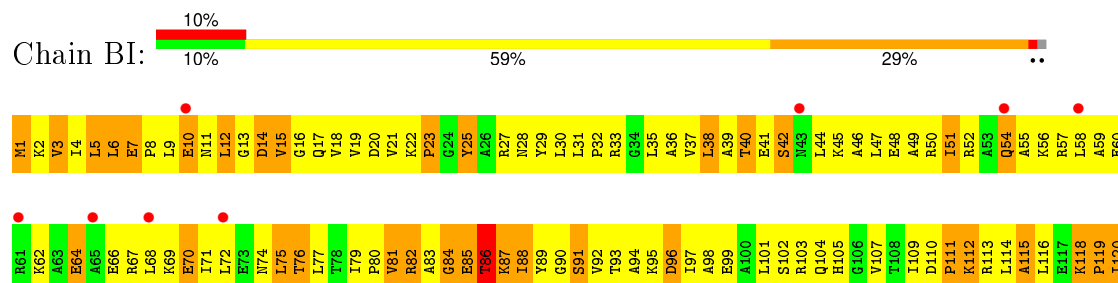
• Molecule 42: 50S RIBOSOMAL PROTEIN L6

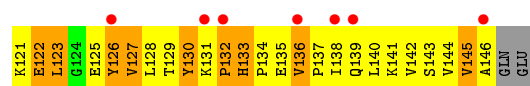


• Molecule 42: 50S RIBOSOMAL PROTEIN L6

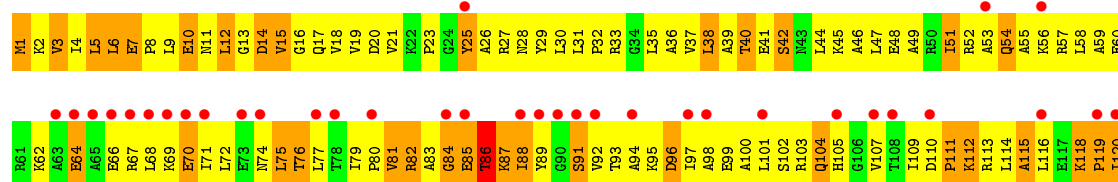
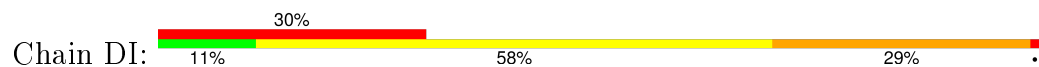


• Molecule 43: 50S RIBOSOMAL PROTEIN L9

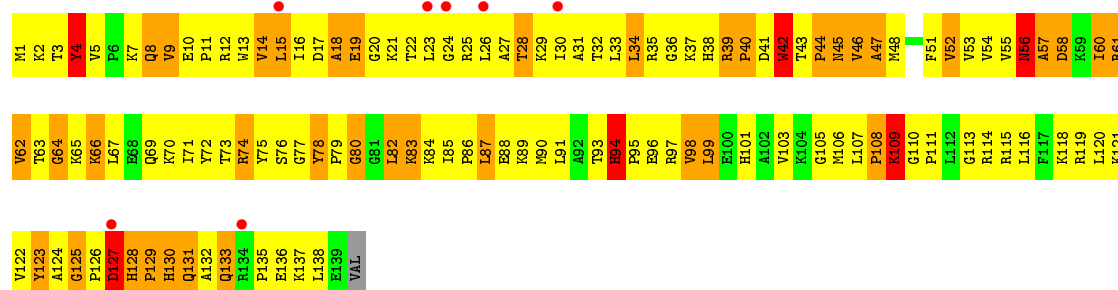
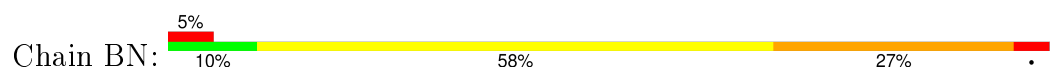




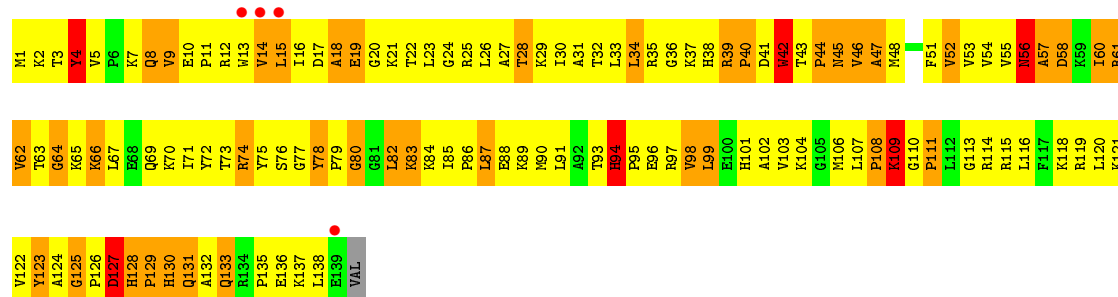
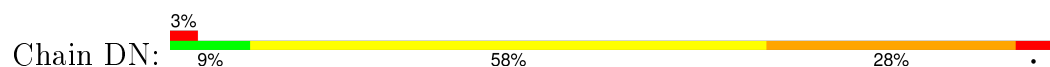
• Molecule 43: 50S RIBOSOMAL PROTEIN L9



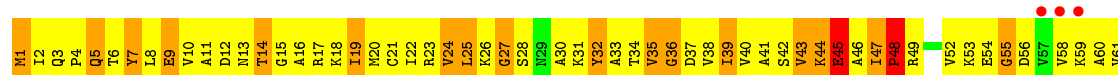
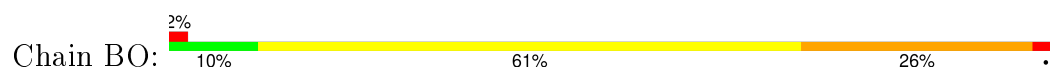
• Molecule 44: 50S RIBOSOMAL PROTEIN L13



• Molecule 44: 50S RIBOSOMAL PROTEIN L13

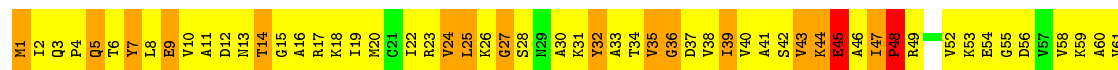
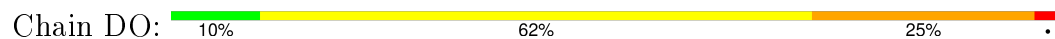


• Molecule 45: 50S RIBOSOMAL PROTEIN L14

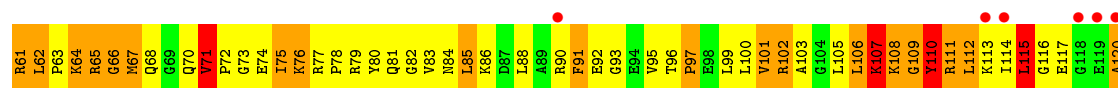




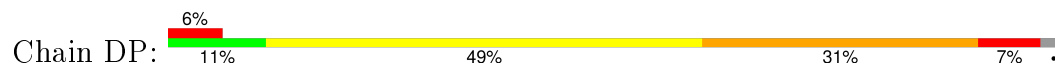
• Molecule 45: 50S RIBOSOMAL PROTEIN L14



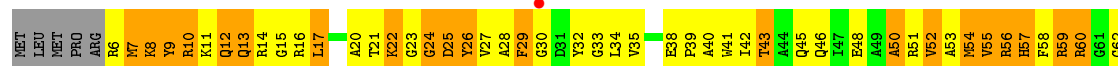
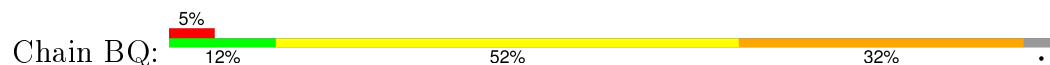
• Molecule 46: 50S RIBOSOMAL PROTEIN L15



• Molecule 46: 50S RIBOSOMAL PROTEIN L15

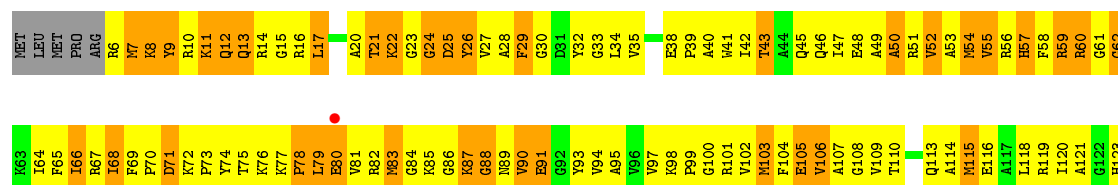
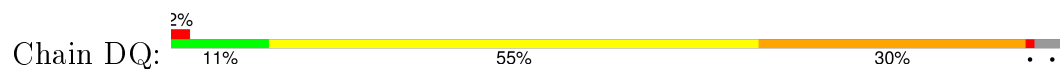


• Molecule 47: 50S RIBOSOMAL PROTEIN L16





## ● Molecule 47: 50S RIBOSOMAL PROTEIN L16



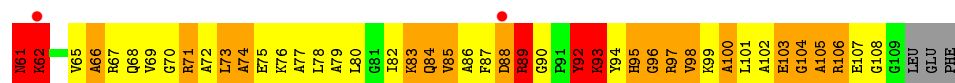
## ● Molecule 48: 50S RIBOSOMAL PROTEIN L17



## ● Molecule 48: 50S RIBOSOMAL PROTEIN L17

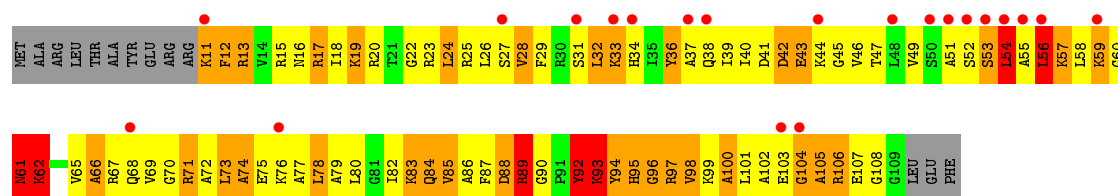


## ● Molecule 49: 50S RIBOSOMAL PROTEIN L18

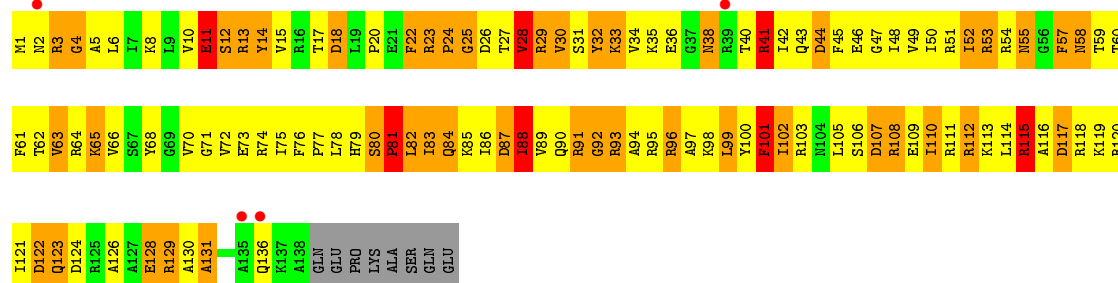
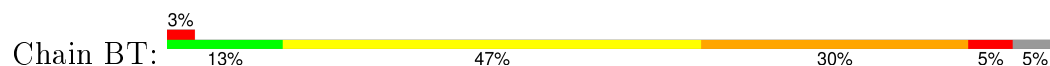


## ● Molecule 49: 50S RIBOSOMAL PROTEIN L18

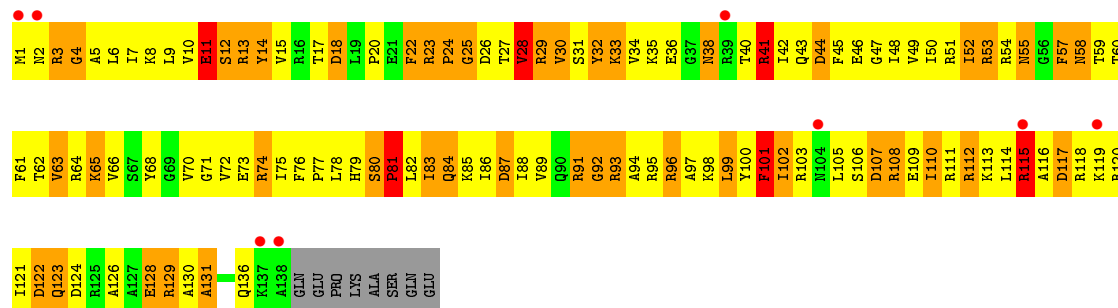
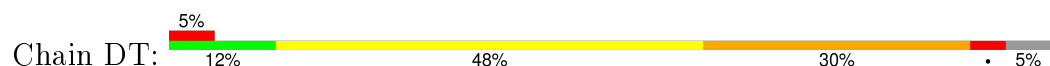




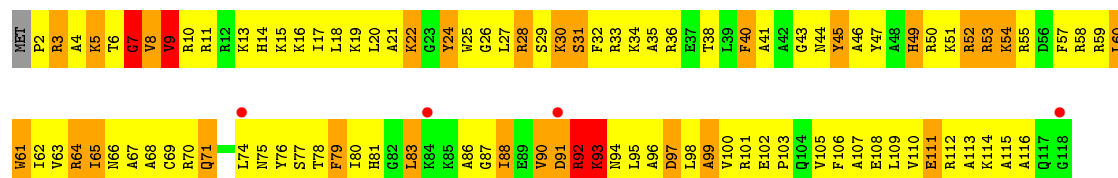
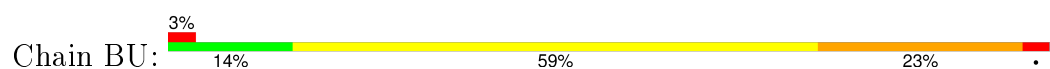
• Molecule 50: 50S RIBOSOMAL PROTEIN L19



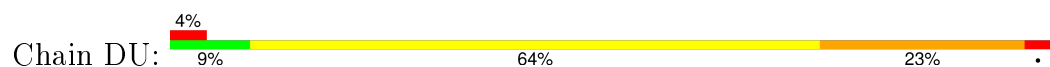
• Molecule 50: 50S RIBOSOMAL PROTEIN L19



• Molecule 51: 50S RIBOSOMAL PROTEIN L20

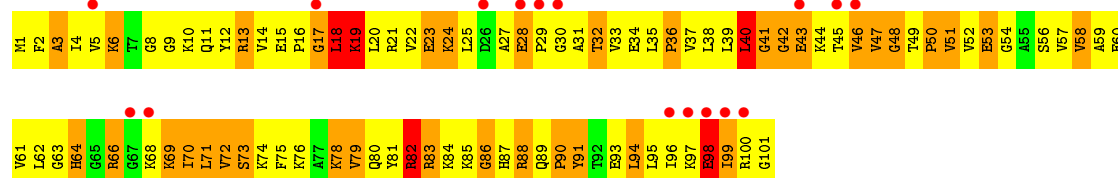


• Molecule 51: 50S RIBOSOMAL PROTEIN L20

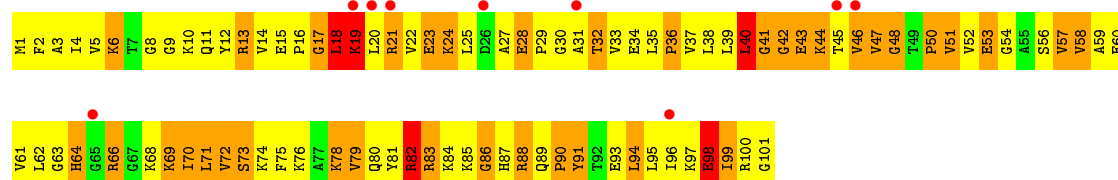




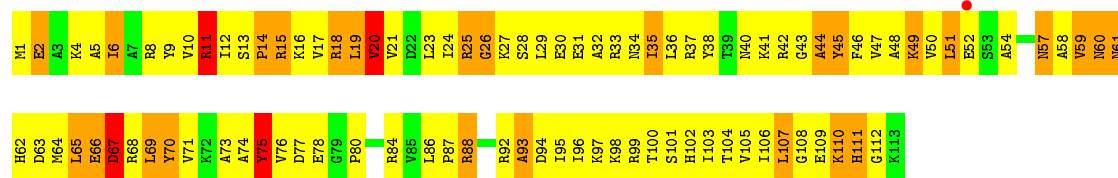
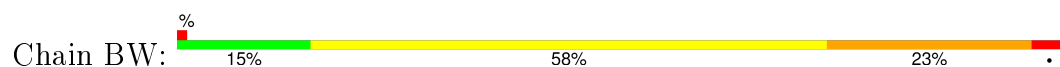
• Molecule 52: 50S RIBOSOMAL PROTEIN L21



• Molecule 52: 50S RIBOSOMAL PROTEIN L21



• Molecule 53: 50S RIBOSOMAL PROTEIN L22



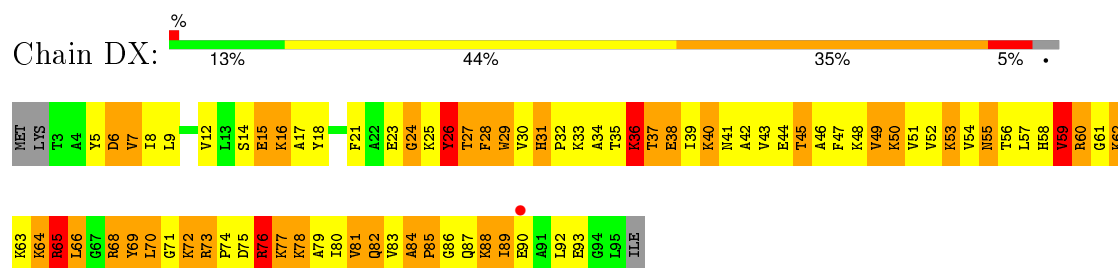
• Molecule 53: 50S RIBOSOMAL PROTEIN L22



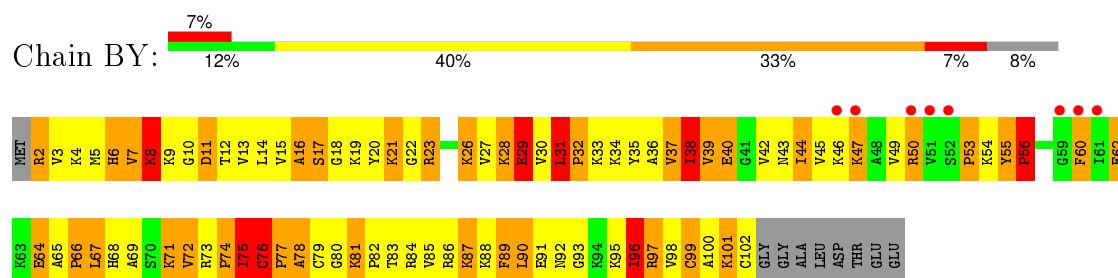
• Molecule 54: 50S RIBOSOMAL PROTEIN L23



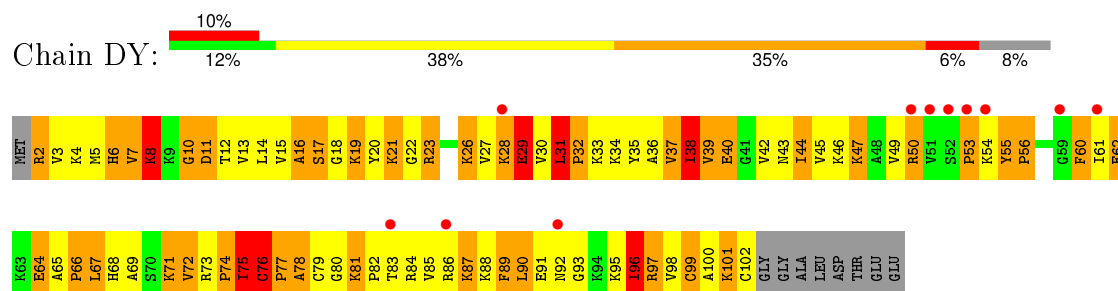
- Molecule 54: 50S RIBOSOMAL PROTEIN L23



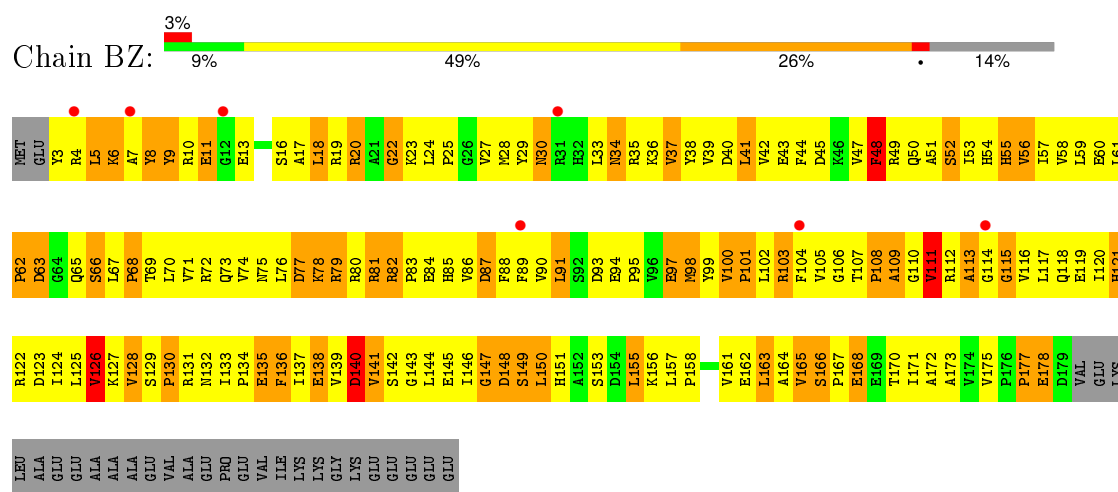
● Molecule 55: 50S RIBOSOMAL PROTEIN L24



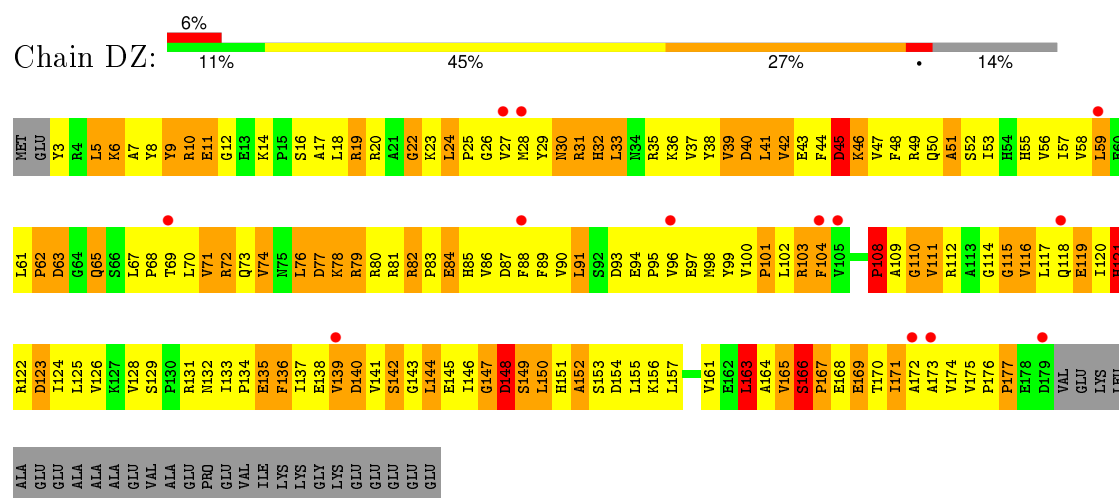
● Molecule 55: 50S RIBOSOMAL PROTEIN L24



- Molecule 56: 50S RIBOSOMAL PROTEIN L25



- Molecule 56: 50S RIBOSOMAL PROTEIN L25



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	212.41Å 450.11Å 630.54Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	20.00 – 3.50 49.89 – 3.50	Depositor EDS
% Data completeness (in resolution range)	98.9 (20.00-3.50) 98.9 (49.89-3.50)	Depositor EDS
$R_{merge}$	0.30	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.30 (at 3.48Å)	Xtriage
Refinement program	CNS 1.2	Depositor
R, $R_{free}$	0.265 , 0.326 0.266 , 0.327	Depositor DCC
$R_{free}$ test set	33921 reflections (4.80%)	DCC
Wilson B-factor (Å <sup>2</sup> )	81.4	Xtriage
Anisotropy	0.101	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.21 , 93.8	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.33$ , $\langle L^2 \rangle = 0.16$	Xtriage
Outliers	0 of 744195 reflections	Xtriage
$F_o, F_c$ correlation	0.81	EDS
Total number of atoms	290487	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	88.0	wwPDB-VP

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

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

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

## 5 Model quality ⓘ

### 5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: 5MU, ZN, MG

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with  $|Z| > 5$  is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
17	AQ	0.41	0/837	0.71	0/1119
17	CQ	0.40	0/837	0.71	0/1119
18	AR	0.39	0/579	0.72	0/768
18	CR	0.41	0/579	0.73	0/768
19	AS	0.36	0/643	0.61	0/867
19	CS	0.36	0/643	0.60	0/867
20	AT	0.34	0/765	0.69	0/1007
20	CT	0.33	0/765	0.69	0/1007
21	AU	0.44	0/213	0.64	0/279
21	CU	0.42	0/213	0.63	0/279
22	AV	0.66	0/405	0.77	0/630
22	CV	0.61	0/405	0.77	1/630 (0.2%)
23	AW	0.43	0/1810	0.73	0/2821
23	CW	0.46	0/1810	0.72	0/2821
24	AX	0.70	0/256	0.93	0/397
24	CX	0.68	0/256	0.91	0/397
25	AY	0.40	0/1497	0.71	0/2017
25	CY	0.44	0/1497	0.72	0/2017
26	B0	0.39	0/660	0.64	0/882
26	D0	0.40	0/660	0.64	0/882
27	B1	0.57	0/700	1.00	1/931 (0.1%)
27	D1	0.55	0/700	0.96	3/931 (0.3%)
28	B2	0.49	0/423	0.97	2/560 (0.4%)
28	D2	0.52	0/423	0.91	1/560 (0.2%)
29	B3	0.39	0/473	0.68	0/636
29	D3	0.40	0/473	0.68	0/636
30	B4	0.43	0/241	0.80	3/334 (0.9%)
30	D4	0.44	0/241	0.80	4/334 (1.2%)
31	B5	0.37	0/473	0.69	0/639
31	D5	0.38	0/473	0.71	0/639
32	B6	0.45	0/387	0.63	0/517
32	D6	0.42	0/387	0.63	0/517
33	B7	0.53	0/427	0.83	0/563
33	D7	0.53	0/427	0.84	1/563 (0.2%)
34	B8	0.51	0/516	0.89	1/681 (0.1%)
34	D8	0.49	0/516	0.88	1/681 (0.1%)
35	BA	0.57	2/66757 (0.0%)	0.76	19/104221 (0.0%)
35	DA	0.61	3/66757 (0.0%)	0.76	19/104221 (0.0%)
36	BB	0.40	0/2853	0.70	0/4451
36	DB	0.39	0/2853	0.70	0/4451
37	BC	0.36	0/1145	0.68	7/1556 (0.4%)
37	DC	0.36	0/1146	0.68	7/1558 (0.4%)
38	BD	0.47	0/2155	0.84	2/2907 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
38	DD	0.49	0/2155	0.84	2/2907 (0.1%)
39	BE	0.44	0/1597	0.78	1/2155 (0.0%)
39	DE	0.47	0/1597	0.79	1/2155 (0.0%)
40	BF	0.46	1/1659 (0.1%)	0.72	0/2246
40	DF	0.46	1/1659 (0.1%)	0.72	0/2246
41	BG	0.39	0/1498	0.76	2/2013 (0.1%)
41	DG	0.38	0/1498	0.76	0/2013
42	BH	0.37	0/1246	0.72	1/1684 (0.1%)
42	DH	0.40	0/1246	0.73	1/1684 (0.1%)
43	BI	0.39	0/1147	0.72	0/1553
43	DI	0.40	0/1147	0.71	0/1553
44	BN	0.40	0/1132	0.74	0/1527
44	DN	0.45	0/1132	0.75	0/1527
45	BO	0.47	0/943	0.78	0/1269
45	DO	0.49	0/943	0.80	0/1269
46	BP	0.42	0/1131	0.94	5/1504 (0.3%)
46	DP	0.40	0/1131	0.94	5/1504 (0.3%)
47	BQ	0.41	0/1100	0.76	0/1470
47	DQ	0.42	0/1100	0.78	0/1470
48	BR	0.39	0/974	0.75	0/1302
48	DR	0.42	0/974	0.77	0/1302
49	BS	0.42	0/779	0.71	0/1038
49	DS	0.39	0/779	0.70	0/1038
50	BT	0.44	0/1156	0.77	1/1544 (0.1%)
50	DT	0.45	0/1156	0.77	1/1544 (0.1%)
51	BU	0.40	0/975	0.75	1/1297 (0.1%)
51	DU	0.46	0/975	0.77	1/1297 (0.1%)
52	BV	0.41	0/789	0.74	1/1054 (0.1%)
52	DV	0.42	0/789	0.75	1/1054 (0.1%)
53	BW	0.42	0/907	0.67	0/1216
53	DW	0.42	0/907	0.66	0/1216
54	BX	0.47	0/740	0.88	2/995 (0.2%)
54	DX	0.47	0/740	0.89	2/995 (0.2%)
55	BY	0.43	0/789	0.78	0/1053
55	DY	0.44	0/789	0.77	0/1053
56	BZ	0.40	0/1436	0.74	0/1951
56	DZ	0.40	0/1436	0.77	1/1951 (0.1%)
All	All	0.51	7/313639 (0.0%)	0.74	117/468340 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	AA	0	17
1	CA	0	20
22	CV	0	2
23	AW	0	1
24	AX	0	3
35	BA	1	69
35	DA	1	63
All	All	2	175

All (7) bond length outliers are listed below:

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

All (117) bond angle outliers are listed below:

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

*Continued on next page...*

*Continued from previous page...*

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

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

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

All (2) chirality outliers are listed below:

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

All (175) planarity outliers are listed below:

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

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

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

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

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

## 5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AA	32329	0	16313	2049	0
1	CA	32329	0	16314	2039	0
2	AB	1901	0	1951	382	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	CB	1901	0	1951	378	0
3	AC	1613	0	1677	256	0
3	CC	1613	0	1677	246	0
4	AD	1703	0	1763	346	0
4	CD	1703	0	1764	336	0
5	AE	1147	0	1207	211	0
5	CE	1147	0	1207	202	0
6	AF	843	0	857	151	0
6	CF	843	0	857	157	0
7	AG	1257	0	1296	235	0
7	CG	1257	0	1296	216	0
8	AH	1116	0	1177	231	0
8	CH	1116	0	1177	233	0
9	AI	1011	0	1041	208	0
9	CI	1011	0	1041	209	0
10	AJ	795	0	840	153	0
10	CJ	795	0	840	154	0
11	AK	885	0	904	179	0
11	CK	885	0	904	180	0
12	AL	971	0	1057	210	0
12	CL	971	0	1057	196	0
13	AM	988	0	1055	163	0
13	CM	988	0	1055	156	0
14	AN	492	0	529	95	0
14	CN	492	0	530	89	0
15	AO	734	0	771	111	0
15	CO	734	0	771	117	0
16	AP	701	0	720	157	0
16	CP	701	0	720	146	0
17	AQ	824	0	891	140	0
17	CQ	824	0	891	138	0
18	AR	574	0	644	138	0
18	CR	574	0	644	133	0
19	AS	630	0	652	139	0
19	CS	630	0	652	138	0
20	AT	763	0	861	133	0
20	CT	763	0	861	125	0
21	AU	209	0	221	30	0
21	CU	209	0	221	28	0
22	AV	362	0	186	23	0
22	CV	362	0	186	20	0
23	AW	1641	0	836	105	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
23	CW	1641	0	839	72	0
24	AX	230	0	118	12	0
24	CX	230	0	117	16	0
25	AY	1478	0	1526	283	0
25	CY	1478	0	1526	303	0
26	B0	652	0	658	102	0
26	D0	652	0	658	87	0
27	B1	693	0	764	248	0
27	D1	693	0	763	241	0
28	B2	421	0	461	118	0
28	D2	421	0	461	146	0
29	B3	468	0	523	86	0
29	D3	468	0	523	82	0
30	B4	242	0	103	14	0
30	D4	242	0	103	10	0
31	B5	459	0	480	103	0
31	D5	459	0	480	107	0
32	B6	381	0	390	69	0
32	D6	381	0	390	72	0
33	B7	419	0	467	75	0
33	D7	419	0	467	72	0
34	B8	508	0	576	154	0
34	D8	508	0	576	143	0
35	BA	59601	0	30029	3753	1
35	DA	59601	0	30026	3760	0
36	BB	2551	0	1294	137	1
36	DB	2551	0	1294	155	0
37	BC	1142	0	861	85	0
37	DC	1143	0	865	78	0
38	BD	2105	0	2182	497	0
38	DD	2105	0	2182	503	0
39	BE	1564	0	1629	382	0
39	DE	1564	0	1629	393	0
40	BF	1624	0	1677	349	0
40	DF	1624	0	1676	353	0
41	BG	1474	0	1534	336	0
41	DG	1474	0	1534	441	0
42	BH	1223	0	1282	242	0
42	DH	1223	0	1282	245	0
43	BI	1132	0	1218	227	0
43	DI	1132	0	1218	225	0
44	BN	1105	0	1180	277	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
44	DN	1105	0	1180	291	0
45	BO	933	0	996	234	0
45	DO	933	0	996	237	0
46	BP	1114	0	1187	382	0
46	DP	1114	0	1187	378	0
47	BQ	1080	0	1127	274	0
47	DQ	1080	0	1127	259	0
48	BR	960	0	1021	221	0
48	DR	960	0	1021	220	0
49	BS	771	0	832	201	0
49	DS	771	0	832	207	0
50	BT	1142	0	1202	320	0
50	DT	1142	0	1202	325	0
51	BU	958	0	1014	245	0
51	DU	958	0	1014	256	0
52	BV	779	0	851	231	0
52	DV	779	0	851	234	0
53	BW	896	0	953	174	0
53	DW	896	0	953	164	0
54	BX	726	0	778	251	0
54	DX	726	0	777	252	0
55	BY	776	0	870	205	0
55	DY	776	0	870	208	0
56	BZ	1404	0	1432	353	0
56	DZ	1404	0	1432	318	0
57	AA	204	0	0	0	0
57	AD	2	0	0	0	0
57	AE	2	0	0	0	0
57	AG	1	0	0	0	0
57	AK	1	0	0	0	0
57	AL	2	0	0	0	0
57	AM	1	0	0	0	0
57	AV	4	0	0	0	0
57	AW	23	0	0	0	0
57	AX	5	0	0	0	0
57	B1	4	0	0	0	0
57	B2	2	0	0	0	0
57	B3	1	0	0	0	0
57	B5	2	0	0	0	0
57	B7	1	0	0	0	0
57	BA	445	0	0	1	0
57	BB	20	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
57	BD	3	0	0	0	0
57	BE	1	0	0	0	0
57	BF	4	0	0	0	0
57	BG	1	0	0	0	0
57	BN	4	0	0	0	0
57	BO	1	0	0	0	0
57	BP	3	0	0	0	0
57	BU	2	0	0	1	0
57	BX	2	0	0	0	0
57	CA	208	0	0	0	0
57	CE	3	0	0	0	0
57	CG	1	0	0	0	0
57	CL	2	0	0	0	0
57	CN	1	0	0	0	0
57	CV	4	0	0	0	0
57	CW	23	0	0	0	0
57	CX	4	0	0	0	0
57	D1	4	0	0	0	0
57	D2	2	0	0	0	0
57	D3	1	0	0	0	0
57	D5	1	0	0	0	0
57	D7	1	0	0	0	0
57	DA	441	0	0	0	0
57	DB	19	0	0	0	0
57	DD	3	0	0	0	0
57	DE	2	0	0	0	0
57	DF	5	0	0	0	0
57	DG	1	0	0	0	0
57	DH	1	0	0	0	0
57	DN	2	0	0	0	0
57	DP	4	0	0	0	0
57	DS	1	0	0	0	0
57	DU	3	0	0	0	0
57	DV	1	0	0	0	0
57	DX	3	0	0	0	0
58	AD	1	0	0	0	0
58	AN	1	0	0	0	0
58	CD	1	0	0	0	0
58	CN	1	0	0	0	0
All	All	290487	0	197331	30328	1

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 62.

All (30328) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BW:29:LEU:HD21	53:BW:33:ARG:HE	1.07	1.20
55:DY:45:VAL:HA	55:DY:62:GLU:HG2	1.20	1.20
35:DA:2758:A:H2'	35:DA:2759:G:H5''	1.25	1.19
1:CA:1442(A):G:H3'	1:CA:1442(B):A:H5''	1.22	1.18
43:BI:91:SER:HB2	43:BI:119:PRO:HB2	1.21	1.18
1:CA:979:C:H3'	1:CA:980:C:H5''	1.22	1.18
53:DW:29:LEU:HD21	53:DW:33:ARG:HE	1.08	1.17
41:DG:5:VAL:HG12	41:DG:6:ALA:H	1.07	1.17
38:BD:27:THR:HG23	38:BD:28:GLU:H	1.09	1.17
1:CA:1397:C:H42	24:CX:22:U:H3'	1.02	1.16
35:DA:1798:U:H5'	38:DD:259:THR:HG22	1.16	1.16
16:CP:20:VAL:HG21	16:CP:32:TYR:HB2	1.27	1.16
35:BA:2758:A:H2'	35:BA:2759:G:H5''	1.26	1.15
41:DG:111:LEU:HB2	41:DG:112:PRO:HD3	1.25	1.15
38:BD:8:PRO:HB3	38:BD:14:ARG:HD3	1.26	1.15
1:CA:1123:A:H4'	10:CJ:36:GLY:HA3	1.24	1.14
34:B8:46:ARG:HB3	34:B8:46:ARG:HH11	1.03	1.14
47:DQ:39:PRO:HB3	47:DQ:99:PRO:HD3	1.20	1.14
50:BT:80:SER:HB3	50:BT:81:PRO:CD	1.78	1.13
16:AP:20:VAL:HG21	16:AP:32:TYR:HB2	1.26	1.13
36:BB:74:U:H2'	36:BB:75:G:H5''	1.27	1.13
35:DA:2491:U:H5'	35:DA:2570:G:H5''	1.30	1.13
35:BA:2893:G:H5'	35:BA:2894:G:H5'	1.23	1.13
1:AA:1189:C:H5''	3:AC:5:ILE:HG21	1.30	1.13
35:DA:1494:A:H2'	35:DA:1495:A:H5''	1.16	1.13
52:BV:28:GLU:HB2	52:BV:29:PRO:HD3	1.24	1.12
42:DH:102:ALA:HB2	42:DH:117:PRO:HD3	1.31	1.12
1:AA:979:C:H3'	1:AA:980:C:H5''	1.23	1.12
34:D8:62:LEU:HD13	35:DA:242:G:H5''	1.25	1.12
50:DT:80:SER:HB3	50:DT:81:PRO:CD	1.77	1.12
10:AJ:50:ILE:H	10:AJ:50:ILE:HD13	1.15	1.12
54:BX:72:LYS:HG3	54:BX:74:PRO:HD3	1.16	1.12
35:DA:2893:G:H5'	35:DA:2894:G:H5'	1.20	1.12
56:BZ:3:TYR:N	56:BZ:57:ILE:HA	1.64	1.12
35:DA:1879:C:H2'	35:DA:1880:C:H5''	1.30	1.11
27:B1:58:ILE:HD13	27:B1:59:THR:H	1.06	1.11
2:AB:75:LYS:HA	2:AB:78:GLN:HE21	1.12	1.11
38:DD:161:THR:OG1	38:DD:196:VAL:HG21	1.51	1.11
47:BQ:140:ALA:HB3	56:BZ:53:ILE:HD12	1.27	1.11
2:AB:96:ARG:H	2:AB:96:ARG:HD2	1.02	1.11

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1286:A:H2'	35:BA:1288:U:OP2	1.54	1.06
50:BT:66:VAL:HA	50:BT:71:GLY:HA2	1.38	1.05
35:BA:2562:U:H1'	45:BO:23:ARG:HH12	1.21	1.05
48:DR:10:LEU:HD22	48:DR:17:ARG:HD2	1.36	1.05
1:CA:908:A:H2'	1:CA:909:A:H8	1.18	1.05
38:BD:161:THR:OG1	38:BD:196:VAL:HG21	1.56	1.05
35:DA:782:A:C2	38:DD:226:MET:HG2	1.92	1.05
49:DS:15:ARG:HB3	49:DS:18:ILE:HD13	1.29	1.05
28:B2:30:ARG:H	28:B2:30:ARG:HD2	1.18	1.05
26:B0:70:GLN:HG2	26:B0:71:ASP:H	1.20	1.05
45:BO:63:VAL:HG22	45:BO:84:ALA:HA	1.38	1.05
2:CB:75:LYS:HA	2:CB:78:GLN:HE21	1.12	1.05
51:DU:92:ARG:HB3	52:DV:11:GLN:NE2	1.70	1.05
4:CD:120:LEU:HD12	4:CD:120:LEU:H	1.18	1.05
43:BI:72:LEU:HD12	43:BI:138:ILE:HD11	1.38	1.05
2:AB:71:VAL:HG22	2:AB:93:VAL:H	1.21	1.05
50:DT:28:VAL:HG21	50:DT:47:GLY:H	1.20	1.05
35:DA:2533:A:H2'	35:DA:2534:A:H5''	1.36	1.05
39:BE:179:GLU:HB3	39:BE:181:LEU:HD21	1.37	1.04
39:DE:108:SER:HB3	39:DE:165:VAL:HG21	1.38	1.04
27:D1:33:LYS:HG2	27:D1:34:THR:H	1.16	1.04
44:DN:34:LEU:HD21	44:DN:120:LEU:HB2	1.39	1.04
35:BA:1747(A):G:H2'	35:BA:1748:G:H5''	1.37	1.04
35:BA:2476:A:H2'	35:BA:2477:C:H5''	1.40	1.04
44:BN:34:LEU:HD21	44:BN:120:LEU:HB2	1.37	1.04
27:D1:11:ARG:O	27:D1:13:ILE:N	1.89	1.04
45:BO:114:ILE:HD12	45:BO:114:ILE:H	1.20	1.04
18:CR:37:VAL:HG23	18:CR:38:GLU:H	1.22	1.04
2:CB:71:VAL:HG22	2:CB:93:VAL:H	1.18	1.04
34:B8:13:ARG:HB3	46:BP:63:PRO:HA	1.37	1.04
35:BA:2729:G:H1'	39:BE:187:ALA:HB2	1.34	1.04
52:DV:38:LEU:HD23	52:DV:39:LEU:H	1.20	1.04
35:DA:586:A:H5'	40:DF:89:VAL:HG21	1.37	1.04
35:DA:2729:G:H1'	39:DE:187:ALA:HB2	1.38	1.04
51:BU:66:ASN:HD21	51:BU:70:ARG:NH2	1.54	1.04
56:DZ:70:LEU:HD12	56:DZ:91:LEU:HD21	1.38	1.04
27:D1:58:ILE:HD12	27:D1:59:THR:H	1.22	1.04
35:DA:689:A:H2'	35:DA:690:G:H8	1.22	1.04
35:DA:1203:G:H4'	46:DP:7:ARG:HG2	1.36	1.04
35:BA:782:A:C2	38:BD:226:MET:HG2	1.93	1.03
38:BD:27:THR:HG21	38:BD:83:GLU:HG2	1.40	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B1:86:SER:HA	27:B1:89:GLU:HG3	1.35	1.03
35:BA:1884:A:H2'	35:BA:1885:A:H5''	1.34	1.03
38:BD:25:THR:HG21	38:BD:81:ALA:HB1	1.38	1.03
27:B1:16:ASN:HB3	27:B1:46:LEU:HG	1.39	1.03
35:DA:2476:A:H2'	35:DA:2477:C:H5''	1.40	1.03
3:CC:15:THR:HG22	3:CC:16:ARG:HH12	1.21	1.03
4:AD:96:LEU:H	4:AD:96:LEU:HD22	1.19	1.03
1:CA:975:A:H4'	1:CA:976:G:H5''	1.38	1.03
48:DR:48:VAL:HA	48:DR:51:LEU:HD12	1.41	1.03
46:DP:146:VAL:HG22	46:DP:147:LEU:H	1.24	1.03
50:DT:66:VAL:HA	50:DT:71:GLY:HA2	1.39	1.03
56:DZ:166:SER:HB2	56:DZ:168:GLU:N	1.74	1.03
40:BF:53:THR:HG23	40:BF:56:GLU:HB2	1.40	1.03
1:AA:1412:C:H2'	1:AA:1413:A:C8	1.94	1.03
38:DD:92:ILE:HG22	38:DD:106:ILE:HA	1.40	1.03
28:D2:49:LYS:HB3	28:D2:53:LEU:HD22	1.34	1.03
35:DA:1286:A:H2'	35:DA:1288:U:OP2	1.58	1.03
3:AC:15:THR:HG22	3:AC:16:ARG:HH12	1.18	1.03
1:AA:1321:C:H5'	1:AA:1322:C:H5''	1.36	1.03
41:DG:41:GLN:HG2	41:DG:43:LEU:HD12	1.37	1.02
35:BA:2598:A:H5''	38:BD:236:GLY:N	1.73	1.02
34:D8:13:ARG:HB3	46:DP:63:PRO:HA	1.36	1.02
55:DY:10:GLY:HA2	55:DY:27:VAL:HG13	1.40	1.02
35:BA:2533:A:H2'	35:BA:2534:A:H5''	1.40	1.02
35:DA:2348:U:H2'	35:DA:2349:G:H5''	1.41	1.02
1:AA:585:G:H4'	12:AL:8:ASN:HD21	1.23	1.02
1:AA:908:A:H2'	1:AA:909:A:H8	1.20	1.02
1:AA:975:A:H4'	1:AA:976:G:H5''	1.41	1.02
39:DE:51:PHE:H	39:DE:74:PRO:HG3	1.21	1.02
28:D2:14:ARG:HG2	28:D2:15:LYS:H	1.20	1.02
2:CB:165:VAL:HG23	2:CB:166:ASP:H	1.23	1.02
46:DP:38:GLN:HG3	46:DP:39:LYS:H	1.23	1.02
3:CC:157:ILE:HB	3:CC:164:ARG:HH12	1.23	1.02
4:AD:22:LYS:HB2	4:AD:26:CYS:HB2	1.37	1.02
35:BA:404:C:H4'	35:BA:405:U:H5'	1.41	1.02
48:DR:98:LEU:HB2	48:DR:113:LEU:HD23	1.41	1.02
40:DF:67:GLN:O	40:DF:67:GLN:HG3	1.56	1.02
56:DZ:56:VAL:HA	56:DZ:70:LEU:HD21	1.04	1.02
48:BR:10:LEU:HD22	48:BR:17:ARG:HD2	1.41	1.02
50:BT:109:GLU:HB3	50:BT:113:LYS:HE3	1.36	1.02
2:AB:165:VAL:HG23	2:AB:166:ASP:H	1.24	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DI:72:LEU:HD12	43:DI:138:ILE:HD11	1.39	1.02
47:DQ:75:THR:HA	47:DQ:88:GLY:HA3	1.37	1.02
44:DN:14:VAL:HG12	44:DN:15:LEU:H	1.25	1.02
32:B6:12:GLU:HA	32:B6:23:THR:HA	1.42	1.02
46:DP:71:VAL:HG13	46:DP:72:PRO:CD	1.90	1.02
39:DE:110:GLY:HA2	39:DE:161:GLY:HA3	1.40	1.02
35:BA:389:G:H22	46:BP:71:VAL:HG11	1.24	1.01
35:BA:389:G:H1	46:BP:71:VAL:HB	1.25	1.01
18:CR:25:THR:HG22	18:CR:42:ARG:HH11	1.21	1.01
18:AR:25:THR:HG22	18:AR:42:ARG:HH11	1.22	1.01
35:BA:2348:U:H2'	35:BA:2349:G:H5''	1.38	1.01
47:BQ:52:VAL:HG13	47:BQ:53:ALA:H	1.24	1.01
35:BA:2737:G:H2'	35:BA:2738:A:H8	1.25	1.01
1:CA:1524:C:H2'	1:CA:1525:G:H8	1.25	1.01
41:DG:132:ASN:HD21	41:DG:157:ILE:HG13	1.23	1.01
52:BV:18:LEU:HD22	52:BV:19:LYS:H	1.23	1.01
41:BG:5:VAL:HG12	41:BG:6:ALA:H	1.25	1.01
53:DW:73:ALA:HB3	53:DW:106:ILE:HD11	1.40	1.01
48:BR:98:LEU:HB2	48:BR:113:LEU:HD23	1.41	1.01
38:DD:226:MET:HE2	38:DD:230:ASP:HB3	1.43	1.01
35:BA:94(A):G:H2'	35:BA:95:G:H5''	1.43	1.01
41:BG:173:LEU:HA	41:BG:176:LEU:HD12	1.38	1.01
56:DZ:69:THR:HG22	56:DZ:90:VAL:HG22	1.41	1.01
51:DU:66:ASN:HD21	51:DU:70:ARG:NH2	1.58	1.01
4:AD:120:LEU:H	4:AD:120:LEU:HD12	1.23	1.01
26:D0:70:GLN:HG2	26:D0:71:ASP:H	1.18	1.01
35:DA:2036:C:H6	35:DA:2036:C:H5'	1.24	1.01
35:DA:94(A):G:H2'	35:DA:95:G:H5''	1.43	1.01
18:AR:37:VAL:HG23	18:AR:38:GLU:H	1.21	1.01
35:DA:2737:G:H2'	35:DA:2738:A:H8	1.25	1.01
42:DH:19:VAL:HB	42:DH:44:VAL:HG13	1.42	1.01
2:AB:112:VAL:O	2:AB:115:LEU:HB3	1.61	1.01
27:B1:27:GLU:HB2	27:B1:33:LYS:O	1.58	1.01
41:DG:132:ASN:HB2	41:DG:159:VAL:HG22	1.41	1.01
50:BT:28:VAL:HG21	50:BT:47:GLY:H	1.24	1.01
54:BX:72:LYS:HE3	54:BX:74:PRO:HB3	1.40	1.01
4:CD:96:LEU:H	4:CD:96:LEU:HD22	1.22	1.01
35:BA:2348:U:C2'	35:BA:2349:G:H5''	1.90	1.01
35:DA:342:G:C2'	35:DA:343:C:H5''	1.91	1.01
38:DD:27:THR:HG21	38:DD:83:GLU:HG2	1.41	1.00
27:B1:94:LEU:HD22	27:B1:95:LEU:H	1.22	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DU:64:ARG:HH21	51:DU:64:ARG:HB3	1.18	1.00
46:BP:146:VAL:HG22	46:BP:147:LEU:H	1.24	1.00
35:DA:1747(A):G:H2'	35:DA:1748:G:H5''	1.38	1.00
16:AP:60:LEU:HD23	16:AP:64:ALA:HB3	1.43	1.00
1:AA:939:G:H5''	7:AG:102:ARG:HH22	1.24	1.00
50:BT:11:GLU:H	50:BT:11:GLU:CD	1.60	1.00
35:DA:1494:A:H2'	35:DA:1495:A:C5'	1.92	1.00
52:BV:38:LEU:HD23	52:BV:39:LEU:H	1.23	1.00
32:D6:12:GLU:HA	32:D6:23:THR:HA	1.39	1.00
49:BS:28:VAL:HG12	49:BS:29:PHE:H	1.23	1.00
46:BP:71:VAL:HG13	46:BP:72:PRO:CD	1.90	1.00
35:DA:27:G:HO2'	35:DA:28:A:H8	1.02	1.00
25:CY:10:THR:O	25:CY:14:MET:HG3	1.59	1.00
1:CA:1324:A:H2'	1:CA:1325:C:H6	1.26	1.00
35:BA:1203:G:H4'	46:BP:7:ARG:HG2	1.39	1.00
27:B1:10:LYS:O	27:B1:13:ILE:HG22	1.61	1.00
56:DZ:73:GLN:HG2	56:DZ:74:VAL:H	1.25	1.00
36:DB:74:U:C2'	36:DB:75:G:H5''	1.91	1.00
43:DI:77:LEU:HB2	43:DI:140:LEU:HD13	1.40	1.00
35:DA:389:G:H22	46:DP:71:VAL:HG11	1.25	1.00
39:BE:108:SER:HB3	39:BE:165:VAL:HG21	1.38	1.00
52:DV:83:ARG:HG2	52:DV:83:ARG:HH11	1.22	1.00
12:CL:83:VAL:HG22	12:CL:84:LEU:H	1.26	1.00
35:DA:17:G:HO2'	51:DU:25:TRP:HZ3	1.09	1.00
12:CL:55:VAL:HG12	12:CL:56:ALA:H	1.26	1.00
43:BI:38:LEU:HD12	43:BI:38:LEU:H	1.26	1.00
35:BA:1586:A:H3'	35:BA:1587:A:C5'	1.91	1.00
1:AA:1363(A):A:H4'	1:AA:1364:U:H5''	1.40	1.00
13:CM:91:ARG:HH11	19:CS:81:ARG:HH22	1.06	1.00
1:CA:1216:G:H5''	14:CN:5:ALA:HB2	1.43	1.00
46:BP:71:VAL:HG13	46:BP:72:PRO:HD3	1.00	1.00
1:AA:1469:G:H2'	1:AA:1470:G:H8	1.25	1.00
35:BA:342:G:C2'	35:BA:343:C:H5''	1.91	1.00
1:AA:1324:A:H2'	1:AA:1325:C:H6	1.27	1.00
35:DA:404:C:H4'	35:DA:405:U:H5'	1.39	1.00
16:AP:26:ARG:HH11	16:AP:26:ARG:HB3	1.26	1.00
42:DH:18:GLU:HB2	42:DH:25:LYS:HB2	1.43	1.00
38:BD:92:ILE:HG22	38:BD:106:ILE:HA	1.40	1.00
47:BQ:55:VAL:HG12	47:BQ:64:ILE:HD12	1.43	1.00
35:BA:1348:G:H2'	35:BA:1349:A:H5''	1.42	1.00
2:AB:236:TYR:HA	2:AB:239:VAL:HG23	1.44	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2498:C:O2'	35:BA:2499:C:H5'	1.62	1.00
19:AS:36:ARG:HH22	19:AS:75:ALA:HB3	1.27	1.00
44:BN:14:VAL:HG12	44:BN:15:LEU:H	1.25	1.00
1:CA:1452:C:H1'	1:CA:1456:G:N2	1.75	1.00
35:DA:2701:C:H3'	35:DA:2702:U:H5''	1.40	1.00
52:DV:18:LEU:HD22	52:DV:19:LYS:H	1.26	0.99
27:D1:62:VAL:HG21	27:D1:67:ILE:HA	1.39	0.99
39:BE:110:GLY:HA2	39:BE:161:GLY:HA3	1.44	0.99
35:BA:1657:C:H2'	35:BA:1658:C:H6	1.27	0.99
16:CP:26:ARG:HH11	16:CP:26:ARG:HB3	1.25	0.99
34:B8:32:LEU:C	34:B8:34:TRP:H	1.55	0.99
36:BB:74:U:C2'	36:BB:75:G:H5''	1.91	0.99
46:BP:38:GLN:HG3	46:BP:39:LYS:H	1.24	0.99
1:CA:194:C:H2'	1:CA:195:A:H5''	1.44	0.99
52:BV:70:ILE:HB	52:BV:90:PRO:HB2	1.40	0.99
34:D8:52:LYS:H	34:D8:53:PRO:HD2	1.24	0.99
25:AY:60:ALA:HA	25:AY:66:LEU:HA	1.41	0.99
27:B1:85:LEU:C	27:B1:87:PRO:HD3	1.83	0.99
27:B1:47:GLN:HG2	35:BA:2230:G:H1'	0.99	0.99
35:DA:1348:G:H2'	35:DA:1349:A:H5''	1.42	0.99
3:AC:157:ILE:HB	3:AC:164:ARG:HH12	1.27	0.99
2:CB:236:TYR:HA	2:CB:239:VAL:HG23	1.42	0.99
1:AA:1216:G:H5''	14:AN:5:ALA:HB2	1.45	0.99
39:DE:179:GLU:HB3	39:DE:181:LEU:HD21	1.42	0.99
52:DV:64:HIS:HB3	52:DV:96:ILE:HA	1.43	0.99
7:AG:75:VAL:HG12	7:AG:88:PRO:HB3	1.44	0.99
50:DT:11:GLU:H	50:DT:11:GLU:CD	1.60	0.99
25:AY:133:ARG:HD3	25:AY:165:THR:HG21	1.40	0.99
53:BW:73:ALA:HB3	53:BW:106:ILE:HD11	1.40	0.99
51:BU:92:ARG:HB3	52:BV:11:GLN:NE2	1.76	0.99
35:BA:586:A:H5'	40:BF:89:VAL:HG21	1.40	0.99
52:DV:70:ILE:HB	52:DV:90:PRO:HB2	1.40	0.99
35:DA:2348:U:C2'	35:DA:2349:G:H5''	1.92	0.99
1:CA:939:G:H5''	7:CG:102:ARG:HH22	1.24	0.99
1:CA:585:G:H4'	12:CL:8:ASN:HD21	1.28	0.99
56:DZ:24:LEU:HD11	56:DZ:86:VAL:HG23	1.45	0.99
35:BA:1879:C:C2'	35:BA:1880:C:H5''	1.93	0.99
49:BS:13:ARG:H	49:BS:13:ARG:HD2	1.27	0.99
23:CW:3:C:H2'	23:CW:4:G:H5''	1.42	0.99
42:DH:43:VAL:HG11	42:DH:52:VAL:HA	1.44	0.99
38:BD:35:LYS:HG2	38:BD:64:ILE:H	1.28	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DI:98:ALA:HB1	43:DI:109:ILE:HB	1.43	0.99
27:B1:32:LYS:HA	35:BA:2396:G:O2'	1.62	0.99
49:DS:28:VAL:HG12	49:DS:29:PHE:H	1.25	0.99
1:CA:1363(A):A:H4'	1:CA:1364:U:H5''	1.41	0.99
12:AL:83:VAL:HG22	12:AL:84:LEU:H	1.28	0.99
34:D8:32:LEU:C	34:D8:34:TRP:H	1.57	0.98
26:B0:32:ARG:H	26:B0:35:ASN:HD22	1.05	0.98
35:BA:2125:G:H21	35:BA:2173:A:H62	1.05	0.98
50:DT:50:ILE:HG23	50:DT:99:LEU:HD12	1.45	0.98
39:DE:24:THR:HG23	39:DE:184:VAL:HG23	1.46	0.98
52:BV:64:HIS:HB3	52:BV:96:ILE:HA	1.44	0.98
46:BP:30:THR:HG22	46:BP:31:ALA:H	1.27	0.98
44:DN:46:VAL:HG13	44:DN:47:ALA:H	1.25	0.98
35:DA:1494:A:C2'	35:DA:1495:A:H5''	1.93	0.98
51:BU:64:ARG:HH21	51:BU:64:ARG:HB3	1.22	0.98
34:D8:46:ARG:NH1	34:D8:46:ARG:HB3	1.78	0.98
35:BA:2701:C:H3'	35:BA:2702:U:H5''	1.43	0.98
35:BA:1798:U:H5'	38:BD:259:THR:CG2	1.91	0.98
40:BF:67:GLN:HG3	40:BF:67:GLN:O	1.62	0.98
35:DA:1586:A:H3'	35:DA:1587:A:C5'	1.94	0.98
19:CS:63:THR:HG22	19:CS:66:MET:HG2	1.45	0.98
35:BA:1657:C:H2'	35:BA:1658:C:C6	1.97	0.98
35:BA:1590:U:H2'	35:BA:1591:G:H5''	1.42	0.98
42:BH:43:VAL:HG11	42:BH:52:VAL:HA	1.41	0.98
10:CJ:34:VAL:HG22	10:CJ:74:ILE:HG22	1.42	0.98
34:B8:35:GLN:HA	35:BA:2420:C:OP2	1.64	0.98
35:DA:2598:A:H5''	38:DD:236:GLY:N	1.76	0.98
1:CA:1065:U:H5'	1:CA:1190:G:H21	1.29	0.98
47:BQ:9:TYR:O	47:BQ:10:ARG:HG3	1.61	0.98
35:BA:2036:C:H6	35:BA:2036:C:H5'	1.28	0.98
41:DG:37:VAL:HB	41:DG:94:LEU:HB2	1.43	0.98
3:AC:164:ARG:HB2	3:AC:164:ARG:HH11	1.26	0.98
35:DA:27:G:H22	35:DA:512:G:H2'	1.29	0.98
11:CK:27:ASN:HB2	11:CK:55:LYS:HB3	1.45	0.98
39:BE:24:THR:HG23	39:BE:184:VAL:HG23	1.45	0.98
10:AJ:34:VAL:HG22	10:AJ:74:ILE:HG22	1.44	0.98
35:DA:2415:G:O3'	46:DP:66:GLY:HA3	1.64	0.98
13:CM:108:ARG:H	13:CM:108:ARG:HD2	1.28	0.98
42:BH:18:GLU:HB2	42:BH:25:LYS:HB2	1.42	0.98
38:DD:35:LYS:HG2	38:DD:64:ILE:H	1.27	0.97
50:BT:40:THR:O	50:BT:41:ARG:HB2	1.63	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:84:GLU:HB3	2:CB:219:VAL:HG21	1.46	0.97
16:CP:60:LEU:HD23	16:CP:64:ALA:HB3	1.45	0.97
26:D0:32:ARG:H	26:D0:35:ASN:HD22	1.09	0.97
35:DA:1798:U:H5'	38:DD:259:THR:CG2	1.92	0.97
45:BO:61:VAL:O	45:BO:84:ALA:HB1	1.62	0.97
54:DX:72:LYS:HE3	54:DX:74:PRO:HB3	1.42	0.97
12:AL:6:THR:HG23	12:AL:9:GLN:H	1.28	0.97
25:AY:150:SER:H	25:AY:153:GLU:HB2	1.29	0.97
11:AK:103:LEU:HD22	11:AK:103:LEU:H	1.24	0.97
35:DA:2600:A:O2'	35:DA:2601:C:H5'	1.64	0.97
35:DA:389:G:H1	46:DP:71:VAL:HB	1.28	0.97
46:DP:71:VAL:HG13	46:DP:72:PRO:HD3	0.98	0.97
36:DB:7:G:H3'	36:DB:8:U:H5''	1.44	0.97
25:CY:129:ILE:HA	25:CY:132:ILE:CD1	1.94	0.97
35:DA:847:U:H2'	35:DA:848:G:H5''	1.46	0.97
7:CG:75:VAL:HG12	7:CG:88:PRO:HB3	1.41	0.97
35:BA:689:A:H2'	35:BA:690:G:H8	1.27	0.97
35:BA:1586:A:C3'	35:BA:1587:A:H5''	1.93	0.97
47:DQ:9:TYR:O	47:DQ:10:ARG:HG3	1.63	0.97
19:AS:63:THR:HG22	19:AS:66:MET:HG2	1.44	0.97
35:DA:2426:A:H3'	35:DA:2427:C:H5'	1.43	0.97
43:BI:98:ALA:HB1	43:BI:109:ILE:HB	1.46	0.97
40:DF:132:VAL:HG22	40:DF:133:ASN:H	1.28	0.97
35:DA:1590:U:H2'	35:DA:1591:G:H5''	1.44	0.97
39:DE:116:VAL:HG23	39:DE:120:TRP:HB2	1.47	0.97
52:BV:2:PHE:HB3	52:BV:42:GLY:HA2	1.45	0.97
35:DA:2753:A:O2'	35:DA:2754:U:H5'	1.65	0.97
12:AL:37:CYS:HA	12:AL:58:VAL:HG22	1.47	0.97
35:BA:2645:G:H3'	35:BA:2646:C:H5'	1.45	0.97
8:CH:110:ALA:HB3	8:CH:121:ASP:HB3	1.45	0.97
41:DG:43:LEU:CD2	41:DG:44:GLY:H	1.77	0.97
54:BX:60:ARG:HG2	54:BX:74:PRO:HD2	1.46	0.97
39:DE:33:VAL:HG11	39:DE:89:ASP:H	1.27	0.97
39:BE:116:VAL:HG23	39:BE:120:TRP:HB2	1.43	0.97
3:CC:164:ARG:HB2	3:CC:164:ARG:HH11	1.24	0.97
25:CY:3:LEU:HA	25:CY:6:LEU:HB3	1.41	0.97
35:DA:2645:G:H3'	35:DA:2646:C:H5'	1.44	0.97
35:BA:2426:A:H3'	35:BA:2427:C:H5'	1.46	0.97
35:BA:106:C:H1'	55:BY:2:ARG:NH2	1.80	0.97
20:CT:73:HIS:HB3	20:CT:74:LYS:HD3	1.47	0.97
2:CB:171:ALA:HA	2:CB:174:VAL:HG23	1.45	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2415:G:O3'	46:BP:66:GLY:HA3	1.62	0.97
11:AK:27:ASN:HB2	11:AK:55:LYS:HB3	1.45	0.97
47:DQ:55:VAL:HG12	47:DQ:64:ILE:HD12	1.42	0.97
25:AY:63:PRO:HB2	25:AY:64:ARG:HH12	1.27	0.97
13:AM:108:ARG:H	13:AM:108:ARG:HD2	1.29	0.97
4:CD:145:GLU:HG2	4:CD:184:LYS:HG3	1.46	0.97
50:DT:38:ASN:HD22	50:DT:40:THR:H	1.12	0.97
38:DD:94:LEU:H	38:DD:94:LEU:HD12	1.26	0.97
35:BA:2693:A:H2'	35:BA:2694:G:H8	1.30	0.97
12:CL:6:THR:HG23	12:CL:9:GLN:H	1.26	0.97
56:DZ:149:SER:HB3	56:DZ:173:ALA:HA	1.47	0.96
4:CD:61:LYS:HA	4:CD:203:VAL:HG22	1.45	0.96
35:BA:925:C:H2'	35:BA:926:A:H5''	1.46	0.96
44:DN:9:VAL:HG11	44:DN:39:ARG:HH22	1.30	0.96
55:BY:10:GLY:HA2	55:BY:27:VAL:HG13	1.46	0.96
40:DF:103:LYS:HG2	40:DF:106:ARG:HH21	1.28	0.96
27:B1:47:GLN:HG2	35:BA:2230:G:C1'	1.94	0.96
44:BN:22:THR:HA	44:BN:61:ARG:HB2	1.47	0.96
35:DA:342:G:H2'	35:DA:343:C:H5''	1.44	0.96
11:CK:103:LEU:H	11:CK:103:LEU:HD22	1.27	0.96
55:BY:88:LYS:HZ3	55:BY:93:GLY:H	1.01	0.96
48:BR:48:VAL:HA	48:BR:51:LEU:HD12	1.45	0.96
34:B8:46:ARG:HH11	34:B8:46:ARG:CB	1.79	0.96
56:DZ:125:LEU:HB3	56:DZ:165:VAL:HG22	1.45	0.96
25:AY:29:ARG:HE	25:AY:32:ARG:NH2	1.63	0.96
55:BY:31:LEU:HB3	55:BY:32:PRO:HA	1.47	0.96
50:BT:50:ILE:HG23	50:BT:99:LEU:HD12	1.42	0.96
52:BV:19:LYS:HZ2	52:BV:20:LEU:H	1.09	0.96
52:DV:34:GLU:H	52:DV:62:LEU:HB2	1.29	0.96
35:BA:27:G:HO2'	35:BA:28:A:H8	1.00	0.96
27:D1:23:LYS:HB3	27:D1:37:ILE:HD11	1.43	0.96
35:BA:847:U:H2'	35:BA:848:G:H5''	1.46	0.96
50:DT:29:ARG:HB3	50:DT:85:LYS:HA	1.46	0.96
1:AA:1060:C:H5'	14:AN:45:ARG:HH22	1.30	0.96
43:DI:91:SER:HB3	43:DI:121:LYS:HE3	1.45	0.96
44:BN:65:LYS:HE2	44:BN:65:LYS:HA	1.47	0.96
48:DR:38:VAL:HB	48:DR:39:PRO:HD3	1.48	0.96
41:DG:39:ILE:HA	41:DG:157:ILE:HA	1.45	0.96
48:BR:45:ARG:HG3	48:BR:46:GLY:H	1.30	0.96
8:AH:110:ALA:HB3	8:AH:121:ASP:HB3	1.45	0.96
10:CJ:4:ILE:HB	10:CJ:74:ILE:HD11	1.47	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1494:A:H2'	35:BA:1495:A:C5'	1.93	0.96
35:BA:2334:G:H5'	49:BS:13:ARG:HG2	1.48	0.96
1:AA:1104:G:H4'	2:AB:111:ARG:NH1	1.81	0.96
40:BF:132:VAL:HG22	40:BF:133:ASN:H	1.27	0.96
1:AA:194:C:H2'	1:AA:195:A:H5''	1.45	0.96
5:AE:39:GLY:HA2	5:AE:69:VAL:HB	1.48	0.96
1:AA:1065:U:H5'	1:AA:1190:G:H21	1.29	0.96
35:DA:925:C:H2'	35:DA:926:A:H5''	1.45	0.96
52:DV:2:PHE:HB3	52:DV:42:GLY:HA2	1.48	0.95
1:CA:1452:C:H1'	1:CA:1456:G:H22	1.25	0.95
26:B0:32:ARG:H	26:B0:35:ASN:ND2	1.63	0.95
2:CB:112:VAL:O	2:CB:115:LEU:HB3	1.64	0.95
27:B1:11:ARG:NH1	27:B1:60:PHE:HA	1.81	0.95
4:CD:30:LYS:C	4:CD:32:ALA:H	1.68	0.95
49:DS:13:ARG:H	49:DS:13:ARG:HD2	1.27	0.95
1:CA:1104:G:H4'	2:CB:111:ARG:NH1	1.81	0.95
52:DV:78:LYS:HD3	52:DV:79:VAL:N	1.81	0.95
1:CA:1321:C:C5'	1:CA:1322:C:H5''	1.95	0.95
35:BA:1024:G:H3'	35:BA:1025:G:H5''	1.48	0.95
45:BO:103:ALA:HA	45:BO:122:LEU:O	1.66	0.95
35:DA:2562:U:H1'	45:DO:23:ARG:HH12	1.26	0.95
56:DZ:6:LYS:H	56:DZ:6:LYS:HD3	1.31	0.95
35:DA:2599:G:OP2	38:DD:236:GLY:HA2	1.65	0.95
1:CA:737:A:H2'	1:CA:738:C:C6	2.02	0.95
12:AL:6:THR:O	12:AL:10:LEU:HD23	1.63	0.95
35:BA:342:G:H2'	35:BA:343:C:H5''	1.45	0.95
38:BD:226:MET:HE2	38:BD:230:ASP:HB3	1.47	0.95
41:DG:46:ALA:HB1	41:DG:88:ILE:HD13	1.49	0.95
44:BN:46:VAL:HG13	44:BN:47:ALA:H	1.27	0.95
52:BV:34:GLU:H	52:BV:62:LEU:HB2	1.32	0.95
35:DA:106:C:H1'	55:DY:2:ARG:NH2	1.81	0.95
34:D8:46:ARG:HH11	34:D8:46:ARG:CB	1.78	0.95
42:BH:19:VAL:HB	42:BH:44:VAL:HG13	1.47	0.95
5:AE:43:LEU:HD21	5:AE:132:ALA:HB1	1.47	0.95
34:B8:46:ARG:NH1	34:B8:46:ARG:HB3	1.79	0.95
5:CE:39:GLY:HA2	5:CE:69:VAL:HB	1.47	0.95
25:CY:84:ARG:HH21	25:CY:92:PRO:HD2	1.32	0.95
36:BB:7:G:H3'	36:BB:8:U:H5''	1.47	0.95
35:DA:1586:A:C3'	35:DA:1587:A:H5''	1.96	0.95
46:DP:47:ASP:HB3	46:DP:48:PRO:C	1.86	0.95
1:AA:737:A:H2'	1:AA:738:C:C6	2.00	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:6:THR:O	12:CL:10:LEU:HD23	1.67	0.95
1:CA:383:A:H2'	1:CA:384:G:H5'	1.49	0.95
43:DI:38:LEU:H	43:DI:38:LEU:HD12	1.27	0.95
1:AA:806:C:H2'	1:AA:807:A:H8	1.32	0.95
50:BT:29:ARG:HB3	50:BT:85:LYS:HA	1.47	0.95
35:BA:903:C:H2'	35:BA:904:C:C6	2.02	0.95
56:BZ:150:LEU:HD22	56:BZ:150:LEU:H	1.27	0.95
41:BG:111:LEU:HA	41:BG:114:ILE:HD11	1.46	0.95
43:BI:14:ASP:O	43:BI:17:GLN:HB2	1.67	0.95
1:CA:1349:A:H3'	9:CI:118:LYS:HE3	1.47	0.95
39:BE:33:VAL:HG11	39:BE:89:ASP:H	1.32	0.94
35:DA:2498:C:O2'	35:DA:2499:C:H5'	1.66	0.94
52:BV:78:LYS:HD3	52:BV:79:VAL:N	1.82	0.94
11:CK:22:HIS:O	11:CK:28:THR:HG23	1.67	0.94
1:AA:522:C:H41	12:AL:53:ARG:HH21	1.07	0.94
8:AH:23:SER:HA	8:AH:63:LEU:HD23	1.48	0.94
2:AB:84:GLU:HB3	2:AB:219:VAL:HG21	1.46	0.94
25:CY:125:GLY:O	25:CY:129:ILE:HG13	1.66	0.94
35:DA:742:G:H2'	35:DA:743:G:H8	1.29	0.94
35:BA:2600:A:O2'	35:BA:2601:C:H5'	1.67	0.94
35:DA:2475:C:H42	35:DA:2529:G:H22	1.14	0.94
36:DB:45:A:H8	41:DG:95:ARG:HE	1.12	0.94
46:DP:85:LEU:HD23	46:DP:85:LEU:H	1.29	0.94
41:DG:43:LEU:HD22	41:DG:44:GLY:H	1.32	0.94
10:AJ:4:ILE:HB	10:AJ:74:ILE:HD11	1.46	0.94
35:BA:2740:A:H2'	35:BA:2741:A:C8	2.03	0.94
1:CA:1524:C:H2'	1:CA:1525:G:C8	2.03	0.94
18:AR:58:LEU:H	18:AR:58:LEU:HD12	1.28	0.94
50:BT:47:GLY:HA2	50:BT:65:LYS:HB2	1.48	0.94
55:DY:88:LYS:NZ	55:DY:93:GLY:H	1.66	0.94
35:BA:2599:G:OP2	38:BD:236:GLY:HA2	1.67	0.94
35:BA:2282:G:H1	35:BA:2427:C:H42	1.15	0.94
56:BZ:115:GLY:HA3	56:BZ:175:VAL:O	1.68	0.94
1:CA:559:A:H4'	1:CA:560:U:H5''	1.49	0.94
9:AI:28:VAL:HG13	9:AI:64:THR:HA	1.50	0.94
1:CA:1060:C:H5'	14:CN:45:ARG:HH22	1.32	0.94
46:BP:39:LYS:CD	46:BP:40:SER:H	1.81	0.94
2:CB:187:LEU:HD13	2:CB:187:LEU:O	1.67	0.94
35:BA:742:G:H2'	35:BA:743:G:H8	1.33	0.94
1:AA:528:C:H41	12:AL:49:ASN:ND2	1.66	0.94
35:BA:2092:U:H4'	35:BA:2093:G:H5''	1.47	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DO:63:VAL:HG22	45:DO:84:ALA:HA	1.45	0.94
38:BD:44:ASN:HB3	38:BD:49:ILE:HA	1.47	0.94
41:DG:110:ALA:HA	41:DG:140:ILE:HD13	1.48	0.94
47:BQ:140:ALA:O	56:BZ:72:ARG:HA	1.66	0.94
46:DP:47:ASP:HB2	46:DP:51:PHE:HB2	1.48	0.94
55:DY:37:VAL:HG23	55:DY:38:ILE:H	1.32	0.94
35:BA:2538:C:O2'	35:BA:2539:C:H5'	1.68	0.94
8:CH:23:SER:HA	8:CH:63:LEU:HD23	1.47	0.94
1:AA:1194:U:H2'	1:AA:1195:C:C6	2.02	0.94
50:DT:40:THR:O	50:DT:41:ARG:HB2	1.64	0.94
35:BA:903:C:H2'	35:BA:904:C:H6	1.32	0.94
35:BA:1494:A:C2'	35:BA:1495:A:H5''	1.96	0.94
40:DF:53:THR:HG23	40:DF:56:GLU:HB2	1.46	0.94
13:AM:91:ARG:HH11	19:AS:81:ARG:HH22	1.05	0.94
31:D5:44:THR:HG21	48:DR:101:ALA:HB2	1.46	0.94
1:CA:806:C:H2'	1:CA:807:A:H8	1.32	0.94
35:DA:2125:G:H21	35:DA:2173:A:H62	1.04	0.94
35:BA:2475:C:H42	35:BA:2529:G:H22	1.13	0.94
54:BX:65:ARG:HE	54:BX:65:ARG:HA	1.33	0.94
44:DN:22:THR:HA	44:DN:61:ARG:HB2	1.46	0.94
1:CA:878:G:C5'	8:CH:89:PRO:HG2	1.97	0.94
1:AA:1194:U:H2'	1:AA:1195:C:H6	1.32	0.94
35:BA:2284:C:C2'	35:BA:2285:C:H5''	1.96	0.94
27:B1:37:ILE:H	27:B1:37:ILE:HD12	1.32	0.93
1:AA:1321:C:C5'	1:AA:1322:C:H5''	1.97	0.93
22:AV:30:A:H2'	22:AV:31:U:C6	2.02	0.93
56:DZ:76:LEU:HA	56:DZ:84:GLU:HB2	1.50	0.93
53:BW:29:LEU:CD2	53:BW:33:ARG:HE	1.81	0.93
12:CL:37:CYS:HA	12:CL:58:VAL:HG22	1.50	0.93
5:AE:147:ASP:HA	5:AE:150:ARG:HH11	1.32	0.93
50:DT:106:SER:HA	50:DT:110:ILE:HD13	1.50	0.93
38:DD:18:VAL:HG23	38:DD:211:ARG:HH21	1.33	0.93
39:BE:78:LEU:H	39:BE:78:LEU:HD23	1.31	0.93
43:DI:14:ASP:O	43:DI:17:GLN:HB2	1.66	0.93
31:B5:44:THR:HG21	48:BR:101:ALA:HB2	1.50	0.93
1:CA:1194:U:H2'	1:CA:1195:C:H6	1.33	0.93
12:AL:55:VAL:HG12	12:AL:56:ALA:H	1.31	0.93
35:DA:2693:A:H2'	35:DA:2694:G:H8	1.31	0.93
50:DT:28:VAL:HG21	50:DT:47:GLY:N	1.81	0.93
1:CA:1397:C:N4	24:CX:22:U:H3'	1.82	0.93
35:DA:1879:C:C2'	35:DA:1880:C:H5''	1.97	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B1:68:PRO:HG2	27:B1:69:LYS:H	1.29	0.93
48:DR:45:ARG:HG3	48:DR:46:GLY:H	1.31	0.93
1:CA:908:A:H2'	1:CA:909:A:C8	2.04	0.93
55:BY:37:VAL:HG23	55:BY:38:ILE:H	1.33	0.93
41:BG:63:ILE:HD12	41:BG:64:THR:N	1.83	0.93
27:D1:68:PRO:O	27:D1:70:VAL:N	2.00	0.93
25:CY:147:LEU:HD22	25:CY:149:LEU:HG	1.48	0.93
35:DA:1657:C:H2'	35:DA:1658:C:C6	2.04	0.93
42:BH:13:LYS:HA	42:BH:13:LYS:HE2	1.50	0.93
4:AD:145:GLU:HG2	4:AD:184:LYS:HG3	1.48	0.93
1:CA:1080:A:H5'	5:CE:14:ARG:HH21	1.30	0.93
35:DA:1902:C:H1'	38:DD:244:ARG:HD3	1.50	0.93
34:D8:35:GLN:HA	35:DA:2420:C:OP2	1.68	0.93
25:CY:9:GLU:O	25:CY:12:SER:HB3	1.69	0.93
31:D5:31:VAL:HB	31:D5:32:PRO:HD2	1.50	0.93
56:BZ:114:GLY:HA3	56:BZ:177:PRO:HB3	1.51	0.93
27:B1:47:GLN:HB2	35:BA:397:G:H5''	1.51	0.93
35:DA:1039:G:H1	35:DA:1116:C:H42	1.15	0.93
2:AB:172:ILE:HD12	2:AB:172:ILE:H	1.30	0.93
19:CS:36:ARG:HH22	19:CS:75:ALA:HB3	1.32	0.93
43:DI:79:ILE:HG12	43:DI:140:LEU:HD11	1.50	0.93
35:BA:2051:A:O3'	39:BE:141:ILE:HD11	1.69	0.93
43:BI:91:SER:HB3	43:BI:121:LYS:HE3	1.52	0.92
41:DG:39:ILE:HG13	41:DG:157:ILE:HG22	1.51	0.92
39:DE:78:LEU:HD23	39:DE:78:LEU:H	1.33	0.92
4:AD:30:LYS:C	4:AD:32:ALA:H	1.68	0.92
7:CG:79:ARG:HE	7:CG:84:ASN:HD21	1.17	0.92
1:AA:625:G:H2'	1:AA:626:U:H6	1.34	0.92
44:DN:65:LYS:HE2	44:DN:65:LYS:HA	1.49	0.92
50:BT:106:SER:HA	50:BT:110:ILE:HD13	1.49	0.92
4:AD:61:LYS:HA	4:AD:203:VAL:HG22	1.47	0.92
41:DG:111:LEU:HB2	41:DG:112:PRO:CD	1.99	0.92
52:DV:38:LEU:HD23	52:DV:39:LEU:N	1.84	0.92
35:DA:2284:C:C2'	35:DA:2285:C:H5''	2.00	0.92
35:BA:2693:A:H2'	35:BA:2694:G:C8	2.05	0.92
46:DP:30:THR:HG22	46:DP:31:ALA:H	1.29	0.92
55:BY:28:LYS:HZ1	55:BY:37:VAL:HA	1.34	0.92
35:DA:1657:C:H2'	35:DA:1658:C:H6	1.33	0.92
31:B5:44:THR:HG22	31:B5:45:VAL:H	1.30	0.92
35:DA:2175:C:H2'	35:DA:2176:A:H5''	1.52	0.92
44:BN:9:VAL:HG11	44:BN:39:ARG:HH22	1.30	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DY:87:LYS:HG3	55:DY:89:PHE:H	1.31	0.92
54:DX:60:ARG:HG2	54:DX:74:PRO:HD2	1.49	0.92
27:D1:13:ILE:HG13	27:D1:14:VAL:N	1.83	0.92
47:BQ:12:GLN:HG2	47:BQ:73:PRO:HD2	1.51	0.92
25:AY:63:PRO:HB2	25:AY:64:ARG:NH1	1.82	0.92
35:DA:287:C:N4	35:DA:354:G:H1	1.66	0.92
1:AA:559:A:H4'	1:AA:560:U:H5''	1.50	0.92
39:BE:51:PHE:H	39:BE:74:PRO:CG	1.82	0.92
27:D1:13:ILE:HG13	27:D1:14:VAL:H	1.35	0.92
46:BP:47:ASP:HB2	46:BP:51:PHE:HB2	1.50	0.92
2:CB:71:VAL:HG22	2:CB:93:VAL:N	1.83	0.92
35:DA:1747(A):G:C2'	35:DA:1748:G:H5''	2.00	0.92
7:AG:79:ARG:HE	7:AG:84:ASN:HD21	1.18	0.92
12:CL:69:TYR:O	12:CL:71:PRO:HD3	1.69	0.92
53:BW:29:LEU:HD21	53:BW:33:ARG:NE	1.83	0.92
35:BA:2314:C:H5'	41:BG:38:VAL:HG11	1.52	0.92
1:AA:452:A:HO2'	1:AA:453:A:H8	0.95	0.92
31:D5:44:THR:HG22	31:D5:45:VAL:H	1.32	0.92
35:BA:271(D):G:H1	35:BA:271(T):C:H42	0.94	0.92
1:AA:1349:A:H3'	9:AI:118:LYS:HE3	1.50	0.92
18:CR:58:LEU:HD12	18:CR:58:LEU:H	1.33	0.92
5:CE:98:THR:HB	5:CE:117:ASP:HB3	1.52	0.92
34:B8:30:ARG:HH21	46:BP:62:LEU:HB2	1.35	0.92
27:B1:64:ALA:O	27:B1:67:ILE:HG13	1.70	0.92
35:DA:1024:G:H3'	35:DA:1025:G:H5''	1.48	0.92
25:CY:126:ARG:HA	25:CY:129:ILE:HD12	1.52	0.92
29:B3:56:VAL:HG12	29:B3:57:GLU:H	1.35	0.92
41:BG:46:ALA:HB1	41:BG:88:ILE:HD13	1.50	0.92
35:BA:364:C:H2'	35:BA:365:C:H5''	1.52	0.92
1:CA:522:C:H41	12:CL:53:ARG:HH21	1.08	0.92
35:BA:287:C:N4	35:BA:354:G:H1	1.68	0.92
31:B5:31:VAL:HB	31:B5:32:PRO:HD2	1.51	0.92
54:DX:25:LYS:NZ	54:DX:87:GLN:H	1.67	0.92
56:BZ:56:VAL:HG22	56:BZ:70:LEU:HG	1.52	0.92
53:BW:78:GLU:OE2	53:BW:99:ARG:HD2	1.69	0.92
48:BR:38:VAL:HB	48:BR:39:PRO:HD3	1.48	0.92
35:DA:2334:G:H5'	49:DS:13:ARG:HG2	1.50	0.92
35:DA:2538:C:O2'	35:DA:2539:C:H5'	1.70	0.92
35:DA:2758:A:C2'	35:DA:2759:G:H5''	1.99	0.92
51:BU:66:ASN:ND2	51:BU:70:ARG:HH21	1.66	0.92
56:DZ:166:SER:HB2	56:DZ:167:PRO:CA	1.99	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BZ:149:SER:HB3	56:BZ:173:ALA:HA	1.50	0.92
2:CB:172:ILE:H	2:CB:172:ILE:HD12	1.32	0.92
4:AD:18:LYS:HZ3	4:AD:33:MET:HB3	1.34	0.92
56:DZ:110:GLY:O	56:DZ:112:ARG:N	2.02	0.92
50:DT:47:GLY:HA2	50:DT:65:LYS:HB2	1.51	0.91
35:BA:1791:A:H5'	38:BD:206:LEU:HD13	1.51	0.91
41:DG:91:ARG:HD2	41:DG:92:VAL:N	1.85	0.91
51:BU:106:PHE:HA	51:BU:109:LEU:HD12	1.52	0.91
35:DA:1348:G:C2'	35:DA:1349:A:H5''	2.00	0.91
51:DU:92:ARG:HG2	51:DU:95:LEU:H	1.35	0.91
55:BY:88:LYS:NZ	55:BY:93:GLY:H	1.68	0.91
27:D1:25:LYS:HG3	27:D1:37:ILE:HG21	1.51	0.91
1:AA:1347:G:N2	1:AA:1373:G:H2'	1.86	0.91
46:BP:85:LEU:HD23	46:BP:85:LEU:H	1.32	0.91
47:DQ:108:GLY:HA3	56:DZ:116:VAL:HG21	1.49	0.91
35:BA:2753:A:O2'	35:BA:2754:U:H5'	1.69	0.91
43:BI:92:VAL:HG11	43:BI:120:ILE:HD12	1.51	0.91
53:DW:29:LEU:CD2	53:DW:33:ARG:HE	1.83	0.91
38:BD:35:LYS:HG2	38:BD:64:ILE:N	1.84	0.91
28:D2:26:ARG:HH22	54:DX:6:ASP:HA	1.35	0.91
26:B0:70:GLN:HG2	26:B0:71:ASP:N	1.85	0.91
2:CB:236:TYR:HA	2:CB:239:VAL:CG2	2.01	0.91
4:AD:108:LEU:HB3	4:AD:110:PHE:HE1	1.33	0.91
11:CK:29:ILE:HG22	11:CK:44:SER:HB3	1.51	0.91
35:DA:1177:A:OP1	35:DA:1177:A:H3'	1.70	0.91
53:DW:29:LEU:HD21	53:DW:33:ARG:NE	1.85	0.91
27:B1:51:VAL:O	27:B1:60:PHE:HB2	1.71	0.91
44:BN:65:LYS:O	44:BN:69:GLN:HB2	1.71	0.91
26:D0:32:ARG:H	26:D0:35:ASN:ND2	1.67	0.91
9:CI:28:VAL:HG13	9:CI:64:THR:HA	1.48	0.91
35:DA:364:C:H2'	35:DA:365:C:H5''	1.51	0.91
35:BA:1039:G:H1	35:BA:1116:C:H42	1.15	0.91
1:AA:1169:A:H2'	1:AA:1170:A:C8	2.04	0.91
41:DG:11:TYR:O	41:DG:16:ARG:HB2	1.69	0.91
1:CA:1403:C:H1'	1:CA:1500:A:N1	1.85	0.91
1:CA:1194:U:H2'	1:CA:1195:C:C6	2.05	0.91
1:CA:1169:A:H2'	1:CA:1170:A:C8	2.04	0.91
44:DN:65:LYS:O	44:DN:69:GLN:HB2	1.71	0.91
35:BA:2820:A:H4'	48:BR:5:LYS:HE2	1.50	0.91
1:CA:954:G:H4'	13:CM:120:LYS:HG3	1.53	0.91
46:BP:85:LEU:HA	46:BP:88:LEU:HB3	1.53	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:D7:24:THR:HG23	33:D7:27:GLY:HA3	1.50	0.91
54:DX:65:ARG:HA	54:DX:65:ARG:HE	1.35	0.91
45:DO:103:ALA:HA	45:DO:122:LEU:O	1.69	0.91
38:DD:44:ASN:HB3	38:DD:49:ILE:HA	1.52	0.91
38:DD:161:THR:HG1	38:DD:196:VAL:HG21	1.31	0.91
52:BV:62:LEU:HD22	52:BV:96:ILE:HD13	1.53	0.91
47:BQ:39:PRO:CB	47:BQ:99:PRO:HD3	2.01	0.91
2:AB:71:VAL:HG22	2:AB:93:VAL:N	1.84	0.91
40:DF:158:THR:HG21	40:DF:163:VAL:HB	1.53	0.91
55:BY:28:LYS:NZ	55:BY:30:VAL:HA	1.86	0.91
1:CA:1347:G:N2	1:CA:1373:G:H2'	1.86	0.91
35:BA:2297:C:H2'	35:BA:2298:A:H5'	1.53	0.91
47:BQ:141:GLN:HB3	56:BZ:70:LEU:HD13	1.53	0.91
40:BF:114:VAL:HG23	40:BF:115:ALA:H	1.36	0.91
35:BA:27:G:H22	35:BA:512:G:H2'	1.34	0.91
2:CB:47:THR:HG23	2:CB:202:PRO:HG2	1.52	0.91
16:AP:4:ILE:HB	16:AP:66:PRO:HB3	1.51	0.91
42:BH:43:VAL:HG21	42:BH:52:VAL:HG22	1.52	0.91
35:DA:272(D):G:H1	35:DA:364:C:H42	1.19	0.91
35:DA:549:G:H2'	35:DA:551:G:H5''	1.50	0.91
12:AL:69:TYR:O	12:AL:71:PRO:HD3	1.70	0.91
35:DA:144:C:H2'	35:DA:145:G:H8	1.35	0.91
11:CK:22:HIS:HB3	11:CK:29:ILE:HG13	1.52	0.91
1:AA:954:G:H4'	13:AM:120:LYS:HG3	1.51	0.91
19:AS:53:ASN:HD21	19:AS:56:GLN:H	1.18	0.91
46:DP:115:LEU:HA	46:DP:134:ALA:HB1	1.53	0.91
35:BA:1986:A:H3'	35:BA:1987:G:H5''	1.53	0.91
50:BT:38:ASN:HD22	50:BT:40:THR:H	1.13	0.91
35:DA:2051:A:O3'	39:DE:141:ILE:HD11	1.71	0.91
40:BF:103:LYS:HG2	40:BF:106:ARG:HH21	1.35	0.91
35:BA:26:G:H1'	35:BA:515:A:H61	1.35	0.91
8:AH:12:ARG:NH1	8:AH:27:PRO:HD3	1.85	0.91
5:CE:147:ASP:HA	5:CE:150:ARG:HH11	1.36	0.91
35:BA:1177:A:OP2	35:BA:1177:A:H3'	1.70	0.91
2:AB:71:VAL:HG13	2:AB:93:VAL:O	1.71	0.90
46:DP:39:LYS:CD	46:DP:40:SER:H	1.85	0.90
18:CR:56:THR:HB	18:CR:58:LEU:HD13	1.53	0.90
35:DA:740:U:H2'	35:DA:741:G:C8	2.05	0.90
38:DD:36:PRO:HG3	38:DD:61:LEU:HD21	1.52	0.90
35:BA:93:G:H2'	35:BA:94:C:C6	2.07	0.90
54:BX:55:ASN:C	54:BX:77:LYS:HG3	1.92	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:108:LEU:HB3	4:CD:110:PHE:HE1	1.34	0.90
4:CD:18:LYS:HZ3	4:CD:33:MET:HB3	1.34	0.90
5:CE:43:LEU:HD21	5:CE:132:ALA:HB1	1.50	0.90
41:DG:114:ILE:CG2	41:DG:117:PHE:HB2	2.02	0.90
38:BD:14:ARG:HB2	38:BD:14:ARG:HH11	1.36	0.90
52:BV:38:LEU:HD23	52:BV:39:LEU:N	1.87	0.90
34:B8:22:VAL:HB	34:B8:53:PRO:HB2	1.53	0.90
55:BY:87:LYS:HG3	55:BY:89:PHE:H	1.32	0.90
20:AT:73:HIS:HB3	20:AT:74:LYS:HD3	1.51	0.90
8:CH:33:GLU:HA	8:CH:36:LEU:HD12	1.52	0.90
1:AA:1116:C:H2'	1:AA:1117:G:H5''	1.52	0.90
38:BD:76:PRO:HG2	38:BD:98:VAL:HG21	1.52	0.90
42:DH:13:LYS:HA	42:DH:13:LYS:HE2	1.51	0.90
50:DT:23:ARG:O	50:DT:25:GLY:N	2.04	0.90
38:DD:35:LYS:HG2	38:DD:64:ILE:N	1.86	0.90
52:BV:32:THR:HG22	52:BV:33:VAL:H	1.37	0.90
35:DA:903:C:H2'	35:DA:904:C:C6	2.05	0.90
44:BN:74:ARG:NH2	44:BN:101:HIS:HB3	1.87	0.90
44:BN:120:LEU:HD11	44:BN:122:VAL:HG23	1.54	0.90
34:D8:22:VAL:HB	34:D8:53:PRO:HB2	1.52	0.90
1:AA:908:A:H2'	1:AA:909:A:C8	2.06	0.90
35:BA:549:G:H2'	35:BA:551:G:H5''	1.50	0.90
41:DG:7:LEU:HA	41:DG:10:LYS:HB2	1.51	0.90
52:BV:18:LEU:HD22	52:BV:19:LYS:N	1.86	0.90
35:BA:2426:A:H3'	35:BA:2427:C:C5'	2.02	0.90
31:D5:20:ARG:HH12	53:DW:15:ARG:NH2	1.68	0.90
51:DU:17:ILE:HA	51:DU:20:LEU:HD23	1.51	0.90
55:DY:45:VAL:HG22	55:DY:62:GLU:HB2	1.54	0.90
45:DO:61:VAL:O	45:DO:84:ALA:HB1	1.70	0.90
35:BA:2758:A:C2'	35:BA:2759:G:H5''	2.01	0.90
51:DU:64:ARG:CB	51:DU:64:ARG:HH21	1.83	0.90
3:AC:15:THR:HG22	3:AC:16:ARG:NH1	1.86	0.90
55:BY:31:LEU:HB3	55:BY:32:PRO:CA	2.02	0.90
56:BZ:110:GLY:C	56:BZ:112:ARG:H	1.69	0.90
15:CO:9:GLN:HB3	15:CO:13:GLN:HE21	1.35	0.90
47:DQ:34:LEU:HD11	47:DQ:129:THR:HB	1.53	0.90
43:DI:144:VAL:HG12	43:DI:145:VAL:HG23	1.54	0.90
1:AA:1469:G:H2'	1:AA:1470:G:C8	2.05	0.90
49:DS:25:ARG:HH21	49:DS:89:ARG:HH12	1.17	0.90
2:CB:71:VAL:HG13	2:CB:93:VAL:O	1.72	0.90
13:AM:118:ALA:HB1	13:AM:119:GLY:N	1.86	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:383:A:H2'	1:AA:384:G:H5'	1.52	0.90
1:AA:266:G:H5''	1:AA:268:C:H41	1.36	0.90
41:DG:114:ILE:HG22	41:DG:115:ARG:H	1.35	0.90
50:BT:28:VAL:HG21	50:BT:47:GLY:N	1.86	0.90
54:BX:73:ARG:H	54:BX:74:PRO:CD	1.85	0.90
2:AB:236:TYR:HA	2:AB:239:VAL:CG2	2.02	0.90
47:DQ:133:ARG:O	47:DQ:134:ARG:HB2	1.68	0.90
52:DV:62:LEU:HD22	52:DV:96:ILE:HD13	1.53	0.90
27:D1:75:GLU:HB2	27:D1:76:ARG:NH2	1.87	0.90
2:AB:187:LEU:HD13	2:AB:187:LEU:O	1.72	0.90
35:BA:1747(A):G:C2'	35:BA:1748:G:H5''	2.02	0.90
34:D8:53:PRO:HA	34:D8:56:GLU:OE1	1.71	0.90
8:CH:129:VAL:HG23	8:CH:130:GLY:H	1.37	0.90
46:BP:101:VAL:HG23	46:BP:107:LYS:HA	1.54	0.90
1:AA:489:C:H2'	1:AA:490:G:H8	1.36	0.90
8:CH:82:HIS:HD2	8:CH:138:TRP:HE1	1.18	0.90
35:DA:2092:U:H4'	35:DA:2093:G:H5''	1.51	0.90
56:DZ:27:VAL:HA	56:DZ:36:LYS:HA	1.53	0.90
51:DU:66:ASN:ND2	51:DU:70:ARG:HH21	1.69	0.90
19:AS:70:LYS:HB3	19:AS:70:LYS:HZ3	1.36	0.90
55:DY:28:LYS:NZ	55:DY:30:VAL:HA	1.86	0.90
55:DY:31:LEU:HB3	55:DY:32:PRO:HA	1.50	0.90
4:AD:11:LEU:C	4:AD:13:ARG:H	1.74	0.90
35:DA:2426:A:H3'	35:DA:2427:C:C5'	2.01	0.90
1:CA:452:A:HO2'	1:CA:453:A:H8	0.95	0.90
35:DA:2310:A:O2'	35:DA:2311:A:H5'	1.72	0.90
50:BT:120:ARG:O	50:BT:124:ASP:HB2	1.71	0.90
40:BF:63:LYS:NZ	40:BF:67:GLN:HB3	1.87	0.90
11:AK:22:HIS:HB3	11:AK:29:ILE:HG13	1.52	0.90
1:AA:955:U:H1'	1:AA:1227:A:H61	1.34	0.90
46:BP:115:LEU:HA	46:BP:134:ALA:HB1	1.51	0.90
7:CG:69:VAL:HA	7:CG:138:LYS:HD2	1.55	0.90
46:DP:75:ILE:HD12	46:DP:75:ILE:H	1.36	0.90
8:CH:30:ARG:HH11	8:CH:30:ARG:HB3	1.35	0.90
1:CA:979:C:H3'	1:CA:980:C:C5'	2.01	0.89
16:CP:20:VAL:CG2	16:CP:32:TYR:HB2	2.02	0.89
35:BA:2850:A:H2'	35:BA:2851:A:H8	1.35	0.89
49:DS:89:ARG:HA	49:DS:89:ARG:HE	1.37	0.89
47:DQ:12:GLN:HG2	47:DQ:73:PRO:HD2	1.52	0.89
35:BA:287:C:H42	35:BA:354:G:H1	0.90	0.89
9:CI:50:LEU:HD21	9:CI:81:ILE:HG21	1.54	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:60:LYS:HA	7:CG:63:LYS:HB3	1.54	0.89
23:AW:10:G:N2	23:AW:27:G:H1'	1.86	0.89
50:BT:13:ARG:HA	50:BT:13:ARG:NE	1.87	0.89
40:BF:129:PHE:HA	40:BF:142:TRP:HE1	1.36	0.89
35:BA:1403:C:H5''	35:BA:1471:A:H1'	1.53	0.89
8:AH:30:ARG:HB3	8:AH:30:ARG:HH11	1.34	0.89
35:DA:491:G:H2'	35:DA:492:A:H8	1.34	0.89
38:DD:35:LYS:HB3	38:DD:63:ARG:HA	1.54	0.89
51:DU:66:ASN:HD21	51:DU:70:ARG:HH21	0.90	0.89
42:DH:66:GLY:HA2	42:DH:69:ARG:HB2	1.54	0.89
18:AR:56:THR:HB	18:AR:58:LEU:HD13	1.52	0.89
54:BX:25:LYS:NZ	54:BX:87:GLN:H	1.69	0.89
15:AO:9:GLN:HB3	15:AO:13:GLN:HE21	1.36	0.89
38:DD:131:LEU:HA	38:DD:190:TYR:CE2	2.07	0.89
50:DT:80:SER:HB3	50:DT:81:PRO:HD2	1.52	0.89
38:BD:35:LYS:HB3	38:BD:63:ARG:HA	1.55	0.89
39:DE:116:VAL:HG21	39:DE:122:PHE:CD2	2.08	0.89
35:BA:1348:G:C2'	35:BA:1349:A:H5''	2.01	0.89
35:DA:1019:U:H3	35:DA:1142(A):A:H62	1.17	0.89
44:DN:120:LEU:HD11	44:DN:122:VAL:HG23	1.52	0.89
33:B7:24:THR:HG23	33:B7:27:GLY:HA3	1.53	0.89
5:AE:33:VAL:HG22	5:AE:43:LEU:HD13	1.55	0.89
9:AI:50:LEU:HD21	9:AI:81:ILE:HG21	1.53	0.89
46:DP:112:LEU:HD11	46:DP:114:ILE:HG23	1.54	0.89
56:BZ:17:ALA:HA	56:BZ:20:ARG:HB3	1.51	0.89
35:BA:2591:C:H2'	35:BA:2592:G:C8	2.07	0.89
35:DA:2693:A:H2'	35:DA:2694:G:C8	2.07	0.89
1:AA:979:C:H3'	1:AA:980:C:C5'	2.01	0.89
42:BH:123:PHE:HA	42:BH:133:VAL:HG22	1.53	0.89
49:BS:25:ARG:HH21	49:BS:89:ARG:HH12	1.20	0.89
27:D1:9:GLY:H	27:D1:48:LYS:HZ3	1.17	0.89
35:BA:2712:U:O2'	35:BA:2712(A):A:H5''	1.72	0.89
1:CA:955:U:H1'	1:CA:1227:A:H61	1.35	0.89
8:AH:97:VAL:HG13	8:AH:98:LYS:H	1.37	0.89
53:DW:78:GLU:OE2	53:DW:99:ARG:HD2	1.73	0.89
40:BF:158:THR:HG21	40:BF:163:VAL:HB	1.52	0.89
27:B1:58:ILE:HD13	27:B1:59:THR:N	1.86	0.89
19:CS:53:ASN:HD21	19:CS:56:GLN:H	1.20	0.89
50:DT:120:ARG:O	50:DT:124:ASP:HB2	1.73	0.89
43:BI:79:ILE:HG12	43:BI:140:LEU:HD11	1.54	0.89
43:BI:144:VAL:HG12	43:BI:145:VAL:HG23	1.53	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B1:48:LYS:HG3	27:B1:49:VAL:H	1.37	0.89
56:DZ:97:GLU:HB3	56:DZ:125:LEU:HD21	1.54	0.89
2:CB:96:ARG:N	2:CB:96:ARG:HD2	1.88	0.89
35:DA:689:A:H2'	35:DA:690:G:C8	2.08	0.89
35:DA:2740:A:H2'	35:DA:2741:A:C8	2.07	0.89
27:D1:21:ARG:C	27:D1:21:ARG:HD3	1.93	0.89
1:AA:678:U:H2'	1:AA:679:C:C6	2.07	0.89
54:BX:60:ARG:HG3	54:BX:72:LYS:H	1.35	0.89
55:DY:88:LYS:HZ3	55:DY:93:GLY:H	0.92	0.89
49:BS:89:ARG:HA	49:BS:89:ARG:HE	1.36	0.89
35:DA:271(D):G:H1	35:DA:271(T):C:H42	0.96	0.89
40:BF:53:THR:H	40:BF:56:GLU:HB2	1.34	0.89
1:AA:707:C:H4'	11:AK:20:TYR:CD1	2.06	0.89
9:CI:19:LEU:HD23	9:CI:61:ALA:HA	1.55	0.89
35:DA:2276:G:H5'	47:DQ:84:GLY:HA2	1.54	0.89
46:BP:77:ARG:HB2	46:BP:78:PRO:HD2	1.54	0.89
35:DA:2712:U:O2'	35:DA:2712(A):A:H5''	1.72	0.89
56:BZ:103:ARG:HB2	56:BZ:138:GLU:HA	1.51	0.89
35:DA:903:C:H2'	35:DA:904:C:H6	1.36	0.89
40:DF:39:TRP:CD1	40:DF:101:LEU:HB2	2.08	0.89
8:AH:20:TYR:HA	8:AH:65:TYR:CE2	2.08	0.89
1:CA:528:C:H41	12:CL:49:ASN:ND2	1.71	0.89
38:BD:131:LEU:HD13	38:BD:136:ILE:HG12	1.54	0.89
56:BZ:58:VAL:HG22	56:BZ:68:PRO:HA	1.55	0.89
4:CD:11:LEU:C	4:CD:13:ARG:H	1.72	0.89
2:AB:165:VAL:HG23	2:AB:166:ASP:N	1.86	0.89
35:DA:26:G:H1'	35:DA:515:A:H61	1.38	0.89
8:CH:12:ARG:NH1	8:CH:27:PRO:HD3	1.87	0.89
1:CA:707:C:H4'	11:CK:20:TYR:CD1	2.08	0.89
38:BD:44:ASN:HB2	38:BD:48:ARG:O	1.73	0.89
27:B1:47:GLN:CG	35:BA:2230:G:H1'	1.96	0.89
47:BQ:34:LEU:HD11	47:BQ:129:THR:HB	1.53	0.89
2:AB:42:ILE:HD11	2:AB:202:PRO:HB2	1.55	0.89
35:DA:287:C:H42	35:DA:354:G:H1	0.89	0.89
35:BA:2175:C:H2'	35:BA:2176:A:H5''	1.53	0.89
1:CA:932:C:H5''	7:CG:3:ARG:HD2	1.53	0.89
55:DY:45:VAL:HG13	55:DY:62:GLU:OE2	1.71	0.88
41:DG:37:VAL:HG23	41:DG:99:MET:HG3	1.55	0.88
41:BG:72:ARG:HB3	41:BG:86:MET:H	1.37	0.88
52:BV:72:VAL:HG12	52:BV:73:SER:H	1.38	0.88
35:BA:2672:G:H2'	35:BA:2673:G:H5''	1.55	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DT:65:LYS:HA	50:DT:65:LYS:NZ	1.87	0.88
42:DH:123:PHE:HA	42:DH:133:VAL:HG22	1.56	0.88
51:DU:106:PHE:HA	51:DU:109:LEU:HD12	1.52	0.88
4:AD:100:ARG:HH12	4:AD:137:SER:HA	1.38	0.88
5:AE:98:THR:HB	5:AE:117:ASP:HB3	1.53	0.88
35:DA:2297:C:H2'	35:DA:2298:A:H5'	1.52	0.88
50:BT:80:SER:HB3	50:BT:81:PRO:HD2	1.52	0.88
2:AB:96:ARG:N	2:AB:96:ARG:HD2	1.87	0.88
41:BG:153:ARG:HG3	41:BG:153:ARG:HH11	1.37	0.88
27:D1:86:SER:HA	27:D1:89:GLU:OE1	1.73	0.88
35:DA:1255:U:C5'	35:DA:1256:G:H5''	2.03	0.88
42:DH:43:VAL:HG21	42:DH:52:VAL:HG22	1.55	0.88
38:DD:44:ASN:HB2	38:DD:48:ARG:O	1.72	0.88
38:BD:18:VAL:HG23	38:BD:211:ARG:HH21	1.38	0.88
38:BD:94:LEU:HD12	38:BD:94:LEU:H	1.36	0.88
39:BE:51:PHE:N	39:BE:74:PRO:HG3	1.87	0.88
34:B8:52:LYS:N	34:B8:53:PRO:HD2	1.87	0.88
46:BP:23:PRO:HB2	46:BP:33:ARG:CD	2.03	0.88
52:DV:72:VAL:HG12	52:DV:73:SER:H	1.36	0.88
19:AS:16:LEU:O	19:AS:20:LEU:HG	1.73	0.88
43:BI:2:LYS:HB2	43:BI:39:ALA:HB2	1.56	0.88
8:AH:33:GLU:HA	8:AH:36:LEU:HD12	1.54	0.88
35:BA:1986:A:C3'	35:BA:1987:G:H5''	2.02	0.88
1:CA:625:G:H2'	1:CA:626:U:H6	1.38	0.88
31:B5:20:ARG:HH12	53:BW:15:ARG:NH2	1.71	0.88
39:DE:137:HIS:HB3	39:DE:138:PRO:HD2	1.54	0.88
41:DG:32:PRO:HB2	41:DG:172:LEU:HD13	1.54	0.88
41:BG:27:ASN:ND2	41:BG:29:TRP:HB2	1.89	0.88
19:CS:16:LEU:O	19:CS:20:LEU:HG	1.73	0.88
55:BY:45:VAL:HG22	55:BY:62:GLU:HB2	1.56	0.88
27:D1:67:ILE:N	27:D1:68:PRO:HD2	1.89	0.88
34:B8:53:PRO:HA	34:B8:56:GLU:OE1	1.74	0.88
35:DA:570:G:H2'	35:DA:2030:A:N7	1.89	0.88
8:CH:97:VAL:HG13	8:CH:98:LYS:H	1.39	0.88
38:BD:36:PRO:HG3	38:BD:61:LEU:HD21	1.54	0.88
46:DP:7:ARG:HB3	46:DP:8:PRO:HD3	1.54	0.88
42:BH:19:VAL:HG21	42:BH:44:VAL:HA	1.55	0.88
35:DA:521:G:H2'	35:DA:522:G:H8	1.38	0.88
14:AN:8:GLU:HB2	14:AN:12:ARG:HH11	1.37	0.88
35:BA:144:C:H2'	35:BA:145:G:H8	1.37	0.88
50:DT:13:ARG:HA	50:DT:13:ARG:NE	1.89	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:45:LEU:HD12	6:CF:46:ARG:H	1.36	0.88
47:BQ:133:ARG:O	47:BQ:134:ARG:HB2	1.73	0.88
51:DU:92:ARG:HD3	51:DU:94:ASN:HD22	1.38	0.88
25:AY:70:SER:HB3	25:AY:76:LEU:HD12	1.55	0.88
12:CL:6:THR:HG22	12:CL:9:GLN:HG3	1.54	0.88
35:DA:2282:G:H1	35:DA:2427:C:H42	1.21	0.88
35:BA:1930:G:N2	35:BA:1968:G:H2'	1.88	0.88
35:DA:1403:C:H5''	35:DA:1471:A:H1'	1.54	0.88
35:DA:1230:C:H2'	35:DA:1231:G:H8	1.37	0.88
28:D2:60:LEU:HG	28:D2:61:LEU:H	1.38	0.88
56:DZ:48:PHE:HE2	56:DZ:71:VAL:HG21	1.36	0.88
40:DF:53:THR:H	40:DF:56:GLU:HB2	1.38	0.88
6:AF:68:PRO:HG3	6:AF:71:ARG:HH21	1.37	0.88
1:AA:591:U:H2'	1:AA:592:G:C8	2.09	0.88
35:DA:708:C:H42	35:DA:723:G:H1	1.21	0.88
3:AC:79:ARG:HH12	11:CK:99:GLN:HB3	1.38	0.88
23:AW:73:A:OP1	35:BA:1852:C:H5'	1.74	0.88
39:DE:51:PHE:H	39:DE:74:PRO:CG	1.85	0.88
35:DA:93:G:H2'	35:DA:94:C:C6	2.08	0.88
52:BV:71:LEU:HD13	52:BV:72:VAL:H	1.38	0.88
1:CA:673:G:H2'	1:CA:674:G:C8	2.08	0.88
26:D0:70:GLN:HG2	26:D0:71:ASP:N	1.85	0.88
25:AY:3:LEU:H	25:AY:3:LEU:HD12	1.39	0.88
3:AC:105:GLU:HG2	3:AC:106:VAL:H	1.38	0.88
50:BT:65:LYS:HA	50:BT:65:LYS:NZ	1.89	0.88
35:BA:570:G:H2'	35:BA:2030:A:N7	1.86	0.88
42:DH:19:VAL:HG21	42:DH:44:VAL:HA	1.53	0.88
1:CA:1458:G:H2'	1:CA:1459:C:C6	2.09	0.88
46:BP:127:ALA:HB3	46:BP:130:PHE:CE2	2.08	0.88
35:DA:484:C:H2'	35:DA:485:C:C6	2.08	0.87
39:DE:52:LEU:HB2	39:DE:76:ARG:HB2	1.55	0.87
43:BI:72:LEU:HD12	43:BI:138:ILE:CD1	2.04	0.87
4:AD:100:ARG:NH1	4:AD:137:SER:HA	1.89	0.87
25:CY:18:LEU:HG	25:CY:19:GLU:N	1.89	0.87
8:AH:6:ILE:HG21	8:AH:85:ARG:NH1	1.89	0.87
42:BH:66:GLY:HA2	42:BH:69:ARG:HB2	1.54	0.87
23:CW:1:C:H42	23:CW:74:A:H61	1.20	0.87
35:DA:1986:A:C3'	35:DA:1987:G:H5''	2.04	0.87
35:BA:2310:A:O2'	35:BA:2311:A:H5'	1.73	0.87
1:AA:878:G:C5'	8:AH:89:PRO:HG2	2.03	0.87
56:DZ:26:GLY:HA3	56:DZ:37:VAL:O	1.74	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BI:102:SER:HB2	43:BI:109:ILE:HG12	1.57	0.87
35:DA:2672:G:H2'	35:DA:2673:G:H5''	1.54	0.87
16:AP:20:VAL:CG2	16:AP:32:TYR:HB2	2.05	0.87
56:DZ:149:SER:CB	56:DZ:173:ALA:HA	2.04	0.87
27:D1:9:GLY:H	27:D1:48:LYS:NZ	1.71	0.87
25:CY:15:GLN:HA	25:CY:18:LEU:HD23	1.57	0.87
43:DI:2:LYS:HB2	43:DI:39:ALA:HB2	1.55	0.87
46:DP:85:LEU:HA	46:DP:88:LEU:HB3	1.56	0.87
46:BP:112:LEU:HD11	46:BP:114:ILE:HG23	1.57	0.87
44:DN:89:LYS:O	44:DN:93:THR:HG22	1.74	0.87
9:CI:114:TYR:H	9:CI:114:TYR:HD2	1.20	0.87
35:DA:1577:C:H2'	35:DA:1578:U:C6	2.09	0.87
41:BG:178:PHE:HB3	41:BG:180:PHE:HE1	1.39	0.87
56:DZ:56:VAL:HA	56:DZ:70:LEU:CD2	1.99	0.87
35:BA:588:U:H2'	35:BA:589:C:C6	2.10	0.87
55:BY:75:ILE:HD13	55:BY:76:CYS:H	1.38	0.87
42:BH:70:THR:HG22	42:BH:74:ASN:ND2	1.90	0.87
1:CA:1169:A:H2'	1:CA:1170:A:H8	1.38	0.87
46:DP:101:VAL:HG23	46:DP:107:LYS:HA	1.54	0.87
40:BF:178:PRO:HG2	40:BF:179:GLU:H	1.39	0.87
35:DA:769:G:O2'	35:DA:770:G:H5'	1.75	0.87
41:DG:130:ASN:ND2	41:DG:161:THR:H	1.72	0.87
39:BE:30:PRO:HD3	39:BE:180:ASN:HD21	1.39	0.87
55:DY:75:ILE:HD13	55:DY:76:CYS:H	1.38	0.87
54:DX:60:ARG:HG3	54:DX:72:LYS:H	1.38	0.87
38:DD:14:ARG:HB2	38:DD:14:ARG:HH11	1.37	0.87
43:DI:72:LEU:HD12	43:DI:138:ILE:CD1	2.04	0.87
1:CA:1412:C:H2'	1:CA:1413:A:C8	2.09	0.87
45:BO:101:PRO:O	45:BO:102:VAL:HG13	1.75	0.87
28:B2:50:ILE:HG23	28:B2:54:LYS:HD3	1.57	0.87
28:B2:53:LEU:HD12	35:BA:76:C:O3'	1.74	0.87
43:DI:91:SER:CB	43:DI:119:PRO:HB2	2.04	0.87
12:AL:6:THR:HG22	12:AL:9:GLN:HG3	1.55	0.87
35:BA:2831:G:H1'	35:BA:2883:A:H2'	1.57	0.87
40:DF:178:PRO:HG2	40:DF:179:GLU:H	1.37	0.87
41:DG:5:VAL:HG12	41:DG:6:ALA:N	1.89	0.87
16:CP:4:ILE:HB	16:CP:66:PRO:HB3	1.54	0.87
51:BU:92:ARG:HG2	51:BU:95:LEU:H	1.40	0.87
28:D2:14:ARG:HE	28:D2:14:ARG:C	1.78	0.87
43:DI:92:VAL:HG11	43:DI:120:ILE:HD12	1.57	0.87
16:AP:49:LEU:HD11	16:AP:51:VAL:HG23	1.56	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:76:PRO:HG2	38:DD:98:VAL:HG21	1.54	0.87
35:BA:521:G:H2'	35:BA:522:G:H8	1.40	0.87
17:AQ:97:SER:O	17:AQ:98:LEU:HG	1.75	0.87
35:BA:1902:C:H1'	38:BD:244:ARG:HD3	1.55	0.87
35:DA:528:A:H2	35:DA:2043:C:H5'	1.38	0.87
4:CD:100:ARG:HH12	4:CD:137:SER:HA	1.38	0.87
35:BA:1019:U:H3	35:BA:1142(A):A:H62	1.22	0.87
1:AA:1437:C:H42	1:AA:1464:G:H1	1.19	0.87
35:DA:1255:U:H5'	35:DA:1256:G:H5''	1.55	0.87
35:DA:2733:A:N1	39:DE:203:LYS:HA	1.89	0.87
35:BA:2733:A:N1	39:BE:203:LYS:HA	1.89	0.87
40:DF:114:VAL:HG23	40:DF:115:ALA:H	1.39	0.87
35:DA:588:U:H2'	35:DA:589:C:C6	2.10	0.87
35:DA:27:G:N2	35:DA:512:G:H2'	1.90	0.87
16:AP:49:LEU:HD12	16:AP:50:LYS:N	1.90	0.87
1:AA:382:A:H2'	1:AA:383:A:C8	2.10	0.87
38:DD:53:PHE:O	38:DD:54:ARG:HG2	1.74	0.87
35:BA:491:G:H2'	35:BA:492:A:H8	1.38	0.87
35:DA:2206:G:N2	35:DA:2207:G:H5'	1.90	0.87
35:DA:1114:G:H2'	35:DA:1115:G:H5''	1.57	0.87
29:D3:56:VAL:HG12	29:D3:57:GLU:H	1.38	0.87
41:DG:95:ARG:HA	41:DG:95:ARG:HH11	1.40	0.86
27:B1:62:VAL:HG21	27:B1:67:ILE:HA	1.57	0.86
34:D8:30:ARG:HH21	46:DP:62:LEU:HB2	1.40	0.86
27:B1:25:LYS:HB2	27:B1:37:ILE:HD11	1.56	0.86
13:CM:118:ALA:HB1	13:CM:119:GLY:N	1.89	0.86
1:CA:939:G:H5''	7:CG:102:ARG:NH2	1.90	0.86
54:DX:25:LYS:HZ3	54:DX:87:GLN:N	1.73	0.86
16:CP:49:LEU:HD12	16:CP:50:LYS:N	1.90	0.86
41:DG:111:LEU:HA	41:DG:114:ILE:HD11	1.57	0.86
50:BT:30:VAL:HG12	50:BT:44:ASP:HA	1.57	0.86
41:BG:60:LEU:O	41:BG:63:ILE:HG13	1.75	0.86
52:BV:72:VAL:HA	52:BV:88:ARG:HH12	1.38	0.86
9:AI:19:LEU:O	9:AI:20:ARG:HG3	1.74	0.86
1:CA:1116:C:H2'	1:CA:1117:G:H5''	1.54	0.86
55:BY:8:LYS:HD2	55:BY:8:LYS:H	1.39	0.86
54:BX:72:LYS:HG3	54:BX:74:PRO:CD	2.02	0.86
27:B1:13:ILE:HG13	27:B1:14:VAL:H	1.40	0.86
54:DX:55:ASN:C	54:DX:77:LYS:HG3	1.95	0.86
4:CD:100:ARG:NH1	4:CD:137:SER:HA	1.89	0.86
46:BP:47:ASP:HB3	46:BP:48:PRO:C	1.93	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:83:ILE:HD13	8:AH:137:VAL:HG22	1.55	0.86
8:AH:12:ARG:HH12	8:AH:27:PRO:HD3	1.40	0.86
12:CL:47:LYS:HB3	12:CL:48:PRO:HD3	1.57	0.86
1:CA:266:G:H5''	1:CA:268:C:H41	1.39	0.86
41:BG:53:LEU:H	41:BG:53:LEU:HD22	1.40	0.86
35:DA:2704:C:H2'	35:DA:2705:A:H8	1.40	0.86
38:DD:265:PRO:HG2	38:DD:266:SER:H	1.39	0.86
50:BT:50:ILE:HG23	50:BT:99:LEU:CD1	2.06	0.86
35:BA:2206:G:N2	35:BA:2207:G:H5'	1.91	0.86
3:CC:150:LYS:HB3	3:CC:201:TYR:HB2	1.57	0.86
27:D1:77:ALA:C	27:D1:78:LYS:HD2	1.94	0.86
6:CF:7:ASN:O	6:CF:8:ILE:HG13	1.75	0.86
12:AL:6:THR:CG2	12:AL:9:GLN:HG3	2.05	0.86
46:DP:127:ALA:HB3	46:DP:130:PHE:CE2	2.11	0.86
23:AW:19:G:H3'	23:AW:20:G:H5''	1.54	0.86
7:AG:60:LYS:HA	7:AG:63:LYS:HB3	1.57	0.86
43:BI:91:SER:CB	43:BI:119:PRO:HB2	2.04	0.86
44:BN:9:VAL:HG12	44:BN:10:GLU:H	1.41	0.86
51:BU:64:ARG:CB	51:BU:64:ARG:HH21	1.87	0.86
41:BG:4:ASP:HA	41:BG:8:LYS:HD2	1.57	0.86
38:DD:8:PRO:CB	38:DD:14:ARG:HD3	2.06	0.86
44:DN:74:ARG:NH2	44:DN:101:HIS:HB3	1.90	0.86
6:CF:68:PRO:HG3	6:CF:71:ARG:HH21	1.40	0.86
1:AA:736:C:H2'	1:AA:737:A:C8	2.10	0.86
2:CB:67:THR:HG21	2:CB:155:LEU:HG	1.57	0.86
1:CA:34:C:H2'	1:CA:35:G:H8	1.40	0.86
51:DU:3:ARG:HH11	51:DU:3:ARG:HG2	1.38	0.86
35:DA:678:C:H2'	35:DA:679:C:H6	1.39	0.86
1:CA:920:U:H1'	1:CA:1080:A:C2	2.11	0.86
28:B2:37:PHE:CE2	28:B2:40:SER:HA	2.11	0.86
3:CC:15:THR:HG22	3:CC:16:ARG:NH1	1.90	0.86
55:DY:31:LEU:HB3	55:DY:32:PRO:CA	2.04	0.86
8:AH:11:THR:HG23	8:AH:14:ARG:HH12	1.39	0.86
18:AR:53:ARG:HH22	18:AR:60:ALA:N	1.74	0.86
18:CR:53:ARG:HH22	18:CR:60:ALA:N	1.72	0.86
1:AA:1169:A:H2'	1:AA:1170:A:H8	1.38	0.86
46:DP:77:ARG:HB2	46:DP:78:PRO:HD2	1.55	0.86
35:DA:1986:A:H3'	35:DA:1987:G:H5''	1.56	0.86
12:CL:41:ARG:HH11	12:CL:41:ARG:HB3	1.40	0.86
2:AB:97:TRP:CH2	2:AB:173:ALA:HA	2.11	0.86
35:BA:708:C:H42	35:BA:723:G:H1	1.23	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:69:VAL:HA	7:AG:138:LYS:HD2	1.56	0.86
38:BD:53:PHE:O	38:BD:54:ARG:HG2	1.76	0.86
38:DD:27:THR:HG23	38:DD:28:GLU:N	1.91	0.86
51:BU:92:ARG:HD3	51:BU:94:ASN:HD22	1.41	0.86
35:DA:1884:A:C2'	35:DA:1885:A:H5''	2.05	0.86
47:DQ:52:VAL:HG13	47:DQ:53:ALA:N	1.90	0.86
1:CA:434:U:H2'	1:CA:435:C:C6	2.10	0.86
27:B1:22:GLY:HA2	27:B1:39:LYS:HB3	1.58	0.86
47:BQ:75:THR:CA	47:BQ:88:GLY:HA3	2.06	0.86
2:CB:42:ILE:HD11	2:CB:202:PRO:HB2	1.58	0.86
34:D8:59:LYS:C	34:D8:61:LEU:H	1.76	0.86
1:AA:1325:C:H2'	1:AA:1325:C:O2	1.76	0.86
2:CB:97:TRP:CH2	2:CB:173:ALA:HA	2.09	0.86
13:AM:19:LEU:HA	13:AM:22:ILE:HD13	1.57	0.86
1:CA:392:G:H2'	1:CA:393:A:H8	1.40	0.86
1:CA:489:C:H2'	1:CA:490:G:H8	1.38	0.86
35:DA:1925:C:O2'	35:DA:1926:U:H5'	1.75	0.86
6:AF:45:LEU:HD12	6:AF:46:ARG:H	1.39	0.86
1:AA:643:C:H5'	8:AH:31:PHE:CD1	2.09	0.86
39:DE:194:GLY:O	39:DE:196:VAL:HG23	1.75	0.86
35:DA:176:G:O2'	35:DA:177:G:H5'	1.75	0.86
38:DD:226:MET:CE	38:DD:230:ASP:HB3	2.06	0.86
52:DV:72:VAL:HA	52:DV:88:ARG:HH12	1.39	0.86
43:DI:102:SER:HB2	43:DI:109:ILE:HG12	1.58	0.86
46:BP:7:ARG:HB3	46:BP:8:PRO:HD3	1.56	0.86
8:CH:20:TYR:HA	8:CH:65:TYR:CE2	2.10	0.86
31:D5:47:PRO:HA	31:D5:57:VAL:HG11	1.57	0.86
47:DQ:20:ALA:HB2	47:DQ:99:PRO:HG2	1.56	0.86
42:BH:128:PRO:HG2	42:BH:129:THR:HG23	1.58	0.86
48:BR:9:LYS:O	48:BR:10:LEU:HG	1.76	0.86
34:D8:52:LYS:N	34:D8:53:PRO:HD2	1.90	0.86
8:CH:12:ARG:HH12	8:CH:27:PRO:HD3	1.40	0.86
54:DX:25:LYS:HZ3	54:DX:87:GLN:H	0.90	0.86
35:DA:271(U):G:H2'	35:DA:271(V):G:H8	1.39	0.86
41:DG:15:VAL:HG13	41:DG:175:LEU:HB3	1.55	0.86
50:BT:23:ARG:O	50:BT:25:GLY:N	2.08	0.86
56:BZ:102:LEU:HD11	56:BZ:124:ILE:HG23	1.58	0.86
41:BG:170:ARG:HH22	41:BG:182:LYS:HE2	1.39	0.86
45:BO:111:PHE:HB3	45:BO:114:ILE:HD13	1.55	0.86
35:DA:836:G:H2'	35:DA:837:C:C6	2.11	0.86
1:AA:673:G:H2'	1:AA:674:G:C8	2.11	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:103:VAL:HG21	8:CH:109:ILE:O	1.76	0.86
8:AH:103:VAL:HG21	8:AH:109:ILE:O	1.75	0.86
8:CH:6:ILE:HG21	8:CH:85:ARG:NH1	1.89	0.86
54:BX:65:ARG:CZ	54:BX:66:LEU:H	1.89	0.86
44:BN:89:LYS:O	44:BN:93:THR:HG22	1.76	0.86
8:AH:82:HIS:HD2	8:AH:138:TRP:HE1	1.19	0.86
54:DX:62:LYS:HB2	54:DX:68:ARG:HB2	1.58	0.86
13:CM:19:LEU:HA	13:CM:22:ILE:HD13	1.58	0.86
1:AA:1513:A:H2'	1:AA:1514:C:C6	2.10	0.86
16:CP:20:VAL:HG21	16:CP:32:TYR:CB	2.05	0.85
27:B1:94:LEU:HD22	27:B1:95:LEU:N	1.90	0.85
52:DV:18:LEU:HD22	52:DV:19:LYS:N	1.90	0.85
48:BR:24:GLN:HB2	48:BR:44:LEU:HD21	1.57	0.85
25:CY:129:ILE:HA	25:CY:132:ILE:HD11	1.55	0.85
25:CY:3:LEU:HD12	25:CY:3:LEU:N	1.90	0.85
35:BA:740:U:H2'	35:BA:741:G:C8	2.11	0.85
35:DA:2831:G:H1'	35:DA:2883:A:H2'	1.57	0.85
14:CN:8:GLU:HB2	14:CN:12:ARG:HH11	1.38	0.85
9:AI:114:TYR:H	9:AI:114:TYR:HD2	1.21	0.85
55:DY:8:LYS:H	55:DY:8:LYS:HD2	1.41	0.85
52:DV:32:THR:HG22	52:DV:33:VAL:H	1.41	0.85
19:CS:70:LYS:HB3	19:CS:70:LYS:HZ3	1.40	0.85
55:BY:45:VAL:HG13	55:BY:62:GLU:OE2	1.75	0.85
27:D1:60:PHE:HD1	27:D1:70:VAL:HG13	1.40	0.85
47:BQ:8:LYS:HG3	47:BQ:9:TYR:H	1.39	0.85
39:DE:163:GLU:O	39:DE:165:VAL:HG23	1.75	0.85
2:CB:75:LYS:HA	2:CB:78:GLN:NE2	1.91	0.85
46:DP:45:LEU:HD22	46:DP:48:PRO:HB3	1.58	0.85
1:CA:194:C:C2'	1:CA:195:A:H5''	2.06	0.85
35:BA:106:C:H1'	55:BY:2:ARG:HH21	1.37	0.85
56:DZ:163:LEU:HD23	56:DZ:163:LEU:H	1.40	0.85
35:BA:528:A:H2	35:BA:2043:C:H5'	1.41	0.85
47:BQ:127:ILE:HG22	47:BQ:128:LYS:H	1.40	0.85
36:DB:7:G:H4'	49:DS:29:PHE:CD2	2.11	0.85
35:BA:689:A:H2'	35:BA:690:G:C8	2.11	0.85
12:AL:47:LYS:HB3	12:AL:48:PRO:HD3	1.55	0.85
9:CI:19:LEU:O	9:CI:20:ARG:HG3	1.76	0.85
38:DD:77:ALA:HB2	38:DD:97:TYR:HA	1.58	0.85
47:DQ:81:VAL:HG23	47:DQ:82:ARG:NH1	1.90	0.85
35:BA:17:G:H4'	51:BU:25:TRP:CH2	2.11	0.85
38:DD:35:LYS:HE3	38:DD:64:ILE:C	1.97	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:110:LEU:HA	40:BF:183:VAL:HG12	1.58	0.85
35:DA:676:A:H2	35:DA:802:A:H61	1.22	0.85
35:BA:1884:A:C2'	35:BA:1885:A:H5''	2.06	0.85
18:AR:85:LEU:HG	18:AR:86:VAL:H	1.41	0.85
2:CB:171:ALA:HA	2:CB:174:VAL:CG2	2.05	0.85
5:AE:8:GLU:HA	5:AE:34:VAL:HG22	1.57	0.85
27:B1:28:GLY:C	27:B1:30:VAL:H	1.79	0.85
35:DA:377:C:H2'	35:DA:378:C:C6	2.11	0.85
1:AA:1458:G:H2'	1:AA:1459:C:C6	2.11	0.85
45:DO:76:ALA:HB3	50:DT:75:ILE:HB	1.59	0.85
47:DQ:39:PRO:CB	47:DQ:99:PRO:HD3	2.03	0.85
10:AJ:50:ILE:HD11	14:AN:41:ARG:HD2	1.58	0.85
39:DE:30:PRO:HD3	39:DE:180:ASN:HD21	1.42	0.85
1:AA:543:C:H2'	1:AA:544:G:H8	1.41	0.85
1:AA:939:G:H5''	7:AG:102:ARG:NH2	1.90	0.85
38:BD:131:LEU:HA	38:BD:190:TYR:CE2	2.11	0.85
1:CA:678:U:H2'	1:CA:679:C:C6	2.12	0.85
1:CA:1424:C:H2'	1:CA:1425:U:H6	1.41	0.85
6:AF:7:ASN:O	6:AF:8:ILE:HG13	1.75	0.85
35:BA:1590:U:C2'	35:BA:1591:G:H5''	2.06	0.85
35:DA:2262:U:C2'	35:DA:2263:C:H5''	2.06	0.85
35:DA:2262:U:H2'	35:DA:2263:C:H5''	1.59	0.85
17:CQ:40:LYS:HD2	17:CQ:42:TYR:CZ	2.11	0.85
38:BD:161:THR:HG1	38:BD:196:VAL:HG21	1.40	0.85
56:BZ:166:SER:HB2	56:BZ:167:PRO:HA	1.55	0.85
54:BX:56:THR:N	54:BX:77:LYS:HG3	1.90	0.85
34:D8:14:VAL:HG11	34:D8:22:VAL:HG13	1.56	0.85
52:DV:71:LEU:HD13	52:DV:72:VAL:H	1.39	0.85
1:AA:1410:G:H2'	1:AA:1411:C:C6	2.11	0.85
1:AA:1507:A:H2'	1:AA:1508:G:C8	2.12	0.85
2:AB:171:ALA:HA	2:AB:174:VAL:HG23	1.56	0.85
23:CW:19:G:H3'	23:CW:20:G:H5''	1.58	0.85
38:BD:35:LYS:HE3	38:BD:64:ILE:C	1.96	0.85
35:DA:1779:U:C5	35:DA:1784:A:N7	2.44	0.85
52:BV:29:PRO:HD2	52:BV:32:THR:HG1	1.42	0.85
47:BQ:20:ALA:HB2	47:BQ:99:PRO:HG2	1.57	0.85
35:BA:1582:C:HO2'	35:BA:1586:A:H8	1.19	0.85
47:BQ:87:LYS:O	47:BQ:87:LYS:HG3	1.77	0.85
2:CB:222:ILE:HG23	2:CB:223:ILE:HG13	1.59	0.85
1:AA:17:U:H1'	1:AA:1079:G:H21	1.40	0.85
1:AA:1391:U:H2'	1:AA:1392:G:C8	2.12	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:97:C:H2'	35:DA:98:G:H8	1.41	0.85
38:BD:27:THR:HG23	38:BD:28:GLU:N	1.89	0.85
35:DA:729:G:O2'	35:DA:763:G:H4'	1.77	0.85
47:DQ:68:ILE:HD13	47:DQ:68:ILE:H	1.41	0.85
27:B1:19:GLN:HE21	35:BA:379:G:H21	1.22	0.85
3:AC:148:GLY:HA3	3:AC:203:PHE:HB3	1.59	0.85
55:DY:14:LEU:HD12	55:DY:15:VAL:H	1.42	0.85
51:BU:34:LYS:HA	51:BU:34:LYS:HE2	1.59	0.85
1:AA:194:C:C2'	1:AA:195:A:H5''	2.07	0.85
38:BD:186:HIS:HD2	38:BD:188:GLU:H	1.25	0.85
1:AA:932:C:H5''	7:AG:3:ARG:HD2	1.55	0.85
1:CA:198:G:H2'	1:CA:199:G:H8	1.41	0.85
35:DA:2716:U:H2'	35:DA:2717:G:H8	1.42	0.85
51:BU:66:ASN:HD21	51:BU:70:ARG:HH21	0.85	0.85
54:BX:77:LYS:HE3	54:BX:78:LYS:H	1.41	0.85
40:BF:155:LEU:HB2	40:BF:189:THR:HG21	1.59	0.85
55:BY:97:ARG:O	55:BY:97:ARG:HG3	1.77	0.85
5:CE:39:GLY:CA	5:CE:69:VAL:HB	2.07	0.85
29:D3:8:LEU:HA	29:D3:54:VAL:HG22	1.59	0.85
45:DO:31:LYS:C	45:DO:32:TYR:HD1	1.81	0.84
45:DO:69:ILE:HD12	45:DO:69:ILE:H	1.41	0.84
41:DG:135:LEU:HD21	41:DG:140:ILE:HD11	1.57	0.84
39:BE:52:LEU:HB2	39:BE:76:ARG:HB2	1.57	0.84
35:BA:942:G:H5'	46:BP:35:HIS:HB2	1.58	0.84
18:AR:43:PHE:HA	18:AR:51:LEU:HD12	1.57	0.84
35:BA:377:C:H2'	35:BA:378:C:C6	2.11	0.84
35:BA:1577:C:H2'	35:BA:1578:U:C6	2.12	0.84
35:BA:2276:G:H5'	47:BQ:84:GLY:HA2	1.58	0.84
45:DO:79:PHE:HE2	45:DO:101:PRO:HB2	1.41	0.84
27:D1:58:ILE:CD1	27:D1:59:THR:H	1.89	0.84
35:BA:676:A:H2	35:BA:802:A:H61	1.24	0.84
2:CB:165:VAL:HG23	2:CB:166:ASP:N	1.87	0.84
4:AD:155:LEU:O	4:AD:159:ARG:HG2	1.77	0.84
1:CA:1492:A:H2'	1:CA:1493:A:H8	1.41	0.84
7:AG:148:ASN:HD21	23:AW:41:C:H4'	1.41	0.84
17:CQ:74:LEU:HD12	17:CQ:75:ARG:HG2	1.59	0.84
12:AL:41:ARG:HB3	12:AL:41:ARG:HH11	1.42	0.84
48:BR:60:LEU:HD23	48:BR:61:HIS:H	1.41	0.84
40:DF:129:PHE:HA	40:DF:142:TRP:HE1	1.41	0.84
45:BO:79:PHE:HE2	45:BO:101:PRO:HB2	1.42	0.84
45:BO:76:ALA:HB3	50:BT:75:ILE:HB	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DE:51:PHE:N	39:DE:74:PRO:HG3	1.91	0.84
25:CY:68:VAL:O	25:CY:98:ALA:HA	1.77	0.84
31:B5:47:PRO:HA	31:B5:57:VAL:HG11	1.58	0.84
35:BA:272(D):G:H1	35:BA:364:C:H42	1.25	0.84
56:DZ:110:GLY:C	56:DZ:112:ARG:H	1.76	0.84
3:AC:156:ARG:NH2	3:AC:161:GLU:HA	1.91	0.84
32:B6:20:ASN:ND2	32:B6:21:TYR:H	1.74	0.84
47:DQ:127:ILE:HG22	47:DQ:128:LYS:H	1.42	0.84
28:B2:53:LEU:HA	28:B2:56:GLN:HG2	1.59	0.84
34:D8:32:LEU:C	34:D8:34:TRP:N	2.30	0.84
27:D1:85:LEU:HB2	27:D1:87:PRO:HD3	1.57	0.84
48:DR:9:LYS:O	48:DR:10:LEU:HG	1.77	0.84
48:DR:48:VAL:O	48:DR:51:LEU:HB2	1.76	0.84
1:CA:1325:C:H2'	1:CA:1325:C:O2	1.75	0.84
42:DH:26:VAL:O	42:DH:32:GLU:HA	1.77	0.84
8:AH:129:VAL:HG23	8:AH:130:GLY:H	1.39	0.84
16:CP:49:LEU:HD11	16:CP:51:VAL:HG23	1.59	0.84
51:BU:17:ILE:HA	51:BU:20:LEU:HD23	1.59	0.84
35:DA:1301:A:O2'	35:DA:1302:A:H2'	1.77	0.84
1:CA:1508:G:H2'	1:CA:1509:C:H6	1.40	0.84
1:AA:237:C:H4'	17:AQ:25:ARG:HH12	1.41	0.84
34:B8:32:LEU:C	34:B8:34:TRP:N	2.27	0.84
28:D2:27:GLU:O	28:D2:29:LYS:N	2.10	0.84
1:CA:1057:G:H5''	3:CC:154:SER:HB2	1.58	0.84
41:DG:29:TRP:C	41:DG:31:VAL:H	1.77	0.84
49:DS:61:ASN:HD22	49:DS:62:LYS:HE3	1.42	0.84
8:CH:83:ILE:HD13	8:CH:137:VAL:HG22	1.57	0.84
25:CY:41:LEU:H	25:CY:41:LEU:HD12	1.41	0.84
31:D5:2:ALA:HA	35:DA:2015:A:H1'	1.58	0.84
35:DA:2115:G:H4'	35:DA:2166:G:H22	1.42	0.84
38:BD:226:MET:CE	38:BD:230:ASP:HB3	2.07	0.84
44:BN:41:ASP:C	51:BU:64:ARG:NH1	2.31	0.84
27:B1:73:LEU:HA	27:B1:76:ARG:NH1	1.92	0.84
45:DO:111:PHE:HB3	45:DO:114:ILE:HD13	1.57	0.84
1:CA:1057:G:H5''	3:CC:154:SER:CB	2.07	0.84
35:BA:389:G:N2	46:BP:71:VAL:HG11	1.92	0.84
35:DA:1582:C:HO2'	35:DA:1586:A:H8	1.22	0.84
44:BN:16:ILE:HG23	44:BN:54:VAL:HG22	1.58	0.84
40:DF:53:THR:O	40:DF:57:VAL:HG23	1.78	0.84
1:AA:434:U:H2'	1:AA:435:C:C6	2.11	0.84
55:DY:28:LYS:HZ1	55:DY:30:VAL:HA	1.40	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CY:18:LEU:HG	25:CY:19:GLU:H	1.42	0.84
1:AA:551:U:H2'	1:AA:552:U:H6	1.43	0.84
11:AK:22:HIS:O	11:AK:28:THR:HG23	1.78	0.84
11:AK:29:ILE:HG22	11:AK:44:SER:HB3	1.59	0.84
38:DD:144:ALA:HB3	38:DD:192:THR:HG22	1.57	0.84
38:DD:76:PRO:HA	38:DD:118:VAL:HB	1.58	0.84
35:BA:2115:G:H4'	35:BA:2166:G:H22	1.43	0.84
3:CC:156:ARG:NH2	3:CC:161:GLU:HA	1.92	0.84
26:D0:25:ARG:HA	26:D0:29:GLN:HE22	1.41	0.84
36:DB:20:C:H2'	36:DB:21:G:H5''	1.60	0.84
37:BC:59:ARG:HB2	37:BC:62:VAL:HG22	1.58	0.84
35:BA:678:C:H2'	35:BA:679:C:H6	1.41	0.84
35:BA:2704:C:H2'	35:BA:2705:A:H8	1.43	0.84
42:BH:158:HIS:CD2	42:BH:170:ARG:HA	2.13	0.84
47:BQ:25:ASP:HA	56:BZ:78:LYS:NZ	1.93	0.84
41:BG:7:LEU:HA	41:BG:10:LYS:HB2	1.59	0.84
56:DZ:56:VAL:CA	56:DZ:70:LEU:HD21	1.99	0.84
47:BQ:68:ILE:H	47:BQ:68:ILE:HD13	1.40	0.84
55:BY:86:ARG:HB3	55:BY:88:LYS:HZ2	1.42	0.84
2:AB:47:THR:HG23	2:AB:202:PRO:HG2	1.59	0.84
27:D1:33:LYS:HG2	27:D1:34:THR:N	1.92	0.84
2:CB:36:ARG:CZ	2:CB:37:ASN:H	1.91	0.84
35:DA:2348:U:C3'	35:DA:2349:G:H5''	2.08	0.84
43:DI:111:PRO:O	43:DI:112:LYS:HG3	1.77	0.84
1:CA:551:U:H2'	1:CA:552:U:H6	1.43	0.84
1:CA:683:G:H2'	1:CA:684:A:H8	1.43	0.84
35:BA:1484:G:H2'	35:BA:1485:G:H5''	1.59	0.84
42:BH:136:ILE:HD12	42:BH:136:ILE:H	1.42	0.84
35:BA:208:C:H2'	35:BA:209:C:H6	1.41	0.84
5:AE:90:VAL:HG23	5:AE:121:LYS:HB3	1.60	0.84
51:BU:3:ARG:HG2	51:BU:3:ARG:HH11	1.40	0.84
39:BE:194:GLY:O	39:BE:196:VAL:HG23	1.76	0.84
32:D6:20:ASN:ND2	32:D6:21:TYR:H	1.76	0.84
35:DA:2850:A:H2'	35:DA:2851:A:H8	1.42	0.84
28:D2:14:ARG:CG	28:D2:15:LYS:H	1.87	0.84
35:BA:483:A:C1'	55:BY:47:LYS:HG2	2.08	0.84
35:BA:610:G:H22	35:BA:619:G:H1'	1.43	0.84
39:BE:131:ALA:HB3	39:BE:134:ILE:HD11	1.59	0.84
47:BQ:81:VAL:HG23	47:BQ:82:ARG:NH1	1.93	0.84
42:DH:70:THR:HG22	42:DH:74:ASN:ND2	1.92	0.84
35:BA:2262:U:C2'	35:BA:2263:C:H5''	2.08	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:39:GLY:CA	5:AE:69:VAL:HB	2.08	0.84
9:AI:95:LYS:HD3	9:AI:96:LEU:H	1.41	0.84
39:DE:167:VAL:HG22	39:DE:168:MET:H	1.43	0.84
35:BA:271(U):G:H2'	35:BA:271(V):G:H8	1.43	0.84
35:BA:1925:C:O2'	35:BA:1926:U:H5'	1.77	0.84
35:BA:1114:G:H2'	35:BA:1115:G:H5''	1.57	0.84
1:AA:34:C:H2'	1:AA:35:G:H8	1.41	0.84
41:DG:178:PHE:HB3	41:DG:180:PHE:HE1	1.43	0.84
39:DE:116:VAL:HG22	39:DE:122:PHE:HB2	1.57	0.84
44:BN:41:ASP:N	51:BU:64:ARG:HH12	1.75	0.84
2:AB:208:ILE:HA	2:AB:211:ILE:HD12	1.60	0.84
46:DP:62:LEU:CD1	46:DP:62:LEU:H	1.91	0.84
40:BF:53:THR:O	40:BF:57:VAL:HG23	1.78	0.84
48:DR:95:THR:HA	48:DR:117:VAL:HB	1.59	0.84
35:DA:666:G:H4'	46:DP:49:ARG:NH2	1.93	0.84
25:AY:29:ARG:HB3	25:AY:32:ARG:CZ	2.07	0.84
35:BA:1409:C:H2'	35:BA:1410:G:C8	2.12	0.84
11:CK:29:ILE:HG22	11:CK:44:SER:CB	2.07	0.84
31:B5:40:LYS:CE	31:B5:46:CYS:H	1.90	0.84
48:BR:99:LYS:O	48:BR:100:LEU:HD22	1.78	0.84
1:CA:1442(A):G:H3'	1:CA:1442(B):A:C5'	2.07	0.84
27:B1:73:LEU:HD21	27:B1:94:LEU:HD23	1.57	0.84
2:AB:75:LYS:HA	2:AB:78:GLN:NE2	1.92	0.84
41:BG:172:LEU:HG	41:BG:176:LEU:HD11	1.60	0.84
35:BA:176:G:O2'	35:BA:177:G:H5'	1.78	0.84
35:BA:97:C:H2'	35:BA:98:G:H8	1.43	0.84
38:DD:25:THR:CG2	38:DD:81:ALA:HB1	2.08	0.83
41:DG:139:LEU:HA	41:DG:144:ILE:HG12	1.60	0.83
46:BP:62:LEU:CD1	46:BP:62:LEU:H	1.90	0.83
56:BZ:10:ARG:HB3	56:BZ:36:LYS:HB2	1.57	0.83
3:AC:24:ALA:HB3	3:AC:29:TYR:HD1	1.43	0.83
2:AB:222:ILE:HG23	2:AB:223:ILE:HG13	1.60	0.83
41:BG:67:LYS:H	41:BG:67:LYS:HD2	1.43	0.83
35:DA:2777:G:H5''	35:DA:2778:A:C5'	2.07	0.83
27:D1:10:LYS:O	27:D1:13:ILE:HG22	1.77	0.83
47:DQ:75:THR:CA	47:DQ:88:GLY:HA3	2.06	0.83
12:AL:23:LYS:O	12:AL:24:VAL:HG23	1.78	0.83
1:AA:198:G:H2'	1:AA:199:G:H8	1.41	0.83
35:BA:323:G:H2'	40:BF:169:ASN:HD21	1.43	0.83
18:CR:85:LEU:HG	18:CR:86:VAL:H	1.40	0.83
31:B5:11:THR:OG1	35:BA:1264:G:H5'	1.77	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CT:87:LYS:O	20:CT:91:LEU:HG	1.78	0.83
1:CA:591:U:H2'	1:CA:592:G:C8	2.12	0.83
35:BA:2186:G:H2'	35:BA:2187:G:H5''	1.61	0.83
35:DA:1484:G:H2'	35:DA:1485:G:H5''	1.58	0.83
50:DT:30:VAL:HG12	50:DT:44:ASP:HA	1.58	0.83
5:CE:33:VAL:HG22	5:CE:43:LEU:HD13	1.58	0.83
41:BG:173:LEU:CA	41:BG:176:LEU:HD12	2.08	0.83
4:CD:155:LEU:O	4:CD:159:ARG:HG2	1.78	0.83
40:BF:39:TRP:CD1	40:BF:101:LEU:HB2	2.12	0.83
48:DR:2:ARG:HD2	48:DR:2:ARG:O	1.78	0.83
35:DA:106:C:H1'	55:DY:2:ARG:HH21	1.40	0.83
1:AA:200:G:H1	1:AA:217:C:H42	1.25	0.83
1:CA:878:G:H5'	8:CH:89:PRO:HG2	1.59	0.83
42:BH:156:ALA:C	42:BH:158:HIS:H	1.81	0.83
4:AD:128:VAL:HG12	4:AD:129:ASN:H	1.43	0.83
3:CC:105:GLU:HG2	3:CC:106:VAL:H	1.41	0.83
35:DA:782:A:N3	38:DD:226:MET:HG2	1.93	0.83
1:AA:973:G:H3'	1:AA:974:A:H5''	1.60	0.83
1:AA:1057:G:H5''	3:AC:154:SER:CB	2.09	0.83
40:DF:110:LEU:HA	40:DF:183:VAL:HG12	1.59	0.83
1:CA:662:G:H2'	1:CA:663:A:C8	2.12	0.83
46:DP:23:PRO:HB2	46:DP:33:ARG:CD	2.07	0.83
42:DH:70:THR:HG22	42:DH:74:ASN:HD21	1.43	0.83
11:CK:21:ILE:HD11	11:CK:82:VAL:HG13	1.60	0.83
35:BA:2801(A):A:H4'	35:BA:2802:G:H2'	1.60	0.83
36:BB:20:C:H2'	36:BB:21:G:H5''	1.59	0.83
38:BD:146:GLU:HA	38:BD:153:ALA:HA	1.60	0.83
47:DQ:24:GLY:HA2	47:DQ:100:GLY:O	1.78	0.83
39:DE:29:GLY:HA3	39:DE:180:ASN:HD21	1.43	0.83
28:D2:44:LEU:HD23	35:DA:61:G:C5'	2.06	0.83
1:AA:1057:G:H5''	3:AC:154:SER:HB2	1.59	0.83
25:AY:76:LEU:HD11	25:AY:99:LEU:HG	1.60	0.83
39:BE:131:ALA:CB	39:BE:134:ILE:HD11	2.08	0.83
35:BA:836:G:H2'	35:BA:837:C:C6	2.13	0.83
38:BD:31:LYS:HA	38:BD:31:LYS:NZ	1.94	0.83
46:BP:121:LYS:O	46:BP:123:LEU:HD22	1.77	0.83
2:AB:101:MET:O	2:AB:105:PHE:HA	1.78	0.83
1:CA:1053:G:O6	1:CA:1199:U:H2'	1.78	0.83
7:CG:50:ILE:HB	7:CG:58:PRO:HD3	1.60	0.83
35:DA:2189:U:H3'	35:DA:2190:G:H5''	1.61	0.83
19:AS:48:THR:HG22	19:AS:61:TYR:HA	1.58	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:146:GLU:HA	38:DD:153:ALA:HA	1.59	0.83
52:DV:22:VAL:HB	52:DV:94:LEU:HB3	1.60	0.83
3:AC:150:LYS:HB3	3:AC:201:TYR:HB2	1.58	0.83
27:D1:87:PRO:HB2	27:D1:91:LYS:CE	2.09	0.83
35:DA:2820:A:H4'	48:DR:5:LYS:HE2	1.61	0.83
35:BA:2348:U:C3'	35:BA:2349:G:H5''	2.07	0.83
9:AI:19:LEU:HD23	9:AI:61:ALA:HA	1.58	0.83
42:BH:70:THR:HG22	42:BH:74:ASN:HD21	1.41	0.83
39:BE:137:HIS:HB3	39:BE:138:PRO:HD2	1.59	0.83
53:DW:75:TYR:CE1	53:DW:104:THR:HB	2.13	0.83
23:AW:72:C:H4'	35:BA:1851:U:H4'	1.61	0.83
1:CA:237:C:H4'	17:CQ:25:ARG:HH12	1.41	0.83
35:BA:1567:A:H2'	38:BD:84:TYR:HE2	1.42	0.83
41:DG:102:PHE:HE1	41:DG:106:LEU:HD13	1.42	0.83
41:DG:36:LYS:HD3	41:DG:95:ARG:NH2	1.92	0.83
52:BV:22:VAL:HB	52:BV:94:LEU:HB3	1.60	0.83
39:DE:33:VAL:CG1	39:DE:89:ASP:H	1.92	0.83
54:DX:36:LYS:HD2	54:DX:36:LYS:O	1.79	0.83
47:DQ:132:VAL:HG11	56:DZ:81:ARG:NH1	1.94	0.83
56:DZ:150:LEU:HD23	56:DZ:171:ILE:CD1	2.08	0.83
35:DA:2781:A:C5'	35:DA:2782:G:H5'	2.08	0.83
49:BS:55:ALA:O	49:BS:56:LEU:HB2	1.79	0.83
40:DF:46:ARG:HH11	40:DF:46:ARG:HA	1.43	0.83
35:DA:942:G:H5'	46:DP:35:HIS:HB2	1.61	0.83
35:BA:925:C:C2'	35:BA:926:A:H5''	2.07	0.83
25:CY:67:VAL:HG12	25:CY:100:TYR:HA	1.58	0.83
38:DD:142:VAL:HG23	38:DD:193:VAL:HA	1.58	0.83
35:DA:1007:C:O2'	44:DN:108:PRO:HA	1.78	0.83
1:AA:392:G:H2'	1:AA:393:A:H8	1.41	0.83
32:D6:39:TYR:HE1	35:DA:2347:C:H4'	1.44	0.83
3:AC:189:ALA:HB3	3:AC:196:LEU:HB2	1.59	0.83
1:AA:943:U:H2'	1:AA:944:G:H8	1.43	0.83
43:DI:57:ARG:HB3	43:DI:57:ARG:HH11	1.43	0.83
37:DC:59:ARG:HB2	37:DC:62:VAL:HG22	1.59	0.83
35:DA:1971:A:H1'	38:DD:240:ALA:O	1.78	0.83
45:BO:69:ILE:HD12	45:BO:69:ILE:H	1.41	0.83
35:BA:956:G:OP2	47:BQ:85:LYS:HD2	1.78	0.83
35:DA:1582:C:O2'	35:DA:1586:A:H8	1.61	0.83
11:CK:44:SER:H	11:CK:47:VAL:CG2	1.92	0.83
42:BH:16:SER:HB2	42:BH:27:LYS:HB2	1.61	0.83
2:CB:101:MET:O	2:CB:105:PHE:HA	1.79	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1342:C:H1'	9:CI:124:GLN:HE22	1.41	0.83
31:D5:40:LYS:HE2	31:D5:46:CYS:H	1.42	0.83
46:DP:112:LEU:HD22	46:DP:113:LYS:N	1.93	0.83
38:DD:131:LEU:HD13	38:DD:136:ILE:HG12	1.58	0.83
35:DA:1230:C:H2'	35:DA:1231:G:C8	2.13	0.83
35:DA:323:G:H2'	40:DF:169:ASN:HD21	1.43	0.83
38:BD:267:SER:C	38:BD:269:PHE:H	1.79	0.83
35:BA:2562:U:H1'	45:BO:23:ARG:NH1	1.92	0.83
28:D2:29:LYS:HA	28:D2:32:LEU:HB3	1.59	0.83
54:DX:77:LYS:HE3	54:DX:78:LYS:H	1.43	0.83
35:BA:484:C:H2'	35:BA:485:C:C6	2.13	0.83
44:DN:9:VAL:HG12	44:DN:10:GLU:H	1.42	0.83
27:D1:46:LEU:HD12	27:D1:46:LEU:H	1.40	0.83
35:BA:1582:C:O2'	35:BA:1586:A:H8	1.60	0.83
48:BR:48:VAL:O	48:BR:51:LEU:HB2	1.79	0.83
44:DN:56:ASN:HA	44:DN:124:ALA:HA	1.59	0.83
1:CA:1240:U:H3	7:CG:30:ILE:HG22	1.43	0.83
12:CL:6:THR:CG2	12:CL:9:GLN:HG3	2.08	0.83
16:AP:82:GLN:NE2	16:AP:82:GLN:H	1.76	0.83
1:AA:662:G:H2'	1:AA:663:A:C8	2.14	0.83
35:BA:600:G:H1	35:BA:657:U:H3	1.27	0.83
35:DA:2591:C:H2'	35:DA:2592:G:C8	2.14	0.83
35:BA:2189:U:H3'	35:BA:2190:G:H5''	1.61	0.83
37:DC:70:LYS:HB3	37:DC:72:VAL:HG23	1.60	0.83
35:DA:1930:G:N2	35:DA:1968:G:H2'	1.94	0.83
35:DA:483:A:C1'	55:DY:47:LYS:HG2	2.09	0.83
47:BQ:28:ALA:HB2	47:BQ:67:ARG:HD2	1.60	0.83
35:DA:2577:A:H5''	35:DA:2578:G:H5'	1.61	0.83
54:BX:57:LEU:HB2	54:BX:76:ARG:HD2	1.59	0.83
54:BX:77:LYS:CE	54:BX:78:LYS:H	1.92	0.83
35:DA:1019:U:H2'	35:DA:1020:A:H8	1.44	0.83
35:BA:1755:A:C2	35:BA:2716:U:H1'	2.13	0.83
44:BN:17:ASP:C	44:BN:19:GLU:H	1.82	0.83
1:CA:736:C:H2'	1:CA:737:A:C8	2.14	0.83
35:BA:2737:G:H2'	35:BA:2738:A:C8	2.13	0.83
12:AL:84:LEU:HD23	12:AL:85:ILE:H	1.44	0.83
1:AA:1505:G:H4'	1:AA:1506:U:H5''	1.60	0.83
8:CH:26:VAL:HG22	8:CH:32:LYS:NZ	1.93	0.83
1:CA:392:G:H2'	1:CA:393:A:C8	2.14	0.83
25:CY:73:GLN:O	25:CY:77:LYS:HG2	1.79	0.83
1:CA:1112:C:O2	3:CC:179:ARG:HG2	1.79	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B1:86:SER:C	27:B1:89:GLU:HG2	1.99	0.83
28:D2:52:ASP:C	28:D2:54:LYS:H	1.79	0.83
35:DA:389:G:N2	46:DP:71:VAL:HG11	1.93	0.83
27:D1:46:LEU:N	27:D1:46:LEU:HD12	1.94	0.83
48:BR:78:LYS:O	48:BR:83:ILE:HG12	1.79	0.83
6:AF:33:TYR:HD1	6:AF:75:LEU:HG	1.44	0.83
35:DA:1409:C:H2'	35:DA:1410:G:C8	2.13	0.83
55:BY:28:LYS:NZ	55:BY:37:VAL:HA	1.94	0.83
8:AH:83:ILE:HB	8:AH:137:VAL:HG13	1.61	0.83
1:AA:1080:A:H5'	5:AE:14:ARG:HH21	1.41	0.83
1:CA:878:G:H5''	8:CH:89:PRO:HG2	1.61	0.83
33:D7:8:ASN:HD22	33:D7:9:ARG:N	1.76	0.83
50:BT:13:ARG:HH12	50:BT:15:VAL:CG1	1.92	0.83
1:AA:1053:G:O6	1:AA:1199:U:H2'	1.79	0.83
1:CA:78:G:N2	1:CA:91:C:H42	1.77	0.83
10:CJ:50:ILE:HD11	14:CN:41:ARG:HD2	1.61	0.82
47:BQ:132:VAL:HG11	56:BZ:81:ARG:HH11	1.42	0.82
52:BV:38:LEU:HD22	52:BV:40:LEU:H	1.44	0.82
55:DY:88:LYS:HZ3	55:DY:93:GLY:N	1.75	0.82
35:BA:389:G:H1	46:BP:71:VAL:CB	1.91	0.82
3:AC:53:ALA:HB2	3:AC:115:LEU:HD21	1.61	0.82
35:DA:814:C:H5''	52:DV:86:GLY:HA3	1.61	0.82
6:AF:99:ALA:HB3	18:AR:29:PHE:HE2	1.42	0.82
43:BI:37:VAL:HG13	43:BI:38:LEU:HD12	1.58	0.82
8:AH:119:LEU:N	8:AH:119:LEU:HD23	1.94	0.82
43:DI:17:GLN:HG2	43:DI:18:VAL:H	1.44	0.82
35:DA:2128:C:H2'	35:DA:2173:A:O2'	1.77	0.82
56:DZ:76:LEU:CA	56:DZ:84:GLU:HB2	2.08	0.82
1:AA:1342:C:H1'	9:AI:124:GLN:HE22	1.44	0.82
54:BX:25:LYS:HZ3	54:BX:87:GLN:H	1.22	0.82
35:DA:2206:G:H21	35:DA:2207:G:H5'	1.44	0.82
42:DH:156:ALA:C	42:DH:158:HIS:H	1.81	0.82
35:DA:1689:A:H62	35:DA:1698:A:H2	1.27	0.82
45:BO:86:ILE:N	45:BO:86:ILE:HD12	1.92	0.82
28:B2:37:PHE:CZ	28:B2:40:SER:HA	2.14	0.82
27:B1:56:GLN:O	27:B1:57:GLU:HG2	1.77	0.82
27:B1:91:LYS:O	27:B1:94:LEU:HB3	1.78	0.82
4:CD:11:LEU:C	4:CD:13:ARG:N	2.31	0.82
47:BQ:24:GLY:HA2	47:BQ:100:GLY:O	1.79	0.82
49:DS:83:LYS:HG2	49:DS:105:ALA:HB3	1.61	0.82
4:AD:163:GLU:O	4:AD:165:MET:N	2.12	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:736:C:H2'	1:AA:737:A:H8	1.42	0.82
11:AK:21:ILE:HD11	11:AK:82:VAL:HG13	1.59	0.82
1:AA:1349:A:P	9:AI:118:LYS:HZ2	2.02	0.82
31:D5:25:LEU:HB2	53:DW:23:LEU:HD11	1.61	0.82
45:DO:6:THR:HG22	45:DO:7:TYR:H	1.44	0.82
41:DG:32:PRO:HB3	41:DG:172:LEU:HD22	1.62	0.82
46:BP:62:LEU:HD13	46:BP:62:LEU:H	1.44	0.82
50:BT:29:ARG:CB	50:BT:85:LYS:HA	2.09	0.82
41:BG:87:PRO:O	41:BG:88:ILE:HD12	1.79	0.82
41:BG:87:PRO:C	41:BG:88:ILE:HD12	2.00	0.82
44:DN:41:ASP:N	51:DU:64:ARG:HH12	1.77	0.82
51:DU:90:VAL:HG12	51:DU:91:ASP:H	1.44	0.82
51:DU:90:VAL:HG13	52:DV:39:LEU:HB3	1.60	0.82
49:BS:20:ARG:HG3	49:BS:25:ARG:HD2	1.61	0.82
34:B8:14:VAL:HG11	34:B8:22:VAL:HG13	1.60	0.82
36:DB:7:G:H4'	49:DS:29:PHE:CE2	2.14	0.82
2:AB:36:ARG:CZ	2:AB:37:ASN:H	1.92	0.82
6:CF:99:ALA:HB3	18:CR:29:PHE:HE2	1.44	0.82
47:DQ:8:LYS:HG3	47:DQ:9:TYR:H	1.42	0.82
1:AA:376:G:OP1	16:AP:5:ARG:HB2	1.79	0.82
35:DA:1590:U:C2'	35:DA:1591:G:H5''	2.09	0.82
35:DA:663:G:H5''	46:DP:21:ARG:HE	1.44	0.82
46:BP:75:ILE:H	46:BP:75:ILE:HD12	1.41	0.82
16:CP:82:GLN:H	16:CP:82:GLN:NE2	1.77	0.82
27:D1:19:GLN:HB3	35:DA:380:U:O2'	1.79	0.82
1:CA:1329:A:P	13:CM:28:ALA:HB3	2.20	0.82
38:BD:144:ALA:HB3	38:BD:192:THR:HG22	1.59	0.82
50:DT:29:ARG:CB	50:DT:85:LYS:HA	2.10	0.82
16:AP:20:VAL:HG21	16:AP:32:TYR:CB	2.07	0.82
52:BV:34:GLU:HB3	52:BV:62:LEU:HD12	1.61	0.82
35:BA:2598:A:C5'	38:BD:236:GLY:H	1.91	0.82
35:DA:873:G:H2'	35:DA:874:G:H8	1.45	0.82
27:D1:33:LYS:CG	27:D1:34:THR:H	1.91	0.82
35:BA:2476:A:C2'	35:BA:2477:C:H5''	2.09	0.82
55:DY:22:GLY:O	55:DY:23:ARG:HG3	1.79	0.82
35:DA:17:G:H4'	51:DU:25:TRP:CH2	2.14	0.82
25:AY:29:ARG:HH21	25:AY:32:ARG:HH22	1.27	0.82
1:CA:382:A:H2'	1:CA:383:A:C8	2.14	0.82
35:BA:1786:A:C4	35:BA:1938:A:N6	2.48	0.82
5:CE:80:ILE:HD12	5:CE:138:ALA:HB1	1.60	0.82
45:DO:101:PRO:O	45:DO:102:VAL:HG13	1.80	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2639:A:C2'	35:BA:2640:G:H5''	2.09	0.82
44:DN:41:ASP:C	51:DU:64:ARG:NH1	2.32	0.82
4:CD:18:LYS:NZ	4:CD:33:MET:HB3	1.93	0.82
35:DA:2639:A:C2'	35:DA:2640:G:H5''	2.07	0.82
35:BA:1019:U:H2'	35:BA:1020:A:H8	1.41	0.82
18:CR:65:ILE:HD12	18:CR:66:LEU:N	1.94	0.82
5:CE:36:ASP:OD2	5:CE:38:GLN:HB2	1.78	0.82
5:AE:80:ILE:HD12	5:AE:138:ALA:HB1	1.61	0.82
13:CM:66:LEU:HA	13:CM:70:LEU:HD12	1.61	0.82
1:CA:1391:U:H2'	1:CA:1392:G:C8	2.15	0.82
41:DG:57:ALA:HB2	41:DG:90:LEU:HD21	1.59	0.82
38:BD:8:PRO:CB	38:BD:14:ARG:HD3	2.07	0.82
45:BO:1:MET:HG3	45:BO:32:TYR:CD2	2.14	0.82
51:BU:90:VAL:HG13	52:BV:39:LEU:HB3	1.58	0.82
42:DH:128:PRO:HG2	42:DH:129:THR:HG23	1.58	0.82
42:BH:144:VAL:O	42:BH:148:ILE:HG12	1.78	0.82
18:CR:74:ARG:NE	18:CR:81:PHE:HA	1.94	0.82
12:AL:46:LYS:HG2	12:AL:47:LYS:H	1.44	0.82
31:D5:2:ALA:HB2	35:DA:2014:A:O2'	1.79	0.82
7:CG:50:ILE:O	7:CG:54:THR:HG23	1.80	0.82
35:DA:484:C:H2'	35:DA:485:C:H6	1.41	0.82
45:DO:69:ILE:HD12	45:DO:77:ILE:O	1.80	0.82
38:BD:268:ARG:NH1	38:BD:268:ARG:HB2	1.95	0.82
56:BZ:166:SER:HB2	56:BZ:167:PRO:CA	2.10	0.82
28:B2:14:ARG:CZ	28:B2:15:LYS:H	1.93	0.82
54:DX:77:LYS:CE	54:DX:78:LYS:H	1.93	0.82
49:BS:83:LYS:HG2	49:BS:105:ALA:HB3	1.61	0.82
27:D1:87:PRO:HB2	27:D1:91:LYS:NZ	1.93	0.82
50:BT:96:ARG:HG2	50:BT:96:ARG:HH11	1.44	0.82
35:DA:661:C:O3'	46:DP:18:ARG:HD2	1.79	0.82
31:D5:40:LYS:NZ	31:D5:45:VAL:HA	1.95	0.82
31:B5:40:LYS:HE2	31:B5:46:CYS:H	1.43	0.82
8:AH:30:ARG:HB3	8:AH:30:ARG:NH1	1.95	0.82
1:AA:253:U:H2'	1:AA:254:G:H8	1.45	0.82
1:AA:78:G:N2	1:AA:91:C:H42	1.75	0.82
35:BA:1773:A:H2'	35:BA:1774:C:O4'	1.80	0.82
1:AA:1258:G:H2'	1:AA:1259:C:H6	1.45	0.82
35:DA:1037:G:H1	35:DA:1118:C:H42	1.28	0.82
51:BU:90:VAL:HG12	51:BU:91:ASP:H	1.45	0.82
56:DZ:166:SER:HB2	56:DZ:167:PRO:HA	1.61	0.82
39:BE:116:VAL:HG22	39:BE:122:PHE:HB2	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:72:VAL:HG13	6:CF:73:ASN:H	1.44	0.82
18:AR:74:ARG:NE	18:AR:81:PHE:HA	1.94	0.82
12:CL:24:VAL:HG13	12:CL:98:TYR:CE2	2.15	0.82
43:BI:133:HIS:HB2	43:BI:134:PRO:HD3	1.62	0.82
40:DF:101:LEU:HD12	40:DF:102:PRO:HD2	1.61	0.82
5:AE:36:ASP:OD2	5:AE:38:GLN:HB2	1.79	0.82
31:D5:40:LYS:CE	31:D5:46:CYS:H	1.91	0.82
3:CC:189:ALA:HB3	3:CC:196:LEU:HB2	1.61	0.82
39:DE:173:VAL:HG12	39:DE:174:ASP:H	1.45	0.82
50:DT:80:SER:HB3	50:DT:81:PRO:HD3	1.62	0.82
28:B2:29:LYS:HA	28:B2:32:LEU:HD23	1.61	0.82
54:BX:36:LYS:HD2	54:BX:36:LYS:O	1.80	0.82
41:BG:76:SER:HB3	41:BG:84:LYS:H	1.44	0.82
47:BQ:24:GLY:N	47:BQ:101:ARG:HA	1.95	0.82
35:BA:2716:U:H2'	35:BA:2717:G:H8	1.45	0.82
44:BN:19:GLU:HG2	44:BN:56:ASN:O	1.78	0.82
4:AD:176:LEU:HG	4:AD:177:ASP:H	1.44	0.82
6:AF:72:VAL:HG13	6:AF:73:ASN:H	1.45	0.82
47:BQ:52:VAL:HG13	47:BQ:53:ALA:N	1.95	0.82
43:BI:5:LEU:HD21	43:BI:19:VAL:HG12	1.61	0.82
1:CA:1456:G:H2'	1:CA:1457:G:H5'	1.62	0.82
42:BH:26:VAL:O	42:BH:32:GLU:HA	1.80	0.82
35:BA:1378:A:O2'	35:BA:1379:A:H5'	1.80	0.82
35:DA:598:G:H5'	46:DP:15:ARG:HD2	1.62	0.82
38:DD:186:HIS:HD2	38:DD:188:GLU:H	1.24	0.82
39:DE:167:VAL:O	39:DE:168:MET:HG3	1.79	0.82
17:AQ:74:LEU:HD12	17:AQ:75:ARG:HG2	1.60	0.82
3:CC:90:GLU:O	3:CC:93:LYS:HB3	1.78	0.82
41:DG:38:VAL:H	41:DG:158:ALA:HB3	1.45	0.82
42:DH:136:ILE:H	42:DH:136:ILE:HD12	1.44	0.82
41:BG:2:PRO:O	41:BG:3:LEU:HB2	1.79	0.82
46:DP:62:LEU:H	46:DP:62:LEU:HD13	1.45	0.82
48:BR:41:ALA:HB1	48:BR:114:VAL:HG23	1.62	0.82
18:CR:25:THR:HG22	18:CR:42:ARG:NH1	1.95	0.82
18:AR:65:ILE:HD12	18:AR:66:LEU:N	1.94	0.82
20:CT:36:LEU:H	20:CT:36:LEU:HD22	1.45	0.82
41:DG:85:GLY:C	41:DG:87:PRO:HD3	2.00	0.81
35:BA:2850:A:H2'	35:BA:2851:A:C8	2.15	0.81
56:BZ:127:LYS:N	56:BZ:164:ALA:HB3	1.94	0.81
35:BA:94(A):G:C2'	35:BA:95:G:H5''	2.10	0.81
47:DQ:27:VAL:CG2	56:DZ:81:ARG:HH22	1.93	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DI:81:VAL:HG21	43:DI:142:VAL:HG13	1.62	0.81
48:DR:60:LEU:HD23	48:DR:61:HIS:H	1.42	0.81
3:AC:52:LEU:HD23	3:AC:52:LEU:H	1.44	0.81
20:AT:26:ASN:HB2	20:AT:71:THR:HG23	1.62	0.81
19:AS:36:ARG:NH2	19:AS:75:ALA:HB3	1.95	0.81
25:CY:3:LEU:HD12	25:CY:3:LEU:H	1.45	0.81
40:DF:103:LYS:HG2	40:DF:106:ARG:NH2	1.95	0.81
1:AA:920:U:H1'	1:AA:1080:A:C2	2.13	0.81
46:BP:106:LEU:O	46:BP:107:LYS:HG2	1.78	0.81
35:BA:524:U:H2'	35:BA:524:U:O2	1.80	0.81
1:AA:683:G:H2'	1:AA:684:A:H8	1.43	0.81
32:B6:33:LYS:HA	32:B6:33:LYS:HE2	1.62	0.81
3:AC:90:GLU:O	3:AC:93:LYS:HB3	1.80	0.81
32:B6:10:LEU:CD1	34:B8:36:LYS:HD3	2.08	0.81
47:DQ:24:GLY:N	47:DQ:101:ARG:HA	1.95	0.81
35:DA:1419:A:O2'	35:DA:1420:U:H5"	1.79	0.81
35:BA:2572:A:H2'	39:BE:144:ARG:HG3	1.62	0.81
43:BI:133:HIS:HB2	43:BI:134:PRO:CD	2.09	0.81
35:DA:925:C:C2'	35:DA:926:A:H5"	2.09	0.81
8:CH:11:THR:HG23	8:CH:14:ARG:HH12	1.45	0.81
54:BX:65:ARG:NE	54:BX:65:ARG:HA	1.93	0.81
38:DD:77:ALA:CB	38:DD:97:TYR:HA	2.11	0.81
35:BA:1570:A:H2'	35:BA:1571:A:C8	2.14	0.81
41:DG:37:VAL:O	41:DG:94:LEU:HG	1.80	0.81
50:BT:80:SER:HB3	50:BT:81:PRO:HD3	1.62	0.81
10:AJ:49:VAL:O	10:AJ:60:ARG:HB3	1.79	0.81
35:BA:610:G:N2	35:BA:619:G:H1'	1.96	0.81
20:AT:84:LEU:O	20:AT:88:VAL:HG23	1.79	0.81
28:B2:30:ARG:H	28:B2:30:ARG:CD	1.90	0.81
1:AA:406:G:H1	1:AA:436:C:H42	1.28	0.81
12:CL:23:LYS:O	12:CL:24:VAL:HG23	1.81	0.81
56:BZ:177:PRO:O	56:BZ:178:GLU:HG3	1.80	0.81
12:CL:46:LYS:HG2	12:CL:47:LYS:H	1.45	0.81
46:DP:106:LEU:O	46:DP:107:LYS:HG2	1.79	0.81
1:CA:1412:C:H2'	1:CA:1413:A:H8	1.43	0.81
42:DH:158:HIS:CD2	42:DH:170:ARG:HA	2.15	0.81
35:DA:1697:G:H3'	35:DA:1698:A:H5"	1.62	0.81
31:D5:25:LEU:HD11	53:DW:19:LEU:HB3	1.62	0.81
19:CS:48:THR:HG22	19:CS:61:TYR:HA	1.59	0.81
4:AD:5:ILE:O	4:AD:6:GLY:O	1.98	0.81
46:DP:121:LYS:O	46:DP:123:LEU:HD22	1.80	0.81

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:41:G:H2'	1:CA:42:G:H8	1.46	0.81
12:AL:51:ALA:O	12:AL:52:LEU:HD23	1.81	0.81
26:D0:40:GLN:NE2	26:D0:43:THR:HA	1.96	0.81
35:DA:132:G:H5'	35:DA:132:G:H8	1.46	0.81
35:DA:2712(A):A:H5'	35:DA:2713:A:OP2	1.80	0.81
38:DD:18:VAL:HG23	38:DD:211:ARG:NH2	1.95	0.81
41:DG:132:ASN:ND2	41:DG:157:ILE:HG13	1.96	0.81
35:DA:1494:A:H3'	35:DA:1494:A:N3	1.94	0.81
1:CA:1191:A:H5''	3:CC:4:LYS:NZ	1.96	0.81
40:BF:101:LEU:HD12	40:BF:102:PRO:HD2	1.63	0.81
1:AA:673:G:H5''	6:AF:87:ARG:NH1	1.95	0.81
35:BA:1133:U:O2	35:BA:1137:G:H5''	1.80	0.81
11:CK:43:SER:HA	11:CK:47:VAL:HG21	1.62	0.81
35:DA:2128:C:H3'	35:DA:2173:A:H1'	1.62	0.81
16:AP:14:ASN:N	16:AP:15:PRO:HD3	1.95	0.81
31:D5:11:THR:OG1	35:DA:1264:G:H5'	1.81	0.81
11:AK:96:ARG:HA	11:AK:99:GLN:HG2	1.61	0.81
35:DA:1270:C:H5''	35:DA:1271:G:O5'	1.81	0.81
37:DC:58:VAL:HG21	37:DC:166:ASP:H	1.46	0.81
12:AL:21:LYS:HD2	12:AL:21:LYS:H	1.46	0.81
2:AB:67:THR:HG21	2:AB:155:LEU:HG	1.61	0.81
35:BA:1709:U:H2'	35:BA:1710:C:H6	1.45	0.81
38:BD:265:PRO:HG2	38:BD:266:SER:H	1.44	0.81
35:DA:1788:C:H2'	35:DA:1789:A:H8	1.44	0.81
45:BO:36:GLY:N	45:BO:62:VAL:HB	1.96	0.81
39:BE:29:GLY:HA3	39:BE:180:ASN:HD21	1.43	0.81
28:D2:22:GLU:HG2	54:DX:5:TYR:HB2	1.61	0.81
28:D2:56:GLN:HA	28:D2:56:GLN:NE2	1.95	0.81
35:DA:2777:G:H5''	35:DA:2778:A:H5'	1.62	0.81
44:DN:46:VAL:HG13	44:DN:47:ALA:N	1.95	0.81
1:CA:1191:A:H5''	3:CC:4:LYS:HZ3	1.44	0.81
4:CD:28:SER:HB3	4:CD:29:PRO:HD2	1.61	0.81
25:AY:39:LEU:HA	25:AY:52:LEU:HB3	1.63	0.81
51:BU:6:THR:HG21	51:BU:10:ARG:HH21	1.46	0.81
44:DN:19:GLU:HG2	44:DN:56:ASN:O	1.81	0.81
35:DA:585:G:H2'	35:DA:1251:C:H42	1.45	0.81
51:DU:34:LYS:HE2	51:DU:34:LYS:HA	1.62	0.81
42:DH:16:SER:HB2	42:DH:27:LYS:HB2	1.62	0.81
35:BA:2802:G:O2'	35:BA:2803:C:H5''	1.81	0.81
35:DA:2186:G:H2'	35:DA:2187:G:H5''	1.62	0.81
7:CG:73:MET:HG2	7:CG:90:GLU:HA	1.63	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DT:22:PHE:N	50:DT:22:PHE:HD2	1.78	0.80
35:DA:2476:A:C2'	35:DA:2477:C:H5''	2.10	0.80
46:BP:23:PRO:HB2	46:BP:33:ARG:HD3	1.62	0.80
20:AT:87:LYS:O	20:AT:91:LEU:HG	1.81	0.80
4:AD:105:VAL:HG21	4:AD:126:ILE:HD13	1.63	0.80
25:AY:84:ARG:HE	25:AY:92:PRO:HD2	1.46	0.80
35:DA:2245:U:H5'	35:DA:2246:G:H5'	1.61	0.80
55:BY:28:LYS:O	55:BY:38:ILE:HB	1.80	0.80
13:AM:120:LYS:HE3	13:AM:120:LYS:HA	1.63	0.80
8:CH:86:ILE:HG12	8:CH:135:CYS:HA	1.62	0.80
35:DA:2125:G:H21	35:DA:2173:A:N6	1.79	0.80
31:B5:40:LYS:NZ	31:B5:45:VAL:HA	1.97	0.80
8:CH:30:ARG:NH1	8:CH:30:ARG:HB3	1.95	0.80
35:BA:20:C:O2'	35:BA:21:A:H5'	1.81	0.80
5:AE:90:VAL:CG2	5:AE:121:LYS:HB3	2.12	0.80
35:BA:2795:G:H1	35:BA:2802:G:H1	1.28	0.80
35:DA:1846:G:H5'	35:DA:1847:A:OP2	1.81	0.80
14:CN:16:PHE:H	14:CN:16:PHE:HD2	1.29	0.80
1:CA:1258:G:H2'	1:CA:1259:C:H6	1.44	0.80
39:DE:11:MET:HB3	39:DE:24:THR:HA	1.61	0.80
43:BI:81:VAL:HG21	43:BI:142:VAL:HG13	1.63	0.80
10:CJ:49:VAL:O	10:CJ:60:ARG:HB3	1.82	0.80
35:DA:1567:A:H2'	38:DD:84:TYR:HE2	1.45	0.80
16:AP:19:ILE:HG22	16:AP:36:ILE:HG13	1.63	0.80
56:BZ:126:VAL:HA	56:BZ:164:ALA:HB3	1.63	0.80
41:BG:63:ILE:HD12	41:BG:64:THR:H	1.46	0.80
41:BG:73:ALA:H	41:BG:87:PRO:HD2	1.46	0.80
56:DZ:48:PHE:CE2	56:DZ:71:VAL:HG21	2.15	0.80
4:AD:108:LEU:HB3	4:AD:110:PHE:CE1	2.15	0.80
47:DQ:87:LYS:HG3	47:DQ:87:LYS:O	1.80	0.80
12:CL:84:LEU:HD23	12:CL:85:ILE:H	1.43	0.80
35:BA:2127:G:H4'	35:BA:2128:C:OP1	1.80	0.80
35:DA:2127:G:H4'	35:DA:2128:C:OP1	1.79	0.80
47:DQ:137:TYR:O	47:DQ:138:ASP:HB2	1.80	0.80
54:DX:65:ARG:CZ	54:DX:66:LEU:H	1.95	0.80
46:DP:143:GLY:C	46:DP:145:PRO:HD3	2.01	0.80
1:CA:728:A:H2'	1:CA:729:A:H8	1.46	0.80
39:DE:131:ALA:HB3	39:DE:134:ILE:HD11	1.63	0.80
35:BA:1509(B):A:H2'	35:BA:1510:G:H8	1.46	0.80
53:BW:75:TYR:CE1	53:BW:104:THR:HB	2.17	0.80
35:DA:963:U:H2'	35:DA:964:C:C6	2.16	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DO:86:ILE:N	45:DO:86:ILE:HD12	1.95	0.80
3:CC:24:ALA:HB3	3:CC:29:TYR:HD1	1.46	0.80
52:DV:38:LEU:HD22	52:DV:40:LEU:H	1.45	0.80
39:BE:163:GLU:O	39:BE:165:VAL:HG23	1.80	0.80
44:DN:16:ILE:HG23	44:DN:54:VAL:HG22	1.61	0.80
1:CA:674:G:H2'	1:CA:675:A:H8	1.46	0.80
43:DI:102:SER:HB2	43:DI:109:ILE:CG1	2.11	0.80
18:AR:25:THR:HG22	18:AR:42:ARG:NH1	1.96	0.80
23:AW:42:C:H2'	23:AW:43:G:C8	2.15	0.80
51:DU:20:LEU:H	51:DU:20:LEU:HD22	1.44	0.80
11:CK:96:ARG:HA	11:CK:99:GLN:HG2	1.64	0.80
32:D6:33:LYS:HA	32:D6:33:LYS:HE2	1.61	0.80
13:AM:49:THR:H	13:AM:52:GLU:CD	1.85	0.80
35:DA:2801(A):A:H4'	35:DA:2802:G:H2'	1.61	0.80
1:CA:973:G:H3'	1:CA:974:A:H5''	1.62	0.80
1:CA:15:G:H2'	1:CA:16:A:H8	1.45	0.80
35:BA:2206:G:H21	35:BA:2207:G:H5'	1.44	0.80
54:DX:56:THR:N	54:DX:77:LYS:HG3	1.95	0.80
3:CC:52:LEU:HD23	3:CC:52:LEU:H	1.45	0.80
47:DQ:16:ARG:HG2	47:DQ:17:LEU:H	1.44	0.80
7:AG:86:GLN:HG2	23:AW:33:C:H5'	1.63	0.80
31:B5:44:THR:HG22	31:B5:45:VAL:N	1.96	0.80
5:CE:78:HIS:HE1	5:CE:143:ARG:H	1.27	0.80
35:BA:1914:C:H2'	35:BA:1915:U:O4'	1.81	0.80
35:BA:1230:C:H2'	35:BA:1231:G:H8	1.44	0.80
35:DA:1791:A:H5'	38:DD:206:LEU:HD13	1.63	0.80
44:BN:46:VAL:HG13	44:BN:47:ALA:N	1.96	0.80
35:DA:94(A):G:C2'	35:DA:95:G:H5''	2.10	0.80
54:DX:57:LEU:HB2	54:DX:76:ARG:HD2	1.63	0.80
45:DO:114:ILE:H	45:DO:114:ILE:CD1	1.95	0.80
49:BS:25:ARG:HB3	49:BS:88:ASP:OD1	1.82	0.80
35:BA:661:C:O3'	46:BP:18:ARG:HD2	1.82	0.80
6:AF:75:LEU:O	6:AF:79:LEU:HG	1.81	0.80
35:DA:564:C:H2'	35:DA:565:C:C6	2.17	0.80
13:CM:90:LEU:C	13:CM:92:HIS:H	1.81	0.80
53:DW:11:ARG:NH2	53:DW:98:LYS:HB3	1.96	0.80
1:CA:32:A:H2'	1:CA:33:A:C8	2.16	0.80
35:BA:15:G:H2'	35:BA:16:G:H8	1.44	0.80
1:CA:386:C:O2'	1:CA:387:U:H5'	1.82	0.80
35:DA:2802:G:O2'	35:DA:2803:C:H5''	1.82	0.80
1:AA:646:U:H2'	1:AA:647:C:C6	2.16	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1947:C:H2'	35:DA:1948:G:H8	1.46	0.80
35:BA:1697:G:H3'	35:BA:1698:A:H5''	1.61	0.80
7:AG:73:MET:HG2	7:AG:90:GLU:HA	1.62	0.80
35:DA:1755:A:C2	35:DA:2716:U:H1'	2.17	0.80
35:BA:1970:A:H5''	35:BA:1971:A:OP1	1.82	0.80
41:DG:43:LEU:HD22	41:DG:44:GLY:N	1.95	0.80
35:BA:2631:G:N2	39:BE:61:ARG:HH12	1.78	0.80
5:CE:51:VAL:HB	5:CE:52:PRO:HD3	1.63	0.80
35:BA:1755:A:H2	35:BA:2716:U:H1'	1.47	0.80
52:DV:83:ARG:HG2	52:DV:83:ARG:NH1	1.92	0.80
4:AD:176:LEU:CG	4:AD:177:ASP:H	1.94	0.80
3:AC:16:ARG:HH11	3:AC:16:ARG:CA	1.94	0.80
39:DE:152:LYS:HB3	44:DN:78:TYR:CD1	2.17	0.80
35:DA:581:C:H2'	35:DA:582:G:H8	1.47	0.80
39:BE:152:LYS:HB3	44:BN:78:TYR:CD1	2.15	0.80
35:DA:742:G:H2'	35:DA:743:G:C8	2.16	0.80
9:CI:95:LYS:HD3	9:CI:96:LEU:H	1.46	0.80
50:DT:13:ARG:HH12	50:DT:15:VAL:CG1	1.94	0.80
1:CA:1489:G:H2'	1:CA:1490:C:H6	1.45	0.80
13:AM:23:TYR:HE1	13:AM:71:ARG:HB2	1.47	0.80
1:CA:66:G:H4'	1:CA:173:U:C5	2.16	0.80
1:AA:1184:G:H2'	1:AA:1185:G:H8	1.47	0.80
1:CA:643:C:H5'	8:CH:31:PHE:CD1	2.15	0.80
35:BA:1971:A:H1'	38:BD:240:ALA:O	1.82	0.80
35:BA:729:G:O2'	35:BA:763:G:H4'	1.82	0.80
35:DA:1788:C:O2'	35:DA:1789:A:H5'	1.81	0.80
52:BV:61:VAL:HG21	52:BV:99:ILE:HB	1.64	0.80
55:DY:97:ARG:O	55:DY:97:ARG:HG3	1.80	0.80
48:DR:24:GLN:NE2	48:DR:36:THR:HG21	1.96	0.80
5:AE:51:VAL:HB	5:AE:52:PRO:HD3	1.62	0.80
2:CB:187:LEU:HD21	2:CB:204:ASN:O	1.79	0.80
1:CA:1492:A:H2'	1:CA:1493:A:C8	2.15	0.80
1:CA:192:U:H4'	20:CT:103:GLY:HA2	1.64	0.80
29:B3:8:LEU:HA	29:B3:54:VAL:HG22	1.62	0.80
31:D5:16:ARG:HG2	31:D5:16:ARG:HH11	1.46	0.80
35:BA:521:G:H2'	35:BA:522:G:C8	2.17	0.80
17:CQ:19:VAL:HG23	17:CQ:44:ALA:HB3	1.62	0.80
35:BA:686:G:N2	35:BA:788:A:H61	1.80	0.80
45:DO:1:MET:HG3	45:DO:32:TYR:CD2	2.16	0.80
35:DA:1777:U:O2'	35:DA:1778:U:H5'	1.82	0.80
45:BO:31:LYS:C	45:BO:32:TYR:HD1	1.85	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BO:69:ILE:HD12	45:BO:77:ILE:O	1.79	0.80
32:D6:11:LEU:HG	32:D6:26:ASN:ND2	1.97	0.80
4:CD:108:LEU:HB3	4:CD:110:PHE:CE1	2.16	0.80
40:BF:108:LYS:O	40:BF:111:ALA:HB3	1.80	0.80
35:BA:2712(A):A:H5'	35:BA:2713:A:OP2	1.81	0.80
8:CH:68:ARG:HG3	8:CH:69:ARG:H	1.47	0.80
35:DA:1133:U:O2	35:DA:1137:G:H5''	1.82	0.80
55:BY:22:GLY:O	55:BY:23:ARG:HG3	1.82	0.80
8:AH:26:VAL:HG22	8:AH:32:LYS:NZ	1.96	0.80
1:AA:32:A:H2'	1:AA:33:A:C8	2.16	0.80
38:BD:142:VAL:HG23	38:BD:193:VAL:HA	1.63	0.80
35:BA:2636:U:H4'	39:BE:80:GLU:CD	2.02	0.80
35:BA:30:G:H2'	35:BA:31:C:C6	2.16	0.80
26:B0:25:ARG:HA	26:B0:29:GLN:HE22	1.47	0.80
1:CA:1278:U:H5''	1:CA:1279:A:O4'	1.82	0.80
39:BE:39:PRO:HA	39:BE:43:GLY:HA2	1.63	0.80
1:AA:1278:U:H5''	1:AA:1279:A:O4'	1.82	0.80
35:DA:1970:A:H5''	35:DA:1971:A:OP1	1.81	0.80
38:DD:267:SER:C	38:DD:269:PHE:H	1.82	0.80
54:BX:8:ILE:H	54:BX:8:ILE:HD12	1.47	0.80
35:DA:2631:G:N2	39:DE:61:ARG:HH12	1.79	0.80
27:B1:42:GLN:HG2	27:B1:43:TYR:N	1.96	0.80
4:CD:176:LEU:HG	4:CD:177:ASP:H	1.47	0.80
35:BA:814:C:H5''	52:BV:86:GLY:HA3	1.64	0.80
40:BF:53:THR:H	40:BF:56:GLU:CB	1.95	0.80
40:DF:155:LEU:HB2	40:DF:189:THR:HG21	1.62	0.80
18:CR:43:PHE:HA	18:CR:51:LEU:HD12	1.62	0.80
4:AD:28:SER:HB3	4:AD:29:PRO:HD2	1.62	0.80
43:BI:17:GLN:HG2	43:BI:18:VAL:H	1.43	0.80
35:BA:1378:A:H4'	35:BA:1379:A:OP1	1.80	0.80
12:AL:47:LYS:CB	12:AL:48:PRO:HD3	2.11	0.80
35:DA:1039:G:H1	35:DA:1116:C:N4	1.79	0.80
46:BP:112:LEU:HD22	46:BP:113:LYS:N	1.95	0.80
1:AA:683:G:H2'	1:AA:684:A:C8	2.17	0.80
35:BA:460:A:H2'	35:BA:461:C:O4'	1.81	0.80
1:AA:41:G:H2'	1:AA:42:G:H8	1.46	0.80
45:DO:69:ILE:HD13	45:DO:77:ILE:HG23	1.64	0.80
10:CJ:48:THR:OG1	10:CJ:62:HIS:HB3	1.82	0.80
38:DD:34:VAL:HG22	38:DD:35:LYS:HG3	1.63	0.80
36:DB:42:C:H1'	41:DG:92:VAL:HG23	1.64	0.80
39:BE:11:MET:H	50:BT:8:LYS:NZ	1.80	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:68:TYR:HA	4:CD:114:ARG:HD3	1.64	0.80
35:DA:2393:A:H5'	46:DP:62:LEU:HB3	1.63	0.80
46:BP:45:LEU:HD23	46:BP:46:LYS:H	1.46	0.80
49:DS:20:ARG:HG3	49:DS:25:ARG:HD2	1.63	0.80
2:CB:208:ILE:HA	2:CB:211:ILE:HD12	1.62	0.80
44:DN:17:ASP:C	44:DN:19:GLU:H	1.84	0.80
1:CA:976:G:H5'	1:CA:1358:U:O2'	1.82	0.80
35:DA:30:G:H2'	35:DA:31:C:C6	2.17	0.80
33:B7:34:ARG:HD3	33:B7:42:LEU:HA	1.63	0.80
35:BA:2262:U:H2'	35:BA:2263:C:H5''	1.63	0.80
2:AB:171:ALA:HA	2:AB:174:VAL:CG2	2.12	0.80
13:AM:23:TYR:HD1	13:AM:67:GLU:HA	1.47	0.80
1:AA:892:A:H2'	1:AA:893:C:C6	2.17	0.80
35:BA:1947:C:H2'	35:BA:1948:G:H8	1.47	0.80
26:B0:40:GLN:NE2	26:B0:43:THR:HA	1.95	0.80
35:DA:292:C:H42	35:DA:348:G:H1	1.27	0.80
35:BA:229:A:H3'	35:BA:230:U:H5'	1.64	0.80
46:DP:17:LYS:O	46:DP:17:LYS:HG2	1.80	0.80
19:AS:41:VAL:HB	19:AS:44:MET:HB2	1.64	0.80
5:CE:19:MET:SD	5:CE:24:ARG:HG2	2.21	0.79
34:B8:22:VAL:HB	34:B8:53:PRO:CB	2.12	0.79
35:BA:251:A:H5''	46:BP:51:PHE:CZ	2.17	0.79
1:AA:386:C:O2'	1:AA:387:U:H5'	1.82	0.79
35:BA:1456:G:H2'	35:BA:1457:A:H8	1.46	0.79
8:AH:68:ARG:HG3	8:AH:69:ARG:H	1.47	0.79
35:DA:2533:A:C2'	35:DA:2534:A:H5''	2.12	0.79
1:AA:1240:U:H3	7:AG:30:ILE:HG22	1.46	0.79
25:AY:150:SER:O	25:AY:154:THR:HG23	1.82	0.79
13:AM:90:LEU:C	13:AM:92:HIS:H	1.81	0.79
7:CG:79:ARG:HE	7:CG:84:ASN:ND2	1.80	0.79
1:CA:683:G:H2'	1:CA:684:A:C8	2.17	0.79
13:AM:66:LEU:HA	13:AM:70:LEU:HD12	1.64	0.79
35:DA:291:C:H2'	35:DA:292:C:C6	2.16	0.79
35:BA:759:G:H2'	35:BA:760:G:H8	1.45	0.79
35:BA:1336:A:H2'	35:BA:1337:G:H8	1.47	0.79
41:DG:141:PHE:HD1	41:DG:142:PRO:HD2	1.44	0.79
47:DQ:35:VAL:HG23	47:DQ:102:VAL:HA	1.64	0.79
56:BZ:138:GLU:O	56:BZ:155:LEU:HD11	1.82	0.79
4:CD:120:LEU:N	4:CD:120:LEU:HD12	1.96	0.79
25:AY:38:LEU:HD12	25:AY:58:VAL:HG11	1.62	0.79
35:BA:2577:A:H5''	35:BA:2578:G:H5'	1.61	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DE:108:SER:CB	39:DE:165:VAL:HG21	2.12	0.79
40:DF:63:LYS:NZ	40:DF:67:GLN:HB3	1.95	0.79
12:CL:84:LEU:HD23	12:CL:85:ILE:N	1.98	0.79
12:AL:24:VAL:HG13	12:AL:98:TYR:CE2	2.17	0.79
35:BA:2645:G:H3'	35:BA:2646:C:C5'	2.13	0.79
8:CH:122:ARG:HA	8:CH:125:ARG:HB3	1.63	0.79
11:AK:44:SER:H	11:AK:47:VAL:CG2	1.95	0.79
9:AI:4:TYR:HB2	9:AI:19:LEU:HB2	1.64	0.79
35:BA:1039:G:H1	35:BA:1116:C:N4	1.79	0.79
35:BA:540:C:H2'	35:BA:541:C:C6	2.18	0.79
46:BP:84:ASN:HA	46:BP:115:LEU:O	1.83	0.79
17:AQ:19:VAL:HG23	17:AQ:44:ALA:HB3	1.63	0.79
35:BA:291:C:H2'	35:BA:292:C:C6	2.17	0.79
1:AA:1329:A:P	13:AM:28:ALA:HB3	2.22	0.79
35:DA:1456:G:H2'	35:DA:1457:A:H8	1.45	0.79
13:CM:10:PRO:CG	13:CM:18:ALA:HB1	2.12	0.79
35:BA:914:C:H2'	35:BA:915:C:H5'	1.64	0.79
35:DA:1677:A:H2'	35:DA:1678:G:C8	2.16	0.79
54:DX:78:LYS:HD3	54:DX:78:LYS:O	1.81	0.79
56:DZ:33:LEU:HG	56:DZ:35:ARG:H	1.47	0.79
36:DB:74:U:C3'	36:DB:75:G:H5''	2.12	0.79
35:BA:1255:U:H5'	35:BA:1256:G:H5''	1.64	0.79
46:BP:30:THR:HG22	46:BP:31:ALA:N	1.96	0.79
48:DR:78:LYS:O	48:DR:83:ILE:HG12	1.81	0.79
48:BR:24:GLN:NE2	48:BR:36:THR:HG21	1.98	0.79
35:DA:8:A:C4	35:DA:9:U:H5	2.01	0.79
18:AR:50:ILE:HD12	18:AR:70:ILE:HG21	1.65	0.79
35:DA:20:C:O2'	35:DA:21:A:H5'	1.82	0.79
20:AT:104:LEU:HD23	20:AT:105:SER:N	1.98	0.79
1:AA:15:G:H2'	1:AA:16:A:H8	1.47	0.79
25:CY:68:VAL:HG23	25:CY:99:LEU:HB2	1.64	0.79
51:BU:20:LEU:H	51:BU:20:LEU:HD22	1.46	0.79
35:DA:208:C:H2'	35:DA:209:C:H6	1.47	0.79
1:AA:728:A:H2'	1:AA:729:A:H8	1.47	0.79
45:DO:2:ILE:HD11	45:DO:82:ASN:HB3	1.64	0.79
38:BD:25:THR:HB	38:BD:82:ILE:H	1.45	0.79
47:BQ:137:TYR:O	47:BQ:138:ASP:HB2	1.80	0.79
35:DA:2636:U:H4'	39:DE:80:GLU:CD	2.03	0.79
35:DA:2779:U:H1'	35:DA:2781:A:C5	2.17	0.79
49:BS:27:SER:HA	49:BS:89:ARG:HD2	1.64	0.79
44:BN:74:ARG:CZ	44:BN:101:HIS:HB3	2.13	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BP:16:ARG:HD3	46:BP:18:ARG:H	1.48	0.79
40:DF:108:LYS:O	40:DF:111:ALA:HB3	1.82	0.79
2:AB:187:LEU:HD21	2:AB:204:ASN:O	1.83	0.79
55:DY:28:LYS:NZ	55:DY:37:VAL:HA	1.98	0.79
43:DI:133:HIS:HB2	43:DI:134:PRO:CD	2.12	0.79
1:AA:735:C:O2'	1:AA:736:C:H5'	1.83	0.79
8:CH:83:ILE:HB	8:CH:137:VAL:HG13	1.62	0.79
35:BA:2245:U:H5'	35:BA:2246:G:H5'	1.65	0.79
55:BY:14:LEU:HD12	55:BY:15:VAL:H	1.47	0.79
1:AA:636:U:H2'	1:AA:637:G:C8	2.17	0.79
43:DI:11:ASN:HD22	43:DI:12:LEU:HD22	1.46	0.79
35:BA:1037:G:H1	35:BA:1118:C:H42	1.29	0.79
35:BA:626:U:O2	46:BP:105:LEU:HG	1.81	0.79
46:BP:101:VAL:HG13	46:BP:102:ARG:H	1.46	0.79
31:B5:16:ARG:HH12	31:B5:17:ASP:CG	1.86	0.79
17:AQ:69:LYS:O	17:AQ:70:ARG:HD2	1.83	0.79
3:AC:84:ILE:HA	3:AC:87:LEU:HD12	1.64	0.79
4:CD:128:VAL:HG12	4:CD:129:ASN:H	1.47	0.79
2:CB:22:LYS:NZ	2:CB:22:LYS:HA	1.97	0.79
17:AQ:40:LYS:HD2	17:AQ:42:TYR:CZ	2.18	0.79
10:CJ:50:ILE:CD1	10:CJ:50:ILE:H	1.89	0.79
50:BT:22:PHE:HD2	50:BT:22:PHE:N	1.80	0.79
35:BA:2630:G:H1'	35:BA:2894:G:H1'	1.62	0.79
35:BA:528:A:H2	35:BA:2043:C:C5'	1.95	0.79
52:DV:37:VAL:HG12	52:DV:38:LEU:H	1.46	0.79
27:D1:10:LYS:HG3	27:D1:11:ARG:N	1.96	0.79
35:BA:1255:U:C5'	35:BA:1256:G:H5''	2.12	0.79
4:AD:11:LEU:C	4:AD:13:ARG:N	2.33	0.79
35:BA:2128:C:H3'	35:BA:2173:A:H1'	1.63	0.79
8:CH:11:THR:HA	8:CH:14:ARG:NH1	1.97	0.79
8:AH:30:ARG:CB	8:AH:30:ARG:HH11	1.94	0.79
35:BA:969:U:H2'	35:BA:970:C:C6	2.17	0.79
35:DA:969:U:H2'	35:DA:970:C:C6	2.18	0.79
2:AB:22:LYS:NZ	2:AB:22:LYS:HA	1.97	0.79
23:CW:17:C:H4'	23:CW:62:C:H5'	1.64	0.79
39:BE:11:MET:HB3	39:BE:24:THR:HA	1.64	0.79
51:BU:83:LEU:HG	51:BU:88:ILE:HG21	1.63	0.79
35:DA:2630:G:H1'	35:DA:2894:G:H1'	1.65	0.79
28:D2:26:ARG:NH2	54:DX:7:VAL:H	1.80	0.79
52:DV:61:VAL:HG21	52:DV:99:ILE:HB	1.63	0.79
49:BS:34:HIS:CD2	49:BS:53:SER:HB3	2.18	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BP:45:LEU:HD22	46:BP:48:PRO:HB3	1.62	0.79
48:BR:95:THR:HA	48:BR:117:VAL:HB	1.64	0.79
1:CA:736:C:H2'	1:CA:737:A:H8	1.48	0.79
34:D8:22:VAL:HB	34:D8:53:PRO:CB	2.12	0.79
40:DF:65:TRP:CH2	40:DF:75:HIS:HD2	1.99	0.79
43:DI:98:ALA:HB1	43:DI:109:ILE:CB	2.12	0.79
43:BI:11:ASN:HD22	43:BI:12:LEU:HD22	1.46	0.79
8:AH:109:ILE:HG12	8:AH:110:ALA:N	1.98	0.79
12:AL:89:ARG:HB2	12:AL:89:ARG:NH1	1.96	0.79
54:DX:65:ARG:HA	54:DX:65:ARG:NE	1.94	0.79
38:BD:77:ALA:CB	38:BD:97:TYR:HA	2.13	0.79
50:DT:13:ARG:CZ	50:DT:13:ARG:HA	2.12	0.79
1:CA:1489:G:H2'	1:CA:1490:C:C6	2.18	0.79
13:CM:23:TYR:HD1	13:CM:67:GLU:HA	1.48	0.79
35:DA:999:U:H5''	35:DA:1154:G:O6	1.81	0.79
35:DA:635:C:H2'	35:DA:636:G:H8	1.48	0.79
32:B6:39:TYR:HE1	35:BA:2347:C:H4'	1.47	0.79
13:CM:49:THR:H	13:CM:52:GLU:CD	1.86	0.79
55:DY:45:VAL:CA	55:DY:62:GLU:HG2	2.08	0.79
35:BA:782:A:N3	38:BD:226:MET:HG2	1.97	0.79
38:BD:25:THR:CB	38:BD:82:ILE:H	1.96	0.79
52:DV:61:VAL:HB	52:DV:99:ILE:H	1.46	0.79
35:BA:663:G:H5''	46:BP:21:ARG:HE	1.47	0.79
35:BA:8:A:C4	35:BA:9:U:H5	2.00	0.79
1:CA:1074:G:H2'	1:CA:1075:C:H6	1.48	0.79
46:DP:101:VAL:HG13	46:DP:102:ARG:H	1.46	0.79
46:BP:143:GLY:C	46:BP:145:PRO:HD3	2.02	0.79
35:DA:491:G:H2'	35:DA:492:A:C8	2.16	0.79
3:AC:86:VAL:O	3:AC:90:GLU:HG2	1.83	0.79
35:DA:600:G:H1	35:DA:657:U:H3	1.26	0.79
16:AP:45:THR:HG22	16:AP:47:ASP:H	1.48	0.79
52:BV:29:PRO:HD2	52:BV:32:THR:OG1	1.81	0.79
12:AL:70:ILE:HD12	12:AL:70:ILE:N	1.97	0.79
35:BA:1419:A:O2'	35:BA:1420:U:H5''	1.82	0.79
31:B5:2:ALA:HB3	35:BA:747:U:C2	2.17	0.79
13:AM:10:PRO:CG	13:AM:18:ALA:HB1	2.13	0.79
35:BA:1301:A:O2'	35:BA:1302:A:H2'	1.82	0.79
1:CA:943:U:H2'	1:CA:944:G:H8	1.47	0.79
35:DA:1754:C:H5'	50:DT:101:PHE:CD1	2.18	0.79
38:DD:265:PRO:O	38:DD:267:SER:N	2.16	0.79
35:BA:2000:G:HO2'	35:BA:2689:U:H5	1.28	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:813:U:H2'	35:BA:814:C:C6	2.17	0.79
35:BA:587:C:H3'	46:BP:33:ARG:HH12	1.45	0.79
35:BA:1414:G:H2'	35:BA:1415:U:C6	2.18	0.79
49:DS:25:ARG:HB3	49:DS:88:ASP:OD1	1.83	0.79
1:AA:543:C:H2'	1:AA:544:G:C8	2.18	0.79
2:AB:111:ARG:HG2	2:AB:111:ARG:HH11	1.48	0.79
46:DP:16:ARG:HD3	46:DP:18:ARG:H	1.48	0.79
8:AH:122:ARG:HA	8:AH:125:ARG:HB3	1.65	0.79
5:AE:139:LEU:HA	5:AE:142:LEU:HD12	1.63	0.79
35:DA:2558:C:H2'	35:DA:2559:C:H6	1.48	0.79
46:DP:59:LEU:HA	46:DP:61:ARG:CZ	2.13	0.79
11:CK:121:PRO:O	11:CK:126:ARG:HB2	1.82	0.79
50:DT:50:ILE:HG23	50:DT:99:LEU:CD1	2.12	0.79
35:BA:1779:U:C5	35:BA:1784:A:N7	2.51	0.79
41:DG:124:SER:HB3	41:DG:131:TYR:CE1	2.18	0.79
41:BG:131:TYR:O	41:BG:159:VAL:HG13	1.83	0.79
49:BS:61:ASN:HD22	49:BS:62:LYS:HE3	1.45	0.79
35:DA:956:G:OP2	47:DQ:85:LYS:HD2	1.83	0.79
35:BA:2173:A:OP2	35:BA:2173:A:H3'	1.83	0.79
18:AR:87:ARG:NH1	18:AR:87:ARG:HB3	1.98	0.79
42:DH:67:LEU:HG	42:DH:71:LEU:HD21	1.65	0.79
11:AK:29:ILE:HG22	11:AK:44:SER:CB	2.13	0.79
18:AR:56:THR:HB	18:AR:58:LEU:CD1	2.12	0.79
20:CT:84:LEU:O	20:CT:88:VAL:HG23	1.83	0.79
1:CA:665:A:H2'	1:CA:725:G:N2	1.98	0.79
19:CS:41:VAL:HB	19:CS:44:MET:HB2	1.65	0.79
2:CB:140:HIS:O	2:CB:143:GLU:HB2	1.83	0.79
45:DO:105:GLU:N	45:DO:105:GLU:OE1	2.16	0.78
45:DO:6:THR:HG22	45:DO:7:TYR:N	1.97	0.78
41:DG:91:ARG:C	41:DG:91:ARG:HD2	2.03	0.78
40:BF:46:ARG:HA	40:BF:46:ARG:HH11	1.48	0.78
47:BQ:16:ARG:HG2	47:BQ:17:LEU:H	1.48	0.78
20:AT:36:LEU:H	20:AT:36:LEU:HD22	1.46	0.78
6:CF:75:LEU:O	6:CF:79:LEU:HG	1.83	0.78
40:DF:84:VAL:O	40:DF:86:GLY:N	2.16	0.78
47:DQ:43:THR:HA	47:DQ:94:VAL:HG12	1.65	0.78
35:BA:2125:G:H21	35:BA:2173:A:N6	1.81	0.78
31:B5:45:VAL:HG22	31:B5:51:TYR:HD1	1.48	0.78
35:DA:268:C:H2'	35:DA:268:C:O2	1.82	0.78
29:B3:29:ARG:NH1	35:BA:1183:G:H4'	1.98	0.78
1:CA:1468:A:H2'	1:CA:1469:G:O4'	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:73:GLN:HG3	25:AY:74:ASN:H	1.48	0.78
41:DG:12:TYR:HA	41:DG:16:ARG:NH1	1.99	0.78
35:BA:904:C:H2'	35:BA:904:C:O2	1.82	0.78
41:BG:61:ALA:HA	41:BG:64:THR:CG2	2.13	0.78
35:DA:528:A:N1	35:DA:2042:A:H2'	1.99	0.78
4:CD:105:VAL:HG21	4:CD:126:ILE:HD13	1.65	0.78
34:B8:59:LYS:C	34:B8:61:LEU:H	1.83	0.78
46:BP:39:LYS:HD2	46:BP:40:SER:H	1.48	0.78
2:AB:55:PHE:HA	2:AB:58:ILE:HB	1.65	0.78
1:AA:674:G:H2'	1:AA:675:A:H8	1.48	0.78
6:AF:10:LEU:HA	6:AF:84:ASN:O	1.82	0.78
25:CY:169:ILE:O	25:CY:172:ALA:HB3	1.84	0.78
25:AY:152:ASP:O	25:AY:156:ARG:HG3	1.83	0.78
22:AV:30:A:H2'	22:AV:31:U:H6	1.45	0.78
38:BD:172:TYR:HD1	38:BD:186:HIS:HA	1.48	0.78
13:CM:23:TYR:HE1	13:CM:71:ARG:HB2	1.45	0.78
35:BA:2777:G:H5''	35:BA:2778:A:H5'	1.63	0.78
1:CA:41:G:H2'	1:CA:42:G:C8	2.19	0.78
35:DA:2795:G:H1	35:DA:2802:G:H1	1.29	0.78
20:AT:83:ARG:HA	20:AT:86:ARG:HB3	1.65	0.78
54:BX:12:VAL:HG11	54:BX:27:THR:HG23	1.65	0.78
29:D3:29:ARG:NH1	35:DA:1183:G:H4'	1.98	0.78
38:BD:265:PRO:O	38:BD:267:SER:N	2.16	0.78
38:DD:264:LYS:HE2	38:DD:266:SER:O	1.82	0.78
36:DB:42:C:O2	41:DG:93:THR:N	2.15	0.78
52:DV:19:LYS:HZ2	52:DV:20:LEU:H	1.31	0.78
35:BA:1494:A:N3	35:BA:1494:A:H3'	1.97	0.78
4:CD:59:ARG:HH22	4:CD:66:ARG:HH22	1.31	0.78
34:D8:13:ARG:CB	46:DP:63:PRO:HA	2.14	0.78
1:CA:1458:G:H2'	1:CA:1459:C:H6	1.45	0.78
35:DA:2645:G:H3'	35:DA:2646:C:C5'	2.12	0.78
35:DA:2173:A:OP2	35:DA:2173:A:H3'	1.83	0.78
5:AE:150:ARG:HB2	5:AE:150:ARG:NH1	1.98	0.78
35:BA:1930:G:H22	35:BA:1968:G:H2'	1.48	0.78
38:BD:231:HIS:ND1	38:BD:232:PRO:HD2	1.99	0.78
50:BT:28:VAL:HG13	50:BT:45:PHE:O	1.83	0.78
52:BV:15:GLU:HB3	52:BV:16:PRO:HD2	1.66	0.78
52:BV:61:VAL:HB	52:BV:99:ILE:H	1.48	0.78
51:DU:83:LEU:HG	51:DU:88:ILE:HG21	1.63	0.78
47:BQ:43:THR:HA	47:BQ:94:VAL:HG12	1.64	0.78
35:DA:1414:G:H2'	35:DA:1415:U:C6	2.19	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1478:C:H2'	1:AA:1479:C:C6	2.18	0.78
35:DA:587:C:H3'	46:DP:33:ARG:HH12	1.49	0.78
35:BA:1409:C:H2'	35:BA:1410:G:H8	1.46	0.78
1:CA:1346:A:H5''	9:CI:120:ARG:HH12	1.49	0.78
1:AA:1372:U:H5''	9:AI:71:SER:HB3	1.62	0.78
5:CE:150:ARG:HB2	5:CE:150:ARG:NH1	1.98	0.78
3:CC:84:ILE:HA	3:CC:87:LEU:HD12	1.63	0.78
35:BA:2781:A:C5'	35:BA:2782:G:H5'	2.12	0.78
35:BA:1602:U:H3'	35:BA:1603:A:C5'	2.13	0.78
1:AA:66:G:H4'	1:AA:173:U:C5	2.18	0.78
35:BA:1835:G:H5'	35:BA:1836:C:OP2	1.84	0.78
9:AI:79:LEU:HD21	9:AI:102:LEU:HA	1.63	0.78
39:DE:11:MET:H	50:DT:8:LYS:NZ	1.80	0.78
35:DA:2572:A:H2'	39:DE:144:ARG:HG3	1.64	0.78
39:BE:172:VAL:HG13	39:BE:182:LEU:HD11	1.66	0.78
35:BA:2315:G:H2'	35:BA:2316:C:C6	2.18	0.78
34:B8:50:LEU:H	34:B8:53:PRO:HG3	1.47	0.78
36:DB:7:G:H21	49:DS:38:GLN:HE22	1.28	0.78
2:AB:159:PRO:C	2:AB:161:ALA:H	1.87	0.78
2:CB:159:PRO:C	2:CB:161:ALA:H	1.86	0.78
51:DU:47:TYR:HD1	51:DU:50:ARG:HH22	1.32	0.78
13:CM:120:LYS:HE3	13:CM:120:LYS:HA	1.63	0.78
35:DA:1409:C:H2'	35:DA:1410:G:H8	1.46	0.78
33:D7:9:ARG:HH12	35:DA:1309:G:H3'	1.47	0.78
23:CW:19:G:C3'	23:CW:20:G:H5''	2.14	0.78
38:DD:163:ALA:HB1	38:DD:175:LEU:HD21	1.64	0.78
43:BI:57:ARG:HB3	43:BI:57:ARG:HH11	1.48	0.78
1:AA:1299:A:H2'	1:AA:1301:U:C6	2.17	0.78
26:D0:27:GLU:N	26:D0:69:PHE:HE1	1.81	0.78
1:CA:972:C:H4'	10:CJ:57:LYS:CG	2.14	0.78
1:CA:17:U:H1'	1:CA:1079:G:H21	1.47	0.78
10:CJ:4:ILE:HG23	10:CJ:98:ILE:HG23	1.66	0.78
35:BA:2393:A:H5'	46:BP:62:LEU:HB3	1.66	0.78
10:AJ:48:THR:OG1	10:AJ:62:HIS:HB3	1.83	0.78
27:B1:86:SER:HA	27:B1:89:GLU:CG	2.11	0.78
48:BR:20:LEU:HD12	48:BR:20:LEU:C	2.04	0.78
2:CB:55:PHE:HA	2:CB:58:ILE:HB	1.65	0.78
46:DP:30:THR:HG22	46:DP:31:ALA:N	1.97	0.78
13:CM:15:VAL:O	13:CM:19:LEU:HD23	1.83	0.78
35:DA:1786:A:C4	35:DA:1938:A:N6	2.51	0.78
35:BA:1717:G:H3'	35:BA:1718:G:H5''	1.63	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1431:C:H2'	1:CA:1432:G:O4'	1.82	0.78
47:DQ:20:ALA:HA	47:DQ:98:LYS:HB3	1.66	0.78
35:BA:873:G:H2'	35:BA:874:G:H8	1.47	0.78
35:BA:1011:G:OP1	51:BU:75:ASN:HB2	1.84	0.78
52:BV:19:LYS:NZ	52:BV:20:LEU:H	1.81	0.78
52:BV:37:VAL:HG12	52:BV:38:LEU:H	1.48	0.78
41:BG:101:ILE:HD11	41:BG:105:LYS:HE3	1.64	0.78
56:DZ:6:LYS:HB2	56:DZ:8:TYR:CE1	2.19	0.78
39:BE:116:VAL:HG21	39:BE:122:PHE:CD2	2.18	0.78
34:D8:50:LEU:H	34:D8:53:PRO:HG3	1.47	0.78
55:BY:15:VAL:HG12	55:BY:16:ALA:H	1.48	0.78
18:AR:53:ARG:HA	18:AR:56:THR:OG1	1.84	0.78
54:DX:64:LYS:HG2	54:DX:65:ARG:N	1.99	0.78
16:AP:82:GLN:HE21	16:AP:82:GLN:N	1.82	0.78
5:CE:82:VAL:HG21	5:CE:138:ALA:HA	1.65	0.78
5:CE:90:VAL:C	5:CE:91:LEU:HD12	2.04	0.78
1:AA:1182:G:H4'	1:AA:1184:G:OP2	1.84	0.78
35:BA:292:C:H42	35:BA:348:G:H1	1.29	0.78
13:AM:3:ARG:HA	13:AM:9:ILE:HG13	1.64	0.78
35:BA:635:C:H2'	35:BA:636:G:H8	1.48	0.78
8:AH:53:VAL:O	8:AH:56:LYS:HB2	1.84	0.78
50:DT:28:VAL:HG13	50:DT:45:PHE:O	1.83	0.78
38:BD:18:VAL:HG23	38:BD:211:ARG:NH2	1.98	0.78
38:DD:268:ARG:HB2	38:DD:268:ARG:NH1	1.97	0.78
35:DA:2315:G:H2'	35:DA:2316:C:C6	2.18	0.78
41:DG:111:LEU:CB	41:DG:112:PRO:HD3	2.10	0.78
50:BT:91:ARG:HA	50:BT:117:ASP:H	1.49	0.78
27:B1:86:SER:O	27:B1:90:ILE:HD11	1.84	0.78
55:DY:86:ARG:HB3	55:DY:88:LYS:HZ2	1.47	0.78
34:B8:6:THR:CG2	34:B8:63:PRO:HD3	2.14	0.78
4:CD:8:VAL:O	4:CD:10:ARG:N	2.17	0.78
43:DI:140:LEU:HD12	43:DI:141:LYS:N	1.98	0.78
46:BP:17:LYS:HG2	46:BP:17:LYS:O	1.82	0.78
27:D1:41:ARG:HH11	27:D1:41:ARG:HG3	1.48	0.78
1:CA:658:G:H1'	15:CO:22:THR:HB	1.66	0.78
25:CY:164:ILE:HD12	25:CY:164:ILE:H	1.49	0.78
12:CL:70:ILE:N	12:CL:70:ILE:HD12	1.99	0.78
46:DP:84:ASN:HA	46:DP:115:LEU:O	1.84	0.78
35:DA:2297:C:C2'	35:DA:2298:A:H5'	2.14	0.78
26:D0:43:THR:HG22	35:DA:2331:G:O2'	1.84	0.78
35:BA:30:G:H2'	35:BA:31:C:H6	1.48	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1602:U:H3'	35:DA:1603:A:C5'	2.14	0.78
35:BA:2873:A:H1'	48:BR:6:SER:HB2	1.66	0.78
35:BA:1290:C:H2'	35:BA:1291:C:H6	1.49	0.78
38:DD:31:LYS:NZ	38:DD:31:LYS:HA	1.98	0.78
1:AA:336:C:O2'	1:AA:337:C:H5'	1.83	0.78
7:AG:50:ILE:HB	7:AG:58:PRO:HD3	1.64	0.78
46:BP:64:LYS:O	46:BP:66:GLY:N	2.16	0.78
1:AA:1442(B):A:N3	1:AA:1442(B):A:H5''	1.99	0.78
47:BQ:134:ARG:HG2	47:BQ:135:ASP:H	1.49	0.78
54:BX:76:ARG:O	54:BX:76:ARG:HD3	1.83	0.78
39:DE:100:GLU:O	39:DE:172:VAL:HG23	1.83	0.78
39:DE:52:LEU:HD23	39:DE:75:VAL:CG2	2.13	0.78
41:BG:170:ARG:NH2	41:BG:182:LYS:HE2	1.99	0.78
51:DU:92:ARG:O	51:DU:94:ASN:N	2.17	0.78
4:CD:31:CYS:SG	4:CD:31:CYS:O	2.42	0.78
35:BA:1019:U:H2'	35:BA:1020:A:C8	2.18	0.78
35:BA:598:G:H5'	46:BP:15:ARG:HD2	1.63	0.78
39:BE:108:SER:CB	39:BE:165:VAL:HG21	2.13	0.78
8:CH:30:ARG:CB	8:CH:30:ARG:HH11	1.95	0.78
4:AD:5:ILE:HG22	4:AD:6:GLY:N	1.99	0.78
35:BA:1709:U:H2'	35:BA:1710:C:C6	2.18	0.78
39:DE:131:ALA:CB	39:DE:134:ILE:HD11	2.13	0.78
2:AB:140:HIS:O	2:AB:143:GLU:HB2	1.84	0.78
1:AA:1305:G:H5'	21:AU:4:GLY:HA3	1.64	0.78
35:DA:2312:U:O3'	41:DG:71:THR:HG21	1.83	0.78
35:BA:484:C:H2'	35:BA:485:C:H6	1.46	0.78
44:DN:39:ARG:HD3	44:DN:39:ARG:O	1.84	0.78
4:CD:163:GLU:O	4:CD:165:MET:N	2.17	0.78
4:CD:176:LEU:CG	4:CD:177:ASP:H	1.96	0.78
35:BA:1245:G:H3'	46:BP:16:ARG:HH22	1.49	0.78
35:DA:2415:G:H4'	46:DP:66:GLY:C	2.04	0.78
48:DR:20:LEU:HD12	48:DR:20:LEU:C	2.05	0.78
35:BA:1754:C:H5'	50:BT:101:PHE:CD1	2.18	0.78
1:AA:1347:G:H22	1:AA:1373:G:H2'	1.47	0.78
12:CL:47:LYS:CB	12:CL:48:PRO:HD3	2.13	0.78
1:AA:1116:C:C2'	1:AA:1117:G:H5''	2.14	0.78
56:BZ:17:ALA:CA	56:BZ:20:ARG:HB3	2.13	0.78
13:AM:15:VAL:O	13:AM:19:LEU:HD23	1.84	0.78
13:CM:3:ARG:HA	13:CM:9:ILE:HG13	1.64	0.78
37:BC:58:VAL:HG21	37:BC:166:ASP:H	1.47	0.78
22:AV:34:A:H2'	22:AV:35:A:C8	2.19	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1497:G:O2'	1:AA:1498:U:H5'	1.84	0.78
35:DA:2691:C:H6	35:DA:2691:C:H5'	1.49	0.78
35:DA:229:A:H3'	35:DA:230:U:H5'	1.65	0.78
35:DA:528:A:H2	35:DA:2043:C:C5'	1.96	0.77
1:CA:405:U:H3'	1:CA:406:G:H5'	1.66	0.77
48:BR:18:LEU:HD13	48:BR:19:ALA:N	1.99	0.77
46:DP:23:PRO:HB2	46:DP:33:ARG:HD3	1.66	0.77
3:CC:157:ILE:HB	3:CC:164:ARG:NH1	1.99	0.77
11:CK:44:SER:H	11:CK:47:VAL:HG21	1.49	0.77
11:AK:111:ASP:HA	18:AR:84:LYS:HG3	1.64	0.77
55:BY:28:LYS:HD2	55:BY:37:VAL:HG12	1.66	0.77
38:DD:129:ASN:O	38:DD:193:VAL:HG12	1.84	0.77
35:BA:1786:A:N7	35:BA:1938:A:N7	2.31	0.77
39:DE:101:ARG:HD3	39:DE:169:ASN:HD22	1.50	0.77
13:CM:49:THR:HB	13:CM:52:GLU:HG3	1.67	0.77
41:DG:144:ILE:CG1	41:DG:145:THR:H	1.96	0.77
45:BO:79:PHE:HA	50:BT:72:VAL:HG22	1.65	0.77
28:D2:27:GLU:C	28:D2:29:LYS:H	1.88	0.77
52:DV:34:GLU:HB3	52:DV:62:LEU:HD12	1.65	0.77
10:AJ:4:ILE:HG23	10:AJ:98:ILE:HG23	1.64	0.77
4:CD:134:ASP:O	4:CD:136:PRO:HD3	1.83	0.77
47:BQ:20:ALA:HA	47:BQ:98:LYS:HB3	1.66	0.77
55:BY:81:LYS:HG3	55:BY:97:ARG:HG2	1.66	0.77
2:AB:200:ILE:HG22	2:AB:202:PRO:HD3	1.66	0.77
35:DA:196:A:H5''	46:DP:46:LYS:HZ1	1.49	0.77
1:CA:1406:U:H2'	1:CA:1407:C:H6	1.49	0.77
25:CY:103:ILE:HD12	25:CY:103:ILE:O	1.84	0.77
12:CL:83:VAL:HG22	12:CL:84:LEU:N	1.98	0.77
7:AG:113:GLU:HB2	7:AG:119:ARG:HG2	1.65	0.77
5:AE:82:VAL:HG21	5:AE:138:ALA:HA	1.64	0.77
16:CP:82:GLN:HE21	16:CP:82:GLN:N	1.82	0.77
1:CA:1184:G:H2'	1:CA:1185:G:H8	1.50	0.77
35:BA:1230:C:H2'	35:BA:1231:G:C8	2.20	0.77
35:DA:2817:G:H21	35:DA:2836:U:H1'	1.49	0.77
35:DA:1750:G:O2'	35:DA:1751:C:H5'	1.84	0.77
15:AO:54:ARG:O	15:AO:58:MET:HG3	1.84	0.77
54:DX:12:VAL:HG11	54:DX:27:THR:HG23	1.66	0.77
35:DA:2715:C:H2'	35:DA:2716:U:C6	2.19	0.77
35:DA:1899:G:N2	35:DA:1902:C:H41	1.82	0.77
36:BB:74:U:C3'	36:BB:75:G:H5''	2.14	0.77
28:B2:56:GLN:HA	28:B2:56:GLN:HE21	1.49	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BR:2:ARG:HD2	48:BR:2:ARG:O	1.84	0.77
50:BT:101:PHE:HD2	50:BT:102:ILE:N	1.82	0.77
55:DY:28:LYS:O	55:DY:38:ILE:HB	1.83	0.77
1:CA:1305:G:H5'	21:CU:4:GLY:HA3	1.65	0.77
12:AL:83:VAL:HG22	12:AL:84:LEU:N	1.99	0.77
55:BY:31:LEU:HB2	55:BY:36:ALA:H	1.48	0.77
12:CL:58:VAL:O	12:CL:65:GLU:HA	1.83	0.77
18:CR:53:ARG:HH12	18:CR:59:SER:HA	1.50	0.77
29:B3:56:VAL:HG12	29:B3:57:GLU:N	1.99	0.77
35:DA:759:G:H2'	35:DA:760:G:H8	1.49	0.77
35:BA:1270:C:H5''	35:BA:1271:G:C5'	2.13	0.77
5:AE:76:ILE:HG12	5:AE:77:PRO:HD2	1.66	0.77
27:D1:94:LEU:HD13	27:D1:95:LEU:H	1.50	0.77
17:AQ:54:GLY:HA3	17:AQ:82:MET:SD	2.24	0.77
38:BD:257:LEU:C	38:BD:257:LEU:HD23	2.05	0.77
35:DA:2716:U:H2'	35:DA:2717:G:C8	2.19	0.77
35:DA:2720:U:O2	35:DA:2720:U:H2'	1.83	0.77
1:AA:806:C:H2'	1:AA:807:A:C8	2.19	0.77
35:DA:729:G:C5	38:DD:208:LYS:HB2	2.20	0.77
52:BV:5:VAL:HG21	52:BV:36:PRO:HB2	1.66	0.77
49:BS:83:LYS:HG2	49:BS:105:ALA:CB	2.15	0.77
48:DR:41:ALA:HB1	48:DR:114:VAL:HG23	1.65	0.77
50:BT:109:GLU:HA	50:BT:112:ARG:CG	2.14	0.77
1:AA:1490:C:O2'	1:AA:1491:G:H5'	1.84	0.77
47:BQ:82:ARG:O	47:BQ:83:MET:HG2	1.84	0.77
1:AA:686:U:H1'	1:AA:687:A:N7	1.99	0.77
5:AE:19:MET:SD	5:AE:24:ARG:HG2	2.24	0.77
35:BA:2755:C:O2'	35:BA:2756:U:H2'	1.83	0.77
35:BA:2298:A:H2'	35:BA:2299:G:O4'	1.85	0.77
38:BD:133:LEU:HA	38:BD:136:ILE:HD12	1.66	0.77
1:CA:1424:C:H2'	1:CA:1425:U:C6	2.18	0.77
35:DA:1336:A:H2'	35:DA:1337:G:H8	1.50	0.77
12:CL:38:THR:HG22	12:CL:57:LYS:O	1.84	0.77
38:BD:165:ILE:HD12	38:BD:165:ILE:N	1.98	0.77
35:BA:268:C:H2'	35:BA:268:C:O2	1.83	0.77
38:BD:226:MET:HB3	38:BD:230:ASP:HB2	1.66	0.77
28:B2:52:ASP:O	28:B2:55:ARG:HB3	1.85	0.77
28:B2:55:ARG:HH22	54:BX:3:THR:HG23	1.49	0.77
27:B1:51:VAL:HG23	27:B1:62:VAL:HG11	1.66	0.77
56:DZ:6:LYS:HB2	56:DZ:8:TYR:HE1	1.49	0.77
46:DP:64:LYS:O	46:DP:66:GLY:N	2.17	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:63:LYS:HZ1	40:BF:67:GLN:HB3	1.44	0.77
6:CF:33:TYR:HD1	6:CF:75:LEU:HG	1.48	0.77
35:DA:807:U:H2'	35:DA:808:G:H8	1.49	0.77
43:BI:102:SER:HB2	43:BI:109:ILE:CG1	2.13	0.77
9:CI:21:PRO:HA	9:CI:59:PHE:HA	1.66	0.77
40:BF:177:ALA:HB1	40:BF:178:PRO:HD2	1.67	0.77
32:B6:15:GLU:OE2	32:B6:41:PRO:HG3	1.85	0.77
5:AE:78:HIS:HE1	5:AE:143:ARG:H	1.30	0.77
20:CT:88:VAL:HA	20:CT:91:LEU:HD12	1.66	0.77
1:AA:41:G:H2'	1:AA:42:G:C8	2.20	0.77
35:DA:1570:A:H2'	35:DA:1571:A:C8	2.19	0.77
35:DA:1722:A:O2'	35:DA:1739:U:H5"	1.84	0.77
48:DR:99:LYS:O	48:DR:100:LEU:HD22	1.85	0.77
12:CL:119:LYS:HB2	12:CL:120:TYR:CD1	2.19	0.77
43:BI:140:LEU:HD12	43:BI:141:LYS:N	1.99	0.77
38:BD:35:LYS:HE2	38:BD:104:TYR:HB2	1.63	0.77
32:B6:11:LEU:HD11	32:B6:51:GLU:HB2	1.67	0.77
34:B8:25:MET:HE2	46:BP:64:LYS:HG3	1.65	0.77
28:B2:53:LEU:HA	28:B2:56:GLN:CG	2.13	0.77
54:BX:60:ARG:CG	54:BX:72:LYS:H	1.96	0.77
45:DO:119:PRO:HB2	50:DT:68:TYR:CE1	2.19	0.77
35:BA:666:G:H4'	46:BP:49:ARG:NH2	1.99	0.77
40:DF:69:HIS:O	40:DF:70:THR:HG23	1.84	0.77
35:DA:18:C:H2'	35:DA:19:C:H6	1.49	0.77
43:BI:133:HIS:ND1	43:BI:134:PRO:HD2	2.00	0.77
11:AK:43:SER:HA	11:AK:47:VAL:HG21	1.67	0.77
31:D5:44:THR:HG22	31:D5:45:VAL:N	2.00	0.77
9:CI:50:LEU:HD21	9:CI:81:ILE:CG2	2.14	0.77
46:DP:79:ARG:HH21	46:DP:109:GLY:HA3	1.50	0.77
35:BA:1938:A:C2	35:BA:2590:A:H1'	2.20	0.77
18:CR:87:ARG:NH1	18:CR:87:ARG:HB3	1.99	0.77
20:CT:26:ASN:HB2	20:CT:71:THR:HG23	1.66	0.77
29:B3:18:ASP:O	29:B3:21:ALA:HB3	1.84	0.77
38:BD:247:ALA:HA	38:BD:254:THR:HG22	1.67	0.77
38:DD:165:ILE:HD12	38:DD:165:ILE:N	1.99	0.77
35:DA:851:U:H2'	35:DA:852:G:H8	1.49	0.77
50:DT:96:ARG:HG2	50:DT:96:ARG:HH11	1.49	0.77
41:DG:102:PHE:CE1	41:DG:106:LEU:HD13	2.19	0.77
34:B8:13:ARG:CB	46:BP:63:PRO:HA	2.15	0.77
45:BO:2:ILE:HD11	45:BO:82:ASN:HB3	1.66	0.77
41:BG:114:ILE:HD12	41:BG:117:PHE:CG	2.19	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:73:ALA:HB2	41:BG:87:PRO:HG2	1.65	0.77
34:D8:32:LEU:O	34:D8:33:ASN:HB3	1.84	0.77
52:DV:15:GLU:HB3	52:DV:16:PRO:HD2	1.66	0.77
1:CA:1190:G:P	3:CC:5:ILE:HG23	2.25	0.77
43:DI:79:ILE:CG1	43:DI:140:LEU:HD11	2.14	0.77
34:D8:23:VAL:HG13	34:D8:47:LYS:O	1.84	0.77
4:AD:174:LEU:N	4:AD:186:LEU:HD12	2.00	0.77
33:B7:8:ASN:HD22	33:B7:9:ARG:N	1.83	0.77
35:BA:925:C:H2'	35:BA:926:A:C5'	2.14	0.77
9:AI:95:LYS:HD3	9:AI:96:LEU:N	1.98	0.77
1:AA:1346:A:H5''	9:AI:120:ARG:HH12	1.49	0.77
11:CK:21:ILE:HD12	11:CK:21:ILE:N	1.99	0.77
35:DA:1270:C:H5''	35:DA:1271:G:C5'	2.14	0.77
35:BA:467:G:H2'	35:BA:468:G:H8	1.50	0.77
26:B0:43:THR:HG22	35:BA:2331:G:O2'	1.84	0.77
38:DD:167:GLY:H	38:DD:174:ILE:HB	1.50	0.77
25:CY:52:LEU:HD21	25:CY:56:ALA:HB3	1.65	0.77
38:BD:163:ALA:HB1	38:BD:175:LEU:HD21	1.65	0.77
11:AK:121:PRO:O	11:AK:126:ARG:HB2	1.85	0.77
11:CK:17:GLY:HA3	11:CK:80:VAL:HA	1.65	0.77
39:BE:33:VAL:CG1	39:BE:89:ASP:H	1.95	0.77
41:BG:47:LYS:HE3	41:BG:81:LYS:HB3	1.66	0.77
3:CC:6:HIS:ND1	14:CN:49:HIS:HB3	2.00	0.77
35:DA:8:A:H2'	35:DA:9:U:H6	1.50	0.77
1:CA:662:G:H2'	1:CA:663:A:H8	1.49	0.77
1:AA:405:U:H3'	1:AA:406:G:H5'	1.67	0.77
4:AD:59:ARG:HH22	4:AD:66:ARG:HH22	1.31	0.77
9:CI:9:ARG:HG3	9:CI:14:VAL:HG22	1.67	0.77
1:AA:528:C:H41	12:AL:49:ASN:HD22	1.29	0.77
35:DA:626:U:O2	46:DP:105:LEU:HG	1.84	0.77
46:BP:79:ARG:HH21	46:BP:109:GLY:HA3	1.50	0.77
35:BA:491:G:H2'	35:BA:492:A:C8	2.19	0.77
1:AA:665:A:H2'	1:AA:725:G:N2	2.00	0.77
38:DD:231:HIS:ND1	38:DD:232:PRO:HD2	1.99	0.77
35:BA:2521:C:H42	35:BA:2544:G:H1	1.32	0.77
16:CP:45:THR:HG22	16:CP:47:ASP:H	1.50	0.77
41:DG:41:GLN:NE2	41:DG:153:ARG:HB3	2.00	0.77
35:BA:2854:G:H2'	35:BA:2855:C:C6	2.19	0.77
39:DE:37:ARG:HB2	39:DE:46:ALA:HB3	1.66	0.77
41:BG:115:ARG:HH22	41:BG:136:ARG:HD2	1.48	0.77
10:AJ:4:ILE:HB	10:AJ:74:ILE:CD1	2.15	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BQ:39:PRO:HB3	47:BQ:99:PRO:CD	2.10	0.77
35:BA:2820:A:C4'	48:BR:5:LYS:HE2	2.15	0.77
19:AS:70:LYS:HB3	19:AS:70:LYS:NZ	1.99	0.77
6:AF:76:ALA:HB1	6:AF:80:ARG:NH2	1.99	0.77
11:AK:59:TYR:CZ	11:AK:63:LEU:HD11	2.20	0.77
1:AA:192:U:H4'	20:AT:103:GLY:HA2	1.65	0.77
24:AX:13:A:O2'	24:AX:14:U:H5'	1.85	0.77
8:AH:25:ASP:HA	8:AH:59:LEU:O	1.84	0.77
31:D5:57:VAL:HG23	31:D5:58:LEU:H	1.50	0.77
9:CI:63:ILE:HD12	9:CI:63:ILE:H	1.50	0.77
56:BZ:110:GLY:C	56:BZ:112:ARG:N	2.37	0.77
35:DA:1378:A:H4'	35:DA:1379:A:OP1	1.82	0.77
35:DA:2558:C:H2'	35:DA:2559:C:C6	2.20	0.77
35:BA:1635:G:H5'	35:BA:1635:G:H8	1.48	0.77
1:CA:1478:C:H2'	1:CA:1479:C:C6	2.20	0.77
31:B5:25:LEU:HD11	53:BW:19:LEU:HB3	1.66	0.77
28:D2:30:ARG:H	28:D2:30:ARG:HD2	1.48	0.77
35:BA:963:U:H2'	35:BA:964:C:C6	2.20	0.77
50:DT:23:ARG:HG2	50:DT:120:ARG:NH1	2.00	0.77
39:BE:52:LEU:HD23	39:BE:75:VAL:CG2	2.15	0.77
44:BN:43:THR:HB	44:BN:46:VAL:HB	1.67	0.77
34:D8:32:LEU:HG	34:D8:34:TRP:HE3	1.50	0.77
51:DU:88:ILE:C	51:DU:90:VAL:N	2.38	0.77
4:CD:30:LYS:C	4:CD:32:ALA:N	2.39	0.77
44:DN:74:ARG:CZ	44:DN:101:HIS:HB3	2.15	0.77
35:BA:581:C:H2'	35:BA:582:G:H8	1.50	0.77
1:AA:59:A:C5'	1:AA:60:A:H5''	2.15	0.77
49:DS:27:SER:HA	49:DS:89:ARG:HD2	1.66	0.77
2:AB:36:ARG:HB3	2:AB:41:ILE:HD11	1.67	0.77
20:CT:104:LEU:HD23	20:CT:105:SER:N	1.99	0.77
40:BF:132:VAL:HG22	40:BF:133:ASN:N	2.00	0.77
9:AI:65:VAL:O	9:AI:66:ARG:HG3	1.85	0.77
7:AG:50:ILE:O	7:AG:54:THR:HG23	1.84	0.77
35:DA:1635:G:H8	35:DA:1635:G:H5'	1.50	0.77
35:DA:2562:U:H1'	45:DO:23:ARG:NH1	1.99	0.76
38:DD:27:THR:O	38:DD:28:GLU:HB2	1.83	0.76
39:BE:6:GLY:HA2	39:BE:51:PHE:CE2	2.19	0.76
28:D2:17:SER:OG	28:D2:18:PRO:HD3	1.83	0.76
56:DZ:120:ILE:O	56:DZ:121:HIS:HB2	1.83	0.76
49:BS:26:LEU:O	49:BS:26:LEU:HD23	1.86	0.76
1:AA:1410:G:H2'	1:AA:1411:C:H6	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:95:GLN:HG3	2:AB:148:TYR:HA	1.66	0.76
1:CA:553:A:H2'	1:CA:554:C:C6	2.20	0.76
9:AI:63:ILE:HD12	9:AI:63:ILE:H	1.48	0.76
18:CR:56:THR:HB	18:CR:58:LEU:CD1	2.13	0.76
46:DP:112:LEU:HD22	46:DP:113:LYS:H	1.50	0.76
38:DD:172:TYR:HD1	38:DD:186:HIS:HA	1.50	0.76
1:CA:198:G:H2'	1:CA:199:G:C8	2.20	0.76
35:BA:1364:G:H1'	35:BA:1368:G:N2	1.99	0.76
8:CH:53:VAL:O	8:CH:56:LYS:HB2	1.84	0.76
1:CA:1298:C:H4'	1:CA:1299:A:O4'	1.86	0.76
35:BA:1401:G:H2'	35:BA:1402:C:C6	2.20	0.76
35:DA:1639:U:H2'	35:DA:1640:C:H5''	1.66	0.76
43:BI:77:LEU:HB2	43:BI:140:LEU:CD1	2.13	0.76
38:BD:44:ASN:CB	38:BD:49:ILE:HA	2.15	0.76
41:DG:141:PHE:CD1	41:DG:142:PRO:HD2	2.20	0.76
35:BA:2415:G:H4'	46:BP:66:GLY:C	2.06	0.76
35:BA:2730:C:O2'	35:BA:2731:G:H5'	1.85	0.76
45:BO:6:THR:HG22	45:BO:7:TYR:H	1.50	0.76
56:BZ:103:ARG:HG3	56:BZ:136:PHE:CZ	2.20	0.76
39:BE:37:ARG:HB2	39:BE:46:ALA:HB3	1.67	0.76
35:BA:587:C:C5	46:BP:33:ARG:HD2	2.20	0.76
1:CA:778:G:O2'	1:CA:779:C:H5'	1.84	0.76
35:DA:2036:C:C6	35:DA:2036:C:H5'	2.16	0.76
27:B1:26:ARG:HB2	27:B1:34:THR:OG1	1.85	0.76
25:AY:140:LEU:HD11	25:AY:157:ALA:HB1	1.65	0.76
1:CA:1073:U:H2'	1:CA:1074:G:H8	1.49	0.76
18:AR:52:PRO:O	18:AR:56:THR:HG23	1.85	0.76
42:BH:67:LEU:HG	42:BH:71:LEU:HD21	1.67	0.76
9:CI:95:LYS:HD3	9:CI:96:LEU:N	2.01	0.76
39:BE:101:ARG:HD3	39:BE:169:ASN:HD22	1.49	0.76
1:CA:255:G:H1'	17:CQ:16:GLN:NE2	1.99	0.76
31:D5:2:ALA:HB3	35:DA:747:U:C2	2.20	0.76
35:DA:2591:C:OP2	38:DD:239:ARG:HB2	1.85	0.76
35:BA:2779:U:H1'	35:BA:2781:A:C5	2.20	0.76
1:AA:1406:U:H2'	1:AA:1407:C:O4'	1.86	0.76
35:BA:705:A:H1'	38:BD:9:TYR:CE1	2.19	0.76
35:DA:1717:G:H3'	35:DA:1718:G:H5''	1.66	0.76
2:CB:29:ALA:O	2:CB:31:TYR:N	2.18	0.76
35:DA:1314:C:H6	35:DA:1314:C:H5'	1.51	0.76
35:DA:1639:U:C2'	35:DA:1640:C:H5''	2.15	0.76
51:BU:92:ARG:O	51:BU:94:ASN:N	2.18	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2220:G:H2'	35:BA:2221:G:H8	1.48	0.76
35:BA:2052:G:H2'	35:BA:2053:G:H8	1.51	0.76
34:D8:25:MET:HE2	46:DP:64:LYS:HG3	1.67	0.76
40:BF:53:THR:CG2	40:BF:56:GLU:HB2	2.15	0.76
47:BQ:108:GLY:HA3	56:BZ:116:VAL:HG21	1.67	0.76
2:CB:36:ARG:HB3	2:CB:41:ILE:HD11	1.66	0.76
2:CB:71:VAL:HG21	2:CB:93:VAL:HG23	1.66	0.76
20:AT:100:ILE:HD12	20:AT:100:ILE:N	1.99	0.76
9:AI:112:LYS:HA	9:AI:119:ALA:HB2	1.67	0.76
35:DA:1914:C:H2'	35:DA:1915:U:O4'	1.85	0.76
39:BE:167:VAL:HG22	39:BE:168:MET:H	1.50	0.76
1:AA:1074:G:H2'	1:AA:1075:C:H6	1.50	0.76
1:CA:313:A:H2'	1:CA:314:C:C6	2.20	0.76
35:DA:97:C:H2'	35:DA:98:G:C8	2.21	0.76
2:CB:19:HIS:HA	2:CB:39:ILE:HD13	1.67	0.76
38:DD:257:LEU:C	38:DD:257:LEU:HD23	2.06	0.76
1:CA:764:C:H2'	1:CA:765:G:H8	1.50	0.76
35:DA:1112:G:H1'	35:DA:1113:U:OP2	1.85	0.76
35:BA:1722:A:O2'	35:BA:1739:U:H5''	1.84	0.76
51:BU:88:ILE:C	51:BU:90:VAL:H	1.87	0.76
54:BX:57:LEU:HD12	54:BX:76:ARG:NE	2.00	0.76
40:DF:3:GLU:HB2	40:DF:24:LEU:HG	1.68	0.76
1:AA:1423:G:H5'	45:BO:49:ARG:NH2	2.01	0.76
35:BA:8:A:H2'	35:BA:9:U:H6	1.50	0.76
1:CA:735:C:O2'	1:CA:736:C:H5'	1.85	0.76
35:DA:813:U:H2'	35:DA:814:C:C6	2.21	0.76
51:DU:18:LEU:O	51:DU:18:LEU:HD23	1.86	0.76
51:DU:6:THR:HG21	51:DU:10:ARG:HH21	1.48	0.76
35:DA:2755:C:O2'	35:DA:2756:U:H2'	1.86	0.76
9:CI:112:LYS:HA	9:CI:119:ALA:HB2	1.67	0.76
8:AH:86:ILE:HG12	8:AH:135:CYS:HA	1.65	0.76
9:AI:50:LEU:HD21	9:AI:81:ILE:CG2	2.14	0.76
1:CA:528:C:H41	12:CL:49:ASN:HD22	1.34	0.76
46:BP:83:VAL:HG12	46:BP:112:LEU:HD21	1.66	0.76
47:DQ:82:ARG:O	47:DQ:83:MET:HG2	1.85	0.76
31:D5:2:ALA:HA	35:DA:2015:A:C1'	2.15	0.76
1:CA:1435:G:H2'	1:CA:1436:U:C5	2.20	0.76
35:DA:1614:A:C2	53:DW:87:PRO:HB3	2.20	0.76
35:DA:1709:U:H2'	35:DA:1710:C:H6	1.49	0.76
1:AA:1088:G:H2'	1:AA:1089:G:H8	1.50	0.76
50:DT:65:LYS:HA	50:DT:65:LYS:HZ2	1.48	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:65:ILE:HD12	38:DD:65:ILE:C	2.06	0.76
45:BO:63:VAL:CG2	45:BO:84:ALA:HA	2.13	0.76
39:BE:30:PRO:HD3	39:BE:180:ASN:ND2	1.99	0.76
54:BX:36:LYS:O	54:BX:38:GLU:N	2.18	0.76
27:B1:19:GLN:HE21	35:BA:379:G:N2	1.81	0.76
56:DZ:33:LEU:HD21	56:DZ:35:ARG:HB2	1.65	0.76
35:DA:558:G:H2'	35:DA:559:G:H8	1.50	0.76
27:D1:47:GLN:HB3	27:D1:64:ALA:HB2	1.65	0.76
35:DA:2415:G:H4'	46:DP:66:GLY:CA	2.15	0.76
40:DF:185:ASP:HA	40:DF:188:ARG:HB3	1.67	0.76
35:DA:2243:U:H2'	35:DA:2244:U:H6	1.51	0.76
35:BA:742:G:H2'	35:BA:743:G:C8	2.18	0.76
8:CH:109:ILE:HG12	8:CH:110:ALA:N	2.00	0.76
1:CA:1053:G:O6	1:CA:1200:C:H5''	1.86	0.76
3:CC:86:VAL:O	3:CC:90:GLU:HG2	1.86	0.76
1:AA:1298:C:H4'	1:AA:1299:A:O4'	1.86	0.76
35:DA:431:U:O2'	35:DA:432:A:H5'	1.85	0.76
48:BR:103:ARG:HG2	48:BR:103:ARG:HH11	1.50	0.76
1:CA:646:U:H2'	1:CA:647:C:C6	2.20	0.76
16:CP:14:ASN:N	16:CP:15:PRO:HD3	1.99	0.76
17:CQ:97:SER:O	17:CQ:98:LEU:HG	1.84	0.76
35:DA:877:U:H2'	35:DA:878:A:H5''	1.65	0.76
38:BD:34:VAL:HG22	38:BD:35:LYS:HG3	1.66	0.76
34:B8:39:LYS:HG2	34:B8:42:ARG:NH1	2.00	0.76
34:B8:23:VAL:HG12	34:B8:46:ARG:HH12	1.51	0.76
10:AJ:48:THR:HG22	10:AJ:49:VAL:H	1.51	0.76
39:DE:102:VAL:HA	39:DE:200:GLU:HA	1.68	0.76
42:BH:85:LYS:O	42:BH:132:ARG:HA	1.85	0.76
35:DA:873:G:H2'	35:DA:874:G:C8	2.20	0.76
36:BB:7:G:H4'	49:BS:29:PHE:CD2	2.20	0.76
3:AC:6:HIS:ND1	14:AN:49:HIS:HB3	2.00	0.76
34:D8:13:ARG:HB3	46:DP:63:PRO:CA	2.14	0.76
1:CA:976:G:N2	1:CA:1362:C:H2'	2.01	0.76
25:AY:61:PRO:HD2	25:AY:65:THR:O	1.86	0.76
33:B7:34:ARG:NH1	33:B7:42:LEU:O	2.17	0.76
1:CA:636:U:H2'	1:CA:637:G:C8	2.20	0.76
8:AH:120:THR:OG1	8:AH:123:GLU:HG3	1.86	0.76
8:CH:25:ASP:HA	8:CH:59:LEU:O	1.85	0.76
31:B5:57:VAL:HG23	31:B5:58:LEU:H	1.49	0.76
38:DD:48:ARG:HG3	38:DD:48:ARG:HH11	1.51	0.76
1:CA:1116:C:C2'	1:CA:1117:G:H5''	2.16	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1239:A:H62	1:AA:1299:A:H62	1.33	0.76
1:CA:1299:A:H2'	1:CA:1301:U:C6	2.20	0.76
1:AA:1366:C:H2'	1:AA:1367:C:C6	2.21	0.76
2:CB:95:GLN:HG3	2:CB:148:TYR:HA	1.67	0.76
35:DA:2730:C:O2'	35:DA:2731:G:H5'	1.84	0.76
42:DH:85:LYS:O	42:DH:132:ARG:HA	1.86	0.76
54:DX:36:LYS:O	54:DX:38:GLU:N	2.18	0.76
1:CA:543:C:H2'	1:CA:544:G:H8	1.50	0.76
35:DA:588:U:H6	35:DA:588:U:O5'	1.68	0.76
12:CL:54:LYS:N	12:CL:54:LYS:HD2	2.00	0.76
35:DA:259:G:H21	35:DA:621:A:H8	1.33	0.76
1:AA:198:G:H2'	1:AA:199:G:C8	2.20	0.76
18:CR:86:VAL:HG12	18:CR:87:ARG:HH12	1.50	0.76
1:CA:328:C:H4'	1:CA:329:A:H5'	1.67	0.76
24:CX:16:U:H2'	24:CX:17:U:C6	2.20	0.76
2:AB:19:HIS:HA	2:AB:39:ILE:HD13	1.68	0.76
50:DT:109:GLU:HA	50:DT:112:ARG:CG	2.15	0.76
50:DT:91:ARG:HA	50:DT:117:ASP:H	1.50	0.76
41:DG:39:ILE:HA	41:DG:157:ILE:CA	2.16	0.76
47:DQ:34:LEU:HD12	47:DQ:35:VAL:H	1.50	0.76
50:BT:23:ARG:HG2	50:BT:120:ARG:NH1	2.01	0.76
42:DH:105:LEU:HD21	42:DH:113:VAL:HB	1.68	0.76
49:BS:89:ARG:HA	49:BS:89:ARG:NE	2.01	0.76
47:BQ:119:ARG:HG2	47:BQ:120:ILE:HD13	1.66	0.76
44:BN:58:ASP:C	44:BN:60:ILE:H	1.88	0.76
2:CB:72:GLY:HA3	2:CB:165:VAL:HG13	1.68	0.76
46:DP:38:GLN:CG	46:DP:39:LYS:H	1.99	0.76
40:DF:177:ALA:HB1	40:DF:178:PRO:HD2	1.67	0.76
1:AA:255:G:H1'	17:AQ:16:GLN:NE2	1.99	0.76
35:BA:2201:C:O2'	35:BA:2202:C:H5'	1.85	0.76
4:CD:5:ILE:O	4:CD:6:GLY:O	2.04	0.76
46:BP:59:LEU:HA	46:BP:61:ARG:CZ	2.16	0.76
43:BI:79:ILE:CG1	43:BI:140:LEU:HD11	2.16	0.76
34:B8:32:LEU:HG	34:B8:34:TRP:HE3	1.50	0.76
35:BA:528:A:N1	35:BA:2042:A:H2'	2.01	0.76
35:DA:2811:G:OP1	39:DE:60:ASN:HB2	1.85	0.76
54:DX:60:ARG:CG	54:DX:72:LYS:H	1.99	0.76
3:AC:9:GLY:O	3:AC:12:LEU:HB2	1.85	0.76
35:BA:564:C:H2'	35:BA:565:C:C6	2.21	0.76
35:BA:2821:A:H2'	35:BA:2822:G:C8	2.20	0.76
35:BA:1639:U:H2'	35:BA:1640:C:H5''	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DN:34:LEU:HD21	44:DN:120:LEU:CB	2.15	0.76
44:BN:34:LEU:CD2	44:BN:120:LEU:HB2	2.14	0.76
55:DY:28:LYS:HZ2	55:DY:37:VAL:HG12	1.49	0.76
27:B1:33:LYS:HG2	27:B1:34:THR:H	1.50	0.76
25:AY:173:ASP:O	25:AY:177:GLU:HB2	1.85	0.76
25:AY:170:ALA:O	25:AY:174:GLN:HB3	1.86	0.76
12:AL:84:LEU:HD23	12:AL:85:ILE:N	2.01	0.76
1:CA:600:C:O2'	1:CA:601:C:H5'	1.85	0.76
25:CY:70:SER:HB3	25:CY:76:LEU:HB2	1.66	0.76
38:DD:135:PHE:HD1	38:DD:135:PHE:H	1.33	0.76
6:CF:53:ALA:HB3	6:CF:86:ARG:HH12	1.48	0.76
39:BE:167:VAL:O	39:BE:168:MET:HG3	1.84	0.76
17:CQ:40:LYS:HD2	17:CQ:42:TYR:CE1	2.20	0.76
39:BE:98:PRO:HG3	39:BE:175:VAL:HG12	1.67	0.76
1:AA:854:G:H3'	1:AA:871:U:O4	1.86	0.76
35:DA:2762:G:H2'	35:DA:2763:G:H5''	1.68	0.76
38:DD:45:ASN:CG	38:DD:46:GLN:H	1.85	0.76
38:DD:45:ASN:ND2	38:DD:46:GLN:H	1.84	0.76
38:DD:35:LYS:HE2	38:DD:104:TYR:HB2	1.68	0.76
41:DG:37:VAL:CG1	41:DG:94:LEU:HD12	2.16	0.76
35:BA:2415:G:H4'	46:BP:66:GLY:CA	2.15	0.76
45:BO:105:GLU:OE1	45:BO:105:GLU:N	2.19	0.76
35:BA:873:G:H2'	35:BA:874:G:C8	2.21	0.76
56:BZ:28:MET:CE	56:BZ:37:VAL:HG21	2.14	0.76
56:BZ:71:VAL:HG22	56:BZ:88:PHE:HE2	1.49	0.76
51:BU:93:LYS:H	51:BU:93:LYS:HD3	1.50	0.76
47:DQ:134:ARG:HG2	47:DQ:135:ASP:H	1.51	0.76
56:DZ:169:GLU:HG2	56:DZ:170:THR:N	2.00	0.76
19:CS:70:LYS:HB3	19:CS:70:LYS:NZ	2.00	0.76
25:AY:70:SER:HB3	25:AY:76:LEU:CD1	2.16	0.76
2:CB:169:LYS:HD3	2:CB:169:LYS:C	2.06	0.76
2:CB:200:ILE:HG22	2:CB:202:PRO:HD3	1.66	0.76
1:AA:1489:G:H2'	1:AA:1490:C:H6	1.51	0.76
20:CT:38:LYS:O	20:CT:41:ILE:HG12	1.86	0.76
20:CT:100:ILE:HD12	20:CT:100:ILE:N	2.00	0.76
39:DE:183:LEU:HD21	50:DT:11:GLU:HB3	1.68	0.76
35:BA:769:G:O2'	35:BA:770:G:H5'	1.86	0.76
12:AL:58:VAL:O	12:AL:65:GLU:HA	1.84	0.76
7:AG:79:ARG:HE	7:AG:84:ASN:ND2	1.82	0.76
54:BX:64:LYS:HG2	54:BX:65:ARG:N	1.99	0.76
35:DA:740:U:H2'	35:DA:741:G:H8	1.45	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BP:112:LEU:HD22	46:BP:113:LYS:H	1.51	0.76
31:B5:16:ARG:HG2	31:B5:16:ARG:HH11	1.50	0.76
1:CA:59:A:C5'	1:CA:60:A:H5''	2.15	0.76
35:DA:1364:G:H1'	35:DA:1368:G:N2	2.01	0.76
1:CA:348:G:O2'	1:CA:349:A:H5'	1.86	0.76
35:DA:860:U:H5	35:DA:917:A:N7	1.84	0.76
38:BD:27:THR:O	38:BD:28:GLU:HB2	1.86	0.75
41:DG:46:ALA:HB2	41:DG:88:ILE:HB	1.67	0.75
41:DG:34:LEU:HD12	41:DG:99:MET:SD	2.25	0.75
56:BZ:125:LEU:HD23	56:BZ:126:VAL:N	2.00	0.75
39:DE:181:LEU:HD22	39:DE:181:LEU:N	2.01	0.75
27:B1:94:LEU:HD13	27:B1:95:LEU:O	1.85	0.75
40:BF:185:ASP:HA	40:BF:188:ARG:HB3	1.67	0.75
18:CR:50:ILE:HD12	18:CR:70:ILE:HG21	1.67	0.75
35:DA:30:G:H2'	35:DA:31:C:H6	1.50	0.75
43:BI:98:ALA:HB1	43:BI:109:ILE:CB	2.15	0.75
35:DA:925:C:H2'	35:DA:926:A:C5'	2.16	0.75
9:AI:21:PRO:HA	9:AI:59:PHE:HA	1.66	0.75
31:D5:45:VAL:HG22	31:D5:51:TYR:HD1	1.49	0.75
45:DO:121:VAL:C	45:DO:122:LEU:HD12	2.06	0.75
35:BA:1176:G:H1'	35:BA:1177:A:OP1	1.86	0.75
7:CG:113:GLU:HB2	7:CG:119:ARG:HG2	1.68	0.75
13:CM:23:TYR:CE1	13:CM:71:ARG:HB2	2.21	0.75
4:AD:5:ILE:HG22	4:AD:6:GLY:H	1.51	0.75
35:BA:2487:G:H2'	35:BA:2488:A:H8	1.51	0.75
1:AA:770:C:O2'	1:AA:771:G:H5'	1.86	0.75
31:D5:15:ARG:O	31:D5:18:ALA:HB3	1.86	0.75
1:AA:1271:G:H5'	1:AA:1314:C:H5''	1.67	0.75
35:DA:2873:A:H1'	48:DR:6:SER:HB2	1.66	0.75
38:BD:65:ILE:C	38:BD:65:ILE:HD12	2.07	0.75
32:B6:11:LEU:HG	32:B6:26:ASN:ND2	2.00	0.75
35:DA:1578:U:C3'	35:DA:1579:A:H5''	2.16	0.75
28:B2:33:MET:HG2	54:BX:10:ALA:HB2	1.68	0.75
35:DA:904:C:H2'	35:DA:904:C:O2	1.85	0.75
1:CA:429:U:H1'	1:CA:430:A:H5''	1.69	0.75
35:DA:2502:G:H5'	35:DA:2503:A:H5''	1.68	0.75
46:DP:47:ASP:HB3	46:DP:48:PRO:O	1.85	0.75
1:CA:551:U:H2'	1:CA:552:U:C6	2.21	0.75
12:AL:54:LYS:HD2	12:AL:54:LYS:N	2.00	0.75
1:AA:625:G:H2'	1:AA:626:U:C6	2.20	0.75
35:DA:2298:A:H2'	35:DA:2299:G:O4'	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1270:C:H5''	35:BA:1271:G:O5'	1.85	0.75
1:AA:878:G:H5'	8:AH:89:PRO:HG2	1.68	0.75
35:BA:18:C:H2'	35:BA:19:C:H6	1.51	0.75
35:BA:1484:G:C3'	35:BA:1485:G:H5''	2.16	0.75
35:BA:1750:G:O2'	35:BA:1751:C:H5'	1.86	0.75
35:DA:2103:C:C3'	35:DA:2104:G:H5''	2.16	0.75
35:BA:2720:U:H2'	35:BA:2720:U:O2	1.84	0.75
36:BB:91:C:H2'	36:BB:92:C:H6	1.51	0.75
35:BA:877:U:H2'	35:BA:878:A:H5''	1.66	0.75
35:BA:154:G:H1	35:BA:172:C:H42	1.34	0.75
35:DA:1509(B):A:H2'	35:DA:1510:G:H8	1.50	0.75
41:DG:110:ALA:CA	41:DG:140:ILE:HD13	2.16	0.75
35:DA:2303:G:H4'	41:DG:124:SER:O	1.85	0.75
39:BE:128:SER:O	39:BE:129:HIS:HB2	1.86	0.75
54:BX:51:VAL:HG13	54:BX:81:VAL:H	1.50	0.75
41:BG:93:THR:HG22	41:BG:95:ARG:HG3	1.68	0.75
35:DA:536:A:H2'	35:DA:537:C:C6	2.21	0.75
35:BA:2243:U:H2'	35:BA:2244:U:H6	1.50	0.75
55:BY:79:CYS:SG	55:BY:80:GLY:N	2.59	0.75
44:DN:23:LEU:HA	44:DN:26:LEU:HB3	1.66	0.75
44:BN:34:LEU:HD21	44:BN:120:LEU:CB	2.13	0.75
35:DA:792:G:H5''	35:DA:793:A:H5'	1.69	0.75
1:AA:403:C:H2'	1:AA:404:U:H6	1.52	0.75
47:DQ:16:ARG:HB3	47:DQ:16:ARG:NH1	2.01	0.75
25:AY:65:THR:HG23	25:AY:101:ILE:O	1.86	0.75
27:B1:32:LYS:HA	35:BA:2396:G:HO2'	1.52	0.75
8:AH:11:THR:HA	8:AH:14:ARG:NH1	2.01	0.75
1:CA:522:C:N4	1:CA:528:C:H42	1.84	0.75
12:CL:89:ARG:HB2	12:CL:89:ARG:NH1	2.00	0.75
1:CA:385:C:O2'	1:CA:386:C:H5'	1.86	0.75
56:DZ:79:ARG:HG2	56:DZ:80:ARG:HG2	1.68	0.75
35:DA:2857:G:N2	35:DA:2859:G:H3'	2.01	0.75
23:CW:27:G:H2'	23:CW:28:U:C6	2.21	0.75
35:BA:1446:C:H42	35:BA:1465:G:H1	1.34	0.75
41:DG:105:LYS:HB2	41:DG:105:LYS:HZ2	1.52	0.75
41:BG:131:TYR:OH	41:BG:133:LEU:HD23	1.85	0.75
54:DX:5:TYR:O	54:DX:7:VAL:N	2.19	0.75
35:DA:2781:A:H5''	35:DA:2782:G:H5'	1.68	0.75
1:CA:428:G:H4'	1:CA:429:U:O5'	1.87	0.75
20:AT:88:VAL:HA	20:AT:91:LEU:HD12	1.65	0.75
6:CF:10:LEU:HA	6:CF:84:ASN:O	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2533:A:C2'	35:BA:2534:A:H5''	2.16	0.75
1:AA:452:A:H4'	16:AP:72:ARG:NH2	2.02	0.75
1:AA:16:A:O2'	1:AA:17:U:H5'	1.87	0.75
33:D7:34:ARG:NH1	33:D7:42:LEU:O	2.20	0.75
35:BA:2297:C:C2'	35:BA:2298:A:H5'	2.16	0.75
5:CE:145:LYS:O	5:CE:148:VAL:HB	1.87	0.75
1:CA:375:U:H2'	1:CA:376:G:H8	1.52	0.75
35:DA:1403:C:H5''	35:DA:1471:A:C1'	2.16	0.75
35:BA:2307:G:N2	35:BA:2308:G:H5'	2.01	0.75
1:AA:337:C:H2'	1:AA:338:A:H8	1.50	0.75
1:CA:1088:G:H2'	1:CA:1089:G:H8	1.49	0.75
38:DD:226:MET:HB3	38:DD:230:ASP:HB2	1.67	0.75
35:BA:2729:G:H1'	39:BE:187:ALA:CB	2.16	0.75
55:DY:81:LYS:HG3	55:DY:97:ARG:HG2	1.67	0.75
51:DU:68:ALA:O	51:DU:71:GLN:HB3	1.87	0.75
19:CS:36:ARG:NH2	19:CS:75:ALA:HB3	2.00	0.75
40:BF:114:VAL:HG23	40:BF:115:ALA:N	2.01	0.75
25:AY:76:LEU:HA	25:AY:79:ILE:HD12	1.68	0.75
34:D8:23:VAL:HG12	34:D8:46:ARG:NH1	2.00	0.75
1:CA:735:C:H2'	1:CA:736:C:H6	1.51	0.75
13:CM:108:ARG:N	13:CM:108:ARG:HD2	2.02	0.75
13:CM:90:LEU:HA	13:CM:93:ARG:HB2	1.68	0.75
16:CP:26:ARG:NH1	16:CP:26:ARG:HB3	2.01	0.75
55:BY:28:LYS:HZ2	55:BY:37:VAL:HG12	1.51	0.75
25:CY:68:VAL:CG2	25:CY:99:LEU:HB2	2.16	0.75
1:CA:1347:G:H22	1:CA:1373:G:H2'	1.47	0.75
9:CI:65:VAL:O	9:CI:66:ARG:HG3	1.87	0.75
31:D5:16:ARG:HH12	31:D5:17:ASP:CG	1.89	0.75
1:CA:1436:U:H2'	1:CA:1437:C:C6	2.21	0.75
35:DA:1938:A:C2	35:DA:2590:A:H1'	2.21	0.75
13:AM:49:THR:HB	13:AM:52:GLU:HG3	1.67	0.75
3:AC:73:PRO:O	3:AC:76:VAL:HG22	1.86	0.75
31:B5:42:PRO:HB2	35:BA:2815:C:O2'	1.86	0.75
50:DT:101:PHE:HD2	50:DT:102:ILE:N	1.83	0.75
52:DV:61:VAL:HB	52:DV:99:ILE:N	2.01	0.75
49:BS:85:VAL:HG23	49:BS:86:ALA:H	1.52	0.75
4:CD:174:LEU:N	4:CD:186:LEU:HD12	2.02	0.75
52:BV:70:ILE:CB	52:BV:90:PRO:HB2	2.17	0.75
55:BY:75:ILE:HD13	55:BY:76:CYS:N	2.01	0.75
35:BA:2716:U:H2'	35:BA:2717:G:C8	2.20	0.75
49:DS:13:ARG:N	49:DS:13:ARG:HD2	2.02	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DS:83:LYS:HG2	49:DS:105:ALA:CB	2.15	0.75
40:DF:53:THR:H	40:DF:56:GLU:CB	1.99	0.75
25:AY:7:TYR:CE2	25:AY:160:GLU:HG2	2.22	0.75
40:BF:170:LEU:HD12	40:BF:171:PRO:HD2	1.69	0.75
35:DA:1937:A:O2'	35:DA:1938:A:H5'	1.87	0.75
14:AN:16:PHE:CD2	14:AN:16:PHE:N	2.53	0.75
13:AM:23:TYR:CE1	13:AM:71:ARG:HB2	2.21	0.75
29:D3:18:ASP:O	29:D3:21:ALA:HB3	1.87	0.75
35:DA:1709:U:H2'	35:DA:1710:C:C6	2.21	0.75
29:D3:59:VAL:HG12	29:D3:60:GLU:N	2.02	0.75
6:AF:50:TYR:CE1	18:AR:77:GLY:HA2	2.22	0.75
6:AF:48:LEU:HD22	18:AR:77:GLY:HA3	1.69	0.75
35:BA:1112:G:H1'	35:BA:1113:U:OP1	1.86	0.75
1:AA:348:G:O2'	1:AA:349:A:H5'	1.85	0.75
38:DD:210:GLY:O	38:DD:211:ARG:HB3	1.87	0.75
16:CP:19:ILE:HG22	16:CP:36:ILE:HG13	1.68	0.75
41:DG:48:GLU:HG2	41:DG:49:ASP:H	1.52	0.75
10:CJ:4:ILE:HB	10:CJ:74:ILE:CD1	2.15	0.75
27:B1:83:GLU:HG3	27:B1:86:SER:H	1.52	0.75
56:DZ:150:LEU:HD23	56:DZ:171:ILE:HD11	1.67	0.75
40:BF:84:VAL:O	40:BF:86:GLY:N	2.19	0.75
1:AA:675:A:H1'	11:AK:116:HIS:CE1	2.22	0.75
50:BT:11:GLU:N	50:BT:11:GLU:CD	2.39	0.75
1:CA:1240:U:H3	7:CG:30:ILE:CG2	1.99	0.75
33:B7:25:PRO:HA	33:B7:28:ARG:NH2	2.02	0.75
42:DH:67:LEU:O	42:DH:71:LEU:HD13	1.87	0.75
13:AM:90:LEU:HA	13:AM:93:ARG:HB2	1.68	0.75
1:AA:15:G:H2'	1:AA:16:A:C8	2.21	0.75
1:AA:1116:C:H2'	1:AA:1117:G:C5'	2.17	0.75
3:CC:155:GLY:HA3	3:CC:163:ALA:HB1	1.69	0.75
38:BD:255:LYS:HE3	38:BD:256:GLY:N	2.02	0.75
24:AX:21:G:H2'	24:AX:22:U:C5	2.21	0.75
35:DA:1644:C:O2'	35:DA:1645:G:H5'	1.87	0.75
16:AP:27:LYS:H	16:AP:27:LYS:HD2	1.52	0.75
35:DA:2316:C:H1'	41:DG:128:ARG:NH1	2.02	0.75
35:BA:1677:A:H2'	35:BA:1678:G:C8	2.22	0.75
45:BO:87:ILE:HD12	45:BO:91:LEU:C	2.06	0.75
39:DE:176:ILE:HB	39:DE:181:LEU:HD23	1.67	0.75
35:BA:2300:G:H1	35:BA:2316:C:H42	1.35	0.75
54:DX:51:VAL:HG13	54:DX:81:VAL:H	1.52	0.75
27:D1:78:LYS:HD2	27:D1:78:LYS:N	2.02	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DR:24:GLN:HB2	48:DR:44:LEU:HD21	1.66	0.75
1:AA:1431:C:C2'	1:AA:1432:G:H5'	2.17	0.75
56:BZ:149:SER:CB	56:BZ:173:ALA:HA	2.16	0.75
19:AS:6:LYS:HD2	19:AS:6:LYS:H	1.50	0.75
25:CY:179:LYS:O	25:CY:182:GLU:HB2	1.86	0.75
7:CG:100:ALA:O	7:CG:104:LEU:HD23	1.87	0.75
1:CA:600:C:OP2	8:CH:97:VAL:HG12	1.85	0.75
23:AW:24:C:H6	23:AW:24:C:H5'	1.51	0.75
41:DG:4:ASP:HA	41:DG:8:LYS:HD3	1.69	0.75
35:DA:286:C:H2'	35:DA:286:C:O2	1.86	0.75
35:BA:2195:C:O2'	35:BA:2196:C:H5'	1.87	0.75
1:AA:1466:C:H2'	1:AA:1467:G:O4'	1.86	0.75
29:D3:52:HIS:CD2	36:DB:83:G:H4'	2.21	0.75
56:BZ:29:TYR:HE2	56:BZ:87:ASP:HB2	1.52	0.75
54:BX:40:LYS:HD2	54:BX:41:ASN:N	2.02	0.75
54:BX:47:PHE:O	54:BX:49:VAL:HG23	1.87	0.75
39:DE:61:ARG:HG2	39:DE:62:PRO:HD3	1.69	0.75
41:BG:43:LEU:HD23	41:BG:44:GLY:H	1.49	0.75
1:CA:737:A:H2'	1:CA:738:C:H6	1.47	0.75
16:AP:26:ARG:NH1	16:AP:26:ARG:HB3	2.02	0.75
35:BA:2475:C:H42	35:BA:2529:G:N2	1.84	0.75
19:CS:51:VAL:O	19:CS:57:HIS:HA	1.86	0.75
14:CN:16:PHE:N	14:CN:16:PHE:CD2	2.54	0.75
1:AA:1184:G:H2'	1:AA:1185:G:C8	2.22	0.75
35:BA:361:G:H2'	35:BA:362:U:H5''	1.68	0.75
35:DA:2661:G:H2'	35:DA:2662:A:C8	2.22	0.75
43:DI:49:ALA:HA	43:DI:52:ARG:HG2	1.68	0.75
1:AA:1264:C:H2'	1:AA:1265:G:H8	1.51	0.75
6:AF:53:ALA:HB3	6:AF:86:ARG:HH12	1.49	0.75
45:DO:79:PHE:HA	50:DT:72:VAL:HG22	1.69	0.74
50:DT:62:THR:HG21	50:DT:75:ILE:HG13	1.69	0.74
34:B8:32:LEU:HG	34:B8:34:TRP:CE3	2.22	0.74
56:BZ:134:PRO:O	56:BZ:136:PHE:N	2.19	0.74
54:BX:78:LYS:O	54:BX:78:LYS:HD3	1.87	0.74
42:BH:122:THR:HB	42:BH:134:SER:HB2	1.69	0.74
52:DV:5:VAL:HG21	52:DV:36:PRO:HB2	1.67	0.74
32:D6:11:LEU:HD11	32:D6:51:GLU:HB2	1.67	0.74
4:CD:90:GLY:HA3	4:CD:204:ILE:HD11	1.69	0.74
18:CR:74:ARG:HE	18:CR:81:PHE:HA	1.51	0.74
35:DA:587:C:C5	46:DP:33:ARG:HD2	2.22	0.74
35:DA:832:G:O3'	46:DP:45:LEU:HD11	1.86	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DI:133:HIS:HB2	43:DI:134:PRO:HD3	1.66	0.74
6:AF:60:PHE:C	6:AF:61:LEU:HD12	2.08	0.74
35:DA:1245:G:H3'	46:DP:16:ARG:HH22	1.50	0.74
25:CY:76:LEU:HD21	25:CY:99:LEU:HD21	1.68	0.74
35:DA:2475:C:H42	35:DA:2529:G:N2	1.85	0.74
53:DW:13:SER:HB3	53:DW:16:LYS:HD2	1.68	0.74
35:BA:1418:G:H1	35:BA:1579:A:H5'	1.52	0.74
35:DA:1484:G:C2'	35:DA:1485:G:H5''	2.16	0.74
35:BA:919:G:H4'	36:BB:81:G:O2'	1.86	0.74
27:B1:20:ARG:NH2	27:B1:41:ARG:HE	1.85	0.74
17:CQ:54:GLY:HA3	17:CQ:82:MET:SD	2.27	0.74
5:AE:152:ARG:HB3	8:AH:43:GLY:HA3	1.67	0.74
6:AF:82:ARG:HB2	6:AF:85:VAL:HG23	1.69	0.74
39:BE:102:VAL:HA	39:BE:200:GLU:HA	1.68	0.74
35:BA:2811:G:OP1	39:BE:60:ASN:HB2	1.87	0.74
52:BV:32:THR:HG22	52:BV:33:VAL:N	2.02	0.74
1:AA:972:C:H4'	10:AJ:57:LYS:CG	2.17	0.74
35:DA:71:A:H4'	35:DA:72:U:O5'	1.85	0.74
44:DN:43:THR:HB	44:DN:46:VAL:HB	1.67	0.74
3:CC:150:LYS:HG3	3:CC:169:ALA:HB2	1.69	0.74
35:DA:1019:U:H2'	35:DA:1020:A:C8	2.22	0.74
35:BA:797:C:H2'	35:BA:798:G:C8	2.23	0.74
47:BQ:43:THR:OG1	47:BQ:46:GLN:HG3	1.87	0.74
1:AA:328:C:H4'	1:AA:329:A:H5'	1.69	0.74
35:BA:1639:U:C2'	35:BA:1640:C:H5''	2.16	0.74
2:AB:185:ILE:HG22	2:AB:199:TYR:HB2	1.68	0.74
44:DN:58:ASP:C	44:DN:60:ILE:H	1.86	0.74
1:CA:675:A:H1'	11:CK:116:HIS:CE1	2.22	0.74
46:DP:45:LEU:HD23	46:DP:46:LYS:H	1.50	0.74
55:DY:15:VAL:HG12	55:DY:16:ALA:H	1.52	0.74
43:DI:115:ALA:H	43:DI:131:LYS:HE2	1.51	0.74
43:DI:115:ALA:N	43:DI:131:LYS:HE2	2.02	0.74
6:AF:33:TYR:CD1	6:AF:75:LEU:HG	2.23	0.74
18:AR:74:ARG:HE	18:AR:81:PHE:HA	1.52	0.74
8:CH:119:LEU:HB2	8:CH:123:GLU:HB2	1.68	0.74
26:B0:21:LEU:HD11	26:B0:41:ARG:HD3	1.68	0.74
55:BY:31:LEU:HD12	55:BY:33:LYS:N	2.00	0.74
5:AE:35:GLY:CA	5:AE:41:VAL:HG12	2.17	0.74
2:AB:169:LYS:C	2:AB:169:LYS:HD3	2.07	0.74
5:AE:102:ALA:HB2	5:AE:120:THR:OG1	1.87	0.74
35:DA:1484:G:C3'	35:DA:1485:G:H5''	2.16	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:76:ILE:HG12	5:CE:77:PRO:HD2	1.68	0.74
5:CE:90:VAL:HG23	5:CE:121:LYS:HB3	1.67	0.74
13:AM:10:PRO:HG2	13:AM:18:ALA:HB1	1.69	0.74
9:AI:107:ARG:O	9:AI:108:VAL:HG13	1.87	0.74
38:DD:255:LYS:HE3	38:DD:256:GLY:N	2.02	0.74
35:BA:1550:C:H2'	35:BA:1551:C:H6	1.51	0.74
35:DA:191:A:O2'	35:DA:192:C:H5'	1.87	0.74
35:DA:1290:C:H2'	35:DA:1291:C:H6	1.50	0.74
13:CM:46:LYS:HG3	13:CM:47:ASP:H	1.52	0.74
35:BA:2102:U:H2'	35:BA:2103:C:C6	2.22	0.74
35:DA:2850:A:H2'	35:DA:2851:A:C8	2.21	0.74
1:CA:1222:G:H5''	19:CS:78:ARG:NH1	2.01	0.74
35:BA:729:G:C5	38:BD:208:LYS:HB2	2.22	0.74
1:CA:15:G:H2'	1:CA:16:A:C8	2.21	0.74
41:DG:144:ILE:CD1	41:DG:145:THR:H	2.00	0.74
35:BA:2728:U:O2'	35:BA:2729:G:H5'	1.88	0.74
52:BV:3:ALA:HB3	52:BV:14:VAL:HB	1.69	0.74
52:BV:38:LEU:CD2	52:BV:40:LEU:H	2.00	0.74
3:CC:112:SER:HB3	3:CC:115:LEU:CD1	2.17	0.74
40:BF:110:LEU:HD23	40:BF:110:LEU:O	1.87	0.74
2:AB:71:VAL:HG21	2:AB:93:VAL:HG23	1.68	0.74
44:DN:120:LEU:CD1	44:DN:122:VAL:HG23	2.17	0.74
35:DA:251:A:H5''	46:DP:51:PHE:CZ	2.22	0.74
6:AF:18:GLN:HA	6:AF:21:LEU:HD23	1.70	0.74
1:CA:939:G:C5'	7:CG:102:ARG:HH22	2.00	0.74
12:AL:119:LYS:HB2	12:AL:120:TYR:CD1	2.22	0.74
16:AP:8:ARG:HH11	16:AP:8:ARG:HG2	1.52	0.74
18:CR:53:ARG:HA	18:CR:56:THR:OG1	1.87	0.74
11:CK:84:VAL:HG23	11:CK:110:ASP:OD1	1.87	0.74
23:CW:59:A:H1'	23:CW:61:U:C5	2.22	0.74
26:D0:77:ARG:HH22	35:DA:857:C:H5'	1.52	0.74
26:B0:77:ARG:HH22	35:BA:857:C:H5'	1.50	0.74
35:DA:1528(A):A:H3'	35:DA:1529:G:H5''	1.69	0.74
36:DB:66:A:H61	36:DB:108:U:H2'	1.52	0.74
56:BZ:103:ARG:HG3	56:BZ:136:PHE:CE1	2.22	0.74
41:BG:173:LEU:HD12	41:BG:178:PHE:CE2	2.23	0.74
42:BH:149:ARG:HA	42:BH:162:ILE:HD11	1.70	0.74
35:BA:832:G:O3'	46:BP:45:LEU:HD11	1.87	0.74
35:BA:196:A:H5''	46:BP:46:LYS:HZ1	1.50	0.74
47:BQ:85:LYS:HG3	47:BQ:86:GLY:N	2.02	0.74
20:AT:38:LYS:O	20:AT:41:ILE:HG12	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DN:34:LEU:CD2	44:DN:120:LEU:HB2	2.16	0.74
2:CB:185:ILE:HG22	2:CB:199:TYR:HB2	1.68	0.74
2:CB:69:LEU:HD22	2:CB:91:PRO:HB2	1.68	0.74
46:DP:39:LYS:HD2	46:DP:40:SER:H	1.51	0.74
4:AD:28:SER:HB3	4:AD:29:PRO:CD	2.17	0.74
35:DA:404:C:C4'	35:DA:405:U:H5'	2.18	0.74
25:AY:5:GLU:O	25:AY:9:GLU:HG3	1.85	0.74
1:AA:920:U:H2'	1:AA:921:U:C6	2.23	0.74
35:DA:540:C:H2'	35:DA:541:C:C6	2.22	0.74
1:AA:1073:U:H2'	1:AA:1074:G:H8	1.49	0.74
17:CQ:69:LYS:O	17:CQ:70:ARG:HD2	1.86	0.74
25:CY:115:VAL:O	25:CY:118:VAL:HG23	1.88	0.74
27:D1:94:LEU:CD1	27:D1:95:LEU:H	2.00	0.74
24:AX:21:G:H2'	24:AX:22:U:C6	2.22	0.74
35:BA:2103:C:C3'	35:BA:2104:G:H5''	2.17	0.74
35:DA:2464:C:HO2'	35:DA:2465:C:H6	1.33	0.74
40:DF:176:LEU:HD21	40:DF:180:GLY:O	1.87	0.74
35:DA:524:U:O2	35:DA:524:U:H2'	1.87	0.74
1:AA:148:G:H2'	1:AA:149:A:H8	1.51	0.74
35:DA:1835:G:H5'	35:DA:1836:C:OP2	1.87	0.74
35:DA:696:G:O2'	35:DA:697:C:H5'	1.87	0.74
41:DG:32:PRO:CB	41:DG:172:LEU:HD22	2.17	0.74
56:BZ:6:LYS:HE3	56:BZ:6:LYS:H	1.52	0.74
27:B1:13:ILE:HG13	27:B1:14:VAL:N	2.00	0.74
52:DV:28:GLU:HB2	52:DV:29:PRO:CD	2.10	0.74
49:BS:83:LYS:HA	49:BS:104:GLY:HA2	1.70	0.74
49:BS:13:ARG:N	49:BS:13:ARG:HD2	2.03	0.74
47:BQ:34:LEU:HD12	47:BQ:35:VAL:H	1.52	0.74
35:DA:2639:A:H2'	35:DA:2640:G:C5'	2.14	0.74
34:D8:39:LYS:HG2	34:D8:42:ARG:NH1	2.03	0.74
35:DA:2820:A:C8	39:DE:191:PRO:HB2	2.23	0.74
48:DR:24:GLN:HE22	48:DR:36:THR:HG21	1.50	0.74
48:BR:11:ASN:O	48:BR:12:ARG:HG3	1.87	0.74
49:DS:89:ARG:HA	49:DS:89:ARG:NE	2.03	0.74
27:D1:40:ARG:HG2	27:D1:41:ARG:N	2.01	0.74
6:CF:73:ASN:O	6:CF:76:ALA:HB3	1.87	0.74
1:AA:376:G:OP1	16:AP:6:LEU:HD13	1.86	0.74
20:AT:100:ILE:HD12	20:AT:100:ILE:H	1.52	0.74
43:DI:11:ASN:ND2	43:DI:12:LEU:HD22	2.03	0.74
1:CA:376:G:OP1	16:CP:6:LEU:HD13	1.87	0.74
35:BA:1403:C:H5''	35:BA:1471:A:C1'	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:686:U:H1'	1:CA:687:A:N7	2.01	0.74
35:BA:1484:G:C2'	35:BA:1485:G:H5''	2.16	0.74
1:AA:313:A:H2'	1:AA:314:C:C6	2.22	0.74
39:BE:177:PRO:HG2	39:BE:178:GLU:OE1	1.87	0.74
35:BA:1876:A:H2'	35:BA:1877:A:C8	2.22	0.74
41:DG:166:ASP:O	41:DG:170:ARG:HB2	1.87	0.74
1:AA:1244:C:H2'	1:AA:1245:A:C8	2.22	0.74
26:D0:49:LYS:HB2	26:D0:80:HIS:HB3	1.68	0.74
54:DX:8:ILE:H	54:DX:8:ILE:HD12	1.50	0.74
32:D6:11:LEU:HG	32:D6:26:ASN:HD21	1.51	0.74
43:DI:87:LYS:NZ	43:DI:121:LYS:HG2	2.03	0.74
20:AT:18:GLN:O	20:AT:22:ARG:HG3	1.88	0.74
4:AD:26:CYS:HA	4:AD:31:CYS:HB2	1.69	0.74
1:AA:939:G:C5'	7:AG:102:ARG:HH22	1.99	0.74
35:BA:342:G:O2'	35:BA:343:C:H5''	1.86	0.74
11:AK:84:VAL:HG23	11:AK:110:ASP:OD1	1.87	0.74
1:CA:1074:G:H2'	1:CA:1075:C:C6	2.22	0.74
46:DP:84:ASN:ND2	46:DP:116:GLY:HA3	2.02	0.74
23:AW:10:G:H22	23:AW:27:G:H1'	1.49	0.74
1:CA:1508:G:H2'	1:CA:1509:C:C6	2.21	0.74
17:AQ:3:LYS:HD2	17:AQ:60:ILE:HD11	1.69	0.74
35:DA:1428:C:O2'	35:DA:1429:G:H5'	1.87	0.74
26:B0:27:GLU:N	26:B0:69:PHE:HE1	1.85	0.74
35:BA:286:C:O2	35:BA:286:C:H2'	1.88	0.74
43:BI:56:LYS:HA	43:BI:59:ALA:HB3	1.68	0.74
6:CF:82:ARG:HB2	6:CF:85:VAL:HG23	1.68	0.74
46:BP:90:ARG:HD2	46:BP:91:PHE:HD1	1.53	0.74
1:AA:137:C:H42	1:AA:226:G:H1	1.36	0.74
5:AE:57:LYS:O	5:AE:61:TYR:HB2	1.87	0.74
1:CA:1271:G:H5'	1:CA:1314:C:H5''	1.67	0.74
1:AA:179:A:H2'	1:AA:180:U:C6	2.23	0.74
23:CW:9:G:H2'	23:CW:10:G:N7	2.02	0.74
38:DD:229:VAL:HG23	38:DD:230:ASP:H	1.51	0.74
45:BO:35:VAL:HG21	45:BO:69:ILE:HG12	1.69	0.74
35:DA:2575:C:H5''	39:DE:144:ARG:HD3	1.70	0.74
54:BX:73:ARG:H	54:BX:74:PRO:HD3	1.53	0.74
39:DE:197:ILE:HG13	39:DE:199:ARG:HH12	1.53	0.74
40:DF:6:VAL:HG21	40:DF:124:LEU:HA	1.70	0.74
1:AA:1432:G:OP1	50:BT:107:ASP:HB2	1.87	0.74
48:BR:17:ARG:HH11	48:BR:17:ARG:HG2	1.51	0.74
2:AB:69:LEU:HD12	2:AB:71:VAL:HG23	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:61:LYS:CA	4:AD:203:VAL:HG22	2.18	0.74
6:AF:99:ALA:HB3	18:AR:29:PHE:CE2	2.23	0.74
35:DA:1176:G:H1'	35:DA:1177:A:OP2	1.87	0.74
35:BA:549:G:C2'	35:BA:551:G:H5''	2.17	0.74
1:AA:383:A:C2'	1:AA:384:G:H5'	2.18	0.74
46:BP:115:LEU:HA	46:BP:134:ALA:CB	2.17	0.74
31:B5:2:ALA:HA	35:BA:2015:A:C1'	2.18	0.74
1:CA:665:A:H2'	1:CA:725:G:H22	1.50	0.74
35:DA:292:C:H2'	35:DA:293:U:H5'	1.70	0.74
2:CB:53:ARG:O	2:CB:56:ARG:HB2	1.88	0.74
35:BA:132:G:H5'	35:BA:132:G:H8	1.52	0.74
38:BD:25:THR:CG2	38:BD:82:ILE:H	2.00	0.74
1:AA:1190:G:H8	3:AC:3:ASN:ND2	1.86	0.74
28:D2:23:LYS:CA	54:DX:5:TYR:HE1	2.01	0.74
10:AJ:34:VAL:CG2	10:AJ:74:ILE:HG22	2.16	0.74
4:CD:17:VAL:HG12	4:CD:18:LYS:H	1.52	0.74
35:BA:259:G:H21	35:BA:621:A:H8	1.31	0.74
40:BF:3:GLU:HB2	40:BF:24:LEU:HG	1.67	0.74
27:D1:9:GLY:N	27:D1:48:LYS:NZ	2.36	0.74
35:BA:2691:C:H5'	35:BA:2691:C:H6	1.52	0.74
4:AD:197:PRO:HD3	6:CF:16:GLN:HG3	1.69	0.74
1:AA:976:G:N2	1:AA:1362:C:H2'	2.02	0.74
43:DI:133:HIS:ND1	43:DI:134:PRO:HD2	2.03	0.74
1:CA:1072:G:H2'	1:CA:1073:U:C6	2.22	0.74
45:BO:119:PRO:HB2	50:BT:68:TYR:CE1	2.22	0.74
8:CH:48:TYR:HA	8:CH:60:ARG:O	1.88	0.74
1:CA:806:C:H2'	1:CA:807:A:C8	2.20	0.74
1:CA:376:G:OP1	16:CP:5:ARG:HB2	1.87	0.74
11:CK:111:ASP:HA	18:CR:84:LYS:HG3	1.68	0.74
35:BA:2307:G:H3'	35:BA:2307:G:N3	2.02	0.74
35:BA:292:C:H2'	35:BA:293:U:H5'	1.70	0.74
13:CM:10:PRO:HG2	13:CM:18:ALA:HB1	1.68	0.74
10:AJ:84:GLN:O	10:AJ:88:LEU:HB2	1.88	0.74
41:DG:43:LEU:H	41:DG:43:LEU:HD13	1.52	0.74
35:BA:2681:C:H5	35:BA:2725:A:H62	1.36	0.74
36:BB:105:A:O2'	56:BZ:30:ASN:HA	1.88	0.74
1:AA:1222:G:H5''	19:AS:78:ARG:NH1	2.03	0.74
2:AB:96:ARG:CD	2:AB:96:ARG:H	1.89	0.74
41:BG:101:ILE:CG1	41:BG:105:LYS:HE3	2.17	0.74
56:DZ:25:PRO:HG2	56:DZ:85:HIS:HA	1.69	0.74
35:DA:1011:G:OP1	51:DU:75:ASN:HB2	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DU:83:LEU:HB3	51:DU:88:ILE:HG12	1.69	0.74
49:BS:92:TYR:CD1	49:BS:93:LYS:N	2.56	0.74
1:AA:385:C:O2'	1:AA:386:C:H5'	1.88	0.74
49:DS:25:ARG:O	49:DS:39:ILE:HA	1.88	0.74
6:CF:18:GLN:HA	6:CF:21:LEU:HD23	1.68	0.74
55:DY:31:LEU:HB2	55:DY:36:ALA:H	1.52	0.74
47:DQ:85:LYS:HG3	47:DQ:86:GLY:N	2.01	0.74
1:AA:735:C:H2'	1:AA:736:C:H6	1.53	0.74
1:CA:1512:U:H2'	1:CA:1513:A:H8	1.52	0.74
1:AA:1240:U:H3	7:AG:30:ILE:CG2	2.01	0.74
25:CY:84:ARG:NH2	25:CY:92:PRO:HD2	2.03	0.74
35:DA:549:G:C2'	35:DA:551:G:H5''	2.18	0.74
35:DA:144:C:H2'	35:DA:145:G:C8	2.22	0.74
46:DP:115:LEU:HA	46:DP:134:ALA:CB	2.18	0.74
11:CK:21:ILE:HB	11:CK:84:VAL:HG12	1.68	0.74
50:DT:13:ARG:C	50:DT:14:TYR:HD1	1.90	0.74
1:CA:1488:G:H2'	1:CA:1489:G:H8	1.51	0.74
35:DA:852:G:O2'	35:DA:853:G:H5'	1.87	0.74
35:BA:1007:C:O2'	44:BN:108:PRO:HA	1.87	0.74
1:AA:417:C:O2'	1:AA:418:C:H5'	1.87	0.74
4:AD:80:GLU:O	4:AD:84:LYS:HG2	1.88	0.74
6:CF:50:TYR:CE1	18:CR:77:GLY:HA2	2.22	0.74
1:CA:148:G:H2'	1:CA:149:A:H8	1.53	0.74
50:BT:88:ILE:HG22	50:BT:89:VAL:N	2.02	0.74
16:AP:18:ARG:HD3	16:AP:35:LYS:HD2	1.68	0.74
47:BQ:141:GLN:O	56:BZ:70:LEU:HD22	1.87	0.74
1:AA:1190:G:P	3:AC:5:ILE:HG23	2.27	0.74
51:BU:88:ILE:C	51:BU:90:VAL:N	2.40	0.74
41:BG:11:TYR:HA	41:BG:15:VAL:HG21	1.70	0.74
28:D2:23:LYS:HA	54:DX:5:TYR:HE1	1.52	0.74
52:DV:38:LEU:CD2	52:DV:40:LEU:H	2.00	0.74
1:CA:1190:G:H8	3:CC:3:ASN:ND2	1.85	0.74
47:BQ:35:VAL:HG23	47:BQ:102:VAL:HA	1.68	0.74
35:BA:2502:G:H5'	35:BA:2503:A:H5''	1.69	0.74
40:DF:110:LEU:HD23	40:DF:110:LEU:O	1.87	0.74
47:BQ:8:LYS:HG3	47:BQ:9:TYR:N	2.03	0.74
2:CB:69:LEU:HD12	2:CB:71:VAL:HG23	1.68	0.74
35:BA:1412:A:H2'	35:BA:1413:G:C8	2.23	0.74
18:AR:86:VAL:HG12	18:AR:87:ARG:HH12	1.52	0.74
1:CA:383:A:C2'	1:CA:384:G:H5'	2.16	0.74
18:CR:52:PRO:O	18:CR:56:THR:HG23	1.86	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:272(C):G:H2'	35:BA:272(D):G:H8	1.53	0.74
35:DA:1607:C:H4'	35:DA:1608:A:O5'	1.87	0.74
53:BW:87:PRO:HA	53:BW:93:ALA:HB2	1.68	0.74
35:DA:914:C:H2'	35:DA:915:C:H5'	1.69	0.74
56:BZ:61:LEU:HB2	56:BZ:65:GLN:HB3	1.70	0.74
1:CA:1317:C:OP2	14:CN:17:LYS:HG2	1.87	0.74
48:DR:103:ARG:HG2	48:DR:103:ARG:HH11	1.51	0.74
52:DV:46:VAL:HG12	52:DV:47:VAL:HG12	1.70	0.74
35:DA:227:A:C2	35:DA:2407:G:H1'	2.23	0.74
1:CA:1244:C:H2'	1:CA:1245:A:C8	2.23	0.74
35:DA:1755:A:H2	35:DA:2716:U:H1'	1.51	0.73
38:BD:177:LEU:HD12	38:BD:181:GLU:HG3	1.69	0.73
10:CJ:34:VAL:CG2	10:CJ:74:ILE:HG22	2.16	0.73
34:B8:32:LEU:O	34:B8:33:ASN:HB3	1.85	0.73
39:DE:116:VAL:HG22	39:DE:117:MET:N	2.03	0.73
51:BU:70:ARG:HA	51:BU:74:LEU:O	1.88	0.73
27:B1:78:LYS:N	27:B1:78:LYS:HD2	2.03	0.73
27:B1:86:SER:CA	27:B1:89:GLU:HG3	2.16	0.73
49:DS:85:VAL:HG23	49:DS:86:ALA:H	1.53	0.73
27:D1:38:SER:HB3	35:DA:2080:G:H4'	1.70	0.73
1:CA:741:G:H2'	1:CA:742:G:H8	1.53	0.73
15:CO:54:ARG:O	15:CO:58:MET:HG3	1.88	0.73
35:DA:676:A:H8	35:DA:2069:G:H21	1.35	0.73
1:AA:673:G:H5''	6:AF:87:ARG:HH11	1.52	0.73
55:BY:26:LYS:HG2	55:BY:27:VAL:H	1.52	0.73
1:AA:600:C:O2'	1:AA:601:C:H5'	1.87	0.73
8:CH:82:HIS:HD2	8:CH:138:TRP:NE1	1.86	0.73
35:BA:1401:G:H2'	35:BA:1402:C:H6	1.53	0.73
16:CP:8:ARG:HG2	16:CP:8:ARG:HH11	1.51	0.73
36:DB:11:C:H3'	36:DB:12:C:C6	2.23	0.73
35:BA:2661:G:H2'	35:BA:2662:A:C8	2.23	0.73
1:CA:1442(A):G:C3'	1:CA:1442(B):A:H5''	2.10	0.73
1:CA:922:G:N3	1:CA:1398:A:H2	1.86	0.73
35:DA:1819:A:OP1	38:DD:161:THR:HG21	1.88	0.73
35:BA:2394:C:OP1	46:BP:63:PRO:HD2	1.88	0.73
28:B2:29:LYS:O	28:B2:33:MET:N	2.20	0.73
41:BG:169:ALA:O	41:BG:173:LEU:HD23	1.88	0.73
55:DY:75:ILE:HD13	55:DY:76:CYS:N	2.01	0.73
43:DI:88:ILE:HD11	43:DI:123:LEU:HD12	1.68	0.73
35:BA:1024:G:C3'	35:BA:1025:G:H5''	2.19	0.73
35:BA:588:U:O5'	35:BA:588:U:H6	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DF:29:ASN:H	40:DF:112:MET:HE3	1.51	0.73
2:AB:69:LEU:HD22	2:AB:91:PRO:HB2	1.68	0.73
35:DA:690:G:H2'	35:DA:691:C:H6	1.53	0.73
18:AR:37:VAL:HG23	18:AR:38:GLU:N	2.01	0.73
26:D0:70:GLN:CG	26:D0:71:ASP:H	2.01	0.73
44:BN:14:VAL:HG12	44:BN:15:LEU:N	2.03	0.73
18:AR:53:ARG:HH12	18:AR:59:SER:HA	1.52	0.73
1:AA:665:A:H2'	1:AA:725:G:H22	1.53	0.73
4:CD:132:ARG:HD2	4:CD:132:ARG:O	1.88	0.73
17:CQ:88:TYR:O	17:CQ:91:ARG:HB3	1.87	0.73
35:BA:2857:G:N2	35:BA:2859:G:H3'	2.03	0.73
1:CA:1264:C:H2'	1:CA:1265:G:H8	1.52	0.73
1:CA:303:A:OP1	12:CL:17:LYS:HE3	1.87	0.73
2:CB:49:GLU:O	2:CB:52:GLU:HB3	1.88	0.73
10:CJ:84:GLN:O	10:CJ:88:LEU:HB2	1.86	0.73
39:DE:177:PRO:HG2	39:DE:178:GLU:OE1	1.89	0.73
39:DE:9:VAL:HG13	39:DE:25:VAL:O	1.88	0.73
38:DD:25:THR:CB	38:DD:82:ILE:H	2.00	0.73
56:BZ:40:ASP:HB3	56:BZ:43:GLU:HB2	1.70	0.73
51:BU:83:LEU:HB3	51:BU:88:ILE:HG12	1.68	0.73
28:B2:29:LYS:NZ	54:BX:9:LEU:HA	2.04	0.73
51:DU:70:ARG:HA	51:DU:74:LEU:O	1.89	0.73
40:BF:103:LYS:HG2	40:BF:106:ARG:NH2	2.02	0.73
40:BF:112:MET:HA	40:BF:115:ALA:HB3	1.70	0.73
27:D1:13:ILE:HG23	27:D1:14:VAL:H	1.50	0.73
34:D8:14:VAL:CG1	34:D8:22:VAL:HG13	2.18	0.73
55:DY:31:LEU:HD12	55:DY:33:LYS:N	2.03	0.73
4:AD:30:LYS:C	4:AD:32:ALA:N	2.39	0.73
1:CA:1443:G:H22	1:CA:1460:A:H1'	1.51	0.73
1:AA:551:U:H2'	1:AA:552:U:C6	2.23	0.73
1:CA:694:A:H5''	11:CK:53:SER:HB3	1.69	0.73
5:AE:35:GLY:HA3	5:AE:41:VAL:HG12	1.71	0.73
2:CB:111:ARG:HG2	2:CB:111:ARG:HH11	1.52	0.73
12:AL:47:LYS:HB3	12:AL:48:PRO:CD	2.18	0.73
12:AL:46:LYS:HG2	12:AL:47:LYS:N	2.04	0.73
1:CA:559:A:H4'	1:CA:560:U:C5'	2.18	0.73
33:D7:34:ARG:HB3	33:D7:42:LEU:HD23	1.70	0.73
56:BZ:110:GLY:O	56:BZ:112:ARG:N	2.21	0.73
38:DD:133:LEU:HA	38:DD:136:ILE:HD12	1.68	0.73
14:AN:8:GLU:HB2	14:AN:12:ARG:NH1	2.03	0.73
32:D6:15:GLU:OE2	32:D6:41:PRO:HG3	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:658:G:H1'	15:AO:22:THR:HB	1.69	0.73
43:BI:49:ALA:HA	43:BI:52:ARG:HG2	1.68	0.73
45:BO:13:ASN:O	45:BO:15:GLY:N	2.20	0.73
11:AK:17:GLY:HA3	11:AK:80:VAL:HA	1.70	0.73
44:DN:137:LYS:HG2	44:DN:138:LEU:H	1.53	0.73
3:AC:111:LEU:HD21	3:AC:146:ALA:HB2	1.70	0.73
35:BA:2291:U:H3	35:BA:2341:G:H1	1.35	0.73
2:AB:29:ALA:O	2:AB:31:TYR:N	2.20	0.73
43:BI:88:ILE:CG2	43:BI:89:TYR:N	2.50	0.73
1:CA:16:A:O2'	1:CA:17:U:H5'	1.88	0.73
35:DA:2300:G:H1	35:DA:2316:C:H42	1.34	0.73
56:BZ:125:LEU:HD23	56:BZ:126:VAL:H	1.53	0.73
42:DH:84:SER:O	42:DH:85:LYS:HB2	1.86	0.73
27:B1:45:ASN:C	27:B1:46:LEU:HD12	2.09	0.73
41:BG:174:GLU:HA	41:BG:178:PHE:HB2	1.70	0.73
54:DX:47:PHE:O	54:DX:49:VAL:HG23	1.87	0.73
56:DZ:151:HIS:HA	56:DZ:170:THR:HA	1.71	0.73
1:CA:406:G:H1	1:CA:436:C:H42	1.32	0.73
48:DR:18:LEU:HD13	48:DR:19:ALA:N	2.02	0.73
48:BR:95:THR:HA	48:BR:116:LEU:O	1.88	0.73
55:DY:26:LYS:HG2	55:DY:27:VAL:H	1.52	0.73
7:AG:100:ALA:O	7:AG:104:LEU:HD23	1.87	0.73
12:CL:86:ARG:HG2	12:CL:87:GLY:H	1.52	0.73
43:BI:11:ASN:ND2	43:BI:12:LEU:HD22	2.03	0.73
55:BY:28:LYS:HB2	55:BY:37:VAL:HB	1.70	0.73
1:AA:522:C:N4	1:AA:528:C:H42	1.86	0.73
46:DP:90:ARG:HD2	46:DP:91:PHE:HD1	1.53	0.73
46:BP:131:SER:HB2	46:BP:134:ALA:HB3	1.68	0.73
39:DE:167:VAL:HG22	39:DE:168:MET:N	2.03	0.73
14:CN:8:GLU:HB2	14:CN:12:ARG:NH1	2.03	0.73
35:BA:1578:U:H3'	35:BA:1579:A:H5''	1.71	0.73
35:BA:120:U:H1'	35:BA:149:A:C8	2.23	0.73
35:BA:191:A:O2'	35:BA:192:C:H5'	1.87	0.73
2:AB:53:ARG:O	2:AB:56:ARG:HB2	1.89	0.73
10:CJ:9:ARG:O	10:CJ:94:VAL:HG13	1.88	0.73
36:BB:66:A:H61	36:BB:108:U:H2'	1.52	0.73
41:DG:130:ASN:O	41:DG:159:VAL:HG23	1.87	0.73
42:DH:92:ILE:HG22	42:DH:93:GLY:N	2.04	0.73
34:D8:8:LYS:O	34:D8:12:LYS:HG3	1.88	0.73
41:BG:111:LEU:HB2	41:BG:112:PRO:HD3	1.71	0.73
41:BG:170:ARG:HH22	41:BG:182:LYS:CE	2.01	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:DX:76:ARG:O	54:DX:76:ARG:HD3	1.89	0.73
34:D8:32:LEU:HG	34:D8:34:TRP:CE3	2.22	0.73
47:BQ:16:ARG:NH1	47:BQ:16:ARG:HB3	2.03	0.73
1:AA:1428:A:H2'	1:AA:1429:C:C6	2.23	0.73
1:AA:428:G:H4'	1:AA:429:U:O5'	1.87	0.73
4:AD:17:VAL:HG12	4:AD:18:LYS:H	1.52	0.73
25:AY:170:ALA:C	25:AY:172:ALA:H	1.91	0.73
26:D0:41:ARG:HH21	35:DA:2387:U:C1'	2.01	0.73
11:AK:44:SER:H	11:AK:47:VAL:HG21	1.52	0.73
23:AW:37:U:H2'	23:AW:38:A:C8	2.23	0.73
33:D7:34:ARG:HD3	33:D7:42:LEU:HA	1.70	0.73
53:BW:11:ARG:NH2	53:BW:98:LYS:HB3	2.02	0.73
1:CA:1116:C:H2'	1:CA:1117:G:C5'	2.17	0.73
2:AB:98:LEU:HB2	2:AB:101:MET:HG2	1.71	0.73
14:AN:16:PHE:HD2	14:AN:16:PHE:N	1.86	0.73
14:CN:16:PHE:N	14:CN:16:PHE:HD2	1.87	0.73
26:B0:36:ILE:HD11	35:BA:2355:C:H4'	1.70	0.73
31:B5:25:LEU:HB2	53:BW:23:LEU:HD11	1.70	0.73
6:AF:14:LEU:CD1	6:AF:19:LEU:HB2	2.19	0.73
1:CA:892:A:H2'	1:CA:893:C:C6	2.23	0.73
35:DA:2677:G:H2'	35:DA:2678:C:H6	1.52	0.73
1:CA:971:G:H4'	1:CA:972:C:H5''	1.70	0.73
35:DA:2307:G:N2	35:DA:2308:G:H5'	2.03	0.73
41:DG:103:LEU:HA	41:DG:106:LEU:HD23	1.70	0.73
28:B2:23:LYS:HA	54:BX:5:TYR:HE1	1.52	0.73
41:BG:60:LEU:CD2	41:BG:63:ILE:HD11	2.12	0.73
42:BH:84:SER:O	42:BH:85:LYS:HB2	1.88	0.73
56:DZ:150:LEU:HD22	56:DZ:150:LEU:H	1.54	0.73
56:DZ:146:ILE:HG22	56:DZ:174:VAL:HG12	1.71	0.73
52:DV:28:GLU:CB	52:DV:29:PRO:HD3	2.14	0.73
1:CA:403:C:H2'	1:CA:404:U:H6	1.52	0.73
35:BA:992:C:H2'	35:BA:993:G:H8	1.51	0.73
3:AC:112:SER:HB3	3:AC:115:LEU:CD1	2.18	0.73
44:BN:23:LEU:HA	44:BN:26:LEU:HB3	1.70	0.73
1:AA:410:G:H21	1:AA:432:A:H62	1.35	0.73
35:DA:610:G:H22	35:DA:619:G:H1'	1.54	0.73
35:BA:1937:A:O2'	35:BA:1938:A:H5'	1.89	0.73
35:DA:2704:C:H2'	35:DA:2705:A:C8	2.23	0.73
17:CQ:46:ASP:OD1	17:CQ:49:GLU:HA	1.89	0.73
35:BA:97:C:H2'	35:BA:98:G:C8	2.24	0.73
7:AG:137:LYS:O	7:AG:141:VAL:HG23	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1639:U:O2'	35:DA:1640:C:H5''	1.88	0.73
35:DA:2854:G:H2'	35:DA:2855:C:C6	2.23	0.73
9:CI:114:TYR:N	9:CI:114:TYR:CD2	2.50	0.73
38:BD:229:VAL:HG23	38:BD:230:ASP:H	1.54	0.73
38:DD:209:ALA:O	38:DD:212:SER:HB3	1.88	0.73
41:DG:58:GLN:HG3	41:DG:59:GLU:N	2.03	0.73
32:B6:51:GLU:HG2	32:B6:52:VAL:N	2.01	0.73
45:BO:22:ILE:HB	45:BO:40:VAL:HG12	1.70	0.73
50:BT:65:LYS:HZ2	50:BT:65:LYS:HA	1.52	0.73
39:BE:181:LEU:N	39:BE:181:LEU:HD22	2.03	0.73
39:BE:61:ARG:HG2	39:BE:62:PRO:HD3	1.69	0.73
51:BU:90:VAL:HG22	52:BV:39:LEU:HD12	1.70	0.73
54:BX:72:LYS:CG	54:BX:74:PRO:HD3	2.08	0.73
39:DE:172:VAL:HG13	39:DE:182:LEU:HD11	1.69	0.73
4:CD:58:LEU:HD13	4:CD:59:ARG:N	2.02	0.73
35:BA:2715:C:H2'	35:BA:2716:U:C6	2.23	0.73
55:DY:68:HIS:HB3	55:DY:71:LYS:NZ	2.03	0.73
35:DA:869:G:H1'	47:DQ:8:LYS:NZ	2.04	0.73
1:CA:1522:U:O2'	1:CA:1523:G:H5'	1.89	0.73
12:CL:85:ILE:HD11	12:CL:98:TYR:CB	2.17	0.73
22:AV:38:U:H2'	22:AV:39:C:C6	2.24	0.73
43:DI:37:VAL:HG13	43:DI:38:LEU:HD12	1.68	0.73
12:AL:46:LYS:NZ	12:AL:47:LYS:HB2	2.04	0.73
19:AS:53:ASN:HD21	19:AS:56:GLN:N	1.86	0.73
46:BP:83:VAL:CG1	46:BP:112:LEU:HD21	2.18	0.73
36:DB:91:C:H2'	36:DB:92:C:H6	1.53	0.73
35:BA:2762:G:H2'	35:BA:2763:G:H5''	1.71	0.73
35:DA:154:G:H1	35:DA:172:C:H42	1.36	0.73
1:CA:1388:C:H2'	1:CA:1389:C:C6	2.24	0.73
35:DA:1550:C:H2'	35:DA:1551:C:H6	1.52	0.73
43:DI:56:LYS:HA	43:DI:59:ALA:HB3	1.69	0.73
53:BW:32:ALA:O	53:BW:35:ILE:HB	1.88	0.73
1:CA:337:C:H2'	1:CA:338:A:H8	1.54	0.73
50:DT:38:ASN:ND2	50:DT:40:THR:H	1.85	0.73
41:DG:137:GLU:HG2	41:DG:138:GLN:H	1.53	0.73
50:BT:38:ASN:ND2	50:BT:40:THR:H	1.87	0.73
50:BT:48:ILE:O	50:BT:63:VAL:HA	1.88	0.73
56:BZ:29:TYR:HE2	56:BZ:87:ASP:CB	2.01	0.73
56:BZ:59:LEU:O	56:BZ:66:SER:HA	1.88	0.73
34:D8:6:THR:CG2	34:D8:63:PRO:HD3	2.18	0.73
39:DE:30:PRO:HD3	39:DE:180:ASN:ND2	2.02	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DZ:108:PRO:CB	56:DZ:144:LEU:H	2.01	0.73
19:CS:6:LYS:HD2	19:CS:6:LYS:H	1.53	0.73
49:BS:25:ARG:O	49:BS:39:ILE:HA	1.89	0.73
35:BA:389:G:N1	46:BP:71:VAL:HB	2.01	0.73
40:DF:114:VAL:HG23	40:DF:115:ALA:N	2.03	0.73
44:DN:22:THR:CA	44:DN:61:ARG:HB2	2.19	0.73
6:CF:60:PHE:C	6:CF:61:LEU:HD12	2.09	0.73
1:AA:1317:C:OP1	14:AN:17:LYS:HG2	1.88	0.73
42:DH:73:ALA:O	42:DH:76:VAL:HB	1.88	0.73
55:BY:28:LYS:HZ3	55:BY:30:VAL:HA	1.54	0.73
2:CB:98:LEU:HB2	2:CB:101:MET:HG2	1.69	0.73
8:AH:11:THR:CG2	8:AH:14:ARG:HH12	2.02	0.73
50:BT:13:ARG:C	50:BT:14:TYR:HD1	1.92	0.73
40:DF:170:LEU:HD12	40:DF:171:PRO:HD2	1.68	0.73
27:D1:17:SER:O	27:D1:44:PRO:HD2	1.89	0.73
35:BA:860:U:H5	35:BA:917:A:N7	1.85	0.73
35:DA:1449:A:N3	35:DA:1529:G:H1'	2.03	0.73
35:DA:361:G:H2'	35:DA:362:U:H5''	1.70	0.73
41:BG:33:ARG:HD3	41:BG:162:THR:HG21	1.71	0.73
41:DG:95:ARG:NH1	41:DG:95:ARG:HA	2.04	0.73
45:BO:107:ARG:HH11	50:BT:36:GLU:H	1.37	0.73
45:BO:6:THR:HG22	45:BO:7:TYR:N	2.03	0.73
54:BX:5:TYR:O	54:BX:7:VAL:N	2.21	0.73
4:CD:61:LYS:CA	4:CD:203:VAL:HG22	2.18	0.73
27:D1:83:GLU:HG2	27:D1:86:SER:HB2	1.71	0.73
1:CA:658:G:C1'	15:CO:22:THR:HB	2.19	0.73
1:AA:1489:G:H2'	1:AA:1490:C:C6	2.24	0.73
20:CT:43:LEU:HD12	20:CT:52:ALA:HA	1.71	0.73
26:D0:21:LEU:HD11	26:D0:41:ARG:HD3	1.70	0.73
22:AV:39:C:O2'	22:AV:40:C:H5'	1.89	0.73
12:AL:75:HIS:HD2	12:AL:77:LEU:HG	1.52	0.73
35:DA:2092:U:H5	35:DA:2226:C:OP2	1.72	0.73
38:BD:239:ARG:HH21	38:BD:239:ARG:HG3	1.53	0.73
35:DA:271(U):G:H2'	35:DA:271(V):G:C8	2.24	0.73
1:AA:662:G:H2'	1:AA:663:A:H8	1.51	0.73
43:BI:54:GLN:HG2	43:BI:57:ARG:HH12	1.53	0.73
35:BA:1644:C:O2'	35:BA:1645:G:H5'	1.89	0.73
53:BW:51:LEU:HD13	53:BW:52:GLU:N	2.04	0.73
35:DA:705:A:H1'	38:DD:9:TYR:CE1	2.24	0.73
22:CV:41:C:H2'	22:CV:42:C:C6	2.23	0.73
1:AA:20:U:H2'	1:AA:21:G:O4'	1.87	0.73

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BN:132:ALA:O	44:BN:133:GLN:HB2	1.87	0.72
39:DE:98:PRO:HG3	39:DE:175:VAL:HG12	1.70	0.72
1:AA:1522:U:O2'	1:AA:1523:G:H5'	1.89	0.72
35:BA:2558:C:H2'	35:BA:2559:C:C6	2.25	0.72
35:BA:1908:C:H2'	35:BA:1909:C:H6	1.53	0.72
35:DA:2000:G:HO2'	35:DA:2689:U:H5	1.36	0.72
38:BD:183:ARG:HG2	38:BD:183:ARG:HH11	1.53	0.72
28:B2:14:ARG:HE	28:B2:14:ARG:N	1.86	0.72
39:DE:59:VAL:HG11	39:DE:63:LEU:HG	1.70	0.72
28:D2:37:PHE:CE2	28:D2:40:SER:HA	2.24	0.72
3:AC:149:ALA:HA	3:AC:201:TYR:O	1.90	0.72
38:DD:14:ARG:CB	38:DD:14:ARG:HH11	2.01	0.72
34:B8:52:LYS:H	34:B8:53:PRO:CD	1.99	0.72
35:DA:992:C:H2'	35:DA:993:G:H8	1.53	0.72
1:AA:553:A:H2'	1:AA:554:C:C6	2.25	0.72
11:CK:44:SER:N	11:CK:47:VAL:HG21	2.04	0.72
35:BA:329:G:OP2	55:BY:71:LYS:HD3	1.89	0.72
8:AH:120:THR:HG23	8:AH:123:GLU:OE1	1.88	0.72
9:CI:107:ARG:O	9:CI:108:VAL:HG13	1.88	0.72
1:CA:706:A:C5	1:CA:707:C:H5	2.08	0.72
35:BA:1503:U:H2'	35:BA:1504:C:C6	2.24	0.72
9:AI:9:ARG:HG3	9:AI:14:VAL:HG22	1.69	0.72
2:CB:133:LYS:O	2:CB:137:ARG:HB2	1.88	0.72
35:DA:2521:C:H42	35:DA:2544:G:H1	1.37	0.72
35:BA:481:G:H1'	35:BA:506:G:N2	2.04	0.72
1:CA:854:G:H3'	1:CA:871:U:O4	1.89	0.72
16:CP:27:LYS:H	16:CP:27:LYS:HD2	1.54	0.72
40:BF:8:GLN:HB2	40:BF:126:VAL:HA	1.71	0.72
35:DA:1876:A:H2'	35:DA:1877:A:C8	2.24	0.72
25:AY:117:ALA:O	25:AY:120:GLN:HB3	1.88	0.72
35:DA:1660:C:H5'	35:DA:2712(A):A:H61	1.54	0.72
41:DG:144:ILE:HG13	41:DG:145:THR:N	2.04	0.72
35:BA:1341:U:P	35:BA:1397:U:H3	2.11	0.72
35:BA:71:A:H4'	35:BA:72:U:O5'	1.89	0.72
54:BX:55:ASN:HB2	54:BX:77:LYS:HD2	1.72	0.72
39:DE:82:ARG:HG3	39:DE:83:ASP:H	1.53	0.72
27:B1:83:GLU:CG	27:B1:86:SER:H	2.02	0.72
42:BH:105:LEU:HD21	42:BH:113:VAL:HB	1.72	0.72
56:DZ:166:SER:CB	56:DZ:168:GLU:N	2.40	0.72
47:DQ:51:ARG:O	47:DQ:54:MET:HB3	1.89	0.72
1:CA:985:C:H2'	1:CA:986:A:C8	2.25	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:26:CYS:HA	4:CD:31:CYS:HB2	1.71	0.72
5:CE:51:VAL:O	5:CE:55:VAL:HG23	1.89	0.72
27:D1:83:GLU:CG	27:D1:86:SER:HB2	2.19	0.72
47:BQ:8:LYS:CG	47:BQ:9:TYR:H	2.01	0.72
4:AD:153:ARG:HB3	4:AD:153:ARG:NH1	2.05	0.72
35:DA:342:G:H2'	35:DA:343:C:C5'	2.20	0.72
9:AI:50:LEU:O	9:AI:53:VAL:HG22	1.89	0.72
1:AA:266:G:H22	1:AA:270:A:H62	1.38	0.72
23:AW:28:U:H3	23:AW:44:A:H2	1.37	0.72
35:DA:467:G:H2'	35:DA:468:G:H8	1.52	0.72
1:AA:186:C:H2'	1:AA:187:C:C6	2.24	0.72
1:CA:20:U:H2'	1:CA:21:G:O4'	1.87	0.72
35:BA:227:A:C2	35:BA:2407:G:H1'	2.25	0.72
35:DA:1170:G:H1	35:DA:1179:C:H42	1.37	0.72
10:AJ:82:ILE:O	10:AJ:86:MET:HB3	1.89	0.72
35:DA:2852:G:H2'	35:DA:2853:C:C6	2.24	0.72
1:CA:17:U:H2'	1:CA:18:C:C6	2.24	0.72
50:BT:52:ILE:O	50:BT:52:ILE:HG13	1.88	0.72
1:AA:971:G:H4'	1:AA:972:C:H5''	1.70	0.72
28:B2:17:SER:O	28:B2:21:LEU:N	2.21	0.72
28:B2:55:ARG:NH1	35:BA:72:U:H5'	2.04	0.72
35:BA:1342:A:H5'	54:BX:55:ASN:OD1	1.89	0.72
35:DA:1345:C:H2'	35:DA:1346:G:H8	1.53	0.72
41:BG:27:ASN:HD21	41:BG:29:TRP:CB	1.99	0.72
4:CD:28:SER:HB3	4:CD:29:PRO:CD	2.17	0.72
40:BF:6:VAL:HG21	40:BF:124:LEU:HA	1.72	0.72
27:D1:13:ILE:CG1	27:D1:14:VAL:N	2.50	0.72
27:D1:14:VAL:O	27:D1:46:LEU:HD23	1.89	0.72
3:CC:9:GLY:O	3:CC:12:LEU:HB2	1.89	0.72
50:BT:109:GLU:O	50:BT:113:LYS:HG3	1.88	0.72
2:CB:178:ARG:NH2	8:CH:74:PRO:HG3	2.03	0.72
35:DA:329:G:OP2	55:DY:71:LYS:HD3	1.90	0.72
55:DY:37:VAL:HG23	55:DY:38:ILE:N	2.04	0.72
4:AD:90:GLY:HA3	4:AD:204:ILE:HD11	1.72	0.72
43:DI:102:SER:CB	43:DI:109:ILE:HG12	2.19	0.72
25:CY:36:ALA:HA	25:CY:39:LEU:HG	1.71	0.72
33:B7:9:ARG:NH1	35:BA:1309:G:H3'	2.05	0.72
8:CH:120:THR:OG1	8:CH:123:GLU:HG3	1.88	0.72
1:CA:1118:C:H6	1:CA:1118:C:H5'	1.54	0.72
31:D5:56:LYS:O	31:D5:57:VAL:HG13	1.89	0.72
54:BX:64:LYS:O	54:BX:65:ARG:HB2	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:145:LYS:O	5:AE:148:VAL:HB	1.89	0.72
1:AA:1346:A:N1	1:AA:1374:A:H5''	2.05	0.72
35:BA:1270:C:H5''	35:BA:1271:G:H5'	1.71	0.72
35:DA:1503:U:H2'	35:DA:1504:C:C6	2.24	0.72
38:BD:129:ASN:O	38:BD:193:VAL:HG12	1.89	0.72
5:CE:90:VAL:CG2	5:CE:121:LYS:HB3	2.20	0.72
1:AA:1303:C:H2'	1:AA:1303:C:O2	1.88	0.72
26:D0:27:GLU:HB2	26:D0:69:PHE:CD1	2.25	0.72
35:BA:1290:C:H2'	35:BA:1291:C:C6	2.24	0.72
1:AA:1404:C:H2'	1:AA:1405:G:C8	2.24	0.72
35:DA:2102:U:H2'	35:DA:2103:C:C6	2.23	0.72
35:BA:2720:U:H5'	35:BA:2721:A:OP2	1.89	0.72
39:DE:128:SER:O	39:DE:129:HIS:HB2	1.90	0.72
35:BA:2074:U:H2'	35:BA:2075:U:C6	2.25	0.72
40:BF:10:PRO:HD2	40:BF:13:SER:O	1.88	0.72
45:DO:87:ILE:HD12	45:DO:91:LEU:C	2.09	0.72
56:DZ:131:ARG:O	56:DZ:133:ILE:HD12	1.88	0.72
50:DT:48:ILE:O	50:DT:63:VAL:HA	1.89	0.72
1:CA:1080:A:H5'	5:CE:14:ARG:NH2	2.03	0.72
47:BQ:33:GLY:HA2	47:BQ:105:GLU:HA	1.70	0.72
39:BE:77:ILE:CG2	39:BE:78:LEU:N	2.52	0.72
54:BX:54:VAL:C	54:BX:55:ASN:HD22	1.92	0.72
55:DY:87:LYS:HG3	55:DY:89:PHE:N	2.04	0.72
2:AB:72:GLY:HA3	2:AB:165:VAL:HG13	1.70	0.72
45:BO:114:ILE:H	45:BO:114:ILE:CD1	1.97	0.72
18:CR:47:THR:OG1	18:CR:49:LYS:HG2	1.90	0.72
51:BU:18:LEU:HD23	51:BU:18:LEU:O	1.89	0.72
8:CH:37:ARG:O	8:CH:41:ARG:HB3	1.90	0.72
35:DA:465:G:H2'	35:DA:466:A:C8	2.24	0.72
54:DX:64:LYS:O	54:DX:65:ARG:HB2	1.88	0.72
3:AC:107:GLN:H	3:AC:107:GLN:CD	1.93	0.72
35:BA:2189:U:C3'	35:BA:2190:G:H5''	2.19	0.72
35:BA:1528(A):A:H3'	35:BA:1529:G:H5''	1.70	0.72
35:BA:285:C:H2'	35:BA:286:C:H5''	1.72	0.72
46:BP:122:PRO:HB3	46:BP:141:ALA:HB1	1.72	0.72
39:DE:39:PRO:HA	39:DE:43:GLY:HA2	1.69	0.72
36:BB:11:C:H3'	36:BB:12:C:C6	2.24	0.72
50:DT:53:ARG:HG2	50:DT:53:ARG:HH11	1.55	0.72
38:BD:183:ARG:HG3	38:BD:269:PHE:O	1.89	0.72
56:BZ:28:MET:HE3	56:BZ:37:VAL:HG21	1.70	0.72
55:DY:76:CYS:SG	55:DY:77:PRO:HD3	2.28	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D2:40:SER:HB2	28:D2:41:ILE:HD12	1.72	0.72
54:DX:40:LYS:HD2	54:DX:41:ASN:N	2.04	0.72
32:D6:51:GLU:HG2	32:D6:52:VAL:N	2.01	0.72
27:D1:58:ILE:HG23	27:D1:59:THR:N	2.03	0.72
34:D8:30:ARG:NH2	46:DP:62:LEU:HD23	2.04	0.72
35:BA:585:G:H2'	35:BA:1251:C:H42	1.54	0.72
40:BF:65:TRP:CH2	40:BF:75:HIS:HD2	2.08	0.72
18:CR:37:VAL:HG23	18:CR:38:GLU:N	2.02	0.72
25:CY:18:LEU:CG	25:CY:19:GLU:N	2.53	0.72
1:CA:1445:C:H2'	1:CA:1446:U:H6	1.53	0.72
40:DF:132:VAL:HG22	40:DF:133:ASN:N	2.03	0.72
35:DA:610:G:N2	35:DA:619:G:H1'	2.04	0.72
9:AI:2:GLU:O	9:AI:3:GLN:HG3	1.88	0.72
9:AI:95:LYS:HZ3	9:AI:96:LEU:HB2	1.55	0.72
1:CA:452:A:H4'	16:CP:72:ARG:NH2	2.05	0.72
1:AA:471:G:H2'	1:AA:472:A:H8	1.53	0.72
1:CA:1258:G:H2'	1:CA:1259:C:C6	2.25	0.72
35:DA:635:C:H2'	35:DA:636:G:C8	2.25	0.72
35:BA:635:C:H2'	35:BA:636:G:C8	2.23	0.72
17:AQ:88:TYR:O	17:AQ:91:ARG:HB3	1.89	0.72
25:AY:48:ALA:O	25:AY:50:VAL:HG13	1.90	0.72
1:AA:688:G:H2'	1:AA:689:C:H6	1.54	0.72
35:DA:185:U:H2'	35:DA:186:G:H8	1.54	0.72
35:BA:1034:G:N2	35:BA:1122:G:H1'	2.05	0.72
35:DA:2729:G:H1'	39:DE:187:ALA:CB	2.17	0.72
38:DD:224:ALA:HB2	38:DD:233:HIS:HB3	1.72	0.72
41:DG:73:ALA:HB3	41:DG:87:PRO:HG2	1.71	0.72
35:DA:2052:G:H2'	35:DA:2053:G:H8	1.55	0.72
35:BA:2808:U:H2'	35:BA:2809:A:H5'	1.72	0.72
39:DE:77:ILE:HG22	39:DE:78:LEU:N	2.05	0.72
42:BH:103:LEU:HD23	42:BH:115:VAL:HB	1.71	0.72
1:CA:977:A:H2'	1:CA:978:A:H5'	1.72	0.72
55:BY:45:VAL:CA	55:BY:62:GLU:HG2	2.12	0.72
40:BF:18:ARG:HG2	40:BF:19:GLU:H	1.53	0.72
35:BA:2575:C:H5''	39:BE:144:ARG:HD3	1.71	0.72
35:BA:1188:U:O2'	35:BA:1189:A:H5'	1.88	0.72
40:BF:69:HIS:O	40:BF:70:THR:HG23	1.89	0.72
2:CB:165:VAL:CG2	2:CB:166:ASP:H	1.99	0.72
47:DQ:76:LYS:H	47:DQ:88:GLY:CA	2.03	0.72
1:CA:989:C:H42	1:CA:1217:C:N4	1.88	0.72
1:CA:692:U:H2'	1:CA:694:A:OP2	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BI:102:SER:CB	43:BI:109:ILE:HG12	2.19	0.72
1:AA:694:A:O2'	23:AW:39:A:H1'	1.90	0.72
13:AM:91:ARG:HB3	13:AM:96:LEU:O	1.89	0.72
45:BO:121:VAL:C	45:BO:122:LEU:HD12	2.09	0.72
1:AA:522:C:H41	12:AL:53:ARG:NH2	1.85	0.72
1:CA:878:G:H5'	8:CH:89:PRO:CG	2.19	0.72
12:CL:46:LYS:NZ	12:CL:47:LYS:HB2	2.05	0.72
1:AA:444:C:H2'	1:AA:445:G:H8	1.55	0.72
35:DA:709:U:H2'	35:DA:710:G:H8	1.54	0.72
1:AA:1053:G:O6	1:AA:1200:C:H5''	1.88	0.72
31:D5:2:ALA:HB2	35:DA:2014:A:HO2'	1.55	0.72
35:DA:1364:G:H1'	35:DA:1368:G:H22	1.55	0.72
1:AA:1118:C:H5'	1:AA:1118:C:H6	1.54	0.72
33:B7:45:ALA:O	33:B7:46:VAL:HB	1.88	0.72
54:BX:16:LYS:HA	54:BX:16:LYS:HE3	1.71	0.72
10:AJ:32:ALA:HB1	10:AJ:75:ILE:HD11	1.72	0.72
45:DO:35:VAL:HG21	45:DO:69:ILE:HG12	1.72	0.72
38:BD:48:ARG:HH11	38:BD:48:ARG:HG3	1.53	0.72
35:DA:2307:G:N3	35:DA:2307:G:H3'	2.04	0.72
39:DE:116:VAL:O	39:DE:117:MET:HB3	1.87	0.72
28:B2:53:LEU:O	28:B2:54:LYS:HB3	1.89	0.72
27:B1:90:ILE:O	27:B1:93:GLU:HG2	1.89	0.72
29:D3:31:LEU:HD22	29:D3:32:GLN:H	1.55	0.72
1:CA:542:G:H2'	1:CA:543:C:C6	2.25	0.72
4:CD:33:MET:HE2	4:CD:37:PRO:HA	1.72	0.72
49:DS:26:LEU:O	49:DS:26:LEU:HD23	1.89	0.72
27:D1:38:SER:CB	35:DA:2080:G:H4'	2.20	0.72
6:CF:99:ALA:HB3	18:CR:29:PHE:CE2	2.25	0.72
19:AS:15:LEU:HD22	19:AS:15:LEU:H	1.54	0.72
35:DA:2739:U:O2'	35:DA:2740:A:H5'	1.89	0.72
7:AG:71:PRO:HG3	7:AG:103:TRP:CZ3	2.24	0.72
1:AA:375:U:H2'	1:AA:376:G:H8	1.53	0.72
35:BA:1131:G:N3	35:BA:1132:A:N7	2.38	0.72
8:AH:6:ILE:HG22	8:AH:10:LEU:HD11	1.72	0.72
9:AI:118:LYS:HB3	9:AI:118:LYS:HZ3	1.53	0.72
12:CL:47:LYS:HB3	12:CL:48:PRO:CD	2.19	0.72
40:BF:176:LEU:HD21	40:BF:180:GLY:O	1.90	0.72
35:BA:1578:U:C3'	35:BA:1579:A:H5''	2.19	0.72
4:AD:3:ARG:O	4:AD:5:ILE:HG13	1.89	0.72
1:CA:728:A:H2'	1:CA:729:A:C8	2.24	0.72
41:DG:52:ILE:O	41:DG:54:GLU:N	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1170:G:H1	35:BA:1179:C:H42	1.37	0.72
50:DT:109:GLU:HB3	50:DT:113:LYS:CE	2.18	0.72
50:DT:50:ILE:HA	50:DT:99:LEU:HD11	1.72	0.72
38:BD:27:THR:CG2	38:BD:28:GLU:H	1.91	0.72
38:DD:267:SER:C	38:DD:269:PHE:N	2.42	0.72
45:BO:2:ILE:HD11	45:BO:82:ASN:CB	2.19	0.72
45:BO:61:VAL:HG22	45:BO:62:VAL:O	1.89	0.72
50:BT:83:ILE:HG13	50:BT:84:GLN:HG2	1.72	0.72
44:BN:41:ASP:C	51:BU:64:ARG:HH11	1.94	0.72
41:BG:91:ARG:HG2	41:BG:92:VAL:H	1.54	0.72
55:DY:79:CYS:SG	55:DY:80:GLY:N	2.62	0.72
54:DX:49:VAL:HG12	54:DX:50:LYS:H	1.54	0.72
42:BH:89:ILE:HD13	42:BH:90:LYS:H	1.55	0.72
52:DV:19:LYS:NZ	52:DV:20:LEU:H	1.87	0.72
1:CA:1062:U:H2'	1:CA:1063:C:C6	2.24	0.72
43:DI:77:LEU:HB2	43:DI:140:LEU:CD1	2.17	0.72
46:BP:16:ARG:CD	46:BP:18:ARG:H	2.02	0.72
35:DA:1024:G:C3'	35:DA:1025:G:H5''	2.20	0.72
55:BY:2:ARG:N	55:BY:4:LYS:HG2	2.05	0.72
55:BY:2:ARG:N	55:BY:4:LYS:HE2	2.05	0.72
31:B5:40:LYS:HZ3	31:B5:45:VAL:HA	1.54	0.72
46:DP:131:SER:HB2	46:DP:134:ALA:HB3	1.71	0.72
7:CG:65:ALA:HB1	7:CG:127:ALA:HB3	1.71	0.72
32:B6:36:LEU:HD13	32:B6:50:ARG:NH1	2.05	0.72
35:BA:1449:A:N3	35:BA:1529:G:H1'	2.05	0.72
35:DA:919:G:H4'	36:DB:81:G:O2'	1.90	0.72
35:DA:1446:C:H42	35:DA:1465:G:H1	1.38	0.72
55:DY:101:LYS:HG2	55:DY:102:CYS:N	2.05	0.72
44:DN:132:ALA:O	44:DN:133:GLN:HB2	1.88	0.72
39:BE:154:LYS:HE3	39:BE:154:LYS:HA	1.72	0.72
1:CA:154:C:H2'	1:CA:155:C:C6	2.25	0.72
41:DG:125:PHE:HD1	41:DG:125:PHE:H	1.37	0.71
41:DG:38:VAL:N	41:DG:158:ALA:HB3	2.05	0.71
56:BZ:95:PRO:HA	56:BZ:129:SER:HA	1.72	0.71
35:DA:1578:U:H3'	35:DA:1579:A:H5''	1.70	0.71
29:B3:31:LEU:HD22	29:B3:32:GLN:H	1.55	0.71
52:BV:61:VAL:HB	52:BV:99:ILE:N	2.04	0.71
42:BH:101:ARG:HB2	42:BH:117:PRO:HG3	1.72	0.71
35:BA:2639:A:H2'	35:BA:2640:G:C5'	2.16	0.71
35:BA:226:G:H5'	35:BA:257:A:H4'	1.72	0.71
1:AA:1431:C:H2'	1:AA:1432:G:H5'	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BR:62:ALA:O	48:BR:66:VAL:HG23	1.90	0.71
44:DN:26:LEU:CG	44:DN:30:ILE:HD11	2.19	0.71
43:DI:98:ALA:CB	43:DI:109:ILE:HB	2.19	0.71
42:DH:43:VAL:HG23	42:DH:43:VAL:O	1.89	0.71
8:AH:37:ARG:O	8:AH:41:ARG:HB3	1.89	0.71
38:DD:44:ASN:CB	38:DD:49:ILE:HA	2.18	0.71
35:DA:549:G:H2'	35:DA:551:G:C5'	2.19	0.71
46:DP:129:ALA:C	46:DP:130:PHE:HD2	1.93	0.71
38:BD:172:TYR:CD1	38:BD:186:HIS:HA	2.23	0.71
40:BF:164:ARG:HG3	40:BF:175:THR:OG1	1.89	0.71
56:BZ:17:ALA:C	56:BZ:20:ARG:HB3	2.11	0.71
35:BA:1786:A:C5	35:BA:1938:A:N7	2.57	0.71
38:DD:118:VAL:HG22	38:DD:119:ALA:N	2.05	0.71
35:DA:445:C:H5'	51:DU:3:ARG:HB2	1.72	0.71
1:AA:1074:G:H2'	1:AA:1075:C:C6	2.25	0.71
35:DA:1300:U:O2	35:DA:1626:G:H2'	1.89	0.71
3:CC:107:GLN:CD	3:CC:107:GLN:H	1.94	0.71
35:BA:2801(A):A:C4'	35:BA:2802:G:H5'	2.20	0.71
19:AS:51:VAL:O	19:AS:57:HIS:HA	1.89	0.71
1:AA:114:U:H2'	1:AA:115:G:C8	2.25	0.71
43:DI:54:GLN:HG2	43:DI:57:ARG:NH1	2.04	0.71
27:D1:8:SER:HA	35:DA:1365:A:OP2	1.90	0.71
5:CE:35:GLY:CA	5:CE:41:VAL:HG12	2.20	0.71
1:CA:597:G:H2'	1:CA:598:U:H5'	1.72	0.71
4:CD:3:ARG:O	4:CD:5:ILE:HG13	1.90	0.71
44:BN:107:LEU:HB2	44:BN:108:PRO:HD2	1.71	0.71
35:DA:2195:C:O2'	35:DA:2196:C:H5'	1.90	0.71
35:BA:648:G:H2'	35:BA:649:G:H8	1.55	0.71
35:DA:2291:U:H3	35:DA:2341:G:H1	1.35	0.71
35:DA:920:G:H2'	35:DA:921:G:H8	1.54	0.71
3:CC:73:PRO:O	3:CC:76:VAL:HG22	1.90	0.71
35:BA:2817:G:H21	35:BA:2836:U:H1'	1.52	0.71
5:CE:57:LYS:O	5:CE:61:TYR:HB2	1.89	0.71
50:DT:60:THR:HG22	50:DT:77:PRO:HA	1.73	0.71
38:BD:267:SER:O	38:BD:269:PHE:N	2.23	0.71
41:DG:41:GLN:HE22	41:DG:153:ARG:HB3	1.55	0.71
45:BO:104:ARG:HB3	45:BO:104:ARG:NH1	2.06	0.71
39:BE:197:ILE:HG13	39:BE:199:ARG:HH12	1.55	0.71
51:BU:68:ALA:O	51:BU:71:GLN:HB3	1.88	0.71
42:DH:101:ARG:HB2	42:DH:117:PRO:HG3	1.72	0.71
27:B1:13:ILE:HB	27:B1:63:ALA:HB2	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DY:88:LYS:HD2	55:DY:88:LYS:N	2.04	0.71
52:DV:29:PRO:HD2	52:DV:32:THR:HG1	1.55	0.71
45:DO:113:LYS:O	45:DO:117:LEU:HG	1.90	0.71
35:BA:675:A:H4'	40:BF:67:GLN:OE1	1.91	0.71
56:BZ:118:GLN:O	56:BZ:172:ALA:HA	1.89	0.71
1:CA:738:C:H5''	6:CF:69:GLU:HB2	1.71	0.71
55:DY:2:ARG:N	55:DY:4:LYS:HG2	2.04	0.71
35:DA:582:G:H2'	35:DA:583:G:C8	2.24	0.71
25:CY:28:LEU:O	25:CY:30:THR:HG23	1.90	0.71
1:AA:989:C:H42	1:AA:1217:C:N4	1.89	0.71
7:CG:71:PRO:HG3	7:CG:103:TRP:CZ3	2.26	0.71
55:BY:27:VAL:HG12	55:BY:29:GLU:H	1.55	0.71
5:AE:147:ASP:HA	5:AE:150:ARG:HB3	1.72	0.71
12:CL:47:LYS:CG	12:CL:48:PRO:HD3	2.20	0.71
31:D5:17:ASP:O	31:D5:20:ARG:HB2	1.90	0.71
35:BA:2704:C:H2'	35:BA:2705:A:C8	2.24	0.71
1:CA:1184:G:H2'	1:CA:1185:G:C8	2.24	0.71
22:CV:30:A:C4	22:CV:31:U:H5	2.08	0.71
1:CA:1241:G:H2'	1:CA:1242:C:C6	2.25	0.71
13:AM:46:LYS:HG3	13:AM:47:ASP:H	1.53	0.71
1:CA:565:U:H3'	1:CA:566:G:H2'	1.71	0.71
38:DD:247:ALA:HA	38:DD:254:THR:HG22	1.72	0.71
1:CA:1483:A:H2'	1:CA:1484:C:O4'	1.90	0.71
53:DW:32:ALA:O	53:DW:35:ILE:HB	1.90	0.71
35:DA:2853:C:H2'	35:DA:2854:G:H8	1.55	0.71
50:DT:88:ILE:HG22	50:DT:89:VAL:N	2.05	0.71
34:B8:13:ARG:HB3	46:BP:63:PRO:CA	2.15	0.71
45:BO:68:GLU:HB3	45:BO:78:ARG:HD3	1.73	0.71
50:BT:25:GLY:HA2	50:BT:92:GLY:CA	2.20	0.71
56:BZ:24:LEU:HG	56:BZ:25:PRO:HD2	1.72	0.71
42:DH:105:LEU:HD22	42:DH:105:LEU:N	2.04	0.71
42:BH:83:TYR:HB3	42:BH:135:GLY:O	1.91	0.71
47:DQ:33:GLY:HA2	47:DQ:105:GLU:HA	1.72	0.71
35:BA:621:A:H2'	35:BA:622:G:H5'	1.70	0.71
48:DR:95:THR:HA	48:DR:116:LEU:O	1.90	0.71
48:DR:61:HIS:O	48:DR:65:LEU:HB2	1.90	0.71
36:DB:7:G:H3'	36:DB:8:U:C5'	2.21	0.71
2:CB:233:SER:HB2	2:CB:234:PRO:HD2	1.72	0.71
1:AA:1220:G:H2'	1:AA:1221:G:H8	1.55	0.71
47:BQ:55:VAL:HG12	47:BQ:64:ILE:CD1	2.20	0.71
13:CM:91:ARG:HB3	13:CM:96:LEU:O	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CT:100:ILE:H	20:CT:100:ILE:HD12	1.53	0.71
35:BA:108:U:H2'	35:BA:109:G:H8	1.56	0.71
35:BA:549:G:H2'	35:BA:551:G:C5'	2.19	0.71
54:BX:18:TYR:HA	54:BX:21:PHE:CD1	2.25	0.71
8:AH:82:HIS:HD2	8:AH:138:TRP:NE1	1.87	0.71
17:CQ:3:LYS:HD2	17:CQ:60:ILE:HD11	1.71	0.71
3:AC:155:GLY:HA3	3:AC:163:ALA:HB1	1.70	0.71
32:D6:36:LEU:HD13	32:D6:50:ARG:NH1	2.05	0.71
43:DI:57:ARG:HB3	43:DI:57:ARG:NH1	2.05	0.71
38:BD:79:VAL:CG1	38:BD:113:VAL:HA	2.19	0.71
17:AQ:82:MET:O	17:AQ:85:VAL:HB	1.89	0.71
35:BA:1314:C:H5'	35:BA:1314:C:H6	1.56	0.71
35:DA:1221(A):C:O2'	35:DA:1222:C:H5'	1.90	0.71
45:DO:36:GLY:N	45:DO:62:VAL:HB	2.05	0.71
50:DT:52:ILE:HG13	50:DT:52:ILE:O	1.90	0.71
35:BA:1788:C:H2'	35:BA:1789:A:H8	1.55	0.71
5:CE:12:LEU:HD13	5:CE:31:LEU:HB3	1.72	0.71
41:DG:137:GLU:CG	41:DG:138:GLN:H	2.01	0.71
47:BQ:25:ASP:HA	56:BZ:78:LYS:HZ1	1.53	0.71
35:BA:536:A:H2'	35:BA:537:C:C6	2.25	0.71
42:DH:122:THR:HB	42:DH:134:SER:HB2	1.71	0.71
27:B1:87:PRO:C	27:B1:89:GLU:H	1.92	0.71
41:BG:135:LEU:HG	41:BG:136:ARG:H	1.54	0.71
28:D2:41:ILE:H	28:D2:41:ILE:CD1	1.97	0.71
51:DU:93:LYS:HD3	51:DU:93:LYS:H	1.54	0.71
1:CA:410:G:H21	1:CA:432:A:H62	1.36	0.71
1:CA:543:C:H2'	1:CA:544:G:C8	2.26	0.71
25:AY:76:LEU:CD1	25:AY:99:LEU:HG	2.20	0.71
35:BA:797:C:H2'	35:BA:798:G:H8	1.53	0.71
40:DF:41:LEU:HD11	40:DF:184:TYR:HE1	1.56	0.71
55:BY:88:LYS:HD2	55:BY:88:LYS:N	2.05	0.71
48:DR:11:ASN:O	48:DR:12:ARG:HG3	1.90	0.71
48:BR:24:GLN:HE22	48:BR:36:THR:HG21	1.54	0.71
51:DU:21:ALA:HB2	51:DU:35:ALA:HB1	1.71	0.71
12:AL:85:ILE:HD11	12:AL:98:TYR:CB	2.20	0.71
42:BH:16:SER:CB	42:BH:27:LYS:HB2	2.20	0.71
11:AK:21:ILE:HD13	11:AK:84:VAL:HG12	1.72	0.71
8:CH:120:THR:HG23	8:CH:123:GLU:OE1	1.90	0.71
35:DA:660:G:H5'	40:DF:99:TYR:CE2	2.25	0.71
9:CI:28:VAL:CG1	9:CI:64:THR:HA	2.21	0.71
35:BA:2591:C:OP2	38:BD:239:ARG:HB2	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:203:LYS:HD2	39:BE:203:LYS:O	1.90	0.71
35:DA:2189:U:C3'	35:DA:2190:G:H5''	2.19	0.71
35:DA:1614:A:N6	53:DW:93:ALA:HB2	2.06	0.71
35:DA:2772:C:H2'	35:DA:2773:C:C6	2.25	0.71
44:BN:137:LYS:HG2	44:BN:138:LEU:H	1.56	0.71
35:BA:2749:A:H4'	42:BH:62:LYS:HB3	1.73	0.71
5:AE:13:ILE:HA	5:AE:29:GLY:O	1.90	0.71
2:AB:49:GLU:O	2:AB:52:GLU:HB3	1.90	0.71
35:DA:2749:A:H4'	42:DH:62:LYS:HB3	1.72	0.71
35:DA:2201:C:O2'	35:DA:2202:C:H5'	1.90	0.71
56:BZ:104:PHE:CD1	56:BZ:139:VAL:HG21	2.25	0.71
29:B3:59:VAL:HG12	29:B3:60:GLU:N	2.03	0.71
1:AA:903:G:H2'	1:AA:904:C:H6	1.54	0.71
41:DG:5:VAL:CG1	41:DG:6:ALA:H	1.91	0.71
32:B6:11:LEU:HG	32:B6:26:ASN:HD21	1.55	0.71
35:BA:2677:G:H2'	35:BA:2678:C:H6	1.55	0.71
39:BE:9:VAL:HG13	39:BE:25:VAL:O	1.91	0.71
45:BO:2:ILE:HD12	45:BO:6:THR:HG21	1.72	0.71
56:BZ:150:LEU:N	56:BZ:150:LEU:HD22	2.05	0.71
35:BA:559:G:N2	51:BU:49:HIS:CD2	2.59	0.71
44:BN:9:VAL:HG11	44:BN:39:ARG:NH2	2.04	0.71
41:BG:46:ALA:HB2	41:BG:88:ILE:HB	1.71	0.71
41:BG:43:LEU:HD21	41:BG:88:ILE:HG22	1.70	0.71
41:BG:28:VAL:HG12	41:BG:28:VAL:O	1.90	0.71
42:BH:92:ILE:HG22	42:BH:93:GLY:N	2.06	0.71
49:BS:15:ARG:HB3	49:BS:18:ILE:CD1	2.17	0.71
34:B8:52:LYS:N	34:B8:53:PRO:CD	2.54	0.71
49:DS:85:VAL:HG23	49:DS:86:ALA:N	2.05	0.71
55:DY:28:LYS:HB2	55:DY:37:VAL:HB	1.72	0.71
35:BA:342:G:H2'	35:BA:343:C:C5'	2.19	0.71
35:DA:1412:A:H2'	35:DA:1413:G:C8	2.25	0.71
35:DA:621:A:H2'	35:DA:622:G:H5'	1.72	0.71
12:CL:46:LYS:HG2	12:CL:47:LYS:N	2.04	0.71
9:CI:2:GLU:O	9:CI:3:GLN:HG3	1.90	0.71
2:AB:105:PHE:O	2:AB:108:ILE:HG22	1.90	0.71
35:BA:2186:G:C2'	35:BA:2187:G:H5''	2.20	0.71
5:CE:72:GLN:HE22	5:CE:77:PRO:HD3	1.55	0.71
53:DW:87:PRO:HA	53:DW:93:ALA:HB2	1.73	0.71
35:DA:285:C:H2'	35:DA:286:C:H5''	1.72	0.71
35:BA:2859:G:H2'	35:BA:2860:A:C8	2.26	0.71
10:CJ:30:SER:O	10:CJ:81:THR:HG23	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:B0:48:GLY:HA3	26:B0:80:HIS:ND1	2.05	0.71
1:CA:477:A:O2'	1:CA:479:C:H5'	1.90	0.71
35:DA:481:G:H1'	35:DA:506:G:N2	2.06	0.71
19:AS:43:GLU:C	19:AS:45:VAL:H	1.94	0.71
50:DT:109:GLU:O	50:DT:113:LYS:HG3	1.89	0.71
44:BN:39:ARG:HD3	44:BN:39:ARG:O	1.89	0.71
42:DH:83:TYR:HB3	42:DH:135:GLY:O	1.89	0.71
35:DA:1860:G:H1	35:DA:1882:C:H42	1.38	0.71
35:BA:2773:C:H5''	39:BE:164:ARG:O	1.89	0.71
49:BS:38:GLN:HG2	49:BS:39:ILE:N	2.04	0.71
46:BP:70:GLN:HG3	46:BP:71:VAL:H	1.56	0.71
35:BA:1258:C:H2'	35:BA:1259:G:H8	1.54	0.71
35:BA:2069:G:O2'	35:BA:2070:G:H5'	1.91	0.71
40:DF:112:MET:HA	40:DF:115:ALA:HB3	1.71	0.71
55:BY:88:LYS:HZ3	55:BY:93:GLY:N	1.84	0.71
35:DA:1279:G:H4'	48:DR:31:HIS:CD2	2.24	0.71
48:DR:62:ALA:O	48:DR:66:VAL:HG23	1.91	0.71
49:DS:15:ARG:HB3	49:DS:18:ILE:CD1	2.14	0.71
4:AD:33:MET:HE2	4:AD:37:PRO:HA	1.72	0.71
1:AA:738:C:H5''	6:AF:69:GLU:HB2	1.73	0.71
18:AR:78:LEU:O	18:AR:79:LEU:HG	1.90	0.71
39:BE:183:LEU:HD21	50:BT:11:GLU:HB3	1.71	0.71
55:BY:28:LYS:HA	55:BY:39:VAL:H	1.53	0.71
9:AI:83:ARG:O	9:AI:86:VAL:HG12	1.89	0.71
1:AA:559:A:H4'	1:AA:560:U:C5'	2.20	0.71
4:AD:132:ARG:HD2	4:AD:132:ARG:O	1.90	0.71
35:BA:1751:C:O2'	35:BA:1752:C:H5'	1.91	0.71
35:BA:2558:C:H2'	35:BA:2559:C:H6	1.54	0.71
4:CD:142:PRO:HA	4:CD:185:PHE:HD2	1.55	0.71
1:AA:1241:G:H2'	1:AA:1242:C:C6	2.26	0.71
26:D0:72:ARG:HD3	26:D0:75:LEU:HD13	1.73	0.71
50:DT:102:ILE:HA	50:DT:110:ILE:HD11	1.72	0.71
50:DT:25:GLY:HA2	50:DT:92:GLY:CA	2.20	0.71
50:DT:83:ILE:HG13	50:DT:84:GLN:N	2.06	0.71
1:CA:15:G:H4'	5:CE:24:ARG:NH2	2.05	0.71
38:DD:177:LEU:HD12	38:DD:181:GLU:HG3	1.73	0.71
41:DG:144:ILE:HG13	41:DG:145:THR:H	1.54	0.71
41:DG:135:LEU:HD23	41:DG:155:MET:HE1	1.73	0.71
34:B8:32:LEU:HB3	34:B8:35:GLN:H	1.56	0.71
45:BO:107:ARG:NH1	50:BT:36:GLU:H	1.89	0.71
35:DA:1418:G:H1	35:DA:1579:A:H5'	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:972:C:O3'	10:AJ:57:LYS:HG2	1.90	0.71
9:AI:114:TYR:N	9:AI:114:TYR:CD2	2.51	0.71
41:BG:132:ASN:OD1	41:BG:158:ALA:HA	1.90	0.71
49:BS:85:VAL:HG23	49:BS:86:ALA:N	2.06	0.71
4:CD:59:ARG:O	4:CD:62:GLN:HB2	1.91	0.71
35:BA:792:G:H5''	35:BA:793:A:H5'	1.71	0.71
46:BP:32:THR:O	46:BP:33:ARG:HB2	1.90	0.71
46:BP:39:LYS:HD3	46:BP:40:SER:H	1.54	0.71
44:BN:120:LEU:CD1	44:BN:122:VAL:HG23	2.21	0.71
1:AA:542:G:H2'	1:AA:543:C:C6	2.26	0.71
1:AA:706:A:C5	1:AA:707:C:H5	2.09	0.71
1:CA:1350:A:OP2	9:CI:118:LYS:HD2	1.90	0.71
46:BP:129:ALA:C	46:BP:130:PHE:HD2	1.93	0.71
35:BA:323:G:HO2'	35:BA:1205:U:H3	1.38	0.71
43:DI:54:GLN:HG2	43:DI:57:ARG:HH12	1.55	0.71
13:CM:9:ILE:HG22	13:CM:11:ARG:HG3	1.72	0.71
4:CD:5:ILE:HG22	4:CD:6:GLY:N	2.03	0.71
35:DA:285:C:C3'	35:DA:286:C:H5''	2.21	0.71
1:AA:6:G:H4'	1:AA:298:A:H4'	1.72	0.71
1:CA:1375:A:H2'	1:CA:1376:U:C6	2.25	0.71
33:D7:45:ALA:O	33:D7:46:VAL:HB	1.90	0.71
3:AC:127:ARG:HG2	3:AC:127:ARG:HH11	1.54	0.71
40:DF:10:PRO:HD2	40:DF:13:SER:O	1.90	0.71
7:CG:151:TYR:O	7:CG:154:TYR:HB2	1.90	0.71
10:AJ:42:THR:HG23	10:AJ:68:HIS:HA	1.73	0.71
50:BT:62:THR:HG21	50:BT:75:ILE:HG13	1.73	0.71
42:DH:126:PRO:O	42:DH:127:GLU:HG2	1.91	0.71
54:BX:49:VAL:HG12	54:BX:50:LYS:H	1.55	0.71
35:BA:673:C:H5'	40:BF:54:ARG:HH12	1.55	0.71
35:BA:814:C:O2'	35:BA:815:C:H5'	1.90	0.71
2:AB:204:ASN:HD21	2:AB:207:ALA:H	1.39	0.71
2:AB:54:THR:HG22	2:AB:58:ILE:HD11	1.73	0.71
2:AB:178:ARG:HH21	8:AH:74:PRO:HG3	1.56	0.71
45:BO:113:LYS:O	45:BO:117:LEU:HG	1.89	0.71
35:DA:2752:C:H5	35:DA:2753:A:H62	1.37	0.71
2:CB:105:PHE:O	2:CB:108:ILE:HG22	1.91	0.71
1:AA:955:U:H1'	1:AA:1227:A:N6	2.05	0.71
1:CA:1349:A:P	9:CI:118:LYS:HZ2	2.12	0.71
1:AA:1280:A:H5''	10:AJ:40:LEU:HD13	1.73	0.71
35:DA:2317:C:O2'	35:DA:2318:G:H5'	1.91	0.71
39:DE:203:LYS:HD2	39:DE:203:LYS:O	1.89	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:266:G:H22	1:CA:270:A:H62	1.39	0.71
35:DA:120:U:H1'	35:DA:149:A:C8	2.26	0.71
4:AD:128:VAL:HG12	4:AD:129:ASN:N	2.06	0.71
1:AA:1258:G:H2'	1:AA:1259:C:C6	2.26	0.71
1:AA:597:G:H2'	1:AA:598:U:H5'	1.72	0.71
13:AM:23:TYR:CD1	13:AM:67:GLU:HA	2.26	0.71
35:BA:1336:A:H2'	35:BA:1337:G:C8	2.25	0.71
35:BA:1364:G:H1'	35:BA:1368:G:H22	1.52	0.71
27:B1:20:ARG:HH12	27:B1:41:ARG:CZ	2.04	0.71
35:DA:1449:A:C2	35:DA:1529:G:H1'	2.26	0.71
26:D0:48:GLY:HA3	26:D0:80:HIS:ND1	2.05	0.71
19:CS:43:GLU:C	19:CS:45:VAL:H	1.94	0.71
35:DA:1034:G:N2	35:DA:1122:G:H1'	2.05	0.71
45:DO:104:ARG:NH1	45:DO:104:ARG:HB3	2.06	0.71
10:CJ:56:HIS:O	10:CJ:58:ASP:N	2.24	0.71
38:BD:210:GLY:O	38:BD:212:SER:N	2.24	0.71
38:BD:14:ARG:CB	38:BD:14:ARG:HH11	2.01	0.71
45:BO:16:ALA:HB1	45:BO:43:VAL:HG13	1.72	0.71
39:DE:77:ILE:CG2	39:DE:78:LEU:N	2.53	0.71
41:BG:178:PHE:HB3	41:BG:180:PHE:CE1	2.24	0.71
54:DX:58:HIS:O	54:DX:59:VAL:HG13	1.89	0.71
54:DX:29:TRP:HZ3	54:DX:76:ARG:HG2	1.54	0.71
35:DA:2598:A:C5'	38:DD:236:GLY:H	1.94	0.71
36:BB:7:G:H4'	49:BS:29:PHE:CE2	2.25	0.71
44:BN:62:VAL:O	44:BN:63:THR:HG22	1.90	0.71
55:DY:27:VAL:HG12	55:DY:29:GLU:H	1.56	0.71
25:CY:106:LEU:HD12	25:CY:110:ARG:HG2	1.72	0.71
35:BA:78:A:H2'	35:BA:79:G:H8	1.55	0.71
11:AK:44:SER:N	11:AK:47:VAL:HG21	2.05	0.71
12:AL:47:LYS:CG	12:AL:48:PRO:HD3	2.20	0.71
1:CA:1280:A:H5''	10:CJ:40:LEU:HD13	1.72	0.71
1:CA:1239:A:H62	1:CA:1299:A:H62	1.36	0.71
35:BA:285:C:C3'	35:BA:286:C:H5''	2.21	0.71
35:BA:2290:G:H5'	35:BA:2290:G:H8	1.55	0.71
26:B0:49:LYS:HB2	26:B0:80:HIS:HB3	1.71	0.71
1:AA:930:C:O2'	1:AA:931:C:H5'	1.91	0.71
10:CJ:42:THR:HG23	10:CJ:68:HIS:HA	1.72	0.71
35:BA:1887:C:H3'	35:BA:1888:G:H5''	1.73	0.71
35:BA:986:C:O2'	35:BA:987:G:H5'	1.91	0.71
35:DA:1031:G:H22	35:DA:1124:C:H1'	1.56	0.71
45:DO:107:ARG:HH11	50:DT:36:GLU:H	1.37	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1803:A:O2'	38:BD:259:THR:HG21	1.91	0.71
41:DG:125:PHE:CD1	41:DG:125:PHE:N	2.57	0.71
41:DG:73:ALA:N	41:DG:87:PRO:HD2	2.06	0.71
35:BA:2853:C:H2'	35:BA:2854:G:H8	1.56	0.71
39:BE:78:LEU:CD2	39:BE:78:LEU:H	2.03	0.71
27:B1:73:LEU:HA	27:B1:76:ARG:HH12	1.56	0.71
41:BG:125:PHE:HB2	41:BG:166:ASP:OD2	1.91	0.71
56:DZ:48:PHE:CE2	56:DZ:71:VAL:HG11	2.24	0.71
3:AC:150:LYS:HG3	3:AC:169:ALA:HB2	1.72	0.71
1:CA:986:A:H1'	19:CS:54:GLY:O	1.91	0.71
49:BS:28:VAL:HG12	49:BS:29:PHE:N	2.03	0.71
4:CD:59:ARG:HH22	4:CD:66:ARG:NH2	1.89	0.71
3:AC:148:GLY:CA	3:AC:203:PHE:HB3	2.20	0.71
34:D8:52:LYS:HE3	34:D8:52:LYS:HA	1.73	0.71
4:AD:119:GLN:HG3	4:AD:123:HIS:HD2	1.54	0.71
12:CL:102:ARG:HG2	12:CL:102:ARG:HH11	1.56	0.71
35:DA:2701:C:H3'	35:DA:2702:U:C5'	2.20	0.71
20:CT:60:GLU:HG3	20:CT:81:LYS:HE3	1.72	0.71
2:CB:101:MET:HB2	2:CB:102:LEU:HD12	1.73	0.71
1:AA:778:G:O2'	1:AA:779:C:H5'	1.90	0.71
39:DE:101:ARG:HD3	39:DE:169:ASN:ND2	2.05	0.71
35:DA:1301:A:H4'	35:DA:1302:A:OP1	1.90	0.71
13:AM:52:GLU:O	13:AM:56:LEU:HB2	1.91	0.71
13:AM:9:ILE:HG22	13:AM:11:ARG:HG3	1.73	0.71
35:DA:2859:G:H2'	35:DA:2860:A:C8	2.26	0.71
4:CD:80:GLU:O	4:CD:84:LYS:HG2	1.91	0.71
45:DO:13:ASN:O	45:DO:15:GLY:N	2.23	0.71
1:CA:417:C:O2'	1:CA:418:C:H5'	1.90	0.71
50:BT:50:ILE:HA	50:BT:99:LEU:HD11	1.73	0.70
56:BZ:58:VAL:HA	56:BZ:67:LEU:O	1.91	0.70
35:BA:1345:C:H2'	35:BA:1346:G:H8	1.55	0.70
2:AB:84:GLU:CB	2:AB:219:VAL:HG21	2.20	0.70
41:BG:172:LEU:N	41:BG:175:LEU:HD12	2.05	0.70
41:BG:47:LYS:HE3	41:BG:81:LYS:CB	2.19	0.70
35:DA:1342:A:H5'	54:DX:55:ASN:OD1	1.91	0.70
56:DZ:33:LEU:HD11	56:DZ:35:ARG:HG2	1.72	0.70
1:CA:1220:G:H2'	1:CA:1221:G:H8	1.55	0.70
4:CD:65:ARG:HD2	4:CD:70:ILE:O	1.91	0.70
34:B8:14:VAL:CG1	34:B8:22:VAL:HG13	2.20	0.70
35:BA:807:U:H2'	35:BA:808:G:H8	1.56	0.70
35:BA:1279:G:H4'	48:BR:31:HIS:CD2	2.26	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D1:26:ARG:HA	27:D1:34:THR:HA	1.71	0.70
3:AC:173:VAL:HG12	3:AC:173:VAL:O	1.91	0.70
42:DH:16:SER:CB	42:DH:27:LYS:HB2	2.21	0.70
11:AK:69:ALA:HA	11:AK:72:ALA:HB3	1.72	0.70
55:BY:68:HIS:HB3	55:BY:71:LYS:NZ	2.06	0.70
35:DA:2125:G:N2	35:DA:2173:A:H62	1.84	0.70
6:CF:45:LEU:HD12	6:CF:46:ARG:N	2.06	0.70
40:DF:164:ARG:HG3	40:DF:175:THR:OG1	1.90	0.70
17:AQ:46:ASP:OD1	17:AQ:49:GLU:HA	1.91	0.70
35:BA:2801(A):A:H4'	35:BA:2802:G:C2'	2.21	0.70
16:CP:82:GLN:HE21	16:CP:82:GLN:H	1.39	0.70
32:B6:32:ASN:CG	32:B6:33:LYS:H	1.94	0.70
35:DA:1340:U:C6	35:DA:1603:A:O4'	2.44	0.70
35:DA:1336:A:H2'	35:DA:1337:G:C8	2.25	0.70
47:BQ:140:ALA:HB2	56:BZ:99:TYR:CG	2.25	0.70
39:BE:100:GLU:O	39:BE:172:VAL:HG23	1.90	0.70
39:BE:52:LEU:HD12	39:BE:53:PRO:HD2	1.73	0.70
52:BV:28:GLU:CB	52:BV:29:PRO:HD3	2.13	0.70
42:DH:149:ARG:HG3	42:DH:162:ILE:HD11	1.72	0.70
28:D2:49:LYS:O	28:D2:52:ASP:N	2.24	0.70
38:DD:236:GLY:O	38:DD:237:GLU:HG2	1.91	0.70
19:CS:15:LEU:H	19:CS:15:LEU:HD22	1.56	0.70
35:BA:1639:U:O2'	35:BA:1640:C:H5''	1.91	0.70
2:AB:69:LEU:CD1	2:AB:71:VAL:HG23	2.20	0.70
40:DF:63:LYS:HZ1	40:DF:67:GLN:HB3	1.55	0.70
35:DA:690:G:H2'	35:DA:691:C:C6	2.26	0.70
1:AA:1320:C:N4	19:AS:36:ARG:HG3	2.07	0.70
1:CA:1401:G:C2'	1:CA:1402:C:H5'	2.21	0.70
35:DA:1131:G:N3	35:DA:1132:A:N7	2.39	0.70
1:CA:1307:U:H2'	1:CA:1308:U:C6	2.25	0.70
51:BU:21:ALA:HB2	51:BU:35:ALA:HB1	1.72	0.70
35:BA:1428:C:O2'	35:BA:1429:G:H5'	1.90	0.70
12:AL:38:THR:HG22	12:AL:57:LYS:O	1.90	0.70
7:AG:151:TYR:O	7:AG:154:TYR:HB2	1.90	0.70
13:AM:91:ARG:HB3	13:AM:98:VAL:HG22	1.73	0.70
3:CC:173:VAL:O	3:CC:173:VAL:HG12	1.90	0.70
56:DZ:76:LEU:CD2	56:DZ:76:LEU:N	2.54	0.70
38:DD:172:TYR:CD1	38:DD:186:HIS:HA	2.25	0.70
2:AB:101:MET:HA	2:AB:108:ILE:HG13	1.74	0.70
26:D0:23:VAL:HG13	26:D0:37:LEU:O	1.90	0.70
48:BR:4:LEU:O	48:BR:4:LEU:HD13	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:741:G:H2'	1:AA:742:G:H8	1.56	0.70
35:BA:2075:U:H2'	35:BA:2238:G:N2	2.06	0.70
1:AA:748:C:H1'	1:AA:749:C:OP2	1.91	0.70
1:AA:1388:C:H2'	1:AA:1389:C:C6	2.26	0.70
35:DA:6:A:O2'	44:DN:130:HIS:HB2	1.90	0.70
35:DA:2681:C:H5	35:DA:2725:A:H62	1.37	0.70
41:DG:51:ARG:HA	41:DG:51:ARG:HE	1.56	0.70
41:DG:67:LYS:HD2	41:DG:67:LYS:H	1.56	0.70
50:BT:27:THR:HA	50:BT:88:ILE:H	1.53	0.70
56:BZ:162:GLU:O	56:BZ:164:ALA:N	2.24	0.70
35:DA:2807:G:H3'	35:DA:2808:U:H5''	1.73	0.70
27:B1:87:PRO:O	27:B1:90:ILE:HG12	1.91	0.70
55:DY:74:PRO:O	55:DY:75:ILE:HB	1.89	0.70
1:AA:1057:G:O2'	1:AA:1058:G:H5'	1.91	0.70
4:CD:33:MET:CE	4:CD:37:PRO:HA	2.21	0.70
27:D1:67:ILE:N	27:D1:68:PRO:CD	2.55	0.70
35:BA:803:U:O2'	35:BA:804:A:H5'	1.91	0.70
49:DS:25:ARG:NH2	49:DS:89:ARG:HH12	1.88	0.70
6:AF:91:VAL:HG11	18:AR:72:ARG:HH12	1.55	0.70
1:CA:1443:G:N2	1:CA:1460:A:H1'	2.07	0.70
1:AA:694:A:H5''	11:AK:53:SER:HB3	1.72	0.70
31:B5:56:LYS:O	31:B5:57:VAL:HG13	1.90	0.70
35:DA:364:C:C2'	35:DA:365:C:H5''	2.20	0.70
33:D7:25:PRO:HG2	33:D7:26:GLY:H	1.56	0.70
56:BZ:17:ALA:HA	56:BZ:20:ARG:HD2	1.71	0.70
35:BA:740:U:H2'	35:BA:741:G:H8	1.53	0.70
1:AA:892:A:H2'	1:AA:893:C:H6	1.55	0.70
1:AA:728:A:H2'	1:AA:729:A:C8	2.25	0.70
35:DA:1290:C:H2'	35:DA:1291:C:C6	2.26	0.70
36:DB:11:C:H3'	36:DB:12:C:H6	1.56	0.70
44:DN:3:THR:HG22	44:DN:5:VAL:HG23	1.74	0.70
35:DA:1844:C:O2'	35:DA:1845:G:H5'	1.91	0.70
35:BA:6:A:O2'	44:BN:130:HIS:HB2	1.90	0.70
35:DA:1401:G:H2'	35:DA:1402:C:C6	2.26	0.70
27:D1:16:ASN:ND2	27:D1:16:ASN:H	1.90	0.70
45:DO:23:ARG:O	45:DO:39:ILE:HG13	1.91	0.70
50:DT:27:THR:HA	50:DT:88:ILE:H	1.56	0.70
50:BT:22:PHE:CD2	50:BT:22:PHE:N	2.54	0.70
1:AA:1191:A:H5''	3:AC:4:LYS:NZ	2.06	0.70
44:BN:42:TRP:N	51:BU:64:ARG:NH1	2.39	0.70
41:BG:173:LEU:H	41:BG:173:LEU:CD2	2.04	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:DX:49:VAL:HG12	54:DX:50:LYS:N	2.07	0.70
42:BH:153:LYS:HB2	42:BH:154:PRO:HD2	1.73	0.70
52:DV:3:ALA:HB3	52:DV:14:VAL:HB	1.72	0.70
4:CD:153:ARG:HB3	4:CD:153:ARG:NH1	2.07	0.70
35:DA:2394:C:OP1	46:DP:63:PRO:HD2	1.89	0.70
35:BA:2467:C:C2'	35:BA:2468:G:H5'	2.21	0.70
55:BY:28:LYS:HD2	55:BY:37:VAL:CG1	2.21	0.70
55:BY:31:LEU:CD1	55:BY:34:LYS:H	2.03	0.70
5:AE:12:LEU:HD13	5:AE:31:LEU:HB3	1.72	0.70
1:CA:1346:A:N1	1:CA:1374:A:H5''	2.06	0.70
56:BZ:107:THR:CG2	56:BZ:111:VAL:HG11	2.22	0.70
1:CA:625:G:H2'	1:CA:626:U:C6	2.26	0.70
35:DA:2672:G:C2'	35:DA:2673:G:H5''	2.21	0.70
7:AG:65:ALA:HB1	7:AG:127:ALA:HB3	1.74	0.70
1:CA:489:C:H2'	1:CA:490:G:C8	2.26	0.70
5:AE:90:VAL:C	5:AE:91:LEU:HD12	2.11	0.70
35:BA:445:C:H5''	51:BU:3:ARG:CB	2.21	0.70
35:DA:1786:A:N7	35:DA:1938:A:N7	2.40	0.70
35:BA:1570:A:H2'	35:BA:1571:A:H8	1.54	0.70
29:D3:29:ARG:HH11	35:DA:1183:G:H4'	1.56	0.70
35:DA:2007:C:H2'	35:DA:2008:C:H6	1.56	0.70
1:CA:498:U:H2'	1:CA:498:U:O2	1.89	0.70
35:BA:713:G:O2'	35:BA:714:U:H5'	1.90	0.70
35:BA:1799:G:OP1	38:BD:260:ARG:HD2	1.92	0.70
35:BA:783:A:H2'	35:BA:784:A:H4'	1.73	0.70
38:DD:94:LEU:HD13	38:DD:94:LEU:O	1.91	0.70
39:BE:96:PHE:HA	39:BE:100:GLU:OE1	1.91	0.70
39:DE:59:VAL:CG2	39:DE:63:LEU:HA	2.22	0.70
35:BA:2200:C:H42	35:BA:2223:G:H1	1.39	0.70
28:D2:48:HIS:NE2	35:DA:75:G:H4'	2.06	0.70
47:DQ:65:PHE:O	47:DQ:66:ILE:HG23	1.91	0.70
4:CD:119:GLN:HG3	4:CD:123:HIS:HD2	1.55	0.70
35:BA:2579:C:O2'	35:BA:2580:U:H5'	1.90	0.70
46:BP:23:PRO:HD2	46:BP:33:ARG:CZ	2.21	0.70
55:BY:81:LYS:HD3	55:BY:97:ARG:O	1.90	0.70
35:BA:2820:A:H62	39:BE:192:ASN:HB2	1.57	0.70
48:BR:41:ALA:HB1	48:BR:114:VAL:CG2	2.21	0.70
49:DS:92:TYR:CD1	49:DS:93:LYS:N	2.59	0.70
35:DA:78:A:H2'	35:DA:79:G:H8	1.54	0.70
1:AA:448:A:O2'	1:AA:449:C:H5'	1.91	0.70
25:AY:130:ARG:NH1	25:AY:130:ARG:HG3	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:692:U:H2'	1:AA:694:A:OP2	1.91	0.70
1:AA:956:U:O2'	1:AA:957:U:H5'	1.91	0.70
35:BA:541:C:H2'	35:BA:542:C:C6	2.26	0.70
35:BA:2732:G:C3'	35:BA:2733:A:H5'	2.22	0.70
1:CA:114:U:H2'	1:CA:115:G:C8	2.26	0.70
1:CA:254:G:O2'	1:CA:255:G:H5'	1.90	0.70
35:DA:2114:A:H2'	35:DA:2115:G:H5'	1.73	0.70
7:CG:137:LYS:O	7:CG:141:VAL:HG23	1.91	0.70
11:CK:59:TYR:CZ	11:CK:63:LEU:HD11	2.25	0.70
1:AA:977:A:H2'	1:AA:978:A:H5'	1.73	0.70
1:CA:203:U:H4'	1:CA:216:G:C2	2.26	0.70
10:CJ:82:ILE:O	10:CJ:86:MET:HB3	1.90	0.70
47:BQ:30:GLY:HA3	47:BQ:107:ALA:HB2	1.72	0.70
10:AJ:30:SER:O	10:AJ:81:THR:HG23	1.90	0.70
50:DT:28:VAL:HG11	50:DT:46:GLU:HA	1.74	0.70
38:DD:158:ALA:O	38:DD:161:THR:HG23	1.92	0.70
41:DG:35:GLU:HA	41:DG:99:MET:HE1	1.74	0.70
34:B8:23:VAL:HG12	34:B8:46:ARG:NH1	2.06	0.70
39:BE:176:ILE:HB	39:BE:181:LEU:HD23	1.72	0.70
27:B1:46:LEU:N	27:B1:46:LEU:HD12	2.06	0.70
27:B1:11:ARG:HH11	27:B1:60:PHE:HA	1.56	0.70
41:BG:137:GLU:HB3	41:BG:140:ILE:HG23	1.74	0.70
55:DY:81:LYS:HD3	55:DY:97:ARG:O	1.91	0.70
28:D2:29:LYS:HG2	28:D2:32:LEU:HD23	1.72	0.70
42:BH:144:VAL:HG12	42:BH:148:ILE:HD11	1.74	0.70
44:DN:41:ASP:C	51:DU:64:ARG:HH11	1.95	0.70
39:BE:116:VAL:HG22	39:BE:117:MET:N	2.04	0.70
27:D1:89:GLU:OE2	27:D1:90:ILE:HG12	1.92	0.70
35:BA:251:A:H5''	46:BP:51:PHE:CE1	2.26	0.70
40:DF:18:ARG:HG2	40:DF:19:GLU:H	1.56	0.70
48:DR:116:LEU:O	48:DR:117:VAL:HB	1.92	0.70
50:BT:109:GLU:HB3	50:BT:113:LYS:CE	2.18	0.70
49:DS:34:HIS:CD2	49:DS:53:SER:HB3	2.27	0.70
27:D1:41:ARG:NH1	27:D1:41:ARG:HG3	2.05	0.70
1:AA:429:U:H1'	1:AA:430:A:H5''	1.72	0.70
43:DI:133:HIS:O	43:DI:135:GLU:HG3	1.92	0.70
13:CM:91:ARG:HB3	13:CM:98:VAL:HG22	1.74	0.70
40:DF:160:ASN:ND2	40:DF:162:LEU:H	1.89	0.70
8:AH:32:LYS:O	8:AH:35:ILE:HG12	1.90	0.70
1:AA:1249:C:H5''	9:AI:70:LYS:HE2	1.74	0.70
54:DX:18:TYR:HA	54:DX:21:PHE:CD1	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:70:THR:O	42:BH:72:ILE:N	2.24	0.70
38:BD:131:LEU:CD1	38:BD:136:ILE:HG12	2.20	0.70
46:BP:79:ARG:HH21	46:BP:109:GLY:CA	2.05	0.70
56:BZ:17:ALA:HA	56:BZ:20:ARG:CB	2.21	0.70
53:BW:13:SER:HB3	53:BW:16:LYS:HD2	1.72	0.70
38:DD:117:VAL:HG22	38:DD:118:VAL:N	2.06	0.70
35:DA:49:A:OP2	35:DA:51:G:H5'	1.92	0.70
48:BR:61:HIS:O	48:BR:65:LEU:HB2	1.92	0.70
5:CE:35:GLY:HA3	5:CE:41:VAL:HG12	1.74	0.70
35:DA:1947:C:H2'	35:DA:1948:G:C8	2.27	0.70
1:CA:764:C:H2'	1:CA:765:G:C8	2.26	0.70
53:DW:51:LEU:HD13	53:DW:52:GLU:N	2.07	0.70
35:DA:986:C:O2'	35:DA:987:G:H5'	1.91	0.70
1:AA:946:A:H2'	1:AA:947:G:C8	2.26	0.70
40:BF:198:ALA:O	40:BF:201:VAL:HG12	1.92	0.70
12:CL:75:HIS:HD2	12:CL:77:LEU:HG	1.55	0.70
1:AA:303:A:OP1	12:AL:17:LYS:HE3	1.90	0.70
45:DO:63:VAL:CG2	45:DO:84:ALA:HA	2.21	0.70
35:DA:1791:A:O3'	38:DD:206:LEU:HB2	1.91	0.70
41:DG:132:ASN:HB2	41:DG:159:VAL:CG2	2.20	0.70
39:BE:11:MET:CB	39:BE:24:THR:HA	2.21	0.70
50:BT:38:ASN:HD22	50:BT:40:THR:N	1.90	0.70
39:BE:179:GLU:HB3	39:BE:181:LEU:CD2	2.20	0.70
39:BE:36:ARG:HH22	39:BE:88:GLY:CA	2.05	0.70
54:BX:58:HIS:O	54:BX:59:VAL:HG13	1.91	0.70
56:DZ:152:ALA:N	56:DZ:169:GLU:O	2.25	0.70
46:BP:23:PRO:HD2	46:BP:33:ARG:NH1	2.06	0.70
6:AF:62:TRP:HB2	18:AR:35:ARG:HH12	1.55	0.70
25:CY:26:ALA:O	25:CY:37:LEU:HA	1.92	0.70
35:BA:2036:C:H5'	35:BA:2036:C:C6	2.19	0.70
11:AK:103:LEU:CD2	11:AK:103:LEU:H	2.00	0.70
43:BI:110:ASP:O	43:BI:112:LYS:N	2.24	0.70
1:CA:562:C:H1'	12:CL:15:ARG:HB3	1.74	0.70
1:AA:1350:A:OP2	9:AI:118:LYS:HD2	1.92	0.70
1:AA:1369:C:OP2	9:AI:111:ARG:HA	1.92	0.70
1:AA:490:G:H2'	1:AA:491:G:H8	1.56	0.70
46:BP:74:GLU:OE2	46:BP:75:ILE:HD12	1.91	0.70
47:DQ:30:GLY:HA3	47:DQ:107:ALA:HB2	1.72	0.70
1:AA:203:U:H4'	1:AA:216:G:C2	2.27	0.70
35:DA:1249:U:H6	35:DA:1249:U:H5'	1.57	0.70
1:CA:1432:G:OP1	50:DT:107:ASP:HB2	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1899:G:N2	35:BA:1902:C:N4	2.39	0.70
38:DD:4:LYS:NZ	38:DD:20:ASP:HA	2.07	0.70
41:DG:60:LEU:HA	41:DG:63:ILE:HG13	1.74	0.70
35:BA:2852:G:H2'	35:BA:2853:C:C6	2.26	0.70
45:BO:43:VAL:HG21	45:BO:52:VAL:HG12	1.74	0.70
42:DH:103:LEU:HD23	42:DH:115:VAL:HB	1.72	0.70
39:DE:49:LEU:N	39:DE:49:LEU:HD22	2.07	0.70
36:DB:104:U:O2'	36:DB:105:A:H5'	1.91	0.70
52:DV:39:LEU:HD11	52:DV:53:GLU:N	2.06	0.70
10:AJ:5:ARG:HH21	10:AJ:99:LYS:HG3	1.56	0.70
47:DQ:52:VAL:CG1	47:DQ:53:ALA:H	1.99	0.70
35:BA:571:A:C5'	35:BA:2030:A:H62	2.05	0.70
35:BA:582:G:H2'	35:BA:583:G:C8	2.25	0.70
55:DY:28:LYS:HD2	55:DY:37:VAL:HG12	1.72	0.70
1:CA:1495:U:H2'	1:CA:1496:C:C6	2.27	0.70
51:DU:31:SER:HB3	51:DU:34:LYS:HB2	1.74	0.70
1:AA:1375:A:H2'	1:AA:1376:U:C6	2.27	0.70
7:AG:71:PRO:HG3	7:AG:103:TRP:HZ3	1.54	0.70
35:BA:2327:A:H2'	35:BA:2328:A:C8	2.26	0.70
55:BY:37:VAL:HG23	55:BY:38:ILE:N	2.04	0.70
1:AA:693:G:N2	23:AW:38:A:H2	1.88	0.70
11:CK:69:ALA:HA	11:CK:72:ALA:HB3	1.74	0.70
8:CH:6:ILE:HG22	8:CH:10:LEU:HD11	1.72	0.70
46:BP:131:SER:HB2	46:BP:134:ALA:CB	2.21	0.70
1:CA:1410:G:H2'	1:CA:1411:C:H6	1.56	0.70
17:AQ:40:LYS:HD2	17:AQ:42:TYR:CE1	2.27	0.70
13:CM:52:GLU:O	13:CM:56:LEU:HB2	1.92	0.70
1:CA:336:C:O2'	1:CA:337:C:H5'	1.90	0.70
1:CA:6:G:H4'	1:CA:298:A:H4'	1.73	0.70
40:DF:8:GLN:HB2	40:DF:126:VAL:HA	1.74	0.70
35:BA:1031:G:H22	35:BA:1124:C:H1'	1.57	0.70
55:BY:50:ARG:HB2	55:BY:53:PRO:HG3	1.74	0.70
35:DA:2720:U:H5'	35:DA:2721:A:OP2	1.90	0.70
45:DO:107:ARG:NH1	50:DT:36:GLU:H	1.89	0.70
50:DT:83:ILE:HG13	50:DT:84:GLN:HG2	1.72	0.70
43:BI:88:ILE:HG22	43:BI:89:TYR:N	2.06	0.70
1:CA:974:A:H1'	14:CN:31:ARG:HH21	1.56	0.70
1:CA:972:C:O3'	10:CJ:57:LYS:HG2	1.91	0.70
1:CA:924:C:H2'	1:CA:925:G:H8	1.57	0.70
56:BZ:58:VAL:HG22	56:BZ:68:PRO:CA	2.22	0.70
28:B2:57:ILE:HG12	28:B2:59:ARG:NH1	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BX:29:TRP:HZ3	54:BX:76:ARG:HG2	1.57	0.70
39:DE:78:LEU:CD2	39:DE:78:LEU:H	2.05	0.70
41:BG:64:THR:HG23	41:BG:65:GLY:H	1.57	0.70
28:D2:48:HIS:CD2	35:DA:75:G:HO2'	2.10	0.70
1:CA:1203:C:H2'	1:CA:1204:A:H8	1.57	0.70
35:DA:389:G:N1	46:DP:71:VAL:HB	2.04	0.70
34:B8:52:LYS:HE3	34:B8:52:LYS:HA	1.73	0.70
47:BQ:76:LYS:H	47:BQ:88:GLY:CA	2.04	0.70
1:AA:332:G:H2'	1:AA:333:G:H8	1.56	0.70
35:DA:189:G:H2'	35:DA:205:G:N2	2.07	0.70
6:CF:33:TYR:CD1	6:CF:75:LEU:HG	2.26	0.70
52:DV:70:ILE:HB	52:DV:90:PRO:CB	2.19	0.70
4:AD:117:ALA:O	4:AD:121:VAL:HG23	1.92	0.70
47:BQ:64:ILE:HG23	47:BQ:106:VAL:HG13	1.74	0.70
25:CY:64:ARG:HA	25:CY:103:ILE:CD1	2.21	0.70
1:AA:376:G:H5''	16:AP:5:ARG:HD2	1.73	0.70
25:AY:59:THR:O	25:AY:67:VAL:HG22	1.91	0.70
12:AL:85:ILE:HD11	12:AL:98:TYR:HB3	1.72	0.70
12:AL:86:ARG:HG2	12:AL:87:GLY:H	1.55	0.70
35:DA:2279:G:N2	35:DA:2280:G:H1'	2.06	0.70
2:CB:101:MET:HA	2:CB:108:ILE:HG13	1.74	0.70
35:DA:661:C:H2'	35:DA:662:G:C8	2.27	0.70
1:AA:1507:A:C2	1:AA:1530:G:H1'	2.27	0.70
31:B5:40:LYS:HE2	31:B5:46:CYS:HB3	1.74	0.70
12:AL:102:ARG:HH11	12:AL:102:ARG:HG2	1.56	0.70
35:BA:364:C:C2'	35:BA:365:C:H5''	2.22	0.70
5:CE:149:GLU:O	5:CE:153:LYS:HG2	1.92	0.70
40:BF:160:ASN:ND2	40:BF:162:LEU:H	1.89	0.70
17:AQ:45:HIS:HB2	17:AQ:69:LYS:HE2	1.73	0.70
1:CA:471:G:H2'	1:CA:472:A:H8	1.56	0.70
1:AA:658:G:C1'	15:AO:22:THR:HB	2.21	0.70
17:CQ:82:MET:O	17:CQ:85:VAL:HB	1.92	0.70
36:BB:11:C:H3'	36:BB:12:C:H6	1.56	0.70
43:BI:62:LYS:O	43:BI:62:LYS:HD3	1.91	0.70
4:CD:194:LEU:HD22	4:CD:194:LEU:N	2.07	0.70
39:BE:173:VAL:HG12	39:BE:174:ASP:H	1.57	0.70
46:DP:122:PRO:HB3	46:DP:141:ALA:HB1	1.73	0.70
33:D7:48:LYS:N	33:D7:48:LYS:HD3	2.06	0.70
35:BA:1777:U:O2'	35:BA:1778:U:H5'	1.91	0.70
41:DG:72:ARG:HD3	41:DG:86:MET:HA	1.72	0.70
35:DA:1493:C:H4'	35:DA:1494:A:OP2	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:56:HIS:O	10:AJ:58:ASP:N	2.25	0.70
52:DV:61:VAL:HG23	52:DV:100:ARG:H	1.55	0.70
4:CD:13:ARG:HG2	4:CD:14:ARG:N	2.07	0.70
4:CD:18:LYS:NZ	4:CD:31:CYS:SG	2.65	0.70
35:BA:2051:A:H4'	39:BE:141:ILE:CD1	2.22	0.70
35:BA:2443:C:O2'	35:BA:2444:G:H5'	1.92	0.70
6:CF:39:LYS:HG2	6:CF:40:VAL:H	1.57	0.70
1:AA:986:A:H1'	19:AS:54:GLY:O	1.91	0.70
55:DY:2:ARG:N	55:DY:4:LYS:HE2	2.06	0.70
4:AD:59:ARG:HH22	4:AD:66:ARG:NH2	1.89	0.70
44:DN:14:VAL:HG12	44:DN:15:LEU:N	2.03	0.70
1:CA:1513:A:H2'	1:CA:1514:C:C6	2.27	0.70
25:CY:147:LEU:HD23	25:CY:148:HIS:N	2.06	0.70
35:DA:660:G:H5'	40:DF:99:TYR:CD2	2.26	0.70
1:AA:254:G:O2'	1:AA:255:G:H5'	1.92	0.70
35:BA:2801(A):A:H4'	35:BA:2802:G:H5'	1.74	0.70
35:DA:2186:G:C2'	35:DA:2187:G:H5''	2.22	0.70
4:CD:128:VAL:C	4:CD:130:GLY:H	1.93	0.70
35:BA:1301:A:H4'	35:BA:1302:A:OP1	1.91	0.70
35:DA:877:U:C2'	35:DA:878:A:H5''	2.22	0.70
2:AB:19:HIS:O	2:AB:39:ILE:HG23	1.91	0.70
35:BA:185:U:H2'	35:BA:186:G:C8	2.27	0.70
1:CA:1377:A:H2'	7:CG:7:ALA:HB3	1.72	0.70
1:CA:1366:C:H2'	1:CA:1367:C:C6	2.26	0.70
35:BA:2506:U:H4'	35:BA:2507:C:OP1	1.91	0.70
17:AQ:9:VAL:HG12	17:AQ:10:VAL:H	1.57	0.70
1:CA:137:C:H42	1:CA:226:G:H1	1.37	0.70
40:DF:32:LEU:C	40:DF:32:LEU:HD23	2.11	0.70
1:AA:243:A:H4'	1:AA:244:U:O5'	1.90	0.70
35:DA:1999:C:H2'	35:DA:2000:G:H8	1.57	0.69
50:DT:25:GLY:HA2	50:DT:92:GLY:N	2.06	0.69
35:DA:1789:A:H2'	35:DA:1790:C:H6	1.56	0.69
35:DA:2312:U:H2'	35:DA:2313:C:H5''	1.74	0.69
10:CJ:5:ARG:HH21	10:CJ:99:LYS:HG3	1.57	0.69
50:BT:30:VAL:HG12	50:BT:44:ASP:CA	2.22	0.69
50:BT:64:ARG:HB2	50:BT:73:GLU:HB3	1.73	0.69
35:BA:58:G:OP1	54:BX:72:LYS:HB3	1.91	0.69
27:B1:19:GLN:NE2	35:BA:379:G:H21	1.90	0.69
41:BG:83:ARG:HB3	41:BG:84:LYS:HD2	1.74	0.69
35:DA:1345:C:O2'	35:DA:1346:G:H5'	1.92	0.69
54:DX:57:LEU:HD12	54:DX:76:ARG:NE	2.06	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DQ:116:GLU:O	47:DQ:119:ARG:HB3	1.92	0.69
52:DV:32:THR:HG22	52:DV:33:VAL:N	2.05	0.69
1:CA:1190:G:OP1	3:CC:5:ILE:HD12	1.92	0.69
3:CC:124:ILE:HG13	3:CC:130:VAL:HG22	1.74	0.69
44:DN:62:VAL:O	44:DN:63:THR:HG22	1.91	0.69
35:BA:588:U:H2'	35:BA:589:C:H6	1.55	0.69
52:BV:70:ILE:HB	52:BV:90:PRO:CB	2.19	0.69
48:DR:17:ARG:HH11	48:DR:17:ARG:HG2	1.57	0.69
44:BN:22:THR:CA	44:BN:61:ARG:HB2	2.20	0.69
18:CR:81:PHE:O	18:CR:82:THR:HB	1.92	0.69
35:BA:2125:G:N2	35:BA:2173:A:H62	1.85	0.69
43:BI:115:ALA:N	43:BI:131:LYS:HE2	2.07	0.69
35:BA:2282:G:H1	35:BA:2427:C:N4	1.89	0.69
1:AA:1507:A:H2'	1:AA:1508:G:H8	1.56	0.69
8:CH:45:ILE:HA	8:CH:64:LYS:HB3	1.73	0.69
56:BZ:142:SER:H	56:BZ:144:LEU:CD2	2.05	0.69
19:CS:53:ASN:HD21	19:CS:56:GLN:N	1.89	0.69
17:AQ:95:TYR:O	17:AQ:97:SER:N	2.25	0.69
1:CA:1422:G:H4'	45:DO:49:ARG:NH1	2.07	0.69
1:AA:235:C:H1'	17:AQ:61:GLU:OE1	1.92	0.69
38:BD:79:VAL:HG12	38:BD:113:VAL:HA	1.73	0.69
5:CE:82:VAL:HG21	5:CE:138:ALA:CA	2.22	0.69
13:CM:66:LEU:CA	13:CM:70:LEU:HD12	2.22	0.69
35:DA:2801(A):A:H4'	35:DA:2802:G:C2'	2.22	0.69
1:AA:750:G:N3	15:AO:23:GLY:HA3	2.07	0.69
35:BA:1844:C:O2'	35:BA:1845:G:H5'	1.92	0.69
12:CL:76:ASN:OD1	12:CL:108:ALA:HB3	1.90	0.69
40:DF:198:ALA:O	40:DF:201:VAL:HG12	1.90	0.69
1:AA:1206:G:H4'	3:AC:192:THR:O	1.92	0.69
35:DA:2203:U:O4'	38:DD:151:LYS:HE3	1.92	0.69
1:CA:688:G:H2'	1:CA:689:C:H6	1.55	0.69
1:AA:1288:A:H1'	1:AA:1352:C:O2'	1.92	0.69
35:BA:897:C:H1'	35:BA:899:A:N7	2.05	0.69
23:CW:57:C:H2'	23:CW:58:A:H8	1.57	0.69
45:DO:2:ILE:HD11	45:DO:82:ASN:CB	2.22	0.69
41:DG:129:GLY:C	41:DG:131:TYR:H	1.96	0.69
54:BX:81:VAL:HG13	54:BX:85:PRO:HB2	1.73	0.69
2:AB:233:SER:HB2	2:AB:234:PRO:HD2	1.72	0.69
41:BG:101:ILE:CD1	41:BG:105:LYS:HE3	2.22	0.69
41:BG:19:LEU:HD21	41:BG:175:LEU:CD1	2.22	0.69
47:DQ:66:ILE:HG22	47:DQ:104:PHE:CE2	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:37:VAL:O	40:BF:40:GLN:HB2	1.93	0.69
47:BQ:10:ARG:HD3	47:BQ:12:GLN:HB3	1.75	0.69
2:CB:54:THR:HG22	2:CB:58:ILE:HD11	1.74	0.69
2:CB:69:LEU:CD1	2:CB:71:VAL:HG23	2.22	0.69
55:DY:28:LYS:HA	55:DY:39:VAL:H	1.56	0.69
43:DI:113:ARG:HA	43:DI:131:LYS:HE3	1.73	0.69
25:CY:14:MET:O	25:CY:18:LEU:HB3	1.91	0.69
19:CS:62:ILE:HD12	19:CS:63:THR:H	1.56	0.69
1:CA:1456:G:H2'	1:CA:1457:G:C5'	2.22	0.69
2:CB:102:LEU:CD1	2:CB:102:LEU:H	2.04	0.69
46:DP:80:TYR:CE1	46:DP:111:ARG:HB3	2.27	0.69
6:CF:53:ALA:HB3	6:CF:86:ARG:NH1	2.05	0.69
35:DA:1930:G:H22	35:DA:1968:G:H2'	1.58	0.69
46:DP:17:LYS:C	46:DP:19:VAL:H	1.95	0.69
36:BB:79:C:O2'	36:BB:80:U:H5'	1.91	0.69
35:DA:1751:C:O2'	35:DA:1752:C:H5'	1.92	0.69
1:AA:349:A:O2'	1:AA:350:G:H5'	1.91	0.69
6:CF:48:LEU:HD22	18:CR:77:GLY:HA3	1.72	0.69
17:AQ:11:VAL:HA	17:AQ:53:LEU:HD11	1.73	0.69
53:BW:70:TYR:HE2	53:BW:108:GLY:HA3	1.56	0.69
1:CA:668:G:O4'	15:CO:49:ASP:HB2	1.92	0.69
20:CT:57:ARG:NH1	20:CT:57:ARG:HB2	2.07	0.69
24:CX:20:A:H2'	24:CX:21:G:C8	2.27	0.69
35:DA:2845:G:O2'	35:DA:2846:G:H5'	1.92	0.69
10:CJ:5:ARG:HA	10:CJ:73:ASP:OD1	1.93	0.69
36:BB:104:U:O2'	36:BB:105:A:H5'	1.92	0.69
47:BQ:132:VAL:HG12	47:BQ:133:ARG:H	1.56	0.69
56:BZ:76:LEU:O	56:BZ:78:LYS:N	2.24	0.69
47:BQ:132:VAL:HG11	56:BZ:81:ARG:NH1	2.07	0.69
35:BA:1600:C:O2'	35:BA:1601:G:H5'	1.92	0.69
39:DE:36:ARG:HH22	39:DE:88:GLY:CA	2.05	0.69
41:BG:166:ASP:OD1	41:BG:170:ARG:HB2	1.92	0.69
35:DA:2467:C:C2'	35:DA:2468:G:H5'	2.23	0.69
52:DV:19:LYS:HG3	52:DV:20:LEU:N	2.07	0.69
19:CS:12:ASP:HB3	19:CS:15:LEU:HD23	1.75	0.69
1:CA:1203:C:OP1	14:CN:3:ARG:HD2	1.92	0.69
55:BY:76:CYS:O	55:BY:78:ALA:N	2.25	0.69
35:BA:869:G:H1'	47:BQ:8:LYS:NZ	2.06	0.69
44:DN:120:LEU:HD11	44:DN:122:VAL:CG2	2.23	0.69
1:CA:750:G:N3	15:CO:23:GLY:HA3	2.06	0.69
18:CR:67:ALA:HA	18:CR:70:ILE:HD12	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:CR:47:THR:O	18:CR:82:THR:HA	1.92	0.69
35:DA:1258:C:H2'	35:DA:1259:G:C8	2.28	0.69
43:DI:68:LEU:O	43:DI:68:LEU:HD23	1.92	0.69
47:DQ:8:LYS:CG	47:DQ:9:TYR:H	2.04	0.69
11:AK:61:ALA:HB3	11:AK:90:GLY:HA3	1.72	0.69
1:CA:522:C:H41	12:CL:53:ARG:NH2	1.86	0.69
38:DD:79:VAL:CG1	38:DD:113:VAL:HA	2.22	0.69
35:DA:445:C:H5''	51:DU:3:ARG:CB	2.22	0.69
35:BA:709:U:H2'	35:BA:710:G:H8	1.56	0.69
7:AG:120:ILE:HG22	7:AG:124:LEU:HD11	1.73	0.69
5:AE:82:VAL:HG21	5:AE:138:ALA:CA	2.21	0.69
37:DC:58:VAL:CG2	37:DC:166:ASP:H	2.04	0.69
35:BA:1340:U:C6	35:BA:1603:A:O4'	2.45	0.69
48:DR:4:LEU:O	48:DR:4:LEU:HD13	1.92	0.69
35:DA:185:U:H2'	35:DA:186:G:C8	2.27	0.69
35:BA:7:G:H4'	44:BN:13:TRP:CH2	2.27	0.69
35:DA:1193:G:H2'	35:DA:1194:A:O4'	1.92	0.69
10:CJ:45:ARG:O	10:CJ:64:GLU:HA	1.93	0.69
41:DG:40:ASN:ND2	41:DG:91:ARG:HB2	2.08	0.69
56:BZ:165:VAL:HG12	56:BZ:166:SER:N	2.07	0.69
52:BV:61:VAL:CG2	52:BV:100:ARG:H	2.05	0.69
35:BA:137:C:H2'	35:BA:139:G:H5'	1.74	0.69
54:BX:49:VAL:HG12	54:BX:50:LYS:N	2.07	0.69
35:BA:2312:U:H2'	35:BA:2313:C:H5''	1.73	0.69
35:DA:1341:U:P	35:DA:1397:U:H3	2.15	0.69
1:CA:1320:C:N4	19:CS:36:ARG:HG3	2.08	0.69
39:BE:116:VAL:O	39:BE:117:MET:HB3	1.91	0.69
46:DP:66:GLY:O	46:DP:68:GLN:HG2	1.92	0.69
6:CF:21:LEU:O	6:CF:24:GLU:HG2	1.93	0.69
35:DA:814:C:O2'	35:DA:815:C:H5'	1.92	0.69
46:DP:39:LYS:HD3	46:DP:40:SER:H	1.56	0.69
4:AD:96:LEU:N	4:AD:96:LEU:HD22	2.02	0.69
6:AF:21:LEU:O	6:AF:24:GLU:HG2	1.93	0.69
1:CA:1324:A:H2'	1:CA:1325:C:C6	2.19	0.69
1:CA:955:U:H1'	1:CA:1227:A:N6	2.07	0.69
16:AP:6:LEU:HB3	16:AP:17:TYR:HD2	1.58	0.69
35:DA:1177:A:H5'	35:DA:1178:C:C5	2.28	0.69
35:BA:1177:A:H5'	35:BA:1178:C:C5	2.28	0.69
1:AA:489:C:H2'	1:AA:490:G:C8	2.24	0.69
40:BF:129:PHE:HA	40:BF:142:TRP:NE1	2.06	0.69
1:CA:444:C:H2'	1:CA:445:G:H8	1.55	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1786:A:C5	35:DA:1938:A:N7	2.61	0.69
6:AF:53:ALA:HB3	6:AF:86:ARG:NH1	2.08	0.69
53:BW:51:LEU:C	53:BW:51:LEU:HD13	2.13	0.69
35:BA:186:G:O2'	35:BA:187:G:H5'	1.92	0.69
27:D1:16:ASN:HD22	27:D1:16:ASN:H	1.39	0.69
1:CA:1292:U:H2'	1:CA:1293:G:C8	2.28	0.69
50:DT:78:LEU:HD23	50:DT:79:HIS:CE1	2.27	0.69
35:BA:2284:C:H2'	35:BA:2285:C:C5'	2.16	0.69
1:AA:1062:U:H2'	1:AA:1063:C:C6	2.28	0.69
44:BN:42:TRP:CD1	51:BU:63:VAL:HG11	2.27	0.69
56:DZ:104:PHE:HE2	56:DZ:122:ARG:HA	1.57	0.69
44:DN:9:VAL:HG11	44:DN:39:ARG:NH2	2.04	0.69
44:DN:42:TRP:CD1	51:DU:63:VAL:HG11	2.28	0.69
47:DQ:51:ARG:O	47:DQ:55:VAL:HG13	1.92	0.69
3:CC:149:ALA:HA	3:CC:201:TYR:O	1.92	0.69
35:BA:2514:U:H2'	35:BA:2515:C:C6	2.27	0.69
46:BP:47:ASP:OD1	46:BP:49:ARG:HB3	1.92	0.69
35:BA:2820:A:H62	39:BE:192:ASN:CB	2.06	0.69
35:DA:575:A:C2'	35:DA:576:U:H5'	2.23	0.69
35:DA:588:U:H2'	35:DA:589:C:H6	1.53	0.69
7:CG:71:PRO:HG3	7:CG:103:TRP:HZ3	1.56	0.69
35:BA:2701:C:H3'	35:BA:2702:U:C5'	2.20	0.69
35:BA:2036:C:H6	35:BA:2036:C:C5'	2.05	0.69
35:DA:661:C:H4'	46:DP:18:ARG:HG2	1.74	0.69
11:CK:58:PRO:HD3	11:CK:89:ALA:HB1	1.75	0.69
35:DA:2472:G:H5'	35:DA:2473:U:H5''	1.75	0.69
9:AI:5:TYR:HE1	9:AI:7:THR:HG1	1.38	0.69
5:CE:144:THR:O	5:CE:148:VAL:HG23	1.92	0.69
31:D5:13:LYS:O	31:D5:16:ARG:HB3	1.93	0.69
5:AE:72:GLN:HE22	5:AE:77:PRO:HD3	1.57	0.69
1:CA:320:C:H2'	1:CA:321:A:C8	2.27	0.69
25:CY:73:GLN:HB2	25:CY:77:LYS:HZ1	1.56	0.69
32:D6:32:ASN:CG	32:D6:33:LYS:H	1.94	0.69
46:DP:17:LYS:O	46:DP:19:VAL:N	2.25	0.69
1:AA:724:G:O2'	1:AA:725:G:H5'	1.92	0.69
35:DA:1509(B):A:H2'	35:DA:1510:G:C8	2.27	0.69
35:DA:1221:C:H2'	35:DA:1221(A):C:H6	1.57	0.69
35:DA:755:C:H2'	35:DA:756:C:C6	2.26	0.69
35:DA:713:G:O2'	35:DA:714:U:H5'	1.93	0.69
1:AA:439:A:C2	1:AA:441:A:H1'	2.27	0.69
1:AA:1084:G:H5'	1:AA:1102:A:OP2	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BY:101:LYS:HG2	55:BY:102:CYS:N	2.05	0.69
38:BD:210:GLY:O	38:BD:211:ARG:HB3	1.90	0.69
41:DG:51:ARG:NE	41:DG:51:ARG:CA	2.45	0.69
41:DG:63:ILE:HD12	41:DG:64:THR:N	2.07	0.69
47:BQ:140:ALA:HB3	56:BZ:53:ILE:CD1	2.16	0.69
10:AJ:45:ARG:O	10:AJ:64:GLU:HA	1.93	0.69
27:B1:87:PRO:HB2	27:B1:91:LYS:NZ	2.05	0.69
1:CA:977:A:C2'	1:CA:978:A:H5'	2.22	0.69
43:DI:83:ALA:HB1	43:DI:88:ILE:HG12	1.73	0.69
3:CC:16:ARG:NH1	3:CC:16:ARG:HB2	2.08	0.69
35:BA:2712:U:H1'	35:BA:2712(A):A:C8	2.26	0.69
48:BR:63:ARG:O	48:BR:67:LEU:HD23	1.92	0.69
2:AB:162:ILE:O	2:AB:162:ILE:HD12	1.93	0.69
34:D8:52:LYS:H	34:D8:53:PRO:CD	2.03	0.69
35:DA:251:A:H5''	46:DP:51:PHE:CE1	2.28	0.69
40:DF:53:THR:CG2	40:DF:56:GLU:HB2	2.22	0.69
47:BQ:50:ALA:HA	47:BQ:124:LYS:HG3	1.75	0.69
43:BI:12:LEU:HD12	43:BI:19:VAL:HG11	1.74	0.69
43:BI:38:LEU:HB2	43:BI:40:THR:HG23	1.75	0.69
1:AA:449:C:O2	16:AP:42:ARG:HD2	1.92	0.69
35:BA:755:C:H2'	35:BA:756:C:C6	2.27	0.69
35:BA:2127:G:H1'	35:BA:2128:C:H4'	1.74	0.69
42:BH:43:VAL:O	42:BH:43:VAL:HG23	1.92	0.69
1:AA:1402:C:H2'	1:AA:1403:C:O4'	1.92	0.69
5:CE:147:ASP:HA	5:CE:150:ARG:HB3	1.73	0.69
1:AA:677:U:H3	1:AA:713:G:H22	1.41	0.69
35:BA:2013:A:H4'	53:BW:96:ILE:HD12	1.73	0.69
35:BA:271(U):G:H2'	35:BA:271(V):G:C8	2.27	0.69
3:AC:73:PRO:HA	3:AC:76:VAL:HG13	1.73	0.69
1:CA:1375:A:H2'	1:CA:1376:U:H6	1.57	0.69
1:CA:689:C:P	11:CK:46:GLY:HA3	2.33	0.69
1:AA:1287:A:H2'	1:AA:1288:A:C8	2.27	0.69
25:CY:45:TYR:O	25:CY:46:TYR:HB2	1.92	0.69
10:AJ:9:ARG:O	10:AJ:94:VAL:HG13	1.92	0.69
1:AA:1291:G:H4'	9:AI:39:GLY:HA3	1.74	0.69
35:BA:1405:U:H2'	35:BA:1406:U:C6	2.27	0.69
1:AA:570:G:H2'	1:AA:571:U:C6	2.27	0.69
1:AA:818:G:H3'	1:AA:819:A:H5''	1.75	0.69
35:DA:797:C:H2'	35:DA:798:G:C8	2.27	0.69
35:DA:1991:U:H2'	35:DA:1992:G:C5'	2.23	0.69
35:DA:2723:C:C2'	35:DA:2724:C:H5'	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:161:THR:O	38:BD:196:VAL:HG23	1.92	0.69
38:BD:264:LYS:HE2	38:BD:266:SER:O	1.92	0.69
41:DG:137:GLU:OE2	41:DG:140:ILE:HG23	1.92	0.69
35:BA:2562:U:H2'	35:BA:2563:U:H5'	1.75	0.69
35:DA:2808:U:H2'	35:DA:2809:A:H5'	1.72	0.69
56:DZ:33:LEU:HD11	56:DZ:35:ARG:CG	2.23	0.69
35:BA:660:G:H5'	40:BF:99:TYR:CE2	2.27	0.69
35:BA:575:A:C2'	35:BA:576:U:H5'	2.22	0.69
46:BP:30:THR:CG2	46:BP:31:ALA:H	2.05	0.69
20:AT:43:LEU:HD12	20:AT:52:ALA:HA	1.75	0.69
35:DA:686:G:N2	35:DA:788:A:H61	1.89	0.69
12:AL:8:ASN:ND2	17:AQ:34:LYS:HE2	2.08	0.69
35:DA:296:C:O2'	35:DA:297:C:H5'	1.93	0.69
25:CY:30:THR:HG22	25:CY:179:LYS:HE3	1.74	0.69
25:CY:18:LEU:HG	25:CY:19:GLU:HG3	1.75	0.69
46:DP:16:ARG:CD	46:DP:18:ARG:H	2.04	0.69
35:DA:272(D):G:H1	35:DA:364:C:N4	1.88	0.69
38:BD:118:VAL:HG22	38:BD:119:ALA:N	2.07	0.69
40:BF:9:ILE:HG12	40:BF:14:PRO:HA	1.74	0.69
35:DA:1232:G:H2'	35:DA:1233:C:H6	1.57	0.69
35:DA:2200:C:H42	35:DA:2223:G:H1	1.38	0.69
32:B6:15:GLU:O	32:B6:15:GLU:HG2	1.93	0.69
44:DN:107:LEU:HB2	44:DN:108:PRO:HD2	1.75	0.69
35:BA:852:G:O2'	35:BA:853:G:H5'	1.93	0.69
46:DP:58:THR:C	46:DP:60:MET:H	1.96	0.69
46:DP:59:LEU:HA	46:DP:61:ARG:NE	2.08	0.69
37:BC:58:VAL:CG2	37:BC:166:ASP:H	2.05	0.69
4:AD:142:PRO:HA	4:AD:185:PHE:CD2	2.27	0.69
1:AA:696:A:H2'	1:AA:697:U:H6	1.56	0.69
1:CA:783:C:O2'	1:CA:784:C:H5'	1.91	0.69
1:CA:1126:U:H2'	1:CA:1127:G:C8	2.27	0.69
50:DT:64:ARG:HB2	50:DT:73:GLU:HB3	1.73	0.69
50:DT:75:ILE:HD12	50:DT:75:ILE:N	2.07	0.69
1:CA:972:C:H4'	10:CJ:57:LYS:HG3	1.73	0.69
1:CA:920:U:H2'	1:CA:921:U:C6	2.28	0.69
35:DA:1799:G:OP1	38:DD:260:ARG:HD2	1.92	0.69
38:DD:267:SER:O	38:DD:269:PHE:N	2.25	0.69
47:DQ:39:PRO:HB3	47:DQ:99:PRO:CD	2.12	0.69
35:BA:2680:C:H2'	35:BA:2681:C:O2	1.92	0.69
50:BT:27:THR:O	50:BT:28:VAL:HB	1.91	0.69
50:BT:78:LEU:HD23	50:BT:79:HIS:CE1	2.28	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BQ:28:ALA:CB	47:BQ:67:ARG:HD2	2.22	0.69
56:BZ:60:GLU:HA	56:BZ:66:SER:HB3	1.75	0.69
39:BE:105:THR:OG1	39:BE:166:THR:HG22	1.92	0.69
28:B2:57:ILE:O	28:B2:57:ILE:HG12	1.90	0.69
55:DY:90:LEU:HG	55:DY:91:GLU:HG2	1.75	0.69
52:DV:61:VAL:CG2	52:DV:100:ARG:H	2.05	0.69
3:CC:148:GLY:CA	3:CC:203:PHE:HB3	2.23	0.69
35:BA:571:A:H5'	35:BA:2030:A:N6	2.07	0.69
48:BR:82:GLU:O	48:BR:85:PRO:HD2	1.92	0.69
2:CB:69:LEU:HD23	2:CB:159:PRO:HG2	1.75	0.69
35:DA:1188:U:O2'	35:DA:1189:A:H5'	1.93	0.69
46:DP:47:ASP:OD1	46:DP:49:ARG:HB3	1.93	0.69
1:AA:881:G:P	12:AL:12:ARG:NH2	2.66	0.69
43:DI:129:THR:HA	43:DI:137:PRO:HA	1.75	0.69
35:DA:571:A:C5'	35:DA:2030:A:H62	2.05	0.69
12:CL:86:ARG:HG2	12:CL:87:GLY:N	2.08	0.69
1:AA:377:G:OP1	16:AP:3:LYS:HD3	1.92	0.69
43:BI:115:ALA:H	43:BI:131:LYS:HE2	1.57	0.69
35:BA:110:G:O2'	35:BA:111:A:H5'	1.92	0.69
1:AA:17:U:H2'	1:AA:18:C:C6	2.27	0.69
43:DI:4:ILE:HD13	43:DI:47:LEU:HD22	1.75	0.69
9:AI:70:LYS:O	9:AI:74:ILE:HG13	1.92	0.69
12:CL:36:VAL:O	12:CL:58:VAL:HG13	1.93	0.69
9:CI:83:ARG:O	9:CI:86:VAL:HG12	1.93	0.69
9:CI:28:VAL:HG12	9:CI:29:ASN:N	2.08	0.69
33:D7:15:THR:HG22	33:D7:16:HIS:CD2	2.28	0.69
35:DA:64:A:O2'	35:DA:65:C:H5'	1.92	0.69
35:BA:2317:C:O2'	35:BA:2318:G:H5'	1.93	0.69
38:BD:117:VAL:HG22	38:BD:118:VAL:N	2.07	0.69
1:AA:714:G:H21	1:AA:777:A:H1'	1.57	0.69
11:CK:21:ILE:HD13	11:CK:84:VAL:HG12	1.74	0.69
39:BE:101:ARG:HD3	39:BE:169:ASN:ND2	2.07	0.69
6:AF:45:LEU:HD12	6:AF:46:ARG:N	2.08	0.69
35:DA:2830:G:H5'	39:DE:58:ARG:HH12	1.57	0.69
35:DA:2250:G:C5	47:DQ:82:ARG:HD2	2.28	0.69
35:BA:2114:A:H2'	35:BA:2115:G:H5'	1.73	0.69
27:D1:19:GLN:NE2	35:DA:379:G:H21	1.90	0.69
35:DA:1270:C:H5''	35:DA:1271:G:H5'	1.74	0.69
35:DA:2801(A):A:H4'	35:DA:2802:G:H5'	1.73	0.69
26:B0:23:VAL:HG13	26:B0:37:LEU:O	1.92	0.69
35:DA:208:C:H2'	35:DA:209:C:C6	2.28	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B3:29:ARG:HH11	35:BA:1183:G:H4'	1.56	0.69
9:AI:65:VAL:HG22	9:AI:66:ARG:N	2.08	0.69
35:BA:1449:A:C2	35:BA:1529:G:H1'	2.26	0.69
35:BA:184:C:H2'	35:BA:185:U:C6	2.28	0.69
1:AA:498:U:H2'	1:AA:499:A:H5'	1.75	0.69
1:CA:533:A:O2'	1:CA:534:U:H5''	1.93	0.69
35:DA:897:C:H1'	35:DA:899:A:N7	2.07	0.69
5:AE:42:GLY:HA3	5:AE:66:MET:HG2	1.74	0.69
43:DI:62:LYS:O	43:DI:62:LYS:HD3	1.93	0.69
54:DX:16:LYS:HE3	54:DX:16:LYS:HA	1.74	0.69
9:AI:18:PHE:HB2	9:AI:62:TYR:O	1.93	0.69
5:CE:13:ILE:HA	5:CE:29:GLY:O	1.93	0.69
1:CA:179:A:H2'	1:CA:180:U:C6	2.27	0.69
35:DA:2712:U:H1'	35:DA:2712(A):A:C8	2.28	0.69
38:BD:267:SER:C	38:BD:269:PHE:N	2.41	0.69
54:BX:54:VAL:HG13	54:BX:78:LYS:O	1.92	0.69
35:BA:2223:G:C2'	35:BA:2224:G:H5'	2.22	0.69
42:BH:97:ARG:O	42:BH:125:VAL:HG11	1.93	0.69
51:DU:83:LEU:CB	51:DU:88:ILE:HG12	2.23	0.69
35:BA:1860:G:H1	35:BA:1882:C:H42	1.41	0.69
47:BQ:71:ASP:O	47:BQ:73:PRO:HD3	1.93	0.69
35:BA:404:C:C4'	35:BA:405:U:H5'	2.20	0.69
6:AF:9:VAL:C	6:AF:10:LEU:HD12	2.13	0.69
1:CA:1512:U:H2'	1:CA:1513:A:C8	2.28	0.69
8:CH:121:ASP:O	8:CH:125:ARG:HB2	1.93	0.69
42:BH:41:MET:HG3	42:BH:53:GLU:O	1.93	0.69
54:BX:25:LYS:NZ	54:BX:87:GLN:N	2.41	0.69
38:DD:45:ASN:CG	38:DD:46:GLN:N	2.46	0.69
27:B1:41:ARG:HH22	35:BA:205:G:H1	1.37	0.69
10:AJ:27:ALA:CB	10:AJ:85:LEU:HD11	2.23	0.69
35:DA:184:C:H2'	35:DA:185:U:C6	2.27	0.69
55:DY:50:ARG:HB2	55:DY:53:PRO:HG3	1.73	0.69
41:BG:96:ARG:O	41:BG:99:MET:HB3	1.93	0.69
35:DA:7:G:H4'	44:DN:13:TRP:CH2	2.28	0.69
1:CA:67:C:H2'	1:CA:68:G:C8	2.28	0.69
35:DA:1405:U:H2'	35:DA:1406:U:C6	2.28	0.69
35:DA:1991:U:H2'	35:DA:1992:G:H5'	1.75	0.69
43:BI:77:LEU:CB	43:BI:140:LEU:HD13	2.18	0.69
43:BI:83:ALA:HB1	43:BI:88:ILE:HG12	1.73	0.69
38:BD:80:ALA:HB3	38:BD:94:LEU:CD1	2.23	0.69
1:CA:920:U:H1'	1:CA:1080:A:H2	1.55	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DG:114:ILE:HG22	41:DG:115:ARG:N	2.06	0.69
50:BT:75:ILE:N	50:BT:75:ILE:HD12	2.08	0.69
39:BE:1:MET:HG2	39:BE:83:ASP:O	1.92	0.69
42:DH:145:ALA:HB1	42:DH:164:TYR:HE1	1.58	0.69
49:BS:26:LEU:HA	49:BS:39:ILE:HG13	1.74	0.69
6:CF:14:LEU:CD1	6:CF:19:LEU:HB2	2.21	0.69
1:CA:673:G:H5''	6:CF:87:ARG:NH1	2.08	0.69
2:CB:187:LEU:C	2:CB:187:LEU:HD22	2.14	0.69
35:DA:990:A:N6	35:DA:1186:G:H1'	2.08	0.69
1:CA:976:G:H22	1:CA:1362:C:H2'	1.57	0.69
19:AS:12:ASP:HB3	19:AS:15:LEU:HD23	1.75	0.69
1:CA:714:G:H21	1:CA:777:A:H1'	1.58	0.69
1:CA:794:A:H4'	1:CA:1521:G:O2'	1.93	0.69
1:CA:818:G:H3'	1:CA:819:A:H5''	1.74	0.69
1:AA:922:G:C2	1:AA:1396:A:C2	2.81	0.69
1:CA:1369:C:OP2	9:CI:111:ARG:HA	1.92	0.69
1:AA:522:C:N4	12:AL:53:ARG:HH21	1.88	0.69
35:DA:2127:G:H1'	35:DA:2128:C:H4'	1.75	0.69
38:BD:101:GLU:OE1	38:BD:103:ARG:HD3	1.93	0.69
46:BP:101:VAL:CG2	46:BP:107:LYS:HA	2.23	0.69
35:DA:678:C:H2'	35:DA:679:C:C6	2.25	0.69
17:CQ:19:VAL:CG2	17:CQ:44:ALA:HB3	2.23	0.69
19:AS:33:THR:HG23	19:AS:51:VAL:HA	1.75	0.69
5:CE:102:ALA:HB2	5:CE:120:THR:OG1	1.92	0.69
35:DA:696:G:C2'	35:DA:697:C:H5'	2.23	0.69
25:AY:118:VAL:C	25:AY:120:GLN:H	1.94	0.69
25:AY:80:GLU:C	25:AY:82:ALA:H	1.97	0.69
35:DA:603:A:H4'	35:DA:604:G:O5'	1.92	0.69
53:DW:70:TYR:HE2	53:DW:108:GLY:HA3	1.58	0.69
1:CA:126:G:H5'	1:CA:633:G:N2	2.07	0.69
9:CI:18:PHE:HB2	9:CI:62:TYR:O	1.93	0.69
35:BA:1324:G:H3'	35:BA:1325:G:H4'	1.75	0.69
35:DA:1830:C:H42	35:DA:1975:G:H1	1.40	0.69
56:DZ:134:PRO:O	56:DZ:136:PHE:N	2.25	0.69
1:CA:962:C:H2'	1:CA:963:G:H8	1.58	0.68
14:CN:34:TYR:C	14:CN:36:PHE:H	1.96	0.68
38:BD:206:LEU:HA	38:BD:211:ARG:HH12	1.57	0.68
38:BD:25:THR:O	38:BD:26:LYS:HD2	1.93	0.68
38:DD:210:GLY:O	38:DD:212:SER:N	2.26	0.68
45:BO:68:GLU:CD	45:BO:78:ARG:HH11	1.97	0.68
35:BA:2807:G:H3'	35:BA:2808:U:H5''	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2808:U:C2'	35:DA:2809:A:H5'	2.23	0.68
39:DE:77:ILE:HG23	39:DE:78:LEU:HD23	1.75	0.68
43:BI:23:PRO:HB3	43:BI:27:ARG:HH21	1.57	0.68
10:AJ:5:ARG:O	10:AJ:98:ILE:HA	1.92	0.68
47:BQ:34:LEU:HD11	47:BQ:129:THR:CB	2.23	0.68
35:BA:660:G:H5'	40:BF:99:TYR:CD2	2.28	0.68
35:BA:833:U:H2'	35:BA:834:C:C6	2.27	0.68
5:AE:51:VAL:O	5:AE:55:VAL:HG23	1.93	0.68
49:DS:38:GLN:HG2	49:DS:39:ILE:N	2.06	0.68
2:CB:84:GLU:CB	2:CB:219:VAL:HG21	2.20	0.68
6:CF:22:GLU:O	6:CF:26:ILE:HG13	1.93	0.68
15:CO:36:ILE:HD12	15:CO:63:ARG:HD3	1.76	0.68
15:CO:56:LEU:O	15:CO:60:VAL:HG23	1.93	0.68
35:DA:1258:C:H2'	35:DA:1259:G:H8	1.57	0.68
3:AC:15:THR:CG2	3:AC:16:ARG:HH12	2.00	0.68
18:AR:47:THR:O	18:AR:82:THR:HA	1.92	0.68
18:AR:47:THR:OG1	18:AR:49:LYS:HG2	1.93	0.68
35:DA:226:G:H5'	35:DA:257:A:H4'	1.75	0.68
5:AE:36:ASP:O	5:AE:37:ARG:HB2	1.92	0.68
8:AH:12:ARG:NH1	8:AH:26:VAL:HA	2.09	0.68
35:DA:2175:C:C2'	35:DA:2176:A:H5''	2.22	0.68
54:BX:25:LYS:HZ3	54:BX:87:GLN:N	1.92	0.68
23:AW:19:G:H3'	23:AW:20:G:C5'	2.23	0.68
1:CA:254:G:OP1	17:CQ:67:LYS:O	2.10	0.68
17:AQ:19:VAL:CG2	17:AQ:44:ALA:HB3	2.22	0.68
32:D6:15:GLU:O	32:D6:15:GLU:HG2	1.93	0.68
35:BA:1300:U:O2	35:BA:1626:G:H2'	1.92	0.68
35:BA:1528(A):A:C3'	35:BA:1529:G:H5''	2.22	0.68
35:DA:1528(A):A:C3'	35:DA:1529:G:H5''	2.22	0.68
7:CG:152:ALA:C	7:CG:154:TYR:H	1.97	0.68
33:D7:48:LYS:H	33:D7:48:LYS:HD3	1.58	0.68
13:AM:75:ALA:O	13:AM:79:LYS:HG3	1.92	0.68
1:AA:67:C:H2'	1:AA:68:G:C8	2.27	0.68
35:BA:920:G:H2'	35:BA:921:G:H8	1.56	0.68
35:BA:1221(A):C:O2'	35:BA:1222:C:H5'	1.92	0.68
1:CA:1416:G:H2'	1:CA:1417:G:O4'	1.93	0.68
10:CJ:51:ARG:H	10:CJ:60:ARG:HA	1.58	0.68
35:BA:1791:A:O3'	38:BD:206:LEU:HB2	1.93	0.68
38:BD:35:LYS:CE	38:BD:104:TYR:HB2	2.22	0.68
41:DG:125:PHE:CD2	41:DG:131:TYR:HB3	2.28	0.68
41:DG:130:ASN:ND2	41:DG:161:THR:N	2.40	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:59:VAL:HG11	39:BE:63:LEU:HG	1.74	0.68
35:BA:2787:C:O2	39:BE:61:ARG:HD3	1.93	0.68
52:BV:61:VAL:HG23	52:BV:100:ARG:H	1.56	0.68
54:BX:81:VAL:CG1	54:BX:85:PRO:HB2	2.23	0.68
41:BG:172:LEU:O	41:BG:175:LEU:HB2	1.93	0.68
28:D2:26:ARG:HH22	54:DX:6:ASP:CA	2.04	0.68
56:DZ:98:MET:O	56:DZ:126:VAL:HG22	1.94	0.68
3:CC:109:PRO:HA	3:CC:115:LEU:CD1	2.23	0.68
35:BA:1190:G:H4'	46:BP:35:HIS:HB3	1.76	0.68
35:DA:2820:A:H62	39:DE:192:ASN:HB2	1.56	0.68
35:DA:196:A:H5''	46:DP:46:LYS:NZ	2.07	0.68
1:CA:1401:G:H2'	1:CA:1402:C:H5'	1.75	0.68
19:CS:63:THR:CG2	19:CS:66:MET:HG2	2.22	0.68
5:CE:36:ASP:O	5:CE:37:ARG:HB2	1.93	0.68
9:AI:28:VAL:HG12	9:AI:29:ASN:N	2.08	0.68
7:CG:120:ILE:HG22	7:CG:124:LEU:HD11	1.74	0.68
38:DD:144:ALA:HB3	38:DD:192:THR:CG2	2.22	0.68
35:BA:1937:A:C2'	35:BA:1938:A:H5'	2.23	0.68
13:CM:23:TYR:CD1	13:CM:67:GLU:HA	2.27	0.68
27:B1:20:ARG:HH12	27:B1:41:ARG:NH2	1.89	0.68
52:DV:1:MET:HE3	52:DV:45:THR:H	1.57	0.68
22:CV:38:U:H2'	22:CV:39:C:H6	1.56	0.68
10:AJ:27:ALA:HB2	10:AJ:85:LEU:HD11	1.74	0.68
36:DB:24:G:H4'	36:DB:25:A:C8	2.28	0.68
33:B7:48:LYS:H	33:B7:48:LYS:HD3	1.58	0.68
17:CQ:11:VAL:HA	17:CQ:53:LEU:HD11	1.74	0.68
50:DT:28:VAL:CG2	50:DT:47:GLY:N	2.57	0.68
9:CI:114:TYR:HD2	9:CI:114:TYR:N	1.90	0.68
10:CJ:48:THR:HG22	10:CJ:49:VAL:H	1.58	0.68
41:DG:45:GLU:C	41:DG:47:LYS:H	1.96	0.68
50:BT:25:GLY:HA2	50:BT:92:GLY:N	2.09	0.68
35:DA:2051:A:H4'	39:DE:141:ILE:CD1	2.23	0.68
35:BA:2304:G:H5'	35:BA:2305:A:OP2	1.93	0.68
41:BG:41:GLN:O	41:BG:43:LEU:HD22	1.93	0.68
34:B8:8:LYS:O	34:B8:12:LYS:HG3	1.92	0.68
42:BH:126:PRO:O	42:BH:127:GLU:HG2	1.92	0.68
44:DN:42:TRP:N	51:DU:64:ARG:NH1	2.41	0.68
52:DV:4:ILE:HD12	52:DV:40:LEU:HD21	1.76	0.68
35:BA:1879:C:C3'	35:BA:1880:C:H5''	2.23	0.68
35:BA:795:C:H2'	35:BA:796:C:C6	2.28	0.68
2:CB:162:ILE:HD12	2:CB:162:ILE:O	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DP:38:GLN:HG3	46:DP:39:LYS:N	2.05	0.68
3:AC:16:ARG:NH1	3:AC:16:ARG:HB2	2.08	0.68
1:AA:425:G:H2'	1:AA:426:G:H8	1.58	0.68
35:DA:571:A:H5'	35:DA:2030:A:N6	2.07	0.68
25:CY:28:LEU:O	25:CY:30:THR:N	2.25	0.68
35:BA:690:G:H2'	35:BA:691:C:H6	1.59	0.68
1:AA:1307:U:H2'	1:AA:1308:U:C6	2.29	0.68
11:CK:61:ALA:HB3	11:CK:90:GLY:HA3	1.73	0.68
46:DP:126:VAL:HA	46:DP:145:PRO:HB2	1.74	0.68
38:BD:133:LEU:HA	38:BD:136:ILE:CD1	2.23	0.68
1:CA:449:C:O2	16:CP:42:ARG:HD2	1.93	0.68
7:CG:65:ALA:O	7:CG:69:VAL:HG23	1.93	0.68
35:BA:2672:G:C2'	35:BA:2673:G:H5''	2.23	0.68
26:D0:36:ILE:HD11	35:DA:2355:C:H4'	1.75	0.68
38:DD:239:ARG:HH21	38:DD:239:ARG:HG3	1.58	0.68
35:BA:1947:C:H2'	35:BA:1948:G:C8	2.28	0.68
35:BA:2543:G:H2'	35:BA:2544:G:C8	2.28	0.68
2:CB:39:ILE:HG22	2:CB:40:HIS:O	1.93	0.68
35:BA:877:U:C2'	35:BA:878:A:H5''	2.23	0.68
3:CC:73:PRO:HA	3:CC:76:VAL:HG13	1.76	0.68
35:DA:1894:C:O2'	35:DA:1895:C:H5'	1.94	0.68
10:AJ:3:LYS:HB2	10:AJ:77:PRO:HD3	1.75	0.68
1:AA:671:G:O2'	1:AA:672:U:H5'	1.94	0.68
4:AD:194:LEU:N	4:AD:194:LEU:HD22	2.08	0.68
50:DT:96:ARG:HG3	50:DT:98:LYS:O	1.93	0.68
43:BI:140:LEU:HD12	43:BI:141:LYS:H	1.59	0.68
56:BZ:151:HIS:HA	56:BZ:170:THR:HA	1.75	0.68
39:DE:116:VAL:HG21	39:DE:122:PHE:CG	2.28	0.68
42:DH:88:LEU:HD21	42:DH:165:ALA:HA	1.75	0.68
35:DA:1600:C:O2'	35:DA:1601:G:H5'	1.93	0.68
35:DA:58:G:OP1	54:DX:72:LYS:HB3	1.93	0.68
54:DX:36:LYS:NZ	54:DX:39:ILE:HA	2.08	0.68
4:CD:10:ARG:O	4:CD:13:ARG:HB3	1.93	0.68
43:DI:79:ILE:HB	43:DI:81:VAL:HG23	1.75	0.68
6:CF:67:MET:HB2	6:CF:68:PRO:HD2	1.75	0.68
35:DA:803:U:O2'	35:DA:804:A:H5'	1.92	0.68
35:DA:943:U:OP2	46:DP:38:GLN:CD	2.31	0.68
12:CL:66:VAL:HG23	12:CL:67:THR:O	1.94	0.68
1:CA:192:U:C4'	20:CT:103:GLY:HA2	2.24	0.68
25:AY:130:ARG:HG2	35:BA:1942:C:O2	1.93	0.68
1:CA:693:G:H2'	1:CA:694:A:C8	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BI:98:ALA:CB	43:BI:109:ILE:HB	2.23	0.68
35:BA:2092:U:H5	35:BA:2226:C:OP2	1.76	0.68
1:CA:522:C:N4	12:CL:53:ARG:HH21	1.89	0.68
33:D7:30:VAL:HG23	33:D7:31:LEU:H	1.57	0.68
33:D7:7:PRO:HB2	35:DA:1309:G:H4'	1.75	0.68
40:BF:150:GLY:HA2	40:BF:172:TRP:CE3	2.28	0.68
3:AC:104:GLN:CD	3:AC:105:GLU:H	1.96	0.68
35:DA:2208:A:H1'	35:DA:2219:G:C4	2.29	0.68
19:CS:33:THR:HG23	19:CS:51:VAL:HA	1.76	0.68
25:CY:109:GLU:O	25:CY:112:LYS:HB3	1.94	0.68
35:DA:1719:G:O2'	35:DA:1720:U:H5'	1.93	0.68
35:BA:1635:G:H5'	35:BA:1635:G:C8	2.28	0.68
1:AA:899:C:O5'	1:AA:899:C:H6	1.77	0.68
35:DA:154(A):C:H5	35:DA:171:G:N1	1.92	0.68
35:BA:2817:G:H21	35:BA:2836:U:C1'	2.07	0.68
38:BD:68:LYS:HG3	38:BD:68:LYS:O	1.93	0.68
35:DA:1434:A:H2'	35:DA:1435:G:C8	2.28	0.68
10:CJ:32:ALA:HB1	10:CJ:75:ILE:HD11	1.74	0.68
35:DA:556:G:H2'	35:DA:557:U:C6	2.28	0.68
50:DT:30:VAL:HG12	50:DT:44:ASP:CA	2.24	0.68
43:BI:145:VAL:HG12	43:BI:146:ALA:N	2.07	0.68
41:DG:46:ALA:CB	41:DG:88:ILE:HB	2.23	0.68
47:DQ:20:ALA:HB2	47:DQ:99:PRO:CG	2.23	0.68
50:BT:50:ILE:CG2	50:BT:99:LEU:HD12	2.19	0.68
47:BQ:66:ILE:HG22	47:BQ:104:PHE:CE2	2.28	0.68
56:BZ:155:LEU:HD23	56:BZ:156:LYS:H	1.58	0.68
42:DH:162:ILE:HD12	42:DH:162:ILE:C	2.14	0.68
1:AA:963:G:N2	10:AJ:55:LYS:HZ3	1.91	0.68
1:AA:974:A:H1'	14:AN:31:ARG:HH21	1.57	0.68
39:DE:52:LEU:HD23	39:DE:75:VAL:HG23	1.75	0.68
27:B1:48:LYS:O	27:B1:49:VAL:HG23	1.92	0.68
27:B1:86:SER:C	27:B1:89:GLU:CG	2.61	0.68
41:BG:5:VAL:HG12	41:BG:6:ALA:N	2.05	0.68
38:BD:236:GLY:O	38:BD:237:GLU:HG2	1.94	0.68
56:DZ:144:LEU:HD21	56:DZ:150:LEU:HD11	1.73	0.68
10:AJ:8:LEU:HA	10:AJ:96:ILE:HG22	1.76	0.68
3:AC:6:HIS:NE2	3:AC:8:ILE:HB	2.08	0.68
40:DF:46:ARG:HG3	40:DF:48:THR:HG23	1.76	0.68
20:AT:15:ARG:O	20:AT:18:GLN:HB2	1.93	0.68
44:BN:32:THR:CG2	44:BN:37:LYS:HB3	2.23	0.68
35:DA:571:A:H5'	35:DA:2030:A:H62	1.55	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:85:ILE:HD11	12:CL:98:TYR:HB3	1.74	0.68
43:BI:113:ARG:HA	43:BI:131:LYS:HE3	1.75	0.68
35:BA:926:A:H2'	35:BA:927:G:H8	1.57	0.68
12:AL:76:ASN:OD1	12:AL:108:ALA:HB3	1.92	0.68
1:CA:1149:C:H2'	1:CA:1150:U:H6	1.59	0.68
35:DA:541:C:H2'	35:DA:542:C:C5	2.28	0.68
35:BA:2590:A:O2'	35:BA:2591:C:H5'	1.94	0.68
17:AQ:68:ARG:N	17:AQ:70:ARG:NH1	2.41	0.68
53:BW:75:TYR:HD1	53:BW:75:TYR:N	1.92	0.68
28:D2:30:ARG:H	28:D2:30:ARG:CD	2.06	0.68
1:CA:349:A:O2'	1:CA:350:G:H5'	1.94	0.68
1:CA:930:C:O2'	1:CA:931:C:H5'	1.94	0.68
35:BA:2087:G:O2'	35:BA:2088:G:H5'	1.93	0.68
10:CJ:3:LYS:HB2	10:CJ:77:PRO:HD3	1.74	0.68
35:BA:431:U:O2'	35:BA:432:A:H5'	1.93	0.68
50:DT:52:ILE:HG22	50:DT:61:PHE:HB2	1.76	0.68
41:DG:69:ALA:HB3	41:DG:91:ARG:O	1.93	0.68
34:B8:30:ARG:NH2	46:BP:62:LEU:HD23	2.08	0.68
47:DQ:23:GLY:HA2	47:DQ:101:ARG:HB2	1.74	0.68
35:DA:2514:U:H2'	35:DA:2515:C:C6	2.29	0.68
28:B2:44:LEU:HD23	35:BA:61:G:H5'	1.76	0.68
39:DE:60:ASN:OD1	39:DE:62:PRO:HD2	1.94	0.68
54:DX:59:VAL:HG23	54:DX:74:PRO:HD2	1.75	0.68
54:DX:77:LYS:HA	54:DX:77:LYS:HE3	1.76	0.68
35:DA:2777:G:C5'	35:DA:2778:A:H5'	2.23	0.68
49:BS:17:ARG:HG3	49:BS:18:ILE:CD1	2.24	0.68
40:DF:6:VAL:HG23	40:DF:125:LEU:H	1.59	0.68
48:DR:82:GLU:O	48:DR:85:PRO:HD2	1.94	0.68
48:BR:9:LYS:O	48:BR:10:LEU:CG	2.41	0.68
49:DS:26:LEU:HA	49:DS:39:ILE:HG13	1.73	0.68
2:CB:54:THR:HG21	2:CB:201:ILE:HD11	1.76	0.68
47:DQ:8:LYS:HG3	47:DQ:9:TYR:N	2.08	0.68
1:AA:1377:A:H2'	7:AG:7:ALA:HB3	1.76	0.68
12:CL:8:ASN:ND2	17:CQ:34:LYS:HE2	2.08	0.68
8:AH:121:ASP:O	8:AH:125:ARG:HB2	1.94	0.68
31:D5:49:CYS:O	31:D5:56:LYS:HB2	1.94	0.68
1:CA:677:U:H3	1:CA:713:G:H22	1.42	0.68
1:CA:235:C:H1'	17:CQ:61:GLU:OE1	1.93	0.68
5:AE:102:ALA:H	5:AE:107:ARG:HH21	1.40	0.68
35:BA:445:C:H5''	51:BU:3:ARG:HB2	1.74	0.68
3:CC:104:GLN:CD	3:CC:105:GLU:H	1.97	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DN:108:PRO:C	44:DN:109:LYS:HD3	2.14	0.68
4:CD:5:ILE:HG22	4:CD:6:GLY:H	1.56	0.68
46:BP:59:LEU:HA	46:BP:61:ARG:NE	2.08	0.68
1:CA:498:U:H2'	1:CA:499:A:H5'	1.76	0.68
33:B7:48:LYS:HD3	33:B7:48:LYS:N	2.07	0.68
1:AA:1292:U:H2'	1:AA:1293:G:C8	2.28	0.68
1:AA:477:A:O2'	1:AA:479:C:H5'	1.93	0.68
53:DW:64:MET:O	53:DW:65:LEU:HB3	1.94	0.68
45:DO:4:PRO:O	45:DO:5:GLN:CB	2.41	0.68
1:AA:1126:U:H2'	1:AA:1127:G:C8	2.28	0.68
3:AC:58:GLU:O	3:AC:64:VAL:HA	1.93	0.68
1:CA:1291:G:H4'	9:CI:39:GLY:HA3	1.74	0.68
38:BD:63:ARG:NH1	38:BD:86:PRO:HD2	2.08	0.68
38:DD:4:LYS:HZ1	38:DD:20:ASP:HA	1.59	0.68
47:DQ:34:LEU:HD12	47:DQ:35:VAL:N	2.08	0.68
50:BT:32:TYR:O	50:BT:33:LYS:HB2	1.94	0.68
28:B2:28:LYS:O	28:B2:32:LEU:HD23	1.94	0.68
34:B8:6:THR:HG21	34:B8:63:PRO:HD3	1.75	0.68
56:DZ:3:TYR:O	56:DZ:57:ILE:HA	1.94	0.68
10:AJ:6:ILE:HG22	10:AJ:98:ILE:HG13	1.76	0.68
46:BP:17:LYS:C	46:BP:19:VAL:H	1.96	0.68
34:D8:52:LYS:N	34:D8:53:PRO:CD	2.57	0.68
35:DA:110:G:O2'	35:DA:111:A:H5'	1.92	0.68
6:AF:21:LEU:O	6:AF:25:ILE:HG12	1.93	0.68
35:BA:2739:U:O2'	35:BA:2740:A:H5'	1.93	0.68
12:CL:85:ILE:HD12	12:CL:99:HIS:O	1.94	0.68
20:CT:63:ILE:HD12	20:CT:81:LYS:HG2	1.74	0.68
5:AE:131:ILE:H	5:AE:131:ILE:HD13	1.59	0.68
9:CI:65:VAL:HG22	9:CI:66:ARG:N	2.08	0.68
35:BA:1614:A:N6	53:BW:93:ALA:HB2	2.09	0.68
20:CT:15:ARG:O	20:CT:18:GLN:HB2	1.94	0.68
3:CC:111:LEU:HD21	3:CC:146:ALA:HB2	1.73	0.68
2:CB:19:HIS:O	2:CB:39:ILE:HG23	1.94	0.68
46:BP:58:THR:C	46:BP:60:MET:H	1.95	0.68
35:DA:1643:G:H2'	35:DA:1644:C:H6	1.59	0.68
1:CA:1287:A:H2'	1:CA:1288:A:C8	2.28	0.68
1:CA:1260:C:OP1	1:CA:1284:C:H4'	1.94	0.68
47:BQ:131:ILE:HD13	47:BQ:131:ILE:N	2.08	0.68
1:CA:1046:A:H3'	1:CA:1047:G:H8	1.59	0.68
1:AA:533:A:O2'	1:AA:534:U:H5''	1.93	0.68
45:DO:69:ILE:CD1	45:DO:77:ILE:HG23	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:B8:30:ARG:NH2	46:BP:62:LEU:HB2	2.06	0.68
1:AA:1442(A):G:O6	35:BA:2863:C:H4'	1.94	0.68
39:BE:59:VAL:CG2	39:BE:63:LEU:HA	2.23	0.68
42:DH:145:ALA:HB1	42:DH:164:TYR:CE1	2.29	0.68
54:BX:77:LYS:HE3	54:BX:77:LYS:HA	1.76	0.68
27:B1:58:ILE:CD1	27:B1:59:THR:H	1.95	0.68
28:D2:50:ILE:O	28:D2:51:ARG:HB2	1.93	0.68
28:D2:53:LEU:HD23	28:D2:54:LYS:HG3	1.75	0.68
27:D1:13:ILE:HG23	27:D1:14:VAL:N	2.07	0.68
27:D1:60:PHE:CD1	27:D1:70:VAL:HG13	2.26	0.68
27:D1:86:SER:N	27:D1:87:PRO:HD3	2.09	0.68
46:BP:38:GLN:CG	46:BP:39:LYS:H	2.00	0.68
1:AA:1424:C:H2'	1:AA:1425:U:H6	1.58	0.68
44:BN:30:ILE:HD13	44:BN:54:VAL:HG21	1.74	0.68
6:CF:91:VAL:HG11	18:CR:72:ARG:HH12	1.58	0.68
15:CO:61:GLY:O	15:CO:65:ARG:HD3	1.93	0.68
2:CB:204:ASN:HD21	2:CB:207:ALA:H	1.39	0.68
52:DV:75:PHE:CD1	52:DV:87:HIS:HB3	2.29	0.68
55:DY:31:LEU:CD1	55:DY:34:LYS:H	2.06	0.68
25:AY:130:ARG:HH11	25:AY:130:ARG:HG3	1.58	0.68
29:D3:7:LYS:O	29:D3:54:VAL:HG13	1.93	0.68
1:AA:1458:G:H2'	1:AA:1459:C:H6	1.59	0.68
42:DH:156:ALA:C	42:DH:158:HIS:N	2.46	0.68
13:AM:66:LEU:CA	13:AM:70:LEU:HD12	2.23	0.68
54:BX:12:VAL:HG12	54:BX:27:THR:O	1.93	0.68
9:AI:10:ARG:HG3	9:AI:104:ARG:O	1.92	0.68
54:DX:12:VAL:HG12	54:DX:27:THR:O	1.94	0.68
26:B0:27:GLU:HB2	26:B0:69:PHE:CD1	2.28	0.68
1:CA:1084:G:H5'	1:CA:1102:A:OP2	1.94	0.68
1:AA:627:G:H2'	1:AA:628:G:H8	1.57	0.68
1:AA:1260:C:OP1	1:AA:1284:C:H4'	1.94	0.68
35:DA:2853:C:H2'	35:DA:2854:G:C8	2.28	0.68
43:BI:79:ILE:HB	43:BI:81:VAL:HG23	1.76	0.68
43:BI:88:ILE:HD11	43:BI:123:LEU:HD12	1.76	0.68
38:DD:215:LEU:O	38:DD:217:ARG:N	2.27	0.68
35:BA:2853:C:H2'	35:BA:2854:G:C8	2.28	0.68
56:BZ:125:LEU:HB3	56:BZ:165:VAL:HG22	1.74	0.68
39:BE:77:ILE:CG2	39:BE:78:LEU:H	2.07	0.68
39:BE:77:ILE:HG23	39:BE:78:LEU:HD23	1.75	0.68
10:AJ:62:HIS:H	10:AJ:62:HIS:CD2	2.12	0.68
54:BX:55:ASN:HD22	54:BX:55:ASN:N	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:82:LEU:HD22	41:BG:86:MET:HB2	1.76	0.68
3:CC:110:ASN:O	3:CC:141:VAL:HG13	1.94	0.68
43:DI:91:SER:CB	43:DI:121:LYS:HE3	2.21	0.68
40:BF:5:ALA:O	40:BF:6:VAL:HG13	1.93	0.68
48:DR:41:ALA:HB1	48:DR:114:VAL:CG2	2.23	0.68
2:CB:212:GLN:NE2	2:CB:216:SER:HB2	2.09	0.68
27:D1:41:ARG:NH2	35:DA:205:G:H1	1.92	0.68
35:DA:189:G:H2'	35:DA:205:G:H22	1.59	0.68
6:CF:62:TRP:HB2	18:CR:35:ARG:HH12	1.58	0.68
46:DP:7:ARG:O	46:DP:10:PRO:HD3	1.94	0.68
43:DI:71:ILE:HG13	43:DI:72:LEU:N	2.09	0.68
1:AA:989:C:H42	1:AA:1217:C:H42	1.40	0.68
11:AK:21:ILE:HB	11:AK:84:VAL:HG12	1.74	0.68
8:CH:85:ARG:HH12	8:CH:134:ILE:HG23	1.59	0.68
31:D5:40:LYS:HZ3	31:D5:45:VAL:HA	1.56	0.68
1:CA:1249:C:H5''	9:CI:70:LYS:HE2	1.74	0.68
35:BA:2175:C:C2'	35:BA:2176:A:H5''	2.23	0.68
35:DA:708:C:N4	35:DA:723:G:H1	1.92	0.68
38:DD:145:VAL:HG12	38:DD:146:GLU:N	2.08	0.68
35:DA:1007:C:HO2'	44:DN:108:PRO:HA	1.59	0.68
3:CC:84:ILE:HD11	3:CC:88:ARG:HH21	1.59	0.68
35:DA:1613:G:H2'	35:DA:1617:C:N4	2.09	0.68
35:DA:967:C:O2'	35:DA:968:G:H5'	1.94	0.68
35:DA:860:U:C5	35:DA:917:A:N7	2.62	0.68
36:DB:79:C:O2'	36:DB:80:U:H5'	1.92	0.68
27:B1:20:ARG:HD2	27:B1:20:ARG:N	2.09	0.68
35:BA:649:G:H2'	35:BA:650:C:C6	2.28	0.68
4:CD:142:PRO:HA	4:CD:185:PHE:CD2	2.28	0.68
1:AA:977:A:C2'	1:AA:978:A:H5'	2.23	0.68
35:BA:64:A:O2'	35:BA:65:C:H5'	1.94	0.68
35:BA:1249:U:H5'	35:BA:1249:U:H6	1.59	0.68
35:DA:2505:G:H2'	35:DA:2576:G:O6	1.94	0.68
44:BN:3:THR:HG22	44:BN:5:VAL:HG23	1.76	0.68
25:AY:116:ARG:HG2	25:AY:116:ARG:HH11	1.59	0.68
32:B6:40:CYS:HB2	32:B6:46:HIS:HE1	1.59	0.68
35:DA:2728:U:O2'	35:DA:2729:G:H5'	1.94	0.68
50:DT:27:THR:O	50:DT:28:VAL:HB	1.94	0.68
38:BD:45:ASN:ND2	38:BD:46:GLN:H	1.92	0.68
38:DD:27:THR:C	38:DD:29:PRO:HD2	2.14	0.68
38:DD:92:ILE:HA	38:DD:107:ALA:H	1.59	0.68
36:DB:42:C:C6	41:DG:69:ALA:HB2	2.29	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2316:C:H1'	41:DG:128:ARG:HH12	1.58	0.68
41:DG:51:ARG:HH11	41:DG:53:LEU:HG	1.54	0.68
41:DG:60:LEU:HA	41:DG:63:ILE:CG1	2.24	0.68
52:BV:19:LYS:HE2	52:BV:19:LYS:HA	1.75	0.68
42:DH:149:ARG:HA	42:DH:162:ILE:HD11	1.76	0.68
1:AA:972:C:H4'	10:AJ:57:LYS:HG3	1.76	0.68
54:BX:60:ARG:HG3	54:BX:72:LYS:N	2.07	0.68
41:BG:153:ARG:NH1	41:BG:153:ARG:HG3	2.01	0.68
32:D6:10:LEU:CD1	34:D8:36:LYS:HD3	2.13	0.68
47:BQ:20:ALA:HB2	47:BQ:99:PRO:CG	2.24	0.68
35:BA:909:A:H1'	47:BQ:10:ARG:NH2	2.09	0.68
47:BQ:16:ARG:C	47:BQ:17:LEU:HD23	2.14	0.68
48:DR:12:ARG:HH11	48:DR:12:ARG:HG3	1.59	0.68
1:CA:741:G:H2'	1:CA:742:G:C8	2.28	0.68
35:DA:673:C:H5'	40:DF:54:ARG:HH12	1.59	0.68
25:AY:30:THR:C	25:AY:32:ARG:H	1.97	0.68
2:CB:102:LEU:HD12	2:CB:102:LEU:N	2.09	0.68
11:CK:103:LEU:CD2	11:CK:103:LEU:H	2.05	0.68
25:CY:38:LEU:HA	25:CY:41:LEU:CD1	2.23	0.68
8:AH:45:ILE:HA	8:AH:64:LYS:HB3	1.76	0.68
47:BQ:63:LYS:HA	56:BZ:178:GLU:OE1	1.93	0.68
16:CP:38:TYR:O	16:CP:49:LEU:HA	1.94	0.68
3:AC:79:ARG:NH1	11:CK:99:GLN:HB3	2.09	0.68
39:DE:103:ASP:OD2	39:DE:201:THR:HA	1.94	0.68
35:BA:2544:G:H2'	35:BA:2545:G:H8	1.59	0.68
35:BA:2814:C:H2'	35:BA:2815:C:H6	1.58	0.68
41:DG:2:PRO:HD2	41:DG:4:ASP:O	1.93	0.68
17:CQ:86:GLU:C	17:CQ:88:TYR:H	1.97	0.68
46:BP:90:ARG:HD2	46:BP:91:PHE:CD1	2.29	0.68
4:CD:189:PRO:HB2	4:CD:194:LEU:HD21	1.75	0.68
1:CA:624:C:H4'	16:CP:10:GLY:HA2	1.76	0.68
10:CJ:27:ALA:HB2	10:CJ:85:LEU:HD11	1.74	0.68
43:DI:23:PRO:HB3	43:DI:27:ARG:HH21	1.58	0.68
1:CA:1030:C:H2'	1:CA:1030(A):G:H5'	1.76	0.68
23:CW:7:G:H2'	23:CW:50:G:OP2	1.94	0.68
35:BA:979:G:H3'	35:BA:980:A:H5''	1.76	0.68
14:CN:27:CYS:HB3	14:CN:43:CYS:SG	2.33	0.67
38:BD:242:ARG:HG3	38:BD:242:ARG:HH11	1.58	0.67
38:DD:24:ILE:O	38:DD:24:ILE:HG23	1.93	0.67
41:DG:39:ILE:CG1	41:DG:157:ILE:HG22	2.24	0.67
41:DG:92:VAL:HG22	41:DG:93:THR:N	2.08	0.67

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:32:LEU:C	40:BF:32:LEU:HD23	2.15	0.67
35:BA:389:G:H1	46:BP:71:VAL:CG1	2.07	0.67
1:AA:1422:G:H2'	1:AA:1423:G:C8	2.29	0.67
1:AA:59:A:H5'	1:AA:60:A:H5''	1.75	0.67
48:BR:116:LEU:O	48:BR:117:VAL:HB	1.94	0.67
28:B2:30:ARG:HD2	28:B2:30:ARG:N	2.00	0.67
2:AB:187:LEU:C	2:AB:187:LEU:HD22	2.15	0.67
2:AB:187:LEU:HA	2:AB:201:ILE:HB	1.77	0.67
44:DN:30:ILE:HD13	44:DN:54:VAL:HG21	1.75	0.67
44:BN:30:ILE:O	44:BN:34:LEU:HB2	1.94	0.67
35:DA:833:U:H2'	35:DA:834:C:C6	2.29	0.67
35:DA:104:U:H2'	35:DA:105:C:O4'	1.94	0.67
6:AF:68:PRO:HG3	6:AF:71:ARG:NH2	2.08	0.67
16:AP:71:ARG:O	16:AP:74:LEU:HB2	1.93	0.67
1:CA:1457:G:H2'	1:CA:1458:G:H8	1.60	0.67
12:AL:66:VAL:HG23	12:AL:67:THR:O	1.93	0.67
11:CK:27:ASN:HA	11:CK:55:LYS:O	1.95	0.67
11:AK:65:ALA:HB3	11:AK:97:ALA:HB3	1.76	0.67
35:BA:933:A:H2'	35:BA:934:G:O4'	1.94	0.67
12:AL:46:LYS:HZ1	12:AL:47:LYS:HB2	1.58	0.67
31:B5:40:LYS:HE2	31:B5:46:CYS:CB	2.25	0.67
1:AA:562:C:H1'	12:AL:15:ARG:HB3	1.75	0.67
35:DA:1177:A:H5'	35:DA:1178:C:C6	2.30	0.67
46:DP:131:SER:HB2	46:DP:134:ALA:CB	2.24	0.67
46:DP:83:VAL:CG1	46:DP:112:LEU:HD21	2.25	0.67
35:BA:323:G:H2'	40:BF:169:ASN:ND2	2.09	0.67
38:DD:133:LEU:HA	38:DD:136:ILE:CD1	2.24	0.67
1:AA:1072:G:H2'	1:AA:1073:U:C6	2.29	0.67
13:CM:39:ILE:HD12	13:CM:56:LEU:HD23	1.75	0.67
1:AA:689:C:P	11:AK:46:GLY:HA3	2.33	0.67
1:AA:245:C:O2'	1:AA:246:A:H5'	1.94	0.67
35:DA:796:C:H2'	35:DA:797:C:C6	2.28	0.67
1:AA:696:A:H2'	1:AA:697:U:C6	2.29	0.67
1:CA:1288:A:H1'	1:CA:1352:C:O2'	1.94	0.67
36:BB:61:G:H2'	36:BB:62:C:C6	2.29	0.67
35:BA:2838:G:O2'	35:BA:2839:G:H5'	1.94	0.67
56:BZ:4:ARG:O	56:BZ:5:LEU:HG	1.94	0.67
52:BV:39:LEU:HD11	52:BV:53:GLU:N	2.08	0.67
49:DS:26:LEU:C	49:DS:88:ASP:HB3	2.14	0.67
35:DA:1190:G:H4'	46:DP:35:HIS:HB3	1.75	0.67
43:BI:4:ILE:HD13	43:BI:47:LEU:HD22	1.74	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1131:G:OP1	44:BN:80:GLY:HA2	1.95	0.67
35:BA:2020:A:O2'	35:BA:2021:C:H5'	1.94	0.67
9:CI:50:LEU:O	9:CI:53:VAL:HG22	1.94	0.67
17:CQ:67:LYS:HA	17:CQ:70:ARG:HH12	1.60	0.67
39:DE:173:VAL:HG12	39:DE:174:ASP:N	2.10	0.67
35:DA:2817:G:H21	35:DA:2836:U:C1'	2.06	0.67
38:BD:10:THR:HG23	38:BD:13:ARG:CB	2.25	0.67
44:BN:108:PRO:C	44:BN:109:LYS:HD3	2.15	0.67
6:AF:12:PRO:O	6:AF:14:LEU:N	2.27	0.67
35:DA:649:G:H2'	35:DA:650:C:C6	2.29	0.67
11:CK:59:TYR:O	11:CK:63:LEU:HG	1.95	0.67
53:BW:26:GLY:O	53:BW:27:LYS:HG3	1.94	0.67
36:BB:24:G:H4'	36:BB:25:A:C8	2.29	0.67
18:AR:19:LYS:O	18:AR:20:ALA:HB2	1.94	0.67
35:DA:1438:U:H2'	35:DA:1439:A:C8	2.30	0.67
3:AC:138:VAL:HG22	3:AC:151:VAL:HG23	1.76	0.67
35:DA:1908:C:H2'	35:DA:1909:C:H6	1.58	0.67
1:AA:357:G:OP1	1:AA:367:U:H5''	1.94	0.67
38:BD:24:ILE:HG23	38:BD:24:ILE:O	1.93	0.67
34:B8:25:MET:HB2	46:BP:62:LEU:HD11	1.77	0.67
35:BA:1345:C:O2'	35:BA:1346:G:H5'	1.94	0.67
54:BX:36:LYS:NZ	54:BX:39:ILE:HA	2.08	0.67
39:DE:77:ILE:CG2	39:DE:78:LEU:H	2.07	0.67
35:DA:142(A):C:H2'	35:DA:143:G:O4'	1.94	0.67
42:BH:89:ILE:HD11	42:BH:129:THR:HB	1.75	0.67
47:DQ:108:GLY:O	47:DQ:109:VAL:HG23	1.94	0.67
27:D1:58:ILE:HD12	27:D1:59:THR:N	2.04	0.67
27:D1:83:GLU:OE1	27:D1:86:SER:N	2.27	0.67
52:BV:75:PHE:CD1	52:BV:87:HIS:HB3	2.30	0.67
35:DA:2820:A:H62	39:DE:192:ASN:CB	2.08	0.67
48:BR:82:GLU:C	48:BR:85:PRO:HD2	2.15	0.67
26:B0:70:GLN:CG	26:B0:71:ASP:H	2.02	0.67
46:DP:146:VAL:HG22	46:DP:147:LEU:N	2.05	0.67
4:AD:201:GLN:HA	4:AD:204:ILE:HD12	1.76	0.67
1:CA:818:G:H3'	1:CA:819:A:C5'	2.24	0.67
1:AA:1375:A:H2'	1:AA:1376:U:H6	1.59	0.67
25:CY:129:ILE:HA	25:CY:132:ILE:HD12	1.75	0.67
25:CY:32:ARG:NE	25:CY:32:ARG:HA	2.08	0.67
25:AY:28:LEU:HB3	25:AY:114:LEU:HD11	1.76	0.67
33:B7:30:VAL:HG23	33:B7:31:LEU:H	1.59	0.67
8:AH:10:LEU:HD23	8:AH:10:LEU:H	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:82:HIS:HB3	8:CH:138:TRP:CE2	2.28	0.67
5:AE:109:ILE:HG22	5:AE:110:LEU:N	2.08	0.67
1:CA:1253:G:H5'	10:CJ:44:VAL:HG12	1.76	0.67
1:AA:1483:A:H2'	1:AA:1484:C:H5'	1.76	0.67
4:CD:128:VAL:HG12	4:CD:129:ASN:N	2.09	0.67
2:CB:22:LYS:HZ2	2:CB:22:LYS:HA	1.59	0.67
35:DA:853:G:H2'	35:DA:854:G:H8	1.59	0.67
3:AC:73:PRO:HA	3:AC:76:VAL:CG1	2.25	0.67
1:CA:439:A:C2	1:CA:441:A:H1'	2.28	0.67
38:BD:167:GLY:H	38:BD:174:ILE:HB	1.58	0.67
30:B4:45:GLY:C	30:B4:47:GLN:H	1.98	0.67
3:CC:181:ASN:ND2	3:CC:204:LEU:HB2	2.10	0.67
35:BA:1438:U:H2'	35:BA:1439:A:C8	2.29	0.67
1:CA:426:G:H4'	4:CD:41:GLY:O	1.94	0.67
35:BA:2808:U:C2'	35:BA:2809:A:H5'	2.23	0.67
52:BV:14:VAL:HG12	52:BV:15:GLU:H	1.60	0.67
10:AJ:49:VAL:CG1	14:AN:41:ARG:HB2	2.25	0.67
27:B1:83:GLU:HG3	27:B1:86:SER:N	2.08	0.67
41:BG:76:SER:HB3	41:BG:83:ARG:HB3	1.77	0.67
56:DZ:57:ILE:N	56:DZ:57:ILE:HD12	2.09	0.67
51:DU:92:ARG:HD2	52:DV:11:GLN:HG3	1.76	0.67
44:DN:70:LYS:O	44:DN:71:ILE:HD13	1.95	0.67
20:AT:80:ARG:O	20:AT:84:LEU:HB2	1.94	0.67
44:DN:57:ALA:O	44:DN:58:ASP:O	2.13	0.67
47:DQ:43:THR:OG1	47:DQ:46:GLN:HG3	1.93	0.67
35:DA:2028:U:H2'	35:DA:2029:G:C8	2.30	0.67
25:AY:150:SER:OG	25:AY:153:GLU:HG3	1.95	0.67
1:AA:920:U:H1'	1:AA:1080:A:H2	1.59	0.67
35:BA:1175:U:H4'	35:BA:1176:G:H3'	1.77	0.67
15:CO:15:PHE:HB2	15:CO:27:VAL:HG22	1.77	0.67
35:BA:322:A:P	40:BF:169:ASN:HB2	2.34	0.67
38:DD:130:ALA:HB1	38:DD:191:ALA:O	1.93	0.67
11:CK:65:ALA:HB3	11:CK:97:ALA:HB3	1.75	0.67
35:DA:2732:G:C3'	35:DA:2733:A:H5'	2.23	0.67
35:BA:680:G:H2'	35:BA:681:G:H8	1.56	0.67
1:CA:333:G:H4'	20:CT:16:HIS:CE1	2.29	0.67
4:AD:128:VAL:C	4:AD:130:GLY:H	1.96	0.67
35:BA:554:U:O2'	35:BA:555:U:H5'	1.95	0.67
13:AM:39:ILE:HD12	13:AM:56:LEU:HD23	1.76	0.67
26:B0:25:ARG:HB2	26:B0:37:LEU:HD23	1.77	0.67
1:AA:342:C:O2'	1:AA:343:U:H5'	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2521:C:N4	35:BA:2544:G:H1	1.92	0.67
1:CA:1090:U:H2'	1:CA:1091:U:C6	2.30	0.67
35:DA:1401:G:H2'	35:DA:1402:C:H6	1.59	0.67
35:DA:718:A:H3'	35:DA:719:C:C6	2.30	0.67
35:BA:1108:U:H2'	35:BA:1109:C:H5'	1.75	0.67
29:D3:36:VAL:O	29:D3:37:LEU:HD23	1.95	0.67
45:BO:4:PRO:O	45:BO:5:GLN:CB	2.42	0.67
1:CA:334:C:O2'	1:CA:335:C:H5'	1.94	0.67
45:DO:69:ILE:N	45:DO:69:ILE:HD12	2.09	0.67
38:BD:158:ALA:O	38:BD:161:THR:HG23	1.94	0.67
38:BD:223:GLY:O	38:BD:225:ALA:N	2.26	0.67
1:CA:1079:G:H2'	1:CA:1080:A:C8	2.29	0.67
35:DA:1792:G:P	38:DD:206:LEU:HB2	2.35	0.67
41:DG:140:ILE:HD12	41:DG:141:PHE:N	2.09	0.67
41:DG:51:ARG:CZ	41:DG:51:ARG:HA	2.24	0.67
56:BZ:138:GLU:H	56:BZ:138:GLU:CD	1.96	0.67
35:DA:2787:C:O2	39:DE:61:ARG:HD3	1.94	0.67
27:B1:68:PRO:O	27:B1:70:VAL:N	2.28	0.67
54:DX:53:LYS:NZ	54:DX:55:ASN:HD21	1.92	0.67
42:BH:88:LEU:HD21	42:BH:165:ALA:HA	1.76	0.67
35:BA:271(P):C:C5'	43:BI:46:ALA:HB2	2.19	0.67
35:BA:577:G:H2'	35:BA:578:A:C8	2.30	0.67
48:DR:97:VAL:HG22	48:DR:114:VAL:HG22	1.76	0.67
43:BI:71:ILE:HG13	43:BI:72:LEU:N	2.09	0.67
6:CF:69:GLU:O	6:CF:72:VAL:HG12	1.95	0.67
35:DA:1257:C:O2'	40:DF:84:VAL:HG23	1.95	0.67
35:DA:792:G:C5'	35:DA:793:A:H5'	2.25	0.67
35:DA:108:U:H2'	35:DA:109:G:H8	1.59	0.67
4:AD:33:MET:CE	4:AD:37:PRO:HA	2.25	0.67
1:CA:1402:C:H2'	1:CA:1403:C:O4'	1.94	0.67
1:CA:989:C:H42	1:CA:1217:C:H42	1.40	0.67
7:AG:86:GLN:CG	23:AW:33:C:H5'	2.25	0.67
1:AA:15:G:H4'	5:AE:24:ARG:NH2	2.10	0.67
8:AH:23:SER:HA	8:AH:63:LEU:CD2	2.24	0.67
9:AI:63:ILE:N	9:AI:63:ILE:HD12	2.09	0.67
1:AA:1195:C:H5''	1:AA:1196:U:OP2	1.94	0.67
35:BA:2472:G:H5'	35:BA:2473:U:H5''	1.76	0.67
31:B5:41:PRO:HG2	31:B5:44:THR:OG1	1.94	0.67
35:DA:779:U:H2'	35:DA:780:G:C8	2.30	0.67
40:BF:134:GLY:H	40:BF:162:LEU:HD11	1.59	0.67
1:CA:490:G:H2'	1:CA:491:G:H8	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:D0:39:ARG:HH21	35:DA:2355:C:H1'	1.57	0.67
20:CT:80:ARG:O	20:CT:84:LEU:HB2	1.94	0.67
2:AB:39:ILE:HG22	2:AB:40:HIS:O	1.95	0.67
1:CA:340:U:H2'	1:CA:341:C:H6	1.60	0.67
1:CA:294:U:H2'	1:CA:295:C:C6	2.30	0.67
37:DC:22:ILE:HG22	37:DC:25:ALA:HB2	1.75	0.67
3:CC:127:ARG:HG2	3:CC:127:ARG:HH11	1.57	0.67
45:DO:68:GLU:CD	45:DO:78:ARG:HH11	1.97	0.67
38:DD:242:ARG:HH11	38:DD:242:ARG:HG3	1.60	0.67
38:DD:34:VAL:O	38:DD:34:VAL:HG13	1.94	0.67
41:DG:73:ALA:O	41:DG:85:GLY:HA2	1.94	0.67
50:BT:83:ILE:HG13	50:BT:84:GLN:N	2.08	0.67
56:BZ:72:ARG:O	56:BZ:73:GLN:HB2	1.93	0.67
39:BE:65:GLY:O	39:BE:70:ALA:HB2	1.95	0.67
51:BU:83:LEU:CB	51:BU:88:ILE:HG12	2.24	0.67
54:BX:77:LYS:HE2	54:BX:78:LYS:HG3	1.77	0.67
39:DE:52:LEU:HD12	39:DE:53:PRO:HD2	1.76	0.67
35:DA:389:G:H1	46:DP:71:VAL:CG1	2.08	0.67
35:BA:2243:U:H2'	35:BA:2244:U:C6	2.30	0.67
52:BV:72:VAL:HA	52:BV:88:ARG:NH1	2.09	0.67
1:AA:331:G:OP1	1:AA:332:G:H5'	1.95	0.67
49:DS:17:ARG:HG3	49:DS:18:ILE:CD1	2.25	0.67
15:CO:54:ARG:HA	15:CO:57:LEU:HD12	1.77	0.67
2:CB:162:ILE:C	2:CB:162:ILE:HD12	2.15	0.67
46:DP:23:PRO:HD2	46:DP:33:ARG:CZ	2.24	0.67
46:DP:32:THR:O	46:DP:33:ARG:HB2	1.93	0.67
1:AA:990:C:H2'	1:AA:991:U:C6	2.30	0.67
12:AL:89:ARG:HH11	12:AL:90:VAL:N	1.93	0.67
46:DP:85:LEU:CD2	46:DP:85:LEU:H	2.06	0.67
35:BA:272(D):G:H1	35:BA:364:C:N4	1.93	0.67
35:BA:2830:G:H5'	39:BE:58:ARG:HH12	1.60	0.67
16:CP:28:ARG:HH11	16:CP:28:ARG:HG2	1.59	0.67
5:AE:102:ALA:HB1	5:AE:106:PRO:CG	2.25	0.67
1:CA:332:G:H2'	1:CA:333:G:H8	1.59	0.67
38:BD:130:ALA:HB1	38:BD:191:ALA:O	1.95	0.67
35:BA:1232:G:H2'	35:BA:1233:C:H6	1.59	0.67
23:CW:57:C:H2'	23:CW:58:A:C8	2.30	0.67
35:DA:795:C:H2'	35:DA:796:C:C6	2.30	0.67
1:CA:284:G:H2'	1:CA:285:G:H8	1.59	0.67
23:AW:54:G:O2'	23:AW:55:5MU:H5''	1.95	0.67
15:AO:61:GLY:O	15:AO:65:ARG:HD3	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:899:C:H6	1:CA:899:C:O5'	1.76	0.67
35:BA:703:U:H2'	35:BA:704:G:H5'	1.76	0.67
1:AA:189(D):C:H1'	1:AA:189(H):G:C2	2.30	0.67
35:BA:1531:C:H3'	35:BA:1532:C:C4'	2.25	0.67
41:DG:43:LEU:H	41:DG:43:LEU:CD1	2.08	0.67
10:CJ:6:ILE:HG22	10:CJ:98:ILE:HG13	1.77	0.67
35:BA:2893:G:H5'	35:BA:2894:G:C5'	2.15	0.67
54:BX:38:GLU:HB3	54:BX:41:ASN:HD21	1.59	0.67
39:DE:96:PHE:HA	39:DE:100:GLU:OE1	1.94	0.67
54:DX:38:GLU:HB3	54:DX:41:ASN:HD21	1.60	0.67
51:DU:90:VAL:HG22	52:DV:39:LEU:HD12	1.75	0.67
1:CA:1064:G:N2	1:CA:1190:G:H2'	2.10	0.67
27:D1:11:ARG:HB3	27:D1:12:PRO:HD2	1.77	0.67
6:CF:21:LEU:O	6:CF:25:ILE:HG12	1.94	0.67
4:AD:101:LEU:HD23	4:AD:121:VAL:HG13	1.76	0.67
35:DA:18:C:H2'	35:DA:19:C:C6	2.30	0.67
1:AA:1499:A:O2'	1:AA:1500:A:H5'	1.94	0.67
31:D5:41:PRO:HG2	31:D5:44:THR:OG1	1.93	0.67
5:AE:149:GLU:O	5:AE:153:LYS:HG2	1.94	0.67
7:CG:113:GLU:CG	7:CG:119:ARG:HG2	2.25	0.67
5:AE:96:PRO:HA	5:AE:117:ASP:OD2	1.95	0.67
1:AA:312:C:H2'	1:AA:313:A:C8	2.30	0.67
15:AO:54:ARG:HA	15:AO:57:LEU:HD12	1.76	0.67
35:DA:1707:G:H2'	35:DA:1708:C:C6	2.30	0.67
35:BA:1742:G:N7	35:BA:1743:C:C4	2.63	0.67
35:DA:1531:C:H3'	35:DA:1532:C:C4'	2.25	0.67
32:D6:40:CYS:HB2	32:D6:46:HIS:HE1	1.58	0.67
50:DT:3:ARG:HB3	50:DT:6:LEU:HB3	1.77	0.67
35:DA:2087:G:O2'	35:DA:2088:G:H5'	1.95	0.67
35:BA:1523:U:H2'	35:BA:1524:G:H8	1.60	0.67
50:DT:38:ASN:HD22	50:DT:40:THR:N	1.88	0.67
35:BA:631:A:O2'	46:BP:67:MET:HB3	1.95	0.67
50:BT:48:ILE:HD12	50:BT:48:ILE:N	2.10	0.67
47:BQ:65:PHE:O	47:BQ:66:ILE:HG23	1.94	0.67
42:DH:89:ILE:HD13	42:DH:89:ILE:N	2.10	0.67
14:AN:34:TYR:C	14:AN:36:PHE:H	1.97	0.67
34:D8:8:LYS:HB3	34:D8:12:LYS:HE3	1.77	0.67
35:BA:2222:G:O2'	35:BA:2223:G:H5'	1.93	0.67
44:DN:9:VAL:CG1	44:DN:39:ARG:HH22	2.06	0.67
1:CA:1190:G:H3'	3:CC:3:ASN:OD1	1.95	0.67
44:BN:91:LEU:HA	44:BN:95:PRO:HB3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DN:91:LEU:HA	44:DN:95:PRO:HB3	1.77	0.67
48:DR:55:ALA:HB2	48:DR:79:LEU:HD12	1.75	0.67
48:DR:9:LYS:O	48:DR:10:LEU:CG	2.42	0.67
35:BA:2820:A:C8	39:BE:191:PRO:HB2	2.29	0.67
2:CB:187:LEU:HA	2:CB:201:ILE:HB	1.77	0.67
2:CB:33:TYR:HD1	2:CB:43:ASP:HA	1.58	0.67
35:DA:78:A:H2'	35:DA:79:G:C8	2.29	0.67
4:AD:65:ARG:HD2	4:AD:70:ILE:O	1.94	0.67
18:AR:67:ALA:HA	18:AR:70:ILE:HD12	1.77	0.67
46:BP:146:VAL:HG22	46:BP:147:LEU:N	2.05	0.67
11:CK:88:GLY:O	11:CK:91:ARG:HB2	1.96	0.67
47:BQ:82:ARG:HG2	47:BQ:82:ARG:HH11	1.59	0.67
1:AA:1340:A:O2'	22:AV:31:U:H5'	1.94	0.67
8:AH:119:LEU:HG	8:AH:124:ALA:HB2	1.75	0.67
8:AH:127:LEU:O	8:AH:127:LEU:HD13	1.95	0.67
1:AA:1079:G:H2'	1:AA:1080:A:C8	2.30	0.67
35:DA:743:G:O2'	35:DA:744:G:H5'	1.95	0.67
8:CH:11:THR:CG2	8:CH:14:ARG:HH12	2.06	0.67
31:B5:45:VAL:HG22	31:B5:51:TYR:CD1	2.29	0.67
29:B3:7:LYS:O	29:B3:54:VAL:HG13	1.95	0.67
12:CL:46:LYS:HZ1	12:CL:47:LYS:HB2	1.59	0.67
46:DP:95:VAL:CG2	46:DP:125:VAL:HB	2.25	0.67
35:DA:1946:U:O2'	35:DA:1947:C:H5'	1.95	0.67
4:CD:191:ARG:HH12	4:CD:195:ALA:HA	1.59	0.67
35:DA:718:A:H3'	35:DA:719:C:H6	1.58	0.67
25:AY:112:LYS:O	25:AY:116:ARG:HG3	1.95	0.67
35:DA:1108:U:H2'	35:DA:1109:C:H5'	1.75	0.67
47:DQ:131:ILE:N	47:DQ:131:ILE:HD13	2.10	0.67
6:CF:43:LEU:H	6:CF:43:LEU:HD12	1.60	0.67
35:DA:1935:G:H3'	35:DA:1962:C:H42	1.58	0.67
13:CM:75:ALA:O	13:CM:79:LYS:HG3	1.95	0.67
1:CA:532:A:H2	1:CA:1207:G:O4'	1.78	0.66
10:CJ:49:VAL:CG1	14:CN:41:ARG:HB2	2.24	0.66
35:DA:1899:G:N2	35:DA:1902:C:N4	2.43	0.66
38:DD:206:LEU:HA	38:DD:211:ARG:HH12	1.58	0.66
41:DG:93:THR:O	41:DG:94:LEU:HD23	1.94	0.66
34:B8:43:GLN:C	34:B8:44:LYS:HD2	2.16	0.66
1:AA:962:C:H2'	1:AA:963:G:H8	1.58	0.66
39:DE:105:THR:OG1	39:DE:166:THR:HG22	1.94	0.66
39:DE:4:ILE:CG1	39:DE:28:ALA:HB1	2.25	0.66
27:B1:87:PRO:C	27:B1:89:GLU:N	2.46	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:5:VAL:HG11	41:BG:104:GLU:OE2	1.95	0.66
54:DX:55:ASN:HB2	54:DX:77:LYS:HD2	1.75	0.66
34:D8:32:LEU:HB3	34:D8:35:GLN:H	1.58	0.66
40:BF:28:ILE:HG22	40:BF:112:MET:HB3	1.76	0.66
27:D1:88:LYS:O	27:D1:92:LYS:N	2.27	0.66
1:AA:59:A:H5'	1:AA:60:A:C5'	2.24	0.66
48:BR:55:ALA:HB2	48:BR:79:LEU:HD12	1.77	0.66
2:AB:54:THR:HG21	2:AB:201:ILE:HD11	1.75	0.66
2:CB:194:PRO:O	2:CB:196:LEU:N	2.29	0.66
35:DA:2443:C:O2'	35:DA:2444:G:H5'	1.95	0.66
16:AP:5:ARG:C	16:AP:6:LEU:HD12	2.16	0.66
25:AY:14:MET:HE1	25:AY:165:THR:HG23	1.77	0.66
11:CK:44:SER:OG	11:CK:47:VAL:HG23	1.94	0.66
35:BA:465:G:H2'	35:BA:466:A:C8	2.29	0.66
2:CB:104:ASN:OD1	2:CB:107:THR:HB	1.95	0.66
43:DI:38:LEU:HB2	43:DI:40:THR:HG23	1.75	0.66
46:DP:90:ARG:HD2	46:DP:91:PHE:CD1	2.29	0.66
42:BH:13:LYS:C	42:BH:15:VAL:H	1.98	0.66
35:DA:779:U:H2'	35:DA:780:G:H8	1.60	0.66
46:DP:79:ARG:HH21	46:DP:109:GLY:CA	2.06	0.66
46:BP:95:VAL:CG2	46:BP:125:VAL:HB	2.25	0.66
1:CA:377:G:OP1	16:CP:3:LYS:HD3	1.95	0.66
38:DD:142:VAL:HG23	38:DD:192:THR:C	2.16	0.66
1:CA:679:C:O2'	1:CA:680:C:H5'	1.95	0.66
35:DA:323:G:C2'	40:DF:169:ASN:HD21	2.08	0.66
38:BD:144:ALA:HB3	38:BD:192:THR:CG2	2.25	0.66
1:AA:1253:G:H2'	1:AA:1254:C:C6	2.30	0.66
35:BA:1713:U:O2'	35:BA:1714:G:H5'	1.95	0.66
1:AA:160:A:H1'	1:AA:344:A:N7	2.10	0.66
10:CJ:27:ALA:CB	10:CJ:85:LEU:HD11	2.24	0.66
30:D4:45:GLY:C	30:D4:47:GLN:H	1.97	0.66
33:D7:13:ALA:O	33:D7:17:GLY:HA3	1.94	0.66
3:CC:152:ILE:HA	3:CC:166:GLU:O	1.95	0.66
1:AA:1046:A:H3'	1:AA:1047:G:H8	1.60	0.66
23:AW:7:G:H5'	23:AW:8:U:H5	1.59	0.66
35:BA:603:A:H4'	35:BA:604:G:O5'	1.94	0.66
35:BA:608:A:OP1	40:BF:100:THR:HG21	1.95	0.66
25:CY:43:VAL:O	25:CY:49:HIS:HA	1.95	0.66
45:DO:61:VAL:HG22	45:DO:62:VAL:O	1.95	0.66
50:DT:28:VAL:CG2	50:DT:47:GLY:H	2.03	0.66
35:DA:1778:U:C5	35:DA:1784:A:C4	2.82	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:25:THR:CG2	38:DD:82:ILE:H	2.08	0.66
38:DD:25:THR:HG22	38:DD:82:ILE:O	1.95	0.66
50:BT:118:ARG:O	50:BT:121:ILE:HG22	1.95	0.66
14:AN:27:CYS:HB3	14:AN:43:CYS:SG	2.34	0.66
55:DY:76:CYS:O	55:DY:78:ALA:N	2.28	0.66
35:DA:559:G:N2	51:DU:49:HIS:CD2	2.63	0.66
51:DU:105:VAL:O	51:DU:109:LEU:HG	1.95	0.66
4:CD:22:LYS:HB2	4:CD:26:CYS:CB	2.20	0.66
40:BF:2:LYS:O	40:BF:25:PRO:HD2	1.95	0.66
27:D1:46:LEU:CD1	27:D1:46:LEU:H	1.99	0.66
55:BY:87:LYS:HG3	55:BY:89:PHE:N	2.06	0.66
35:BA:2845:G:O2'	35:BA:2846:G:H5'	1.95	0.66
49:DS:62:LYS:HD3	49:DS:62:LYS:N	2.10	0.66
27:D1:37:ILE:HD12	35:DA:2080:G:O5'	1.94	0.66
47:BQ:108:GLY:O	47:BQ:109:VAL:HG23	1.94	0.66
6:CF:9:VAL:C	6:CF:10:LEU:HD12	2.15	0.66
4:AD:13:ARG:HD3	4:AD:38:TYR:O	1.95	0.66
47:DQ:10:ARG:HD3	47:DQ:12:GLN:HB3	1.75	0.66
25:AY:7:TYR:OH	25:AY:157:ALA:HA	1.94	0.66
43:BI:133:HIS:O	43:BI:135:GLU:HG3	1.94	0.66
35:BA:108:U:H2'	35:BA:109:G:C8	2.30	0.66
7:AG:152:ALA:C	7:AG:154:TYR:H	1.97	0.66
1:AA:1116:C:C3'	1:AA:1117:G:H5''	2.25	0.66
11:CK:65:ALA:O	11:CK:68:ALA:HB3	1.95	0.66
1:CA:1488:G:H2'	1:CA:1489:G:C8	2.30	0.66
35:DA:2830:G:H5'	39:DE:58:ARG:HH22	1.61	0.66
38:DD:95:LEU:HD12	38:DD:103:ARG:O	1.92	0.66
17:AQ:69:LYS:C	17:AQ:70:ARG:HD2	2.15	0.66
35:DA:2115:G:H4'	35:DA:2166:G:N2	2.09	0.66
1:CA:59:A:H5'	1:CA:60:A:C5'	2.26	0.66
3:AC:83:ARG:O	3:AC:87:LEU:HG	1.95	0.66
47:BQ:30:GLY:CA	47:BQ:107:ALA:HB2	2.24	0.66
25:CY:45:TYR:HB2	25:CY:78:ALA:HB1	1.75	0.66
3:CC:23:TYR:HA	10:CJ:11:PHE:CE1	2.31	0.66
35:DA:1742:G:N7	35:DA:1743:C:C4	2.63	0.66
35:DA:2037:G:H2'	35:DA:2038:G:C8	2.30	0.66
36:DB:60:C:H2'	36:DB:61:G:H8	1.61	0.66
45:DO:1:MET:H3	45:DO:1:MET:HE2	1.60	0.66
10:CJ:50:ILE:HA	10:CJ:60:ARG:HG2	1.78	0.66
35:BA:1819:A:OP1	38:BD:161:THR:HG21	1.95	0.66
38:DD:25:THR:O	38:DD:26:LYS:HD2	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:94:LEU:N	38:DD:94:LEU:HD12	2.06	0.66
45:BO:69:ILE:HD12	45:BO:69:ILE:N	2.11	0.66
50:BT:53:ARG:HG2	50:BT:53:ARG:HH11	1.58	0.66
35:BA:558:G:H2'	35:BA:559:G:H8	1.58	0.66
52:BV:61:VAL:HG12	52:BV:62:LEU:N	2.11	0.66
28:B2:14:ARG:NE	28:B2:14:ARG:N	2.43	0.66
54:BX:80:ILE:O	54:BX:81:VAL:HB	1.94	0.66
35:BA:2774:C:H2'	35:BA:2775:A:C8	2.31	0.66
49:BS:25:ARG:NH2	49:BS:89:ARG:HH12	1.91	0.66
49:BS:54:LEU:HD13	49:BS:58:LEU:O	1.96	0.66
35:BA:1456:G:H2'	35:BA:1457:A:C8	2.30	0.66
6:CF:18:GLN:O	6:CF:21:LEU:HB2	1.95	0.66
3:CC:164:ARG:HB2	3:CC:164:ARG:NH1	2.06	0.66
1:CA:1405:G:N2	1:CA:1517:G:H22	1.93	0.66
25:CY:131:ASN:O	25:CY:132:ILE:C	2.33	0.66
20:CT:41:ILE:C	20:CT:43:LEU:H	1.97	0.66
25:AY:101:ILE:H	25:AY:101:ILE:HD12	1.61	0.66
35:BA:2259:G:H1'	35:BA:2427:C:C2	2.30	0.66
1:CA:1073:U:H2'	1:CA:1074:G:C8	2.29	0.66
8:AH:20:TYR:CE2	8:AH:75:ARG:HB3	2.30	0.66
5:AE:144:THR:O	5:AE:148:VAL:HG23	1.96	0.66
54:DX:25:LYS:NZ	54:DX:87:GLN:N	2.38	0.66
9:CI:77:ILE:O	9:CI:81:ILE:HG12	1.95	0.66
33:D7:9:ARG:NH1	35:DA:1309:G:H3'	2.10	0.66
56:BZ:110:GLY:O	56:BZ:111:VAL:HG12	1.95	0.66
14:AN:8:GLU:CB	14:AN:12:ARG:HH11	2.09	0.66
23:AW:1:C:O2'	23:AW:2:G:H5'	1.95	0.66
35:BA:377:C:H2'	35:BA:378:C:H6	1.60	0.66
40:DF:9:ILE:HG12	40:DF:14:PRO:HA	1.75	0.66
35:BA:271(V):G:H2'	35:BA:271(W):G:O4'	1.95	0.66
3:AC:84:ILE:HD11	3:AC:88:ARG:HH21	1.60	0.66
35:BA:2781:A:H5''	35:BA:2782:G:H5'	1.77	0.66
22:AV:34:A:H2'	22:AV:35:A:H8	1.58	0.66
17:AQ:86:GLU:C	17:AQ:88:TYR:H	1.96	0.66
1:CA:425:G:H2'	1:CA:426:G:H8	1.61	0.66
35:BA:2485:G:O2'	35:BA:2486:G:H5'	1.96	0.66
1:AA:484:G:H4'	1:AA:485:G:O5'	1.95	0.66
35:DA:2485:G:O2'	35:DA:2486:G:H5'	1.96	0.66
1:CA:671:G:O2'	1:CA:672:U:H5'	1.94	0.66
50:DT:42:ILE:HG13	50:DT:42:ILE:O	1.94	0.66
50:DT:107:ASP:OD1	50:DT:109:GLU:HB2	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DT:27:THR:OG1	50:DT:87:ASP:HA	1.94	0.66
38:BD:268:ARG:HH11	38:BD:268:ARG:HB2	1.61	0.66
38:BD:34:VAL:O	38:BD:34:VAL:HG13	1.95	0.66
42:DH:89:ILE:HD11	42:DH:129:THR:HB	1.76	0.66
54:BX:53:LYS:NZ	54:BX:55:ASN:HD21	1.93	0.66
54:DX:60:ARG:HG3	54:DX:72:LYS:N	2.09	0.66
56:DZ:58:VAL:HG22	56:DZ:68:PRO:HA	1.77	0.66
1:AA:1203:C:OP1	14:AN:3:ARG:HD2	1.95	0.66
14:CN:4:LYS:O	14:CN:7:ILE:HG12	1.95	0.66
27:D1:87:PRO:HB2	27:D1:91:LYS:HZ2	1.61	0.66
48:DR:18:LEU:HD11	48:DR:22:ARG:NH2	2.11	0.66
48:DR:63:ARG:O	48:DR:67:LEU:HD23	1.94	0.66
1:AA:60:A:P	1:AA:60:A:H8	2.17	0.66
6:AF:39:LYS:HG2	6:AF:40:VAL:H	1.60	0.66
42:DH:44:VAL:HG12	42:DH:45:VAL:H	1.61	0.66
13:CM:91:ARG:CB	13:CM:98:VAL:HG22	2.26	0.66
12:AL:86:ARG:HG2	12:AL:87:GLY:N	2.11	0.66
35:BA:2389:G:H5''	35:BA:2390:U:O4'	1.96	0.66
1:AA:639:G:O2'	1:AA:640:A:H5'	1.96	0.66
35:BA:2529:G:OP2	35:BA:2530:A:H5''	1.95	0.66
35:BA:2745:C:H2'	35:BA:2746:U:C6	2.30	0.66
10:CJ:40:LEU:HB2	10:CJ:41:PRO:HD2	1.76	0.66
35:BA:1177:A:H5'	35:BA:1178:C:C6	2.29	0.66
35:BA:1613:G:H2'	35:BA:1617:C:N4	2.10	0.66
7:AG:65:ALA:O	7:AG:69:VAL:HG23	1.95	0.66
17:CQ:68:ARG:N	17:CQ:70:ARG:NH1	2.43	0.66
26:D0:25:ARG:HA	26:D0:29:GLN:NE2	2.10	0.66
53:DW:75:TYR:N	53:DW:75:TYR:HD1	1.93	0.66
1:AA:943:U:O5'	1:AA:943:U:H6	1.79	0.66
25:CY:73:GLN:HB2	25:CY:77:LYS:NZ	2.10	0.66
2:CB:137:ARG:HH11	2:CB:137:ARG:HG2	1.61	0.66
35:DA:1547:C:O2'	35:DA:1548:C:H5'	1.95	0.66
1:AA:148:G:O2'	1:AA:149:A:H5'	1.95	0.66
47:DQ:30:GLY:CA	47:DQ:107:ALA:HB2	2.24	0.66
1:AA:818:G:H3'	1:AA:819:A:C5'	2.25	0.66
35:DA:892:G:H1	35:DA:894:C:N4	1.93	0.66
35:BA:1193:G:H2'	35:BA:1194:A:O4'	1.94	0.66
35:DA:703:U:C2'	35:DA:704:G:H5'	2.26	0.66
31:B5:4:HIS:O	35:BA:2056:G:N2	2.28	0.66
56:DZ:61:LEU:HB2	56:DZ:65:GLN:HB2	1.78	0.66
1:AA:54:C:H41	1:AA:352:C:H2'	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:37:VAL:HA	6:CF:65:VAL:HG12	1.77	0.66
3:AC:152:ILE:HA	3:AC:166:GLU:O	1.96	0.66
35:BA:449:A:O2'	35:BA:450:G:H5'	1.96	0.66
45:DO:1:MET:HG3	45:DO:32:TYR:HD2	1.60	0.66
45:DO:68:GLU:HB3	45:DO:78:ARG:HD3	1.78	0.66
35:BA:1902:C:H4'	38:BD:244:ARG:HB2	1.76	0.66
38:BD:27:THR:C	38:BD:29:PRO:HD2	2.16	0.66
16:CP:22:THR:HG22	16:CP:32:TYR:HA	1.78	0.66
35:BA:1665:A:H2'	35:BA:1666:G:O4'	1.95	0.66
56:BZ:39:VAL:HG21	56:BZ:44:PHE:HD2	1.61	0.66
39:BE:49:LEU:HD22	39:BE:49:LEU:N	2.09	0.66
1:AA:1064:G:N2	1:AA:1190:G:H2'	2.10	0.66
51:DU:92:ARG:HG3	51:DU:94:ASN:HB3	1.75	0.66
10:AJ:6:ILE:HA	10:AJ:97:GLU:O	1.95	0.66
1:AA:995:C:O2	14:AN:4:LYS:HE2	1.94	0.66
36:BB:7:G:H3'	36:BB:8:U:C5'	2.23	0.66
44:BN:70:LYS:O	44:BN:71:ILE:HD13	1.96	0.66
40:BF:41:LEU:HD11	40:BF:184:TYR:HE1	1.61	0.66
40:BF:52:LYS:HD3	40:BF:57:VAL:HA	1.76	0.66
3:AC:109:PRO:HA	3:AC:115:LEU:CD1	2.26	0.66
1:AA:1434:A:O2'	1:AA:1435:G:H5'	1.94	0.66
50:BT:100:TYR:HD2	50:BT:103:ARG:CZ	2.08	0.66
6:CF:72:VAL:HG13	6:CF:73:ASN:N	2.10	0.66
40:DF:67:GLN:O	40:DF:68:LYS:HG2	1.94	0.66
1:CA:817:C:H42	1:CA:1529:G:H1	1.43	0.66
25:CY:4:LYS:HA	25:CY:4:LYS:HE3	1.77	0.66
50:DT:10:VAL:C	50:DT:12:SER:N	2.45	0.66
1:AA:552:U:O2'	1:AA:553:A:H5'	1.94	0.66
35:DA:2259:G:H1'	35:DA:2427:C:C2	2.30	0.66
5:AE:12:LEU:HD11	5:AE:31:LEU:HD13	1.77	0.66
1:AA:523:A:N1	12:AL:92:ASP:HB2	2.11	0.66
2:AB:100:GLY:HA2	2:AB:103:THR:HB	1.78	0.66
8:AH:82:HIS:HB3	8:AH:138:TRP:CE2	2.30	0.66
14:CN:8:GLU:CB	14:CN:12:ARG:HH11	2.08	0.66
32:B6:13:CYS:HB3	32:B6:49:HIS:HB3	1.76	0.66
26:D0:36:ILE:HD11	35:DA:2355:C:C4'	2.26	0.66
35:DA:2795:G:N3	35:DA:2795:G:H2'	2.10	0.66
5:CE:78:HIS:CE1	5:CE:143:ARG:H	2.11	0.66
23:CW:17:C:C4'	23:CW:62:C:H5'	2.26	0.66
53:BW:26:GLY:HA2	53:BW:71:VAL:O	1.95	0.66
4:AD:12:CYS:SG	4:AD:19:LEU:O	2.54	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:CS:22:LEU:O	19:CS:22:LEU:HD13	1.95	0.66
50:DT:80:SER:CB	50:DT:81:PRO:CD	2.65	0.66
10:CJ:62:HIS:H	10:CJ:62:HIS:CD2	2.11	0.66
38:BD:209:ALA:O	38:BD:212:SER:HB3	1.94	0.66
35:DA:1568:G:H5''	38:DD:61:LEU:HB2	1.78	0.66
41:DG:44:GLY:C	41:DG:46:ALA:H	1.99	0.66
35:BA:2723:C:C2'	35:BA:2724:C:H5'	2.26	0.66
1:AA:1191:A:H5''	3:AC:4:LYS:HZ3	1.60	0.66
39:DE:65:GLY:O	39:DE:70:ALA:HB2	1.94	0.66
28:D2:52:ASP:O	28:D2:56:GLN:HG2	1.96	0.66
3:CC:112:SER:HB3	3:CC:115:LEU:HD12	1.77	0.66
4:CD:17:VAL:HG12	4:CD:18:LYS:N	2.10	0.66
43:DI:88:ILE:CG2	43:DI:89:TYR:N	2.58	0.66
40:BF:6:VAL:HG23	40:BF:125:LEU:H	1.59	0.66
35:BA:581:C:H2'	35:BA:582:G:C8	2.30	0.66
52:DV:72:VAL:HA	52:DV:88:ARG:NH1	2.10	0.66
4:AD:134:ASP:O	4:AD:136:PRO:HD3	1.96	0.66
3:AC:173:VAL:O	3:AC:175:LEU:N	2.28	0.66
33:B7:7:PRO:HB2	35:BA:1309:G:H4'	1.77	0.66
31:D5:40:LYS:HE2	31:D5:46:CYS:N	2.09	0.66
35:DA:1175:U:H4'	35:DA:1176:G:H3'	1.77	0.66
35:DA:543:C:N4	35:DA:551:G:H1	1.93	0.66
38:DD:79:VAL:HG12	38:DD:113:VAL:HA	1.77	0.66
38:DD:131:LEU:CD1	38:DD:136:ILE:HG12	2.26	0.66
35:BA:2186:G:C3'	35:BA:2187:G:H5''	2.26	0.66
35:BA:2014:A:H4'	53:BW:94:ASP:OD1	1.95	0.66
39:DE:133:LYS:C	39:DE:134:ILE:HD13	2.15	0.66
35:BA:860:U:C5	35:BA:917:A:N7	2.64	0.66
28:D2:30:ARG:CZ	28:D2:30:ARG:HB3	2.26	0.66
35:DA:2101:G:C2	35:DA:2102:U:H1'	2.31	0.66
35:BA:189:G:H2'	35:BA:205:G:N2	2.10	0.66
1:CA:243:A:H4'	1:CA:244:U:O5'	1.96	0.66
44:DN:3:THR:HG22	44:DN:5:VAL:CG2	2.25	0.66
53:DW:5:ALA:HB2	53:DW:54:ALA:HB2	1.77	0.66
35:DA:979:G:H3'	35:DA:980:A:H5''	1.76	0.66
37:BC:22:ILE:HG22	37:BC:25:ALA:HB2	1.76	0.66
1:CA:189(D):C:H1'	1:CA:189(H):G:C2	2.30	0.66
1:CA:484:G:H4'	1:CA:485:G:O5'	1.95	0.66
6:AF:43:LEU:H	6:AF:43:LEU:HD12	1.60	0.66
35:DA:2881:C:H2'	35:DA:2882:A:H8	1.60	0.66
35:DA:2562:U:C2'	35:DA:2563:U:H5'	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2715:C:H2'	35:DA:2716:U:H6	1.60	0.66
35:DA:2864:G:H8	35:DA:2864:G:H5'	1.61	0.66
41:DG:76:SER:CB	41:DG:84:LYS:H	2.08	0.66
41:DG:76:SER:HB3	41:DG:83:ARG:CA	2.26	0.66
56:BZ:119:GLU:HG3	56:BZ:119:GLU:O	1.96	0.66
54:BX:82:GLN:CG	54:BX:83:VAL:H	2.08	0.66
54:DX:60:ARG:HG2	54:DX:74:PRO:CD	2.25	0.66
42:BH:149:ARG:HG3	42:BH:162:ILE:HD11	1.77	0.66
35:BA:2772:C:H2'	35:BA:2773:C:C6	2.31	0.66
56:DZ:30:ASN:C	56:DZ:32:HIS:H	1.99	0.66
35:BA:2570:G:H2'	35:BA:2571:C:C6	2.30	0.66
35:DA:2243:U:H2'	35:DA:2244:U:C6	2.30	0.66
44:BN:26:LEU:CG	44:BN:30:ILE:HD11	2.26	0.66
15:CO:30:ALA:O	15:CO:33:THR:HB	1.94	0.66
34:D8:22:VAL:HG21	34:D8:56:GLU:HB2	1.76	0.66
46:DP:23:PRO:HD2	46:DP:33:ARG:NH1	2.10	0.66
1:AA:976:G:H22	1:AA:1362:C:H2'	1.59	0.66
35:DA:581:C:H2'	35:DA:582:G:C8	2.27	0.66
20:CT:100:ILE:HG22	20:CT:102:GLY:H	1.61	0.66
8:CH:119:LEU:HG	8:CH:124:ALA:HB2	1.77	0.66
23:AW:40:C:H2'	23:AW:41:C:C6	2.31	0.66
1:AA:954:G:H2'	1:AA:955:U:C6	2.30	0.66
1:AA:1392:G:H21	1:AA:1502:A:H8	1.42	0.66
1:AA:1507:A:C2	1:AA:1530:G:C1'	2.79	0.66
9:AI:28:VAL:CG1	9:AI:64:THR:HA	2.25	0.66
31:B5:46:CYS:HB3	31:B5:48:GLU:OE2	1.96	0.66
35:BA:2752:C:H5	35:BA:2753:A:H62	1.42	0.66
38:BD:121:PRO:HB3	38:BD:135:PHE:CE2	2.31	0.66
16:CP:71:ARG:O	16:CP:74:LEU:HB2	1.95	0.66
35:DA:493:G:C3'	35:DA:494:G:H5''	2.25	0.66
38:DD:142:VAL:HG23	38:DD:193:VAL:CA	2.24	0.66
56:BZ:17:ALA:O	56:BZ:20:ARG:HB3	1.96	0.66
35:BA:1771:C:H2'	35:BA:1772:G:C8	2.30	0.66
1:AA:1073:U:H2'	1:AA:1074:G:C8	2.30	0.66
35:BA:17:G:H4'	51:BU:25:TRP:CZ3	2.30	0.66
1:CA:60:A:H8	1:CA:60:A:P	2.18	0.66
35:BA:2777:G:C5'	35:BA:2778:A:H5'	2.25	0.66
26:B0:77:ARG:NH2	35:BA:857:C:H5'	2.10	0.66
2:CB:25:ASN:OD1	2:CB:27:LYS:HB2	1.95	0.66
35:DA:268:C:N4	35:DA:424:G:H1	1.94	0.66
1:AA:160:A:H1'	1:AA:344:A:C8	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:741:G:H2'	1:AA:742:G:C8	2.30	0.66
1:CA:1096:C:H5''	2:CB:137:ARG:HH22	1.60	0.66
1:CA:160:A:H1'	1:CA:344:A:C8	2.31	0.66
4:AD:189:PRO:HB2	4:AD:194:LEU:HD21	1.78	0.66
35:DA:882:G:H22	35:DA:895:U:H3	1.44	0.66
1:CA:627:G:H2'	1:CA:628:G:H8	1.59	0.66
31:B5:15:ARG:O	31:B5:18:ALA:HB3	1.96	0.66
53:BW:1:MET:HG3	53:BW:2:GLU:H	1.61	0.66
56:BZ:9:TYR:OH	56:BZ:35:ARG:HG3	1.96	0.66
35:BA:265:A:H1'	35:BA:266:G:O4'	1.95	0.66
35:DA:1324:G:H3'	35:DA:1325:G:H4'	1.75	0.66
7:CG:49:ILE:O	7:CG:49:ILE:HG22	1.95	0.66
45:DO:104:ARG:HH12	50:DT:35:LYS:HD3	1.59	0.66
41:DG:76:SER:O	41:DG:77:ILE:HG23	1.95	0.66
46:BP:62:LEU:N	46:BP:62:LEU:HD13	2.11	0.66
51:BU:92:ARG:HG3	51:BU:94:ASN:HB3	1.78	0.66
52:BV:19:LYS:HG3	52:BV:20:LEU:N	2.11	0.66
9:AI:114:TYR:N	9:AI:114:TYR:HD2	1.92	0.66
52:DV:61:VAL:HG12	52:DV:62:LEU:N	2.10	0.66
10:AJ:5:ARG:HA	10:AJ:73:ASP:OD1	1.95	0.66
49:BS:87:PHE:CG	49:BS:88:ASP:N	2.62	0.66
27:D1:85:LEU:C	27:D1:87:PRO:HD3	2.17	0.66
34:D8:40:GLU:OE1	34:D8:44:LYS:HE3	1.96	0.66
3:CC:15:THR:CG2	3:CC:16:ARG:HH12	2.04	0.66
35:BA:2079:U:H3	35:BA:2241:A:H61	1.44	0.66
51:BU:6:THR:O	51:BU:8:VAL:N	2.22	0.66
49:DS:28:VAL:HG12	49:DS:29:PHE:N	2.05	0.66
6:CF:62:TRP:CZ2	6:CF:64:GLN:HB2	2.30	0.66
4:AD:200:GLU:O	4:AD:204:ILE:HG13	1.95	0.66
6:AF:69:GLU:O	6:AF:72:VAL:HG12	1.95	0.66
25:CY:131:ASN:O	25:CY:134:ARG:N	2.28	0.66
21:CU:8:THR:O	21:CU:12:LYS:HB2	1.96	0.66
25:AY:14:MET:HA	25:AY:132:ILE:HD13	1.76	0.66
35:BA:78:A:H2'	35:BA:79:G:C8	2.31	0.66
35:DA:926:A:H2'	35:DA:927:G:H8	1.60	0.66
1:AA:1504:G:H3'	1:AA:1504:G:P	2.35	0.66
8:CH:23:SER:HA	8:CH:63:LEU:CD2	2.21	0.66
35:BA:543:C:N4	35:BA:551:G:H1	1.94	0.66
16:CP:6:LEU:HB3	16:CP:17:TYR:HD2	1.59	0.66
1:CA:1422:G:H4'	45:DO:49:ARG:HH12	1.59	0.66
40:DF:129:PHE:HA	40:DF:142:TRP:NE1	2.10	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DF:150:GLY:HA2	40:DF:172:TRP:CE3	2.30	0.66
27:D1:19:GLN:HE21	35:DA:379:G:H21	1.42	0.66
3:CC:83:ARG:O	3:CC:87:LEU:HG	1.96	0.66
35:BA:2777:G:C4'	35:BA:2778:A:H5'	2.26	0.66
3:AC:181:ASN:ND2	3:AC:204:LEU:HB2	2.11	0.66
1:CA:1472:U:O2'	1:CA:1473:A:H5'	1.95	0.66
2:CB:31:TYR:N	2:CB:31:TYR:CD2	2.62	0.66
1:CA:148:G:O2'	1:CA:149:A:H5'	1.95	0.66
1:CA:160:A:H1'	1:CA:344:A:N7	2.10	0.66
23:AW:64:G:H2'	23:AW:65:G:H8	1.60	0.66
35:DA:703:U:H2'	35:DA:704:G:H5'	1.76	0.66
8:AH:18:ARG:N	8:AH:78:GLN:NE2	2.44	0.66
43:DI:28:ASN:O	43:DI:32:PRO:HG2	1.95	0.66
35:BA:1991:U:H2'	35:BA:1992:G:C5'	2.26	0.66
35:BA:2866:U:C6	35:BA:2868:A:H1'	2.31	0.66
56:BZ:97:GLU:O	56:BZ:98:MET:HB3	1.96	0.66
28:D2:52:ASP:C	28:D2:54:LYS:N	2.48	0.66
44:DN:38:HIS:O	51:DU:67:ALA:HB1	1.96	0.66
49:BS:31:SER:OG	49:BS:32:LEU:N	2.29	0.66
44:DN:62:VAL:HG22	44:DN:66:LYS:HG3	1.78	0.66
44:DN:66:LYS:O	44:DN:67:LEU:HD23	1.96	0.66
35:BA:2712:U:H1'	35:BA:2712(A):A:H8	1.61	0.66
50:BT:109:GLU:HA	50:BT:112:ARG:HG3	1.77	0.66
2:AB:185:ILE:CG2	2:AB:199:TYR:HB2	2.26	0.66
6:CF:12:PRO:O	6:CF:14:LEU:N	2.28	0.66
15:CO:17:ARG:HG3	15:CO:17:ARG:HH11	1.61	0.66
2:CB:48:MET:HA	2:CB:51:LEU:HD12	1.78	0.66
6:AF:22:GLU:O	6:AF:26:ILE:HG13	1.96	0.66
12:CL:55:VAL:HG12	12:CL:56:ALA:N	2.06	0.66
38:BD:31:LYS:HA	38:BD:31:LYS:HZ1	1.60	0.66
35:DA:237:C:H2'	35:DA:238:C:H6	1.61	0.66
9:CI:10:ARG:HG3	9:CI:104:ARG:O	1.96	0.66
8:AH:64:LYS:O	8:AH:79:VAL:HG21	1.95	0.66
7:CG:84:ASN:HD22	7:CG:84:ASN:N	1.92	0.66
35:BA:323:G:C2'	40:BF:169:ASN:HD21	2.09	0.66
35:DA:999:U:O2	35:DA:999:U:H2'	1.95	0.66
35:BA:154(A):C:H5	35:BA:171:G:N1	1.94	0.66
35:BA:2101:G:C2	35:BA:2102:U:H1'	2.31	0.66
35:BA:718:A:H3'	35:BA:719:C:H6	1.61	0.66
1:CA:1048:G:H4'	14:CN:2:ALA:N	2.10	0.66
1:CA:696:A:H2'	1:CA:697:U:H6	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1152:A:H5'	10:CJ:13:HIS:CD2	2.31	0.66
50:DT:22:PHE:HD2	50:DT:22:PHE:H	1.42	0.66
38:BD:4:LYS:NZ	38:BD:20:ASP:HA	2.11	0.66
35:BA:782:A:H2	38:BD:226:MET:HE2	1.60	0.66
56:BZ:29:TYR:O	56:BZ:30:ASN:HB3	1.96	0.66
44:BN:10:GLU:OE2	44:BN:11:PRO:HD2	1.96	0.66
54:BX:83:VAL:O	54:BX:85:PRO:HD3	1.96	0.66
35:BA:2199:A:H5'	35:BA:2200:C:OP2	1.96	0.66
41:BG:16:ARG:O	41:BG:20:ILE:HG12	1.96	0.66
45:DO:114:ILE:HD12	45:DO:114:ILE:N	2.02	0.66
4:CD:101:LEU:HD23	4:CD:121:VAL:HG13	1.78	0.66
35:BA:661:C:H4'	46:BP:18:ARG:HG2	1.77	0.66
1:AA:1433:A:C2	1:AA:1434:A:C4	2.84	0.66
1:AA:1479:C:H2'	1:AA:1480:G:H8	1.60	0.66
20:AT:50:GLU:HG3	20:AT:51:GLU:N	2.11	0.66
35:BA:1758:G:N7	35:BA:2695:C:H4'	2.12	0.66
49:DS:104:GLY:O	49:DS:106:ARG:N	2.26	0.66
49:DS:87:PHE:CG	49:DS:88:ASP:N	2.63	0.66
2:AB:70:PHE:O	2:AB:92:TYR:HB2	1.95	0.66
35:DA:2079:U:H3	35:DA:2241:A:H61	1.43	0.66
6:CF:26:ILE:O	6:CF:30:LEU:HG	1.96	0.66
2:CB:70:PHE:O	2:CB:92:TYR:HB2	1.96	0.66
6:AF:67:MET:HB2	6:AF:68:PRO:HD2	1.77	0.66
51:DU:31:SER:OG	51:DU:34:LYS:N	2.27	0.66
13:CM:116:THR:HG22	13:CM:117:VAL:N	2.11	0.66
1:CA:990:C:H2'	1:CA:991:U:C6	2.31	0.66
1:AA:451:A:H1'	1:AA:452:A:C8	2.31	0.66
16:AP:38:TYR:O	16:AP:49:LEU:HA	1.96	0.66
35:DA:2261:C:H1'	35:DA:2388:A:N3	2.11	0.66
1:CA:601:C:H2'	1:CA:602:A:H8	1.60	0.66
8:AH:1:MET:HE2	8:AH:2:LEU:N	2.10	0.66
10:AJ:40:LEU:HB2	10:AJ:41:PRO:HD2	1.78	0.66
9:AI:113:LYS:HB2	9:AI:116:LYS:HG3	1.77	0.66
1:CA:448:A:O2'	1:CA:449:C:H5'	1.95	0.66
29:D3:4:LEU:HD21	29:D3:56:VAL:CG1	2.26	0.66
1:AA:1457:G:H2'	1:AA:1458:G:H8	1.60	0.66
35:BA:2115:G:H4'	35:BA:2166:G:N2	2.10	0.66
32:D6:13:CYS:HB3	32:D6:49:HIS:HB3	1.78	0.66
35:BA:863:A:C2'	35:BA:864:G:H5'	2.26	0.66
46:BP:122:PRO:HG3	46:BP:141:ALA:HB3	1.78	0.66
1:AA:1206:G:O4'	3:AC:194:GLY:HA2	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:449:A:O2'	35:DA:450:G:H5'	1.95	0.66
26:D0:2:ALA:O	35:DA:2494:G:H5'	1.96	0.66
1:AA:1152:A:H5''	10:AJ:13:HIS:CD2	2.31	0.66
36:BB:15:A:H3'	36:BB:16:G:C5'	2.26	0.66
35:DA:2682:U:O4	35:DA:2728:U:H1'	1.96	0.65
45:DO:32:TYR:CD1	45:DO:32:TYR:N	2.61	0.65
50:DT:32:TYR:O	50:DT:33:LYS:HB2	1.95	0.65
50:DT:48:ILE:C	50:DT:63:VAL:HG12	2.16	0.65
34:B8:35:GLN:HA	35:BA:2420:C:P	2.35	0.65
45:BO:104:ARG:HB3	45:BO:104:ARG:CZ	2.26	0.65
45:BO:37:ASP:H	45:BO:62:VAL:H	1.41	0.65
50:BT:80:SER:CB	50:BT:81:PRO:CD	2.66	0.65
35:BA:2208:A:H1'	35:BA:2219:G:C4	2.31	0.65
35:BA:380:U:H2'	35:BA:381:G:H8	1.60	0.65
2:AB:212:GLN:NE2	2:AB:216:SER:HB2	2.10	0.65
41:BG:173:LEU:H	41:BG:173:LEU:HD22	1.60	0.65
28:D2:20:GLU:O	28:D2:22:GLU:N	2.29	0.65
4:CD:96:LEU:C	4:CD:98:GLU:H	1.99	0.65
35:DA:271(P):C:C5'	43:DI:46:ALA:HB2	2.20	0.65
40:DF:202:PHE:HE1	40:DF:206:ILE:HD13	1.61	0.65
35:BA:2710:C:OP1	48:BR:15:SER:HB2	1.96	0.65
2:AB:48:MET:HA	2:AB:51:LEU:HD12	1.79	0.65
2:CB:172:ILE:CD1	2:CB:172:ILE:H	2.08	0.65
35:DA:1188:U:C2'	35:DA:1189:A:H5'	2.26	0.65
1:CA:1517:G:H1'	35:DA:1919:A:O3'	1.96	0.65
16:AP:56:ALA:O	16:AP:60:LEU:HG	1.95	0.65
3:CC:173:VAL:O	3:CC:175:LEU:N	2.29	0.65
42:BH:44:VAL:HG12	42:BH:45:VAL:H	1.59	0.65
8:AH:39:LEU:O	8:AH:44:PHE:HB2	1.97	0.65
8:CH:2:LEU:O	8:CH:3:THR:HG23	1.96	0.65
1:CA:523:A:N1	12:CL:92:ASP:HB2	2.11	0.65
35:BA:2745:C:H2'	35:BA:2746:U:H6	1.61	0.65
46:DP:74:GLU:OE2	46:DP:75:ILE:HD12	1.96	0.65
35:BA:2119:A:H3'	35:BA:2120:G:C5'	2.26	0.65
35:DA:2830:G:C5'	39:DE:58:ARG:HH22	2.09	0.65
35:DA:1771:C:H2'	35:DA:1772:G:C8	2.30	0.65
1:AA:248:C:O2'	1:AA:249:U:H5'	1.96	0.65
35:DA:1570:A:H2'	35:DA:1571:A:H8	1.58	0.65
35:DA:1642:G:H2'	35:DA:1643:G:H8	1.61	0.65
3:AC:111:LEU:HD21	3:AC:145:GLY:O	1.96	0.65
35:BA:703:U:C2'	35:BA:704:G:H5'	2.25	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1323:U:H3	35:DA:1331:A:H61	1.44	0.65
41:BG:9:ARG:O	41:BG:13:GLU:HG2	1.96	0.65
1:CA:946:A:H2'	1:CA:947:G:C8	2.31	0.65
7:AG:49:ILE:HG22	7:AG:49:ILE:O	1.95	0.65
45:DO:17:ARG:O	45:DO:18:LYS:HG3	1.97	0.65
27:D1:54:ALA:HB2	27:D1:57:GLU:OE1	1.96	0.65
1:CA:248:C:O2'	1:CA:249:U:H5'	1.96	0.65
35:BA:1935:G:H3'	35:BA:1962:C:H42	1.62	0.65
39:BE:24:THR:CG2	39:BE:184:VAL:HG23	2.25	0.65
56:BZ:102:LEU:HD11	56:BZ:124:ILE:CG2	2.25	0.65
56:BZ:58:VAL:HG13	56:BZ:67:LEU:C	2.17	0.65
51:BU:92:ARG:HD2	52:BV:11:GLN:HG3	1.78	0.65
10:AJ:48:THR:HG22	10:AJ:49:VAL:N	2.11	0.65
34:D8:6:THR:HG21	34:D8:63:PRO:HD3	1.78	0.65
54:BX:59:VAL:HG23	54:BX:74:PRO:HD2	1.78	0.65
41:BG:76:SER:CB	41:BG:83:ARG:HB3	2.25	0.65
54:DX:80:ILE:O	54:DX:81:VAL:HB	1.96	0.65
35:DA:997:G:O2'	35:DA:998:C:H5'	1.96	0.65
45:DO:119:PRO:HB2	50:DT:68:TYR:CD1	2.31	0.65
51:BU:47:TYR:HD1	51:BU:50:ARG:HH22	1.41	0.65
3:AC:53:ALA:O	3:AC:54:ARG:HB2	1.95	0.65
48:BR:18:LEU:HD11	48:BR:22:ARG:CZ	2.26	0.65
49:DS:26:LEU:HD22	49:DS:87:PHE:CE1	2.31	0.65
2:AB:158:LEU:N	2:AB:158:LEU:HD12	2.11	0.65
44:DN:30:ILE:O	44:DN:34:LEU:HB2	1.95	0.65
18:CR:43:PHE:C	18:CR:44:LEU:HD12	2.16	0.65
2:CB:72:GLY:HA3	2:CB:165:VAL:CG1	2.26	0.65
43:DI:110:ASP:O	43:DI:112:LYS:N	2.28	0.65
47:BQ:51:ARG:O	47:BQ:54:MET:HB3	1.95	0.65
1:CA:1399:C:C2	1:CA:1502:A:N6	2.64	0.65
25:CY:165:THR:HG22	25:CY:166:ASP:N	2.11	0.65
1:AA:452:A:O2'	1:AA:453:A:H8	1.73	0.65
16:CP:56:ALA:O	16:CP:60:LEU:HG	1.95	0.65
40:DF:158:THR:HG21	40:DF:163:VAL:CB	2.26	0.65
2:CB:108:ILE:HD13	2:CB:108:ILE:O	1.95	0.65
7:AG:86:GLN:NE2	23:AW:32:G:H21	1.93	0.65
9:CI:28:VAL:HG13	9:CI:64:THR:CA	2.26	0.65
9:CI:70:LYS:O	9:CI:74:ILE:HG13	1.95	0.65
46:BP:126:VAL:HA	46:BP:145:PRO:HG2	1.78	0.65
35:DA:2223:G:C2'	35:DA:2224:G:H5'	2.26	0.65
35:DA:2830:G:H5'	39:DE:58:ARG:NH1	2.12	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:68:ARG:N	17:AQ:70:ARG:HH12	1.95	0.65
42:BH:156:ALA:C	42:BH:158:HIS:N	2.47	0.65
1:CA:331:G:OP1	1:CA:332:G:H5'	1.96	0.65
53:BW:6:ILE:HG13	53:BW:104:THR:HG23	1.77	0.65
13:CM:49:THR:HG22	13:CM:51:ALA:H	1.62	0.65
13:AM:9:ILE:HD12	13:AM:9:ILE:N	2.12	0.65
1:AA:154:C:H2'	1:AA:155:C:H6	1.60	0.65
7:AG:14:PRO:HG3	7:AG:21:VAL:HG13	1.76	0.65
35:DA:1889:A:O2'	35:DA:2087:G:H5'	1.96	0.65
1:CA:927:G:H2'	1:CA:928:G:C8	2.31	0.65
35:BA:1210:A:H4'	35:BA:1211:U:O5'	1.95	0.65
1:AA:1048:G:H4'	14:AN:2:ALA:N	2.11	0.65
38:DD:125:ILE:N	38:DD:125:ILE:HD12	2.12	0.65
53:BW:58:ALA:HB1	53:BW:64:MET:SD	2.37	0.65
1:CA:1427:U:H2'	1:CA:1428:A:C8	2.30	0.65
37:DC:47:LEU:HA	37:DC:207:THR:HA	1.78	0.65
38:BD:80:ALA:HB3	38:BD:94:LEU:HD13	1.77	0.65
41:DG:98:ARG:O	41:DG:101:ILE:HG22	1.96	0.65
10:CJ:6:ILE:HA	10:CJ:97:GLU:O	1.96	0.65
35:BA:1999:C:H2'	35:BA:2000:G:H8	1.59	0.65
45:BO:102:VAL:HB	45:BO:106:LEU:CD1	2.25	0.65
45:BO:32:TYR:N	45:BO:32:TYR:CD1	2.62	0.65
28:B2:20:GLU:O	28:B2:23:LYS:N	2.29	0.65
28:B2:55:ARG:NH2	54:BX:3:THR:HG23	2.11	0.65
27:B1:77:ALA:C	27:B1:78:LYS:HD2	2.17	0.65
41:BG:57:ALA:HB1	41:BG:68:PRO:HB3	1.77	0.65
54:DX:34:ALA:O	54:DX:36:LYS:HG3	1.95	0.65
34:D8:35:GLN:HA	35:DA:2420:C:P	2.35	0.65
42:BH:145:ALA:HB1	42:BH:164:TYR:CE1	2.31	0.65
56:DZ:118:GLN:O	56:DZ:172:ALA:HA	1.97	0.65
56:DZ:18:LEU:HG	56:DZ:23:LYS:HB2	1.79	0.65
56:DZ:56:VAL:HG22	56:DZ:70:LEU:HD11	1.77	0.65
49:BS:67:ARG:O	49:BS:71:ARG:N	2.30	0.65
27:D1:46:LEU:HD13	27:D1:48:LYS:HE3	1.79	0.65
27:D1:62:VAL:HG21	27:D1:67:ILE:CA	2.23	0.65
49:DS:67:ARG:O	49:DS:71:ARG:N	2.29	0.65
44:BN:16:ILE:O	44:BN:54:VAL:HA	1.96	0.65
18:CR:50:ILE:CD1	18:CR:70:ILE:HG21	2.26	0.65
46:DP:33:ARG:O	46:DP:34:GLY:C	2.34	0.65
43:DI:129:THR:OG1	43:DI:135:GLU:HB3	1.96	0.65
1:AA:1106:G:H2'	1:AA:1107:C:C6	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BI:37:VAL:HG13	43:BI:38:LEU:CD1	2.26	0.65
43:BI:38:LEU:H	43:BI:38:LEU:CD1	2.02	0.65
11:CK:44:SER:N	11:CK:47:VAL:CG2	2.59	0.65
42:DH:41:MET:HG3	42:DH:53:GLU:O	1.94	0.65
35:BA:2387:U:H5'	35:BA:2388:A:OP2	1.96	0.65
7:AG:84:ASN:N	7:AG:84:ASN:HD22	1.92	0.65
9:AI:47:LEU:HB3	9:AI:50:LEU:HD12	1.79	0.65
38:BD:76:PRO:HG2	38:BD:98:VAL:CG2	2.26	0.65
31:D5:20:ARG:HH12	53:DW:15:ARG:CZ	2.09	0.65
46:BP:111:ARG:HA	46:BP:128:HIS:ND1	2.11	0.65
1:CA:376:G:OP2	16:CP:67:THR:HG21	1.96	0.65
35:BA:2884:U:H2'	35:BA:2885:C:H5'	1.78	0.65
2:AB:108:ILE:HD13	2:AB:108:ILE:O	1.94	0.65
1:AA:1513:A:H2'	1:AA:1514:C:H6	1.60	0.65
17:AQ:60:ILE:HG12	17:AQ:61:GLU:O	1.97	0.65
5:AE:78:HIS:CE1	5:AE:143:ARG:H	2.13	0.65
3:CC:111:LEU:HD21	3:CC:145:GLY:O	1.96	0.65
35:BA:1697:G:H3'	35:BA:1698:A:C5'	2.26	0.65
35:DA:506:G:H4'	35:DA:509:C:O2	1.96	0.65
35:DA:977:G:O2'	35:DA:978:G:H5'	1.97	0.65
1:CA:696:A:H2'	1:CA:697:U:C6	2.31	0.65
2:CB:157:ARG:HG2	2:CB:158:LEU:H	1.59	0.65
35:DA:265:A:H1'	35:DA:266:G:O4'	1.97	0.65
7:AG:42:ILE:HA	7:AG:45:ASP:HB2	1.78	0.65
19:AS:22:LEU:HD13	19:AS:22:LEU:O	1.97	0.65
7:CG:36:LYS:HB2	7:CG:36:LYS:HZ2	1.61	0.65
35:DA:2863:C:H2'	35:DA:2864:G:H5''	1.79	0.65
45:DO:31:LYS:C	45:DO:32:TYR:CD1	2.69	0.65
50:DT:100:TYR:HD2	50:DT:103:ARG:CZ	2.10	0.65
38:BD:35:LYS:HE3	38:BD:65:ILE:N	2.09	0.65
41:DG:37:VAL:CG2	41:DG:99:MET:HG3	2.25	0.65
41:BG:57:ALA:HB1	41:BG:68:PRO:CB	2.26	0.65
56:DZ:166:SER:HB2	56:DZ:167:PRO:C	2.17	0.65
44:DN:46:VAL:HG11	44:DN:48:MET:HG3	1.79	0.65
47:DQ:50:ALA:HA	47:DQ:124:LYS:HG3	1.79	0.65
4:CD:104:VAL:HG21	4:CD:140:VAL:HG21	1.77	0.65
4:CD:201:GLN:HA	4:CD:204:ILE:HD12	1.78	0.65
40:BF:46:ARG:HG3	40:BF:48:THR:HG23	1.77	0.65
46:BP:41:ARG:N	46:BP:41:ARG:HD2	2.12	0.65
35:BA:1414:G:H2'	35:BA:1415:U:H6	1.59	0.65
6:AF:62:TRP:CZ2	6:AF:64:GLN:HB2	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:73:ASN:O	6:AF:76:ALA:HB3	1.96	0.65
25:CY:130:ARG:HH21	35:DA:1942:C:H2'	1.61	0.65
11:AK:44:SER:OG	11:AK:47:VAL:HG23	1.95	0.65
40:DF:37:VAL:O	40:DF:40:GLN:HB2	1.96	0.65
43:DI:12:LEU:HD12	43:DI:19:VAL:HG11	1.78	0.65
19:AS:48:THR:HG22	19:AS:61:TYR:CA	2.26	0.65
16:AP:28:ARG:HG2	16:AP:28:ARG:HH11	1.60	0.65
5:CE:109:ILE:HG22	5:CE:110:LEU:N	2.12	0.65
35:DA:2579:C:O2'	35:DA:2580:U:H5'	1.96	0.65
39:BE:39:PRO:HA	39:BE:43:GLY:CA	2.25	0.65
38:DD:166:GLN:HE21	38:DD:166:GLN:N	1.93	0.65
35:DA:1635:G:H5'	35:DA:1635:G:C8	2.31	0.65
35:DA:1713:U:O2'	35:DA:1714:G:H5'	1.97	0.65
24:CX:14:U:H2'	24:CX:15:G:C8	2.30	0.65
53:BW:35:ILE:HG22	53:BW:36:LEU:HD23	1.77	0.65
1:AA:1242:C:H2'	1:AA:1243:C:H6	1.61	0.65
10:CJ:78:ASN:C	10:CJ:80:LYS:H	2.00	0.65
53:BW:64:MET:O	53:BW:65:LEU:HB3	1.95	0.65
8:CH:18:ARG:N	8:CH:78:GLN:NE2	2.45	0.65
35:BA:1515:G:C2'	35:BA:1516:C:H5'	2.27	0.65
35:BA:892:G:H1	35:BA:894:C:N4	1.94	0.65
23:CW:42:C:H2'	23:CW:43:G:C8	2.31	0.65
35:BA:696:G:C2'	35:BA:697:C:H5'	2.26	0.65
45:DO:102:VAL:HB	45:DO:106:LEU:CD1	2.26	0.65
41:DG:106:LEU:C	41:DG:108:ASN:H	1.99	0.65
41:DG:144:ILE:HD12	41:DG:145:THR:H	1.60	0.65
56:DZ:166:SER:HB3	56:DZ:168:GLU:H	1.59	0.65
44:DN:10:GLU:OE2	44:DN:11:PRO:HD2	1.96	0.65
35:DA:1884:A:H2'	35:DA:1885:A:C5'	2.21	0.65
35:BA:2413:G:H21	46:BP:70:GLN:HE21	1.44	0.65
1:AA:1423:G:H5'	45:BO:49:ARG:HH21	1.61	0.65
35:BA:1280:G:H3'	35:BA:1281:G:H5''	1.78	0.65
35:DA:200:U:H2'	35:DA:201:C:H5'	1.79	0.65
4:AD:126:ILE:HG22	4:AD:127:THR:N	2.11	0.65
55:DY:16:ALA:C	55:DY:21:LYS:HD2	2.17	0.65
1:AA:585:G:H4'	12:AL:8:ASN:ND2	2.06	0.65
35:DA:582:G:H2'	35:DA:583:G:H8	1.59	0.65
46:BP:7:ARG:O	46:BP:10:PRO:HD3	1.95	0.65
20:CT:50:GLU:HG3	20:CT:51:GLU:N	2.12	0.65
35:BA:2262:U:H4'	35:BA:2328:A:C2	2.31	0.65
55:BY:37:VAL:O	55:BY:38:ILE:HB	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:58:LEU:CD1	18:AR:58:LEU:H	2.06	0.65
8:CH:36:LEU:O	8:CH:39:LEU:HB3	1.95	0.65
31:B5:40:LYS:HE2	31:B5:46:CYS:N	2.11	0.65
5:CE:96:PRO:HA	5:CE:117:ASP:OD2	1.97	0.65
1:CA:32:A:H2'	1:CA:33:A:H8	1.59	0.65
44:BN:93:THR:HG23	44:BN:93:THR:O	1.97	0.65
5:AE:76:ILE:HD11	5:AE:142:LEU:HD11	1.77	0.65
35:BA:49:A:OP1	35:BA:51:G:H5'	1.97	0.65
1:CA:237:C:H4'	17:CQ:25:ARG:NH1	2.12	0.65
35:DA:971:C:H2'	35:DA:972:G:O4'	1.96	0.65
1:AA:741:G:H2'	1:AA:742:G:O4'	1.97	0.65
35:DA:1335:U:H2'	35:DA:1336:A:C8	2.31	0.65
35:BA:1221:C:H2'	35:BA:1221(A):C:H6	1.61	0.65
35:DA:1171:G:H3'	35:DA:1173:G:O4'	1.96	0.65
35:BA:1841:U:H2'	35:BA:1842:G:C8	2.32	0.65
53:BW:95:ILE:O	53:BW:95:ILE:HG13	1.96	0.65
23:CW:24:C:H2'	23:CW:25:U:C6	2.31	0.65
35:DA:2677:G:H2'	35:DA:2678:C:C6	2.30	0.65
35:DA:1824:G:O2'	35:DA:1825:A:H5'	1.95	0.65
38:DD:35:LYS:HE3	38:DD:65:ILE:N	2.10	0.65
45:BO:23:ARG:O	45:BO:39:ILE:HG13	1.97	0.65
39:DE:52:LEU:CB	39:DE:76:ARG:HB2	2.26	0.65
35:DA:2467:C:H2'	35:DA:2468:G:H5'	1.79	0.65
44:BN:66:LYS:O	44:BN:67:LEU:HD23	1.95	0.65
3:CC:11:ARG:HH11	3:CC:11:ARG:HG2	1.62	0.65
40:DF:28:ILE:HG22	40:DF:112:MET:HB3	1.79	0.65
48:DR:18:LEU:HD11	48:DR:22:ARG:CZ	2.27	0.65
2:AB:162:ILE:C	2:AB:162:ILE:HD12	2.16	0.65
2:AB:33:TYR:HD1	2:AB:43:ASP:HA	1.59	0.65
18:CR:36:ASN:ND2	18:CR:39:VAL:HB	2.11	0.65
35:DA:1213:A:H2'	35:DA:1214:A:H8	1.62	0.65
1:AA:403:C:H2'	1:AA:404:U:C6	2.32	0.65
4:AD:120:LEU:HB3	4:AD:125:HIS:HB2	1.76	0.65
18:AR:35:ARG:C	18:AR:37:VAL:H	1.98	0.65
1:CA:1404:C:H2'	1:CA:1405:G:C8	2.32	0.65
35:DA:2036:C:H6	35:DA:2036:C:C5'	2.05	0.65
7:AG:101:LEU:O	7:AG:105:VAL:HG23	1.96	0.65
25:CY:21:LEU:HD11	25:CY:121:TYR:O	1.96	0.65
35:BA:1213:A:H2'	35:BA:1214:A:H8	1.61	0.65
25:AY:86:SER:OG	25:AY:88:LEU:HD13	1.96	0.65
35:DA:933:A:H2'	35:DA:934:G:O4'	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:104:U:H2'	35:BA:105:C:O4'	1.96	0.65
13:AM:116:THR:HG22	13:AM:117:VAL:N	2.11	0.65
35:DA:611:C:O2'	35:DA:612:C:H5'	1.96	0.65
20:AT:89:ARG:HB2	20:AT:104:LEU:HD11	1.78	0.65
5:AE:126:ARG:C	5:AE:131:ILE:HD11	2.17	0.65
9:CI:113:LYS:HB2	9:CI:116:LYS:HG3	1.78	0.65
35:DA:2119:A:H3'	35:DA:2120:G:C5'	2.27	0.65
42:BH:73:ALA:O	42:BH:76:VAL:HB	1.97	0.65
33:D7:25:PRO:HA	33:D7:28:ARG:NH2	2.12	0.65
19:AS:53:ASN:ND2	19:AS:55:LYS:H	1.93	0.65
35:BA:2830:G:H5'	39:BE:58:ARG:HH22	1.62	0.65
35:DA:323:G:H2'	40:DF:169:ASN:ND2	2.10	0.65
32:B6:16:CYS:SG	32:B6:47:THR:HG21	2.35	0.65
1:AA:471:G:H2'	1:AA:472:A:C8	2.32	0.65
53:BW:75:TYR:N	53:BW:75:TYR:CD1	2.63	0.65
1:AA:340:U:H2'	1:AA:341:C:H6	1.61	0.65
10:AJ:78:ASN:C	10:AJ:80:LYS:H	1.99	0.65
7:CG:14:PRO:HG3	7:CG:21:VAL:HG13	1.78	0.65
1:AA:927:G:H2'	1:AA:928:G:C8	2.32	0.65
7:AG:11:GLN:HE21	7:AG:12:LEU:H	1.45	0.65
1:AA:1310:G:O2'	1:AA:1311:G:H5'	1.97	0.65
1:CA:54:C:H41	1:CA:352:C:H2'	1.61	0.65
2:CB:132:LYS:O	2:CB:135:GLN:HB2	1.97	0.65
45:DO:104:ARG:CZ	45:DO:104:ARG:HB3	2.27	0.65
45:DO:31:LYS:HD2	45:DO:32:TYR:HE1	1.61	0.65
38:BD:94:LEU:O	38:BD:94:LEU:HD13	1.96	0.65
35:DA:783:A:H2'	35:DA:784:A:H4'	1.77	0.65
34:B8:42:ARG:O	34:B8:44:LYS:N	2.29	0.65
35:BA:2415:G:H4'	46:BP:66:GLY:HA3	1.78	0.65
35:BA:2866:U:C5	35:BA:2868:A:H1'	2.31	0.65
35:BA:999:U:H2'	35:BA:999:U:O2	1.97	0.65
42:DH:89:ILE:CD1	42:DH:89:ILE:N	2.59	0.65
52:DV:19:LYS:HE2	52:DV:19:LYS:HA	1.79	0.65
35:DA:1018:C:O2'	35:DA:1019:U:H5'	1.96	0.65
48:DR:82:GLU:C	48:DR:85:PRO:HD2	2.16	0.65
1:AA:320:C:H2'	1:AA:321:A:C8	2.31	0.65
2:AB:157:ARG:HG2	2:AB:158:LEU:H	1.61	0.65
18:CR:35:ARG:C	18:CR:37:VAL:H	1.98	0.65
25:CY:133:ARG:HG3	25:CY:161:ILE:HG22	1.77	0.65
12:CL:27:LEU:O	12:CL:29:GLY:N	2.30	0.65
33:B7:30:VAL:HG13	33:B7:33:ARG:HH22	1.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CK:103:LEU:N	11:CK:103:LEU:HD22	2.06	0.65
35:DA:975(A):G:OP1	52:DV:79:VAL:HG13	1.96	0.65
31:B5:46:CYS:SG	31:B5:47:PRO:HD2	2.37	0.65
56:DZ:109:ALA:HB3	56:DZ:145:GLU:OE1	1.97	0.65
1:AA:1166:G:N2	1:AA:1169:A:H3'	2.12	0.65
1:CA:376:G:H5''	16:CP:5:ARG:HD2	1.79	0.65
1:CA:1116:C:C3'	1:CA:1117:G:H5''	2.27	0.65
26:D0:77:ARG:NH2	35:DA:857:C:H5'	2.11	0.65
53:DW:6:ILE:HG13	53:DW:104:THR:HG23	1.77	0.65
35:BA:970:C:H2'	35:BA:971:C:H6	1.61	0.65
15:AO:17:ARG:HH11	15:AO:17:ARG:HG3	1.61	0.65
15:AO:56:LEU:O	15:AO:60:VAL:HG23	1.97	0.65
35:BA:285:C:C2'	35:BA:286:C:H5''	2.27	0.65
9:AI:48:GLU:N	9:AI:49:PRO:HD2	2.12	0.65
17:CQ:9:VAL:HG12	17:CQ:10:VAL:H	1.62	0.65
35:BA:2861:G:O2'	35:BA:2862:G:H5'	1.97	0.65
1:CA:748:C:H1'	1:CA:749:C:OP2	1.95	0.65
1:AA:783:C:O2'	1:AA:784:C:H5'	1.96	0.65
35:DA:2074:U:H2'	35:DA:2075:U:C6	2.32	0.65
1:CA:924:C:H2'	1:CA:925:G:C8	2.32	0.65
38:DD:268:ARG:HB2	38:DD:268:ARG:HH11	1.62	0.65
35:BA:2863:C:H2'	35:BA:2864:G:H5''	1.79	0.65
50:BT:22:PHE:HD2	50:BT:22:PHE:H	1.44	0.65
42:DH:116:GLU:HG2	42:DH:117:PRO:HD2	1.77	0.65
54:BX:77:LYS:HE3	54:BX:78:LYS:N	2.12	0.65
28:D2:26:ARG:HD3	54:DX:5:TYR:HD1	1.61	0.65
28:D2:49:LYS:HE2	35:DA:76:C:OP1	1.97	0.65
54:DX:59:VAL:C	54:DX:73:ARG:HA	2.18	0.65
54:DX:77:LYS:HE2	54:DX:78:LYS:HG3	1.77	0.65
3:AC:164:ARG:HB2	3:AC:164:ARG:NH1	2.07	0.65
14:AN:4:LYS:O	14:AN:7:ILE:HG12	1.97	0.65
4:CD:200:GLU:O	4:CD:204:ILE:HG13	1.96	0.65
4:CD:96:LEU:N	4:CD:96:LEU:HD22	2.05	0.65
35:BA:225:A:O2'	35:BA:226:G:H5'	1.96	0.65
35:DA:393:C:H2'	35:DA:394:A:H8	1.61	0.65
34:D8:43:GLN:C	34:D8:44:LYS:HD2	2.16	0.65
3:CC:6:HIS:NE2	3:CC:8:ILE:HB	2.11	0.65
40:DF:2:LYS:O	40:DF:25:PRO:HD2	1.97	0.65
35:BA:1587:A:H2'	35:BA:1588:C:O4'	1.97	0.65
44:DN:56:ASN:CA	44:DN:124:ALA:HA	2.27	0.65
55:DY:28:LYS:HD2	55:DY:37:VAL:CG1	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:13:ARG:HG2	4:AD:14:ARG:N	2.12	0.65
20:CT:89:ARG:HB2	20:CT:104:LEU:HD11	1.79	0.65
25:AY:174:GLN:O	25:AY:177:GLU:HB3	1.97	0.65
19:AS:62:ILE:HD12	19:AS:66:MET:HG3	1.79	0.65
55:BY:31:LEU:HD23	55:BY:36:ALA:HB3	1.77	0.65
1:AA:192:U:C4'	20:AT:103:GLY:HA2	2.26	0.65
20:AT:63:ILE:HD12	20:AT:81:LYS:HG2	1.79	0.65
43:DI:5:LEU:N	43:DI:5:LEU:HD23	2.12	0.65
9:AI:7:THR:HB	9:AI:83:ARG:NH1	2.12	0.65
8:CH:22:GLU:O	8:CH:63:LEU:HD23	1.96	0.65
31:B5:49:CYS:O	31:B5:56:LYS:HB2	1.97	0.65
8:CH:82:HIS:CD2	8:CH:138:TRP:HE1	2.09	0.65
44:DN:93:THR:O	44:DN:93:THR:HG23	1.97	0.65
8:AH:82:HIS:CD2	8:AH:138:TRP:HE1	2.09	0.65
1:AA:254:G:OP1	17:AQ:67:LYS:O	2.15	0.65
26:D0:26:TYR:CE2	35:DA:857:C:H1'	2.32	0.65
1:AA:112:G:H4'	1:AA:389:A:H5''	1.78	0.65
19:CS:48:THR:HG22	19:CS:61:TYR:CA	2.26	0.65
15:AO:30:ALA:O	15:AO:33:THR:HB	1.97	0.65
35:BA:1366:A:H2'	35:BA:1367:A:H8	1.62	0.65
23:CW:35:C:H2'	23:CW:36:A:O4'	1.96	0.65
35:BA:1406:U:H3'	35:BA:1407:C:H6	1.62	0.65
44:BN:3:THR:HG22	44:BN:5:VAL:CG2	2.25	0.65
35:DA:1854:A:H3'	35:DA:1855:G:H8	1.61	0.65
35:BA:2111:C:O2'	35:BA:2118:U:H4'	1.97	0.65
12:CL:34:ARG:HB3	12:CL:61:THR:HG21	1.77	0.65
35:BA:1681:G:OP2	35:BA:1681:G:H8	1.80	0.65
11:CK:86:GLY:H	11:CK:112:THR:HG23	1.61	0.65
35:DA:2410:G:C2	35:DA:2411:A:H1'	2.31	0.65
25:AY:42:LYS:HB3	25:AY:49:HIS:HB3	1.79	0.65
35:DA:2506:U:H4'	35:DA:2507:C:OP1	1.95	0.65
38:BD:92:ILE:HA	38:BD:107:ALA:H	1.60	0.65
56:BZ:10:ARG:HG2	56:BZ:11:GLU:H	1.60	0.65
56:BZ:29:TYR:CE2	56:BZ:87:ASP:HB2	2.31	0.65
56:BZ:71:VAL:HG22	56:BZ:88:PHE:CE2	2.32	0.65
35:DA:2051:A:H4'	39:DE:141:ILE:HD11	1.79	0.65
39:BE:4:ILE:CG1	39:BE:28:ALA:HB1	2.27	0.65
27:B1:51:VAL:HG23	27:B1:62:VAL:CG1	2.26	0.65
41:BG:15:VAL:O	41:BG:19:LEU:HG	1.97	0.65
47:DQ:64:ILE:HG23	47:DQ:106:VAL:HG13	1.77	0.65
3:CC:53:ALA:O	3:CC:54:ARG:HB2	1.94	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BQ:34:LEU:HD12	47:BQ:35:VAL:N	2.11	0.65
46:BP:17:LYS:O	46:BP:19:VAL:N	2.29	0.65
1:AA:104:G:O2'	1:AA:105:G:H5'	1.97	0.65
49:DS:24:LEU:HB2	49:DS:85:VAL:HB	1.79	0.65
49:DS:25:ARG:HH21	49:DS:89:ARG:NH1	1.93	0.65
35:DA:993:G:H5'	52:DV:75:PHE:CZ	2.32	0.65
25:CY:169:ILE:O	25:CY:170:ALA:C	2.35	0.65
21:AU:8:THR:O	21:AU:12:LYS:HB2	1.97	0.65
1:CA:1456:G:C2'	1:CA:1457:G:H5'	2.26	0.65
25:AY:148:HIS:O	25:AY:149:LEU:HD23	1.95	0.65
31:B5:17:ASP:O	31:B5:20:ARG:HB2	1.96	0.65
51:DU:3:ARG:HH11	51:DU:3:ARG:CG	2.08	0.65
1:CA:253:U:H2'	1:CA:254:G:C8	2.32	0.65
35:DA:1937:A:C2'	35:DA:1938:A:H5'	2.26	0.65
13:AM:65:LYS:C	13:AM:66:LEU:N	2.50	0.65
35:BA:967:C:O2'	35:BA:968:G:H5'	1.97	0.65
29:D3:15:TYR:HB3	29:D3:19:GLN:NE2	2.12	0.65
15:AO:28:GLN:O	15:AO:32:LEU:HG	1.97	0.65
35:DA:554:U:O2'	35:DA:555:U:H5'	1.96	0.65
35:BA:2292:C:O2'	35:BA:2293:C:H5'	1.95	0.65
2:AB:31:TYR:N	2:AB:31:TYR:CD2	2.60	0.65
25:AY:43:VAL:HG13	25:AY:82:ALA:HB3	1.78	0.65
1:CA:154:C:H2'	1:CA:155:C:H6	1.60	0.65
4:CD:192:GLU:H	4:CD:192:GLU:CD	2.01	0.65
56:DZ:132:ASN:O	56:DZ:134:PRO:HD3	1.96	0.65
4:AD:191:ARG:HH12	4:AD:195:ALA:HA	1.61	0.65
7:CG:40:ALA:HA	7:CG:43:PHE:HB3	1.79	0.65
1:CA:1030(A):G:H1'	1:CA:1031:G:H1	1.62	0.65
35:BA:1742:G:N7	35:BA:1743:C:N3	2.44	0.65
38:DD:68:LYS:O	38:DD:68:LYS:HG3	1.96	0.65
35:DA:816:C:O2'	35:DA:817:C:H5'	1.97	0.65
35:BA:1765:C:H2'	35:BA:1766:U:C6	2.31	0.65
39:DE:2:LYS:HE2	39:DE:95:ILE:HG22	1.79	0.65
12:AL:34:ARG:HB3	12:AL:61:THR:HG21	1.79	0.65
1:AA:884:U:H4'	1:AA:885:G:H5''	1.79	0.65
35:BA:1568:G:H5''	38:BD:61:LEU:HB2	1.79	0.65
35:BA:1819:A:H1'	35:BA:1821:A:C6	2.32	0.65
35:BA:997:G:O2'	35:BA:998:C:H5'	1.97	0.65
54:BX:33:LYS:C	54:BX:35:THR:N	2.46	0.65
41:BG:11:TYR:O	41:BG:15:VAL:HB	1.97	0.65
41:BG:36:LYS:CE	41:BG:160:VAL:HG21	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:145:ALA:HB1	42:BH:164:TYR:HE1	1.62	0.65
56:DZ:53:ILE:HG13	56:DZ:53:ILE:O	1.95	0.65
51:DU:92:ARG:C	51:DU:94:ASN:H	1.99	0.65
1:AA:1203:C:H2'	1:AA:1204:A:H8	1.62	0.65
3:CC:182:ILE:HG23	3:CC:203:PHE:HA	1.78	0.65
35:BA:2051:A:H5'	35:BA:2578:G:O4'	1.96	0.65
3:CC:16:ARG:HH11	3:CC:16:ARG:HA	1.60	0.65
49:DS:13:ARG:H	49:DS:13:ARG:CD	1.99	0.65
4:AD:65:ARG:HH11	4:AD:72:GLU:N	1.95	0.65
35:DA:909:A:H1'	47:DQ:10:ARG:NH2	2.12	0.65
12:AL:85:ILE:HD12	12:AL:99:HIS:O	1.96	0.65
9:AI:77:ILE:O	9:AI:81:ILE:HG12	1.96	0.65
8:CH:12:ARG:NH1	8:CH:26:VAL:HA	2.12	0.65
31:D5:49:CYS:HB2	31:D5:59:GLU:OE1	1.96	0.65
31:D5:44:THR:HG21	48:DR:101:ALA:CB	2.23	0.65
35:DA:2206:G:C2	35:DA:2207:G:H5'	2.31	0.65
35:DA:2884:U:H2'	35:DA:2885:C:H5'	1.78	0.65
36:DB:20:C:C2'	36:DB:21:G:H5''	2.26	0.65
35:BA:2795:G:H2'	35:BA:2795:G:N3	2.10	0.65
1:AA:1118:C:OP1	9:AI:9:ARG:HD3	1.97	0.65
2:AB:137:ARG:HG2	2:AB:137:ARG:HH11	1.61	0.65
35:BA:2487:G:H2'	35:BA:2488:A:C8	2.31	0.65
43:BI:51:ILE:HG22	43:BI:52:ARG:N	2.12	0.65
35:DA:2290:G:H8	35:DA:2290:G:H5'	1.61	0.65
4:AD:192:GLU:CD	4:AD:192:GLU:H	2.01	0.65
26:B0:2:ALA:O	35:BA:2494:G:H5'	1.97	0.65
40:DF:60:SER:OG	40:DF:61:GLY:N	2.28	0.65
26:B0:72:ARG:HD3	26:B0:75:LEU:HD13	1.77	0.65
35:BA:882:G:H22	35:BA:895:U:H3	1.43	0.65
35:DA:1681:G:OP2	35:DA:1681:G:H8	1.80	0.65
45:DO:43:VAL:HG21	45:DO:52:VAL:HG12	1.78	0.64
41:DG:114:ILE:HG21	41:DG:117:PHE:CB	2.17	0.64
41:DG:132:ASN:ND2	41:DG:133:LEU:N	2.45	0.64
41:DG:60:LEU:O	41:DG:64:THR:HG22	1.97	0.64
41:DG:73:ALA:H	41:DG:87:PRO:HD2	1.62	0.64
41:DG:92:VAL:HG22	41:DG:93:THR:H	1.61	0.64
45:BO:69:ILE:CD1	45:BO:77:ILE:HG23	2.27	0.64
35:DA:2631:G:N2	39:DE:61:ARG:NH1	2.45	0.64
42:BH:89:ILE:CD1	42:BH:90:LYS:H	2.10	0.64
51:DU:59:ARG:O	51:DU:61:TRP:N	2.30	0.64
52:DV:39:LEU:HD21	52:DV:53:GLU:HA	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DF:96:ASP:OD1	40:DF:98:SER:HB3	1.97	0.64
1:CA:734:G:O2'	1:CA:735:C:H5'	1.97	0.64
18:CR:44:LEU:O	18:CR:45:SER:HB3	1.96	0.64
3:AC:16:ARG:HA	3:AC:16:ARG:HH11	1.62	0.64
25:CY:123:GLU:O	25:CY:126:ARG:N	2.30	0.64
25:CY:32:ARG:HB3	25:CY:103:ILE:HD13	1.80	0.64
35:BA:1353:A:H4'	38:BD:38:LYS:NZ	2.12	0.64
40:DF:134:GLY:H	40:DF:162:LEU:HD11	1.61	0.64
12:AL:37:CYS:SG	12:AL:81:SER:HB2	2.36	0.64
11:AK:44:SER:N	11:AK:47:VAL:CG2	2.61	0.64
23:AW:39:A:H2'	23:AW:40:C:H5'	1.79	0.64
4:CD:145:GLU:HG2	4:CD:184:LYS:CG	2.25	0.64
42:BH:44:VAL:HG12	42:BH:45:VAL:N	2.12	0.64
25:CY:70:SER:CB	25:CY:76:LEU:HB2	2.27	0.64
8:CH:10:LEU:HD23	8:CH:10:LEU:H	1.62	0.64
18:CR:53:ARG:NH2	18:CR:60:ALA:N	2.44	0.64
35:BA:2591:C:H2'	35:BA:2592:G:H8	1.58	0.64
1:AA:586:C:O2'	1:AA:587:G:H5'	1.97	0.64
29:D3:4:LEU:HD23	29:D3:5:LYS:N	2.13	0.64
47:DQ:82:ARG:HG2	47:DQ:82:ARG:HH11	1.61	0.64
35:DA:322:A:P	40:DF:169:ASN:HB2	2.37	0.64
35:DA:2014:A:H4'	53:DW:94:ASP:OD1	1.97	0.64
35:BA:678:C:H2'	35:BA:679:C:C6	2.28	0.64
27:D1:42:GLN:HG2	27:D1:43:TYR:H	1.61	0.64
35:DA:2186:G:C3'	35:DA:2187:G:H5''	2.27	0.64
41:DG:4:ASP:HB3	41:DG:8:LYS:CE	2.27	0.64
27:B1:20:ARG:NH1	27:B1:41:ARG:NE	2.45	0.64
35:DA:2075:U:H2'	35:DA:2238:G:N2	2.12	0.64
20:AT:31:SER:O	20:AT:34:LYS:HB2	1.97	0.64
45:DO:47:ILE:HG23	45:DO:48:PRO:HD2	1.78	0.64
1:CA:580:U:H2'	1:CA:581:G:O4'	1.97	0.64
1:AA:1030:C:H2'	1:AA:1030(A):G:H5'	1.77	0.64
6:CF:5:GLU:HG3	6:CF:93:SER:OG	1.96	0.64
1:CA:884:U:H4'	1:CA:885:G:H5''	1.78	0.64
18:CR:19:LYS:O	18:CR:20:ALA:HB2	1.97	0.64
52:BV:52:VAL:C	52:BV:54:GLY:H	1.99	0.64
1:AA:642:A:N3	8:AH:113:SER:OG	2.24	0.64
38:DD:109:ASP:HB3	38:DD:195:ALA:HB3	1.79	0.64
35:DA:2680:C:H2'	35:DA:2681:C:O2	1.97	0.64
35:DA:2723:C:O2'	35:DA:2724:C:H5'	1.97	0.64
50:DT:109:GLU:HA	50:DT:112:ARG:HG3	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2304:G:H4'	41:DG:133:LEU:HB3	1.78	0.64
45:BO:36:GLY:H	45:BO:62:VAL:HB	1.59	0.64
50:BT:27:THR:C	50:BT:88:ILE:HD13	2.17	0.64
50:BT:28:VAL:HG11	50:BT:46:GLU:HA	1.78	0.64
44:BN:42:TRP:CE2	44:BN:44:PRO:HD3	2.32	0.64
35:BA:93:G:H2'	35:BA:94:C:H6	1.62	0.64
35:DA:1879:C:C3'	35:DA:1880:C:H5''	2.27	0.64
35:DA:1159:U:H2'	35:DA:1160:G:H5'	1.78	0.64
35:DA:528:A:C2	35:DA:2042:A:H2'	2.32	0.64
40:BF:114:VAL:HG11	40:BF:202:PHE:HE2	1.61	0.64
39:BE:133:LYS:C	39:BE:134:ILE:HD13	2.17	0.64
34:B8:50:LEU:C	34:B8:53:PRO:HD2	2.17	0.64
34:B8:22:VAL:HG21	34:B8:56:GLU:HB2	1.80	0.64
40:DF:5:ALA:O	40:DF:6:VAL:HG13	1.97	0.64
3:AC:110:ASN:O	3:AC:141:VAL:HG13	1.96	0.64
3:AC:182:ILE:HG23	3:AC:202:ILE:C	2.17	0.64
48:BR:18:LEU:HD11	48:BR:22:ARG:NH2	2.12	0.64
48:BR:97:VAL:HG22	48:BR:114:VAL:HG22	1.80	0.64
50:BT:107:ASP:OD1	50:BT:109:GLU:HB2	1.97	0.64
2:AB:165:VAL:CG2	2:AB:166:ASP:H	1.99	0.64
56:BZ:117:LEU:HA	56:BZ:173:ALA:O	1.96	0.64
2:CB:185:ILE:CG2	2:CB:199:TYR:HB2	2.26	0.64
34:D8:50:LEU:C	34:D8:53:PRO:HD2	2.18	0.64
40:DF:88:VAL:HG22	40:DF:89:VAL:N	2.12	0.64
25:CY:171:LYS:HD2	25:CY:175:LEU:HD13	1.77	0.64
35:BA:690:G:H2'	35:BA:691:C:C6	2.32	0.64
55:BY:31:LEU:CB	55:BY:36:ALA:H	2.10	0.64
9:CI:105:ASP:HB3	9:CI:107:ARG:HG3	1.79	0.64
54:BX:65:ARG:NH2	54:BX:66:LEU:H	1.95	0.64
9:AI:111:ARG:HG2	9:AI:112:LYS:N	2.12	0.64
9:CI:95:LYS:HZ3	9:CI:96:LEU:HB2	1.62	0.64
38:BD:117:VAL:HG22	38:BD:118:VAL:H	1.61	0.64
35:DA:2013:A:H4'	53:DW:96:ILE:HD12	1.77	0.64
38:DD:142:VAL:HA	38:DD:194:GLY:H	1.62	0.64
35:BA:2673:G:H2'	35:BA:2674:G:H8	1.62	0.64
38:DD:76:PRO:HG2	38:DD:98:VAL:CG2	2.27	0.64
35:DA:2222:G:O2'	35:DA:2223:G:H5'	1.97	0.64
7:AG:113:GLU:CB	7:AG:119:ARG:HG2	2.28	0.64
32:D6:16:CYS:SG	32:D6:47:THR:HG21	2.37	0.64
26:B0:40:GLN:HE21	26:B0:43:THR:HA	1.62	0.64
35:DA:1353:A:H4'	38:DD:38:LYS:NZ	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2009:G:H1'	48:DR:107:ASP:O	1.98	0.64
1:AA:556:C:O2'	1:AA:557:G:H5'	1.97	0.64
6:AF:5:GLU:HG3	6:AF:93:SER:OG	1.97	0.64
53:DW:1:MET:HG3	53:DW:2:GLU:H	1.62	0.64
35:BA:2404:C:H2'	35:BA:2405:G:O4'	1.98	0.64
1:CA:1381:U:H2'	1:CA:1382:C:H5'	1.79	0.64
35:DA:2111:C:O2'	35:DA:2118:U:H4'	1.97	0.64
1:CA:1310:G:O2'	1:CA:1311:G:H5'	1.96	0.64
25:AY:108:GLU:HA	25:AY:111:ARG:CG	2.28	0.64
40:DF:22:ALA:O	40:DF:26:ALA:HB2	1.96	0.64
43:BI:92:VAL:O	43:BI:92:VAL:HG22	1.96	0.64
38:BD:177:LEU:HD12	38:BD:181:GLU:CG	2.27	0.64
35:DA:1795:C:H42	35:DA:1824:G:H1	1.45	0.64
35:BA:142(A):C:H2'	35:BA:143:G:O4'	1.98	0.64
27:B1:68:PRO:HG2	27:B1:69:LYS:N	2.09	0.64
54:DX:82:GLN:CG	54:DX:83:VAL:H	2.10	0.64
42:BH:102:ALA:HB2	42:BH:117:PRO:CD	2.19	0.64
3:CC:182:ILE:HG23	3:CC:202:ILE:C	2.17	0.64
49:BS:54:LEU:HD21	49:BS:59:LYS:O	1.98	0.64
40:BF:202:PHE:HE1	40:BF:206:ILE:HD13	1.63	0.64
3:CC:16:ARG:HH11	3:CC:16:ARG:CB	2.10	0.64
1:AA:1422:G:H2'	1:AA:1423:G:H8	1.62	0.64
1:AA:59:A:H5''	1:AA:60:A:H5''	1.78	0.64
49:DS:38:GLN:C	49:DS:39:ILE:HD12	2.18	0.64
27:D1:34:THR:HG21	35:DA:387:U:O3'	1.97	0.64
56:BZ:149:SER:OG	56:BZ:173:ALA:HB2	1.98	0.64
6:CF:30:LEU:HD23	6:CF:75:LEU:HD21	1.79	0.64
51:DU:47:TYR:HA	51:DU:50:ARG:CZ	2.28	0.64
19:AS:36:ARG:HH12	19:AS:75:ALA:HB3	1.63	0.64
1:AA:880:C:O2'	1:AA:881:G:H5'	1.96	0.64
16:AP:6:LEU:CD1	16:AP:6:LEU:N	2.60	0.64
20:CT:36:LEU:H	20:CT:36:LEU:CD2	2.11	0.64
17:CQ:29:HIS:HB3	17:CQ:33:GLY:N	2.11	0.64
12:AL:25:PRO:HD2	12:AL:98:TYR:OH	1.96	0.64
33:B7:25:PRO:HG2	33:B7:26:GLY:H	1.61	0.64
1:CA:639:G:O2'	1:CA:640:A:H5'	1.98	0.64
9:CI:113:LYS:HD2	9:CI:113:LYS:N	2.13	0.64
1:CA:1166:G:N2	1:CA:1169:A:H3'	2.11	0.64
35:DA:1605:C:H5'	35:DA:1610:A:N6	2.13	0.64
16:CP:6:LEU:HB3	16:CP:17:TYR:CD2	2.33	0.64
26:D0:25:ARG:HB2	26:D0:37:LEU:HD23	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:312:C:H2'	1:AA:313:A:H8	1.62	0.64
35:DA:1614:A:N6	53:DW:93:ALA:CB	2.60	0.64
35:BA:230:U:H2'	35:BA:230:U:O2	1.96	0.64
1:CA:174:C:O2'	1:CA:175:C:H5'	1.97	0.64
40:BF:141:ALA:O	40:BF:144:LYS:HB3	1.98	0.64
35:BA:519:U:H5''	53:BW:25:ARG:NH2	2.13	0.64
42:DH:31:GLY:O	42:DH:79:VAL:HG11	1.97	0.64
50:BT:42:ILE:O	50:BT:42:ILE:HG13	1.97	0.64
43:BI:28:ASN:O	43:BI:32:PRO:HG2	1.98	0.64
35:BA:2106:G:H2'	35:BA:2107:C:O4'	1.97	0.64
35:DA:2312:U:C2'	35:DA:2313:C:H5''	2.28	0.64
35:BA:2854:G:H2'	35:BA:2855:C:H6	1.63	0.64
50:BT:52:ILE:HG22	50:BT:61:PHE:CB	2.27	0.64
56:BZ:128:VAL:HG22	56:BZ:132:ASN:HB2	1.78	0.64
39:DE:141:ILE:N	39:DE:141:ILE:HD13	2.12	0.64
35:BA:2631:G:N2	39:BE:61:ARG:NH1	2.44	0.64
39:DE:1:MET:HG2	39:DE:83:ASP:O	1.97	0.64
41:BG:36:LYS:HE2	41:BG:160:VAL:HG21	1.79	0.64
52:DV:61:VAL:HG12	52:DV:62:LEU:H	1.62	0.64
3:AC:134:ILE:HD11	3:AC:153:VAL:HG21	1.78	0.64
4:CD:127:THR:HG22	4:CD:149:ALA:H	1.62	0.64
3:CC:138:VAL:HG22	3:CC:151:VAL:HG23	1.78	0.64
35:BA:661:C:H2'	35:BA:662:G:C8	2.32	0.64
35:DA:2415:G:H4'	46:DP:66:GLY:HA3	1.79	0.64
48:BR:2:ARG:CZ	48:BR:5:LYS:HE3	2.27	0.64
44:BN:17:ASP:O	44:BN:19:GLU:N	2.30	0.64
47:DQ:43:THR:HG1	47:DQ:45:GLN:HB2	1.63	0.64
13:CM:91:ARG:HH11	19:CS:81:ARG:NH2	1.88	0.64
1:AA:1218:C:H2'	1:AA:1219:U:C6	2.32	0.64
25:AY:139:LYS:O	25:AY:143:LEU:HB2	1.98	0.64
35:BA:2250:G:C5	47:BQ:82:ARG:HD2	2.32	0.64
8:AH:97:VAL:HG13	8:AH:98:LYS:HG3	1.79	0.64
45:BO:120:GLU:HG3	45:BO:122:LEU:HD11	1.80	0.64
1:CA:1342:C:H1'	9:CI:124:GLN:NE2	2.12	0.64
46:DP:101:VAL:CG2	46:DP:107:LYS:HA	2.24	0.64
5:CE:144:THR:O	5:CE:147:ASP:OD2	2.15	0.64
46:BP:124:LYS:HA	46:BP:143:GLY:N	2.12	0.64
2:AB:105:PHE:O	2:AB:108:ILE:N	2.31	0.64
7:AG:135:VAL:O	7:AG:138:LYS:HB3	1.96	0.64
48:BR:60:LEU:HD23	48:BR:61:HIS:N	2.11	0.64
1:AA:834:C:H2'	1:AA:835:U:C6	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DP:95:VAL:HG23	46:DP:125:VAL:HB	1.80	0.64
32:D6:32:ASN:ND2	32:D6:33:LYS:H	1.96	0.64
35:BA:759:G:H2'	35:BA:760:G:C8	2.31	0.64
35:BA:1298:C:H2'	35:BA:1299:G:C8	2.31	0.64
36:BB:91:C:H2'	36:BB:92:C:C6	2.32	0.64
1:CA:1090:U:H2'	1:CA:1091:U:H6	1.62	0.64
52:BV:1:MET:HE3	52:BV:45:THR:H	1.63	0.64
1:CA:1242:C:H2'	1:CA:1243:C:H6	1.61	0.64
35:DA:1220:A:O2'	35:DA:1221:C:H5''	1.98	0.64
35:DA:608:A:OP1	40:DF:100:THR:HG21	1.96	0.64
35:DA:1440:G:H2'	35:DA:1441:G:C8	2.32	0.64
50:BT:3:ARG:HB3	50:BT:6:LEU:HB3	1.79	0.64
1:AA:233:C:H2'	1:AA:234:C:H6	1.62	0.64
40:DF:205:ARG:HG2	40:DF:205:ARG:O	1.96	0.64
1:AA:1163:C:H2'	1:AA:1164:G:H8	1.61	0.64
1:CA:786:G:H1	1:CA:796:C:H42	1.45	0.64
10:CJ:5:ARG:O	10:CJ:98:ILE:HA	1.96	0.64
39:DE:64:LYS:C	39:DE:66:HIS:H	2.00	0.64
35:DA:1879:C:H2'	35:DA:1880:C:C5'	2.19	0.64
1:CA:403:C:H2'	1:CA:404:U:C6	2.32	0.64
4:CD:59:ARG:HA	4:CD:59:ARG:NH1	2.12	0.64
43:DI:91:SER:H	43:DI:121:LYS:CE	2.10	0.64
1:CA:1057:G:O2'	1:CA:1058:G:H5'	1.97	0.64
3:AC:9:GLY:HA3	14:AN:49:HIS:HA	1.79	0.64
35:BA:2028:U:H2'	35:BA:2029:G:C8	2.32	0.64
1:AA:333:G:H4'	20:AT:16:HIS:CE1	2.32	0.64
36:DB:115:G:O4'	49:DS:47:THR:HB	1.98	0.64
49:DS:54:LEU:HD13	49:DS:58:LEU:O	1.97	0.64
2:AB:178:ARG:HB2	2:AB:178:ARG:HH11	1.62	0.64
1:AA:426:G:H4'	4:AD:41:GLY:O	1.98	0.64
4:AD:17:VAL:HG12	4:AD:18:LYS:N	2.11	0.64
4:AD:18:LYS:NZ	4:AD:31:CYS:SG	2.66	0.64
35:BA:2469:A:H2	35:BA:2481:G:H21	1.46	0.64
1:CA:1507:A:C2	1:CA:1530:G:H1'	2.33	0.64
25:AY:29:ARG:NH2	25:AY:32:ARG:HH22	1.94	0.64
17:AQ:95:TYR:C	17:AQ:97:SER:H	2.01	0.64
13:AM:49:THR:HG22	13:AM:51:ALA:H	1.62	0.64
35:BA:1602:U:H3'	35:BA:1603:A:H5''	1.80	0.64
1:AA:186:C:H4'	20:AT:82:SER:HB3	1.79	0.64
1:AA:337:C:H2'	1:AA:338:A:C8	2.33	0.64
20:CT:57:ARG:HH11	20:CT:57:ARG:HB2	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:32:ALA:HB1	10:CJ:75:ILE:CG1	2.28	0.64
1:AA:1045:C:H2'	1:AA:1046:A:O4'	1.97	0.64
35:DA:816:C:H2'	35:DA:817:C:H6	1.62	0.64
35:DA:1841:U:H2'	35:DA:1842:G:C8	2.32	0.64
45:BO:17:ARG:O	45:BO:18:LYS:HG3	1.97	0.64
40:BF:205:ARG:O	40:BF:205:ARG:HG2	1.96	0.64
7:CG:11:GLN:NE2	7:CG:12:LEU:H	1.95	0.64
35:BA:1171:G:H3'	35:BA:1173:G:O4'	1.96	0.64
50:DT:52:ILE:HG22	50:DT:61:PHE:CB	2.27	0.64
38:BD:35:LYS:HE2	38:BD:104:TYR:CB	2.27	0.64
38:BD:36:PRO:CG	38:BD:61:LEU:HD21	2.28	0.64
16:AP:22:THR:HG22	16:AP:32:TYR:HA	1.78	0.64
51:BU:61:TRP:HB3	51:BU:93:LYS:O	1.97	0.64
42:DH:86:GLU:H	42:DH:86:GLU:CD	2.00	0.64
44:DN:1:MET:HG2	44:DN:2:LYS:N	2.12	0.64
27:D1:76:ARG:HD3	27:D1:78:LYS:HZ3	1.62	0.64
35:BA:510:C:H2'	35:BA:511:U:O4'	1.98	0.64
35:DA:1280:G:C3'	35:DA:1281:G:H5''	2.28	0.64
1:AA:105:G:H2'	1:AA:106:C:C6	2.33	0.64
20:AT:41:ILE:C	20:AT:43:LEU:H	2.00	0.64
48:BR:9:LYS:NZ	48:BR:42:LYS:HB3	2.12	0.64
36:DB:117:G:H5'	49:DS:55:ALA:HB1	1.80	0.64
2:AB:69:LEU:HD23	2:AB:159:PRO:HG2	1.78	0.64
2:AB:73:THR:HG22	2:AB:94:ASN:HA	1.79	0.64
4:AD:187:ARG:HH11	4:AD:187:ARG:HG2	1.63	0.64
12:AL:6:THR:HG22	12:AL:9:GLN:HE21	1.61	0.64
17:AQ:29:HIS:HB3	17:AQ:33:GLY:N	2.13	0.64
7:CG:101:LEU:O	7:CG:105:VAL:HG23	1.98	0.64
19:AS:63:THR:CG2	19:AS:66:MET:HG2	2.22	0.64
1:AA:1502:A:H2	1:AA:1505:G:H1	1.45	0.64
35:BA:2225:A:H4'	35:BA:2226:C:H5'	1.78	0.64
31:B5:44:THR:HG21	48:BR:101:ALA:CB	2.27	0.64
1:CA:1466:C:H2'	1:CA:1467:G:O4'	1.98	0.64
35:DA:1697:G:H3'	35:DA:1698:A:C5'	2.27	0.64
13:CM:45:VAL:O	13:CM:48:LEU:HD22	1.97	0.64
13:CM:9:ILE:N	13:CM:9:ILE:HD12	2.12	0.64
13:AM:45:VAL:O	13:AM:48:LEU:HD22	1.97	0.64
35:BA:878:A:H3'	35:BA:879:G:H8	1.63	0.64
35:DA:1387:C:H5'	35:DA:1469:A:H4'	1.79	0.64
56:BZ:139:VAL:C	56:BZ:141:VAL:H	1.99	0.64
1:CA:1126:U:H2'	1:CA:1127:G:H8	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BB:60:C:H2'	36:BB:61:G:H8	1.62	0.64
3:AC:23:TYR:HA	10:AJ:11:PHE:CE1	2.33	0.64
1:AA:1381:U:H2'	1:AA:1382:C:H5'	1.80	0.64
3:CC:58:GLU:O	3:CC:64:VAL:HA	1.97	0.64
36:DB:15:A:H3'	36:DB:16:G:C5'	2.27	0.64
35:BA:2881:C:H2'	35:BA:2882:A:H8	1.63	0.64
10:AJ:38:ILE:O	10:AJ:38:ILE:HG13	1.97	0.64
35:BA:1894:C:O2'	35:BA:1895:C:H5'	1.98	0.64
41:DG:19:LEU:O	41:DG:23:PHE:N	2.30	0.64
35:BA:1788:C:O2'	35:BA:1789:A:H5'	1.98	0.64
38:DD:226:MET:HB3	38:DD:230:ASP:CB	2.27	0.64
38:DD:183:ARG:HG3	38:DD:269:PHE:O	1.97	0.64
34:B8:34:TRP:O	34:B8:35:GLN:HB2	1.97	0.64
46:BP:66:GLY:O	46:BP:68:GLN:N	2.30	0.64
35:BA:2726:U:H6	45:BO:67:LYS:HZ3	1.45	0.64
50:BT:28:VAL:CG2	50:BT:47:GLY:N	2.61	0.64
50:BT:35:LYS:HE2	50:BT:41:ARG:HG3	1.79	0.64
56:BZ:136:PHE:C	56:BZ:136:PHE:CD1	2.71	0.64
42:DH:87:LEU:N	42:DH:131:VAL:O	2.31	0.64
35:DA:2893:G:H5'	35:DA:2894:G:C5'	2.12	0.64
27:B1:69:LYS:O	27:B1:73:LEU:HD12	1.98	0.64
41:BG:114:ILE:HG22	41:BG:115:ARG:N	2.13	0.64
1:CA:1313:U:P	19:CS:6:LYS:HG3	2.37	0.64
35:BA:1879:C:H2'	35:BA:1880:C:C5'	2.17	0.64
49:BS:34:HIS:HE1	49:BS:55:ALA:HB2	1.63	0.64
1:CA:404:U:H2'	1:CA:405:U:C6	2.32	0.64
27:D1:87:PRO:HB2	27:D1:91:LYS:HE3	1.78	0.64
35:BA:814:C:C5'	52:BV:86:GLY:HA3	2.28	0.64
1:AA:1434:A:H2'	1:AA:1435:G:O4'	1.97	0.64
49:DS:17:ARG:HG3	49:DS:18:ILE:HD12	1.80	0.64
27:D1:40:ARG:HG2	27:D1:41:ARG:H	1.61	0.64
44:DN:17:ASP:O	44:DN:19:GLU:N	2.30	0.64
35:DA:807:U:O2'	35:DA:808:G:H5'	1.98	0.64
25:CY:126:ARG:O	25:CY:129:ILE:N	2.31	0.64
43:BI:2:LYS:HB2	43:BI:39:ALA:CB	2.26	0.64
12:AL:27:LEU:O	12:AL:29:GLY:N	2.30	0.64
9:AI:112:LYS:HA	9:AI:119:ALA:CB	2.27	0.64
1:CA:514:C:H42	1:CA:537:G:H1	1.46	0.64
33:D7:3:ARG:O	33:D7:6:GLN:NE2	2.31	0.64
46:DP:126:VAL:HA	46:DP:145:PRO:HG2	1.78	0.64
35:DA:2673:G:H2'	35:DA:2674:G:H8	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:19:HIS:N	2:CB:39:ILE:HG21	2.12	0.64
35:DA:2487:G:H2'	35:DA:2488:A:C8	2.33	0.64
35:BA:1643:G:H2'	35:BA:1644:C:H6	1.63	0.64
1:CA:1242:C:H2'	1:CA:1243:C:C6	2.33	0.64
35:DA:1406:U:H3'	35:DA:1407:C:H6	1.63	0.64
35:DA:838:C:H42	35:DA:940:G:H1	1.44	0.64
1:CA:264:U:H2'	1:CA:265:G:O4'	1.98	0.64
35:DA:2106:G:H2'	35:DA:2107:C:O4'	1.97	0.64
35:DA:646:A:H2'	35:DA:647:G:O4'	1.98	0.64
35:BA:2065:C:H1'	35:BA:2449:U:H3	1.62	0.64
8:AH:17:THR:O	8:AH:19:VAL:N	2.31	0.64
10:CJ:38:ILE:O	10:CJ:38:ILE:HG13	1.96	0.64
5:CE:42:GLY:HA3	5:CE:66:MET:HG2	1.80	0.64
40:BF:7:TYR:HD2	40:BF:16:GLY:HA3	1.63	0.64
30:B4:29:PRO:C	30:B4:31:ILE:H	2.00	0.64
47:DQ:121:ALA:O	47:DQ:125:LEU:HD12	1.96	0.64
39:BE:36:ARG:HH22	39:BE:88:GLY:N	1.96	0.64
44:BN:9:VAL:CG1	44:BN:39:ARG:HH22	2.06	0.64
44:BN:46:VAL:HG11	44:BN:48:MET:HG3	1.78	0.64
54:BX:54:VAL:C	54:BX:55:ASN:ND2	2.51	0.64
35:BA:2206:G:C2	35:BA:2207:G:H5'	2.33	0.64
54:DX:33:LYS:C	54:DX:35:THR:N	2.44	0.64
56:DZ:116:VAL:HG12	56:DZ:117:LEU:H	1.63	0.64
10:AJ:35:SER:O	10:AJ:72:VAL:HG13	1.97	0.64
36:BB:49:C:OP1	49:BS:96:GLY:HA3	1.98	0.64
1:CA:1202:G:H2'	1:CA:1203:C:H5'	1.80	0.64
40:BF:3:GLU:HB2	40:BF:20:LEU:H	1.63	0.64
3:CC:9:GLY:HA3	14:CN:49:HIS:HA	1.80	0.64
40:DF:181:LEU:HG	40:DF:186:ILE:HD11	1.77	0.64
48:BR:53:HIS:HA	48:BR:56:LYS:HB2	1.80	0.64
43:BI:68:LEU:HD23	43:BI:68:LEU:O	1.97	0.64
2:CB:178:ARG:HB2	2:CB:178:ARG:HH11	1.63	0.64
35:DA:108:U:H2'	35:DA:109:G:C8	2.32	0.64
55:DY:37:VAL:HG13	55:DY:69:ALA:HB2	1.80	0.64
4:AD:15:GLU:HG2	4:AD:63:LYS:HG3	1.80	0.64
35:DA:2024:G:O2'	35:DA:2025:C:H5'	1.97	0.64
43:BI:14:ASP:O	43:BI:15:VAL:O	2.15	0.64
1:CA:954:G:H2'	1:CA:955:U:C6	2.32	0.64
33:B7:3:ARG:O	33:B7:6:GLN:NE2	2.31	0.64
2:CB:105:PHE:O	2:CB:108:ILE:N	2.31	0.64
11:AK:27:ASN:HA	11:AK:55:LYS:O	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:112:LYS:HA	9:CI:119:ALA:CB	2.28	0.64
1:CA:824:C:H4'	8:CH:1:MET:N	2.13	0.64
8:CH:51:VAL:HG11	8:CH:60:ARG:HG2	1.80	0.64
9:AI:111:ARG:O	9:AI:119:ALA:HB1	1.98	0.64
35:DA:2012:G:O2'	53:DW:96:ILE:HD11	1.97	0.64
56:BZ:142:SER:N	56:BZ:144:LEU:HD23	2.12	0.64
46:BP:100:LEU:H	46:BP:100:LEU:HD22	1.63	0.64
15:AO:15:PHE:HB2	15:AO:27:VAL:HG22	1.79	0.64
35:BA:493:G:C3'	35:BA:494:G:H5''	2.27	0.64
1:CA:59:A:H5''	1:CA:60:A:H5''	1.77	0.64
35:BA:2795:G:N2	35:BA:2799:C:H5'	2.12	0.64
35:BA:2625:G:H2'	35:BA:2626:C:C6	2.33	0.64
26:B0:25:ARG:HA	26:B0:29:GLN:NE2	2.12	0.64
35:DA:286:C:H42	35:DA:355:G:H1	1.45	0.64
22:CV:38:U:H2'	22:CV:39:C:C6	2.33	0.64
1:AA:565:U:H3'	1:AA:566:G:H2'	1.80	0.64
36:DB:61:G:H2'	36:DB:62:C:C6	2.33	0.64
37:BC:47:LEU:HA	37:BC:207:THR:HA	1.79	0.64
1:AA:764:C:H2'	1:AA:765:G:H8	1.61	0.64
1:CA:1003:G:H2'	1:CA:1004:A:O4'	1.97	0.64
51:DU:13:LYS:O	51:DU:16:LYS:HB3	1.98	0.64
35:BA:313:C:H2'	35:BA:314:A:H8	1.63	0.64
52:DV:52:VAL:C	52:DV:54:GLY:H	2.01	0.64
5:CE:126:ARG:C	5:CE:131:ILE:HD11	2.17	0.64
35:DA:1567:A:H2'	38:DD:84:TYR:CE2	2.32	0.64
41:DG:105:LYS:HB2	41:DG:105:LYS:NZ	2.12	0.64
41:DG:94:LEU:O	41:DG:99:MET:HB2	1.98	0.64
50:BT:48:ILE:C	50:BT:63:VAL:HG12	2.18	0.64
50:BT:52:ILE:HG22	50:BT:61:PHE:HB2	1.79	0.64
44:BN:38:HIS:O	51:BU:67:ALA:HB1	1.97	0.64
52:BV:3:ALA:CB	52:BV:14:VAL:HB	2.27	0.64
28:B2:12:GLU:O	28:B2:14:ARG:NH2	2.31	0.64
41:BG:57:ALA:HB2	41:BG:90:LEU:HD23	1.80	0.64
28:D2:53:LEU:HD12	35:DA:77:C:OP1	1.98	0.64
32:D6:12:GLU:CB	32:D6:23:THR:HG22	2.28	0.64
4:CD:155:LEU:HB2	4:CD:158:ILE:HB	1.80	0.64
27:D1:83:GLU:CD	27:D1:86:SER:H	2.01	0.64
48:DR:49:ASP:O	48:DR:50:HIS:C	2.36	0.64
49:DS:54:LEU:HD21	49:DS:59:LYS:O	1.98	0.64
2:CB:75:LYS:CA	2:CB:78:GLN:HE21	2.01	0.64
44:BN:120:LEU:HD11	44:BN:122:VAL:CG2	2.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:33:TYR:CD1	2:CB:43:ASP:HA	2.33	0.64
34:D8:50:LEU:N	34:D8:53:PRO:HG3	2.13	0.64
1:CA:571:U:H5''	1:CA:819:A:C2	2.32	0.64
35:BA:1590:U:C3'	35:BA:1591:G:H5''	2.27	0.64
33:B7:34:ARG:O	33:B7:35:ARG:C	2.36	0.64
33:B7:5:TRP:NE1	33:B7:7:PRO:HG3	2.13	0.64
2:CB:103:THR:HA	2:CB:180:LEU:HD11	1.79	0.64
23:AW:34:U:H1'	23:AW:36:A:N7	2.12	0.64
1:AA:601:C:H2'	1:AA:602:A:H8	1.62	0.64
1:AA:1499:A:C2'	1:AA:1500:A:H5'	2.28	0.64
9:AI:28:VAL:HG13	9:AI:63:ILE:O	1.98	0.64
31:D5:40:LYS:HE2	31:D5:46:CYS:HB3	1.79	0.64
9:CI:63:ILE:HD12	9:CI:63:ILE:N	2.13	0.64
45:DO:122:LEU:N	45:DO:122:LEU:HD12	2.13	0.64
40:BF:128:ALA:O	40:BF:142:TRP:NE1	2.31	0.64
1:AA:878:G:H5'	8:AH:89:PRO:CG	2.28	0.64
8:AH:89:PRO:HA	8:AH:92:ARG:NH1	2.13	0.64
2:AB:102:LEU:N	2:AB:102:LEU:HD12	2.12	0.64
1:CA:312:C:H2'	1:CA:313:A:C8	2.33	0.64
26:D0:25:ARG:HG2	26:D0:31:VAL:HG12	1.79	0.64
35:DA:2801(A):A:C3'	35:DA:2802:G:H5'	2.28	0.64
38:DD:176:ARG:HH11	38:DD:176:ARG:HG2	1.63	0.64
15:AO:37:ASN:ND2	15:AO:37:ASN:H	1.95	0.64
35:DA:2543:G:H2'	35:DA:2544:G:C8	2.32	0.64
35:BA:718:A:H3'	35:BA:719:C:C6	2.32	0.64
1:CA:770:C:O2'	1:CA:771:G:H5'	1.97	0.64
35:DA:1742:G:N7	35:DA:1743:C:N3	2.45	0.64
46:BP:86:LYS:HD3	46:BP:117:GLU:HB2	1.79	0.64
56:DZ:115:GLY:HA3	56:DZ:175:VAL:O	1.98	0.64
1:CA:1355:G:H2'	1:CA:1356:G:C8	2.32	0.64
1:CA:547:A:H4'	1:CA:548:G:O5'	1.98	0.64
50:DT:27:THR:C	50:DT:88:ILE:HD13	2.18	0.64
41:DG:37:VAL:HG11	41:DG:94:LEU:HD12	1.78	0.64
50:BT:91:ARG:O	50:BT:117:ASP:HB2	1.97	0.64
56:BZ:128:VAL:HG22	56:BZ:129:SER:H	1.63	0.64
35:DA:2491:U:H4'	35:DA:2570:G:OP1	1.98	0.64
1:AA:1190:G:H3'	3:AC:3:ASN:OD1	1.98	0.64
35:BA:528:A:C2	35:BA:2042:A:H2'	2.33	0.64
35:BA:70:G:H2'	35:BA:113:G:O2'	1.98	0.64
39:DE:36:ARG:HH22	39:DE:88:GLY:N	1.96	0.64
36:BB:45:A:H1'	41:BG:95:ARG:NH2	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:150:ALA:O	42:BH:152:ARG:N	2.31	0.64
49:BS:62:LYS:N	49:BS:62:LYS:HD3	2.12	0.64
1:CA:542:G:H2'	1:CA:543:C:H6	1.61	0.64
4:CD:121:VAL:O	4:CD:134:ASP:HA	1.98	0.64
4:CD:15:GLU:HG2	4:CD:63:LYS:HG3	1.80	0.64
47:BQ:35:VAL:HG12	47:BQ:130:LYS:HB3	1.79	0.64
35:BA:237:C:H2'	35:BA:238:C:H6	1.63	0.64
40:BF:182:ASN:ND2	40:BF:185:ASP:OD2	2.31	0.64
40:BF:41:LEU:O	40:BF:44:ARG:HG3	1.98	0.64
35:BA:1257:C:O2'	40:BF:84:VAL:HG23	1.98	0.64
35:DA:1587:A:H2'	35:DA:1588:C:O4'	1.97	0.64
35:DA:1280:G:H3'	35:DA:1281:G:H5''	1.79	0.64
3:AC:112:SER:HB3	3:AC:115:LEU:HD12	1.79	0.64
2:CB:12:GLU:OE2	2:CB:214:ILE:HD11	1.98	0.64
47:BQ:116:GLU:O	47:BQ:119:ARG:HB3	1.98	0.64
35:BA:8:A:C4	35:BA:9:U:C5	2.86	0.64
46:DP:41:ARG:HD2	46:DP:41:ARG:N	2.12	0.64
4:AD:120:LEU:H	4:AD:120:LEU:CD1	2.02	0.64
1:CA:1499:A:H2'	1:CA:1500:A:H8	1.62	0.64
2:AB:111:ARG:NH1	2:AB:111:ARG:HG2	2.09	0.64
19:CS:62:ILE:HD12	19:CS:66:MET:HG3	1.78	0.64
16:AP:6:LEU:HB3	16:AP:17:TYR:CD2	2.32	0.64
13:AM:90:LEU:C	13:AM:92:HIS:N	2.51	0.64
9:CI:79:LEU:HD13	9:CI:79:LEU:O	1.98	0.64
12:AL:89:ARG:HH11	12:AL:89:ARG:C	2.01	0.64
8:AH:10:LEU:N	8:AH:10:LEU:HD23	2.12	0.64
9:AI:116:LYS:O	9:AI:118:LYS:N	2.31	0.64
46:DP:81:GLN:NE2	46:DP:106:LEU:HA	2.12	0.64
46:BP:126:VAL:HA	46:BP:145:PRO:HB2	1.78	0.64
5:AE:103:GLY:O	5:AE:106:PRO:HD2	1.98	0.64
35:BA:2872:G:C2	35:BA:2873:A:N6	2.66	0.64
1:AA:1091:U:H2'	1:AA:1093:A:OP2	1.97	0.64
53:DW:12:ILE:CD1	53:DW:42:ARG:HH11	2.11	0.64
7:CG:146:GLU:HA	7:CG:149:ARG:HB2	1.80	0.64
53:DW:51:LEU:C	53:DW:51:LEU:HD13	2.17	0.64
7:AG:16:LEU:HD13	9:AI:41:VAL:HG12	1.80	0.64
1:AA:189(H):G:H2'	1:AA:189(I):G:H8	1.63	0.64
38:BD:125:ILE:HD12	38:BD:125:ILE:N	2.12	0.64
35:DA:519:U:H5''	53:DW:25:ARG:NH2	2.13	0.64
1:AA:264:U:H2'	1:AA:265:G:O4'	1.98	0.64
10:CJ:39:PRO:HA	10:CJ:70:ARG:HA	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:35:LYS:CE	38:DD:104:TYR:HB2	2.28	0.63
41:DG:36:LYS:H	41:DG:160:VAL:HB	1.62	0.63
41:DG:36:LYS:N	41:DG:160:VAL:HB	2.13	0.63
34:B8:32:LEU:HD22	35:BA:2419:U:O5'	1.97	0.63
34:B8:40:GLU:OE1	34:B8:44:LYS:HE3	1.98	0.63
56:BZ:7:ALA:H	56:BZ:62:PRO:HD3	1.63	0.63
39:DE:116:VAL:O	39:DE:117:MET:CB	2.45	0.63
52:BV:61:VAL:HG12	52:BV:62:LEU:H	1.62	0.63
34:D8:62:LEU:HD13	35:DA:242:G:C5'	2.16	0.63
28:B2:45:SER:HA	28:B2:48:HIS:HB2	1.80	0.63
54:BX:36:LYS:C	54:BX:38:GLU:N	2.51	0.63
28:D2:21:LEU:HD22	28:D2:50:ILE:HG22	1.80	0.63
56:DZ:148:ASP:OD1	56:DZ:149:SER:N	2.29	0.63
27:D1:58:ILE:CD1	27:D1:59:THR:N	2.61	0.63
46:DP:62:LEU:N	46:DP:62:LEU:HD13	2.12	0.63
44:DN:67:LEU:HA	44:DN:88:GLU:HG3	1.80	0.63
35:BA:587:C:C4	46:BP:33:ARG:HD2	2.33	0.63
20:AT:36:LEU:CD2	20:AT:36:LEU:H	2.11	0.63
35:DA:2069:G:O2'	35:DA:2070:G:H5'	1.98	0.63
35:DA:577:G:H2'	35:DA:578:A:C8	2.33	0.63
18:AR:36:ASN:ND2	18:AR:39:VAL:HB	2.14	0.63
35:DA:17:G:H4'	51:DU:25:TRP:CZ3	2.32	0.63
43:BI:5:LEU:N	43:BI:5:LEU:HD23	2.13	0.63
11:AK:58:PRO:HD3	11:AK:89:ALA:HB1	1.79	0.63
20:AT:64:ASP:C	20:AT:66:ALA:H	2.02	0.63
9:CI:111:ARG:HG2	9:CI:112:LYS:N	2.11	0.63
1:AA:560:U:O2'	1:AA:561:U:OP2	2.15	0.63
46:BP:80:TYR:CE1	46:BP:111:ARG:HB3	2.33	0.63
35:BA:2801(A):A:C4'	35:BA:2802:G:H2'	2.27	0.63
1:AA:1253:G:H5'	10:AJ:44:VAL:HG12	1.79	0.63
35:DA:2801(A):A:C4'	35:DA:2802:G:H2'	2.28	0.63
26:B0:25:ARG:HG2	26:B0:31:VAL:HG12	1.79	0.63
35:BA:1301:A:HO2'	35:BA:1302:A:P	2.20	0.63
1:AA:1405:G:O2'	1:AA:1406:U:H5'	1.99	0.63
15:AO:36:ILE:HD12	15:AO:63:ARG:HD3	1.78	0.63
45:BO:13:ASN:HD22	45:BO:97:ARG:CG	2.10	0.63
35:BA:556:G:H2'	35:BA:557:U:C6	2.33	0.63
1:CA:648:A:H2'	1:CA:649:G:H8	1.63	0.63
35:DA:2838:G:O2'	35:DA:2839:G:H5'	1.98	0.63
35:BA:2410:G:C2	35:BA:2411:A:H1'	2.33	0.63
35:BA:2887:U:O2'	35:BA:2888:C:H5'	1.98	0.63

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1163:C:H2'	1:CA:1164:G:H8	1.63	0.63
11:AK:86:GLY:H	11:AK:112:THR:HG23	1.63	0.63
6:AF:37:VAL:HA	6:AF:65:VAL:HG12	1.80	0.63
1:CA:1007:C:H2'	1:CA:1008:C:C6	2.34	0.63
35:DA:2861:G:O2'	35:DA:2862:G:H5'	1.98	0.63
1:AA:758:G:H8	1:AA:758:G:O5'	1.81	0.63
35:DA:1754:C:H5'	50:DT:101:PHE:CE1	2.33	0.63
38:DD:183:ARG:HG2	38:DD:183:ARG:HH11	1.63	0.63
41:DG:144:ILE:CG1	41:DG:145:THR:N	2.56	0.63
56:BZ:70:LEU:HB2	56:BZ:91:LEU:HD11	1.80	0.63
35:DA:2056:G:N2	35:DA:2057:A:H1'	2.14	0.63
42:DH:136:ILE:O	42:DH:137:ASP:HB2	1.97	0.63
27:B1:87:PRO:HG2	27:B1:88:LYS:H	1.63	0.63
28:D2:32:LEU:HG	28:D2:33:MET:N	2.13	0.63
52:DV:37:VAL:HG12	52:DV:38:LEU:N	2.13	0.63
4:CD:65:ARG:HH11	4:CD:72:GLU:N	1.97	0.63
4:CD:19:LEU:HD23	4:CD:67:ILE:HA	1.80	0.63
47:BQ:34:LEU:CD1	47:BQ:129:THR:HB	2.27	0.63
40:BF:199:TRP:O	40:BF:203:GLN:HG2	1.98	0.63
46:BP:16:ARG:NH1	46:BP:18:ARG:HG3	2.13	0.63
40:DF:7:TYR:HD2	40:DF:16:GLY:HA3	1.63	0.63
35:BA:910:A:H62	47:BQ:12:GLN:HA	1.64	0.63
1:AA:328:C:H2'	1:AA:328:C:O2	1.97	0.63
35:BA:2707:G:H5''	48:BR:68:ARG:HH21	1.63	0.63
48:BR:29:LEU:HD23	48:BR:70:LEU:HD11	1.79	0.63
49:DS:34:HIS:HE1	49:DS:55:ALA:HB2	1.63	0.63
44:DN:57:ALA:HB1	44:DN:60:ILE:HD11	1.81	0.63
35:DA:807:U:H2'	35:DA:808:G:C8	2.33	0.63
35:DA:814:C:C5'	52:DV:86:GLY:HA3	2.27	0.63
55:DY:31:LEU:HD23	55:DY:36:ALA:HB3	1.80	0.63
47:BQ:51:ARG:O	47:BQ:55:VAL:HG13	1.99	0.63
1:CA:1518:A:C2	1:CA:1519:A:C2	2.86	0.63
51:DU:18:LEU:CD2	51:DU:22:LYS:HE2	2.28	0.63
51:DU:6:THR:O	51:DU:8:VAL:N	2.28	0.63
12:CL:70:ILE:HG13	12:CL:100:ILE:HD12	1.80	0.63
13:CM:90:LEU:O	13:CM:92:HIS:N	2.28	0.63
20:CT:51:GLU:O	20:CT:55:ILE:HG12	1.99	0.63
7:AG:91:VAL:HG13	7:AG:95:ARG:HD3	1.80	0.63
11:AK:103:LEU:N	11:AK:103:LEU:HD22	2.04	0.63
35:DA:1590:U:C3'	35:DA:1591:G:H5''	2.28	0.63
35:DA:2745:C:H2'	35:DA:2746:U:C6	2.34	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:88:GLY:O	11:AK:91:ARG:HB2	1.97	0.63
1:CA:1106:G:H2'	1:CA:1107:C:C6	2.33	0.63
2:CB:115:LEU:HG	2:CB:116:GLU:N	2.13	0.63
45:BO:119:PRO:HB2	50:BT:68:TYR:CD1	2.33	0.63
25:CY:83:ILE:O	25:CY:86:SER:N	2.29	0.63
1:CA:560:U:O2'	1:CA:561:U:OP2	2.13	0.63
9:AI:50:LEU:HB3	9:AI:55:ALA:HB3	1.80	0.63
29:B3:4:LEU:HD21	29:B3:56:VAL:CG1	2.28	0.63
12:CL:45:PRO:HB2	12:CL:49:ASN:O	1.98	0.63
15:AO:18:PHE:CZ	15:AO:21:ASP:HB2	2.33	0.63
35:DA:2199:A:H5'	35:DA:2200:C:OP2	1.99	0.63
51:BU:3:ARG:HH11	51:BU:3:ARG:CG	2.10	0.63
35:BA:2801(A):A:C3'	35:BA:2802:G:H5'	2.29	0.63
1:CA:9:G:H5'	5:CE:122:GLU:OE2	1.98	0.63
2:AB:22:LYS:HZ2	2:AB:22:LYS:HA	1.62	0.63
38:DD:175:LEU:HD23	38:DD:176:ARG:N	2.13	0.63
35:BA:1291:C:O2'	35:BA:1292:U:H5'	1.98	0.63
35:DA:2772:C:H2'	35:DA:2773:C:H6	1.62	0.63
35:DA:1031:G:N2	35:DA:1124:C:H1'	2.13	0.63
17:CQ:77:VAL:O	17:CQ:78:GLU:HB3	1.98	0.63
51:BU:30:LYS:HE3	51:BU:30:LYS:HA	1.81	0.63
46:DP:86:LYS:HD3	46:DP:117:GLU:HB2	1.78	0.63
39:DE:154:LYS:HA	39:DE:154:LYS:HE3	1.79	0.63
38:BD:45:ASN:CG	38:BD:46:GLN:N	2.51	0.63
45:BO:104:ARG:HH21	50:BT:33:LYS:HE3	1.63	0.63
50:BT:99:LEU:O	50:BT:99:LEU:HD13	1.97	0.63
35:BA:1150:C:O2'	35:BA:1151:G:H5'	1.98	0.63
39:DE:197:ILE:HD11	39:DE:199:ARG:HH22	1.62	0.63
35:BA:2312:U:C2'	35:BA:2313:C:H5''	2.27	0.63
45:DO:111:PHE:HB3	45:DO:114:ILE:CD1	2.29	0.63
1:CA:404:U:H2'	1:CA:405:U:H6	1.64	0.63
35:BA:575:A:H2'	35:BA:576:U:H5'	1.80	0.63
52:BV:71:LEU:HD13	52:BV:72:VAL:N	2.13	0.63
40:DF:3:GLU:HB2	40:DF:20:LEU:H	1.64	0.63
35:BA:1327:C:H2'	35:BA:1328:G:O4'	1.99	0.63
36:DB:52:A:HO2'	36:DB:53:A:H8	1.46	0.63
2:CB:165:VAL:CG2	2:CB:166:ASP:N	2.59	0.63
1:AA:375:U:H2'	1:AA:376:G:C8	2.33	0.63
35:BA:743:G:O2'	35:BA:744:G:H5'	1.97	0.63
3:CC:173:VAL:N	3:CC:174:PRO:HD3	2.14	0.63
43:DI:2:LYS:HB2	43:DI:39:ALA:CB	2.26	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1348:U:H4'	9:CI:120:ARG:HD2	1.79	0.63
9:CI:3:GLN:HG2	9:CI:20:ARG:HH21	1.64	0.63
46:DP:111:ARG:HA	46:DP:128:HIS:ND1	2.13	0.63
35:DA:759:G:H2'	35:DA:760:G:C8	2.33	0.63
23:AW:49:C:O2'	23:AW:60:A:H4'	1.98	0.63
1:AA:32:A:H2'	1:AA:33:A:H8	1.59	0.63
1:CA:328:C:H2'	1:CA:328:C:O2	1.98	0.63
35:BA:2626:C:H2'	35:BA:2627:G:C8	2.34	0.63
24:CX:13:A:O2'	24:CX:14:U:H5'	1.98	0.63
10:AJ:32:ALA:HB1	10:AJ:75:ILE:CG1	2.28	0.63
1:CA:155:C:H2'	1:CA:156:G:C8	2.34	0.63
3:CC:73:PRO:HA	3:CC:76:VAL:CG1	2.28	0.63
35:DA:1518:U:H2'	35:DA:1519:G:O4'	1.98	0.63
35:DA:1523:U:H2'	35:DA:1524:G:H8	1.63	0.63
35:BA:116:C:O2'	35:BA:117:G:H5'	1.99	0.63
45:BO:47:ILE:HG23	45:BO:48:PRO:HD2	1.80	0.63
42:BH:31:GLY:O	42:BH:79:VAL:HG11	1.97	0.63
35:DA:1758:G:N7	35:DA:2695:C:H4'	2.13	0.63
32:B6:12:GLU:CB	32:B6:23:THR:HG22	2.29	0.63
35:BA:1991:U:H2'	35:BA:1992:G:H5'	1.79	0.63
1:AA:950:U:H2'	1:AA:951:G:C8	2.34	0.63
27:B1:53:VAL:HG12	27:B1:58:ILE:HG22	1.80	0.63
41:BG:67:LYS:H	41:BG:67:LYS:CD	2.09	0.63
54:DX:36:LYS:C	54:DX:38:GLU:N	2.51	0.63
54:DX:77:LYS:HE3	54:DX:78:LYS:N	2.12	0.63
42:BH:162:ILE:HD12	42:BH:162:ILE:C	2.18	0.63
47:DQ:140:ALA:HB1	56:DZ:99:TYR:H	1.64	0.63
4:CD:13:ARG:HD3	4:CD:38:TYR:O	1.98	0.63
40:DF:117:ARG:HH21	40:DF:187:VAL:HA	1.64	0.63
50:BT:96:ARG:HH11	50:BT:96:ARG:CG	2.12	0.63
6:CF:49:ALA:HB1	18:CR:80:PRO:HG3	1.79	0.63
4:AD:127:THR:HG22	4:AD:149:ALA:H	1.63	0.63
3:AC:16:ARG:CB	3:AC:16:ARG:HH11	2.12	0.63
1:CA:570:G:H2'	1:CA:571:U:C6	2.33	0.63
35:DA:1131:G:OP1	44:DN:80:GLY:HA2	1.99	0.63
27:B1:33:LYS:HB2	35:BA:2395:C:O2'	1.99	0.63
11:CK:29:ILE:HD12	11:CK:29:ILE:C	2.18	0.63
35:BA:1605:C:H5'	35:BA:1610:A:N6	2.14	0.63
2:AB:172:ILE:H	2:AB:172:ILE:CD1	2.07	0.63
1:AA:1341:U:O2'	1:AA:1342:C:H5'	1.98	0.63
46:BP:95:VAL:HG23	46:BP:125:VAL:HB	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BP:130:PHE:CD2	46:BP:130:PHE:N	2.67	0.63
7:AG:121:ALA:HA	7:AG:124:LEU:HD12	1.81	0.63
35:DA:271(V):G:H2'	35:DA:271(W):G:O4'	1.97	0.63
5:CE:76:ILE:HD11	5:CE:142:LEU:HD11	1.80	0.63
35:DA:1153:C:H2'	35:DA:1154:G:O4'	1.98	0.63
1:CA:1470:G:O2'	1:CA:1471:G:H5'	1.99	0.63
35:BA:45:C:OP2	35:BA:215:G:H2'	1.97	0.63
1:AA:668:G:O4'	15:AO:49:ASP:HB2	1.97	0.63
25:CY:69:GLN:HA	25:CY:97:ASP:O	1.98	0.63
6:CF:98:LEU:H	6:CF:98:LEU:HD12	1.63	0.63
1:AA:648:A:H2'	1:AA:649:G:H8	1.63	0.63
35:DA:1887:C:H3'	35:DA:1888:G:H5''	1.80	0.63
38:DD:80:ALA:HB3	38:DD:94:LEU:CD1	2.28	0.63
10:CJ:8:LEU:HA	10:CJ:96:ILE:HG22	1.79	0.63
47:DQ:34:LEU:HD11	47:DQ:129:THR:CB	2.25	0.63
56:BZ:60:GLU:O	56:BZ:62:PRO:HD3	1.99	0.63
35:BA:534:U:O3'	51:BU:46:ALA:HB2	1.99	0.63
54:BX:57:LEU:HB2	54:BX:76:ARG:CD	2.29	0.63
41:BG:76:SER:CB	41:BG:84:LYS:H	2.12	0.63
44:DN:43:THR:O	44:DN:46:VAL:N	2.31	0.63
19:CS:36:ARG:HH12	19:CS:75:ALA:HB3	1.64	0.63
36:DB:74:U:H2'	36:DB:75:G:C5'	2.18	0.63
35:BA:1196:C:H2'	35:BA:1197:G:C8	2.33	0.63
35:BA:581:C:O2'	35:BA:582:G:H5'	1.99	0.63
40:DF:110:LEU:HD21	40:DF:181:LEU:HD23	1.80	0.63
35:BA:2467:C:H2'	35:BA:2468:G:H5'	1.79	0.63
44:BN:17:ASP:C	44:BN:19:GLU:N	2.52	0.63
6:CF:68:PRO:HG3	6:CF:71:ARG:NH2	2.11	0.63
18:CR:78:LEU:O	18:CR:79:LEU:HG	1.98	0.63
35:DA:2061:G:H5''	35:DA:2503:A:C2	2.33	0.63
2:AB:115:LEU:HG	2:AB:116:GLU:N	2.12	0.63
20:CT:37:SER:O	20:CT:40:ALA:HB3	1.98	0.63
25:AY:176:ALA:O	25:AY:180:GLU:HG3	1.99	0.63
35:BA:975(A):G:OP1	52:BV:79:VAL:HG13	1.97	0.63
47:BQ:82:ARG:NH1	47:BQ:82:ARG:HG2	2.13	0.63
55:BY:37:VAL:HG13	55:BY:69:ALA:HB2	1.81	0.63
22:AV:38:U:H2'	22:AV:39:C:H6	1.62	0.63
46:BP:85:LEU:HA	46:BP:88:LEU:CB	2.26	0.63
35:BA:1049:C:H2'	35:BA:1050:A:H8	1.63	0.63
33:D7:30:VAL:HG13	33:D7:33:ARG:HH22	1.64	0.63
46:DP:80:TYR:CD1	46:DP:111:ARG:HB3	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1938:A:H2	35:BA:2590:A:H1'	1.62	0.63
31:B5:20:ARG:HH12	53:BW:15:ARG:CZ	2.12	0.63
17:CQ:45:HIS:HB2	17:CQ:69:LYS:HE2	1.78	0.63
53:DW:75:TYR:N	53:DW:75:TYR:CD1	2.63	0.63
35:BA:2203:U:O4'	38:BD:151:LYS:HE3	1.99	0.63
35:DA:2103:C:H2'	35:DA:2104:G:H5''	1.81	0.63
1:CA:342:C:O2'	1:CA:343:U:H5'	1.98	0.63
35:DA:2521:C:N4	35:DA:2544:G:H1	1.97	0.63
7:CG:16:LEU:HD13	9:CI:41:VAL:HG12	1.81	0.63
45:BO:3:GLN:HB2	45:BO:4:PRO:HD2	1.79	0.63
35:DA:426:C:O2'	35:DA:427:U:H5'	1.99	0.63
41:BG:42:GLY:HA2	41:BG:89:GLY:HA2	1.79	0.63
1:CA:17:U:H2'	1:CA:18:C:H6	1.64	0.63
5:CE:43:LEU:HD12	5:CE:44:GLY:N	2.14	0.63
35:BA:1998:G:H2'	35:BA:1999:C:C6	2.33	0.63
50:BT:94:ALA:HB1	50:BT:99:LEU:HD23	1.81	0.63
56:BZ:150:LEU:HD23	56:BZ:171:ILE:HG13	1.80	0.63
56:BZ:4:ARG:HG2	56:BZ:58:VAL:O	1.98	0.63
56:BZ:3:TYR:C	56:BZ:57:ILE:HG23	2.19	0.63
39:BE:48:GLN:HG2	39:BE:78:LEU:HD12	1.81	0.63
54:BX:72:LYS:CE	54:BX:74:PRO:HB3	2.23	0.63
39:DE:36:ARG:HH22	39:DE:88:GLY:H	1.45	0.63
41:BG:19:LEU:HD21	41:BG:175:LEU:HD13	1.79	0.63
28:D2:20:GLU:O	28:D2:23:LYS:N	2.31	0.63
28:D2:26:ARG:HD3	54:DX:5:TYR:CD1	2.34	0.63
28:D2:52:ASP:O	28:D2:54:LYS:N	2.31	0.63
54:DX:54:VAL:C	54:DX:55:ASN:ND2	2.52	0.63
42:BH:86:GLU:H	42:BH:86:GLU:CD	2.02	0.63
52:DV:14:VAL:HG12	52:DV:15:GLU:H	1.64	0.63
35:DA:2469:A:H2	35:DA:2481:G:H21	1.46	0.63
27:D1:88:LYS:C	27:D1:90:ILE:N	2.46	0.63
34:D8:38:GLY:O	34:D8:39:LYS:HB3	1.97	0.63
27:B1:25:LYS:CB	27:B1:37:ILE:HD11	2.28	0.63
48:DR:9:LYS:HE3	48:DR:43:GLU:OE2	1.98	0.63
48:DR:74:LYS:O	48:DR:77:ARG:N	2.32	0.63
20:AT:37:SER:O	20:AT:40:ALA:HB3	1.99	0.63
35:BA:1453:U:H5'	48:BR:63:ARG:NE	2.14	0.63
2:AB:194:PRO:O	2:AB:196:LEU:N	2.29	0.63
44:BN:58:ASP:O	44:BN:60:ILE:N	2.30	0.63
15:CO:37:ASN:H	15:CO:37:ASN:ND2	1.95	0.63
6:AF:62:TRP:CB	18:AR:35:ARG:HH12	2.12	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:565:C:O3'	52:DV:81:TYR:HE1	1.80	0.63
16:AP:6:LEU:HD12	16:AP:6:LEU:N	2.14	0.63
35:DA:2387:U:H5'	35:DA:2388:A:OP2	1.98	0.63
2:CB:115:LEU:HB2	2:CB:145:LEU:HD11	1.79	0.63
8:CH:88:LYS:HB3	8:CH:89:PRO:HD2	1.81	0.63
31:B5:49:CYS:HB2	31:B5:59:GLU:OE1	1.98	0.63
46:DP:130:PHE:N	46:DP:130:PHE:CD2	2.67	0.63
35:BA:543:C:N4	35:BA:551:G:N1	2.47	0.63
35:DA:492:A:H2'	35:DA:493:G:O4'	1.98	0.63
35:BA:2012:G:O2'	53:BW:96:ILE:HD11	1.99	0.63
38:DD:117:VAL:HG22	38:DD:118:VAL:H	1.61	0.63
17:CQ:60:ILE:HG12	17:CQ:61:GLU:O	1.98	0.63
35:DA:1300:U:H1'	35:DA:1626:G:C2	2.34	0.63
31:D5:25:LEU:CD1	53:DW:19:LEU:HB3	2.28	0.63
16:CP:82:GLN:NE2	16:CP:82:GLN:N	2.45	0.63
35:BA:1946:U:O2'	35:BA:1947:C:H5'	1.98	0.63
35:DA:863:A:O2'	35:DA:864:G:H5'	1.98	0.63
23:AW:11:A:H2'	23:AW:12:G:C8	2.33	0.63
35:BA:189:G:H2'	35:BA:205:G:H22	1.62	0.63
36:DB:65:C:C2'	36:DB:66:A:H5'	2.28	0.63
1:CA:245:C:O2'	1:CA:246:A:H5'	1.99	0.63
35:DA:2814:C:H2'	35:DA:2815:C:H6	1.61	0.63
10:CJ:32:ALA:H	10:CJ:78:ASN:CG	2.01	0.63
1:AA:1030(A):G:H1'	1:AA:1031:G:H1	1.63	0.63
1:CA:786:G:H1	1:CA:796:C:N4	1.97	0.63
3:CC:119:ARG:NH2	3:CC:140:ARG:CZ	2.62	0.63
39:BE:93:VAL:C	39:BE:95:ILE:H	2.02	0.63
35:BA:646:A:H2'	35:BA:647:G:O4'	1.98	0.63
1:AA:334:C:O2'	1:AA:335:C:H5'	1.98	0.63
9:CI:126:SER:O	9:CI:127:LYS:HB3	1.99	0.63
1:CA:865:A:H5'	1:CA:1078:U:H5	1.64	0.63
34:B8:32:LEU:O	34:B8:34:TRP:N	2.29	0.63
56:BZ:58:VAL:HG13	56:BZ:68:PRO:N	2.14	0.63
54:DX:55:ASN:HD22	54:DX:55:ASN:N	1.97	0.63
54:DX:81:VAL:HG12	54:DX:82:GLN:O	1.99	0.63
54:DX:81:VAL:HG13	54:DX:85:PRO:HB2	1.80	0.63
54:DX:83:VAL:O	54:DX:84:ALA:HB3	1.98	0.63
56:DZ:104:PHE:CE2	56:DZ:122:ARG:HA	2.34	0.63
56:DZ:28:MET:HE1	56:DZ:59:LEU:HD12	1.81	0.63
56:DZ:53:ILE:HG22	56:DZ:71:VAL:HB	1.81	0.63
35:DA:1150:C:O2'	35:DA:1151:G:H5'	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DU:61:TRP:HB3	51:DU:93:LYS:O	1.98	0.63
10:AJ:5:ARG:HG3	10:AJ:73:ASP:OD1	1.99	0.63
4:CD:117:ALA:O	4:CD:121:VAL:HG23	1.99	0.63
4:CD:127:THR:CG2	4:CD:149:ALA:H	2.12	0.63
4:CD:56:VAL:O	4:CD:58:LEU:N	2.32	0.63
43:DI:140:LEU:HD12	43:DI:141:LYS:H	1.60	0.63
40:BF:114:VAL:CG2	40:BF:115:ALA:H	2.11	0.63
39:BE:119:ARG:HD2	39:BE:120:TRP:NE1	2.14	0.63
55:BY:86:ARG:NH2	55:BY:95:LYS:HZ2	1.97	0.63
48:BR:20:LEU:HD12	48:BR:21:TYR:N	2.14	0.63
49:DS:88:ASP:OD2	49:DS:89:ARG:N	2.29	0.63
35:DA:811:U:H1'	35:DA:1251:C:C5'	2.29	0.63
35:DA:2065:C:H1'	35:DA:2449:U:H3	1.63	0.63
43:DI:96:ASP:HA	43:DI:99:GLU:HB3	1.81	0.63
27:B1:26:ARG:CB	27:B1:34:THR:OG1	2.46	0.63
1:CA:880:C:O2'	1:CA:881:G:H5'	1.99	0.63
2:CB:100:GLY:HA2	2:CB:103:THR:HB	1.80	0.63
13:AM:90:LEU:O	13:AM:92:HIS:N	2.29	0.63
1:AA:1149:C:H2'	1:AA:1150:U:H6	1.63	0.63
9:AI:71:SER:HA	9:AI:74:ILE:HD12	1.81	0.63
8:CH:1:MET:HE2	8:CH:2:LEU:N	2.13	0.63
46:DP:124:LYS:HA	46:DP:143:GLY:N	2.14	0.63
46:DP:99:LEU:HD12	46:DP:102:ARG:HD2	1.81	0.63
46:BP:126:VAL:HA	46:BP:145:PRO:CG	2.29	0.63
1:CA:123:C:OP1	1:CA:312:C:H5'	1.99	0.63
35:DA:1625:C:H2'	35:DA:1626:G:O4'	1.99	0.63
1:AA:237:C:H4'	17:AQ:25:ARG:NH1	2.13	0.63
1:CA:101:A:H2'	1:CA:102:G:H8	1.63	0.63
38:DD:155:LEU:O	38:DD:156:ALA:C	2.37	0.63
35:DA:1938:A:H2	35:DA:2590:A:H1'	1.64	0.63
5:CE:102:ALA:HB1	5:CE:106:PRO:CG	2.29	0.63
32:B6:32:ASN:ND2	32:B6:33:LYS:H	1.95	0.63
54:BX:68:ARG:HG3	54:BX:69:TYR:CD1	2.34	0.63
25:AY:73:GLN:HG3	25:AY:74:ASN:N	2.14	0.63
1:CA:903:G:H2'	1:CA:904:C:H6	1.62	0.63
7:CG:36:LYS:HA	7:CG:39:ALA:HB2	1.80	0.63
1:CA:1162:C:H2'	1:CA:1163:C:C6	2.33	0.63
3:AC:119:ARG:HH21	3:AC:140:ARG:CZ	2.12	0.63
35:DA:2609:U:H4'	35:DA:2609:U:OP1	1.97	0.63
35:BA:2197:U:H1'	35:BA:2198:A:C8	2.33	0.63
7:CG:42:ILE:HA	7:CG:45:ASP:HB2	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DO:2:ILE:HD12	45:DO:6:THR:HG21	1.79	0.62
50:DT:48:ILE:HD12	50:DT:48:ILE:N	2.13	0.62
45:DO:77:ILE:HD12	50:DT:73:GLU:O	1.99	0.62
38:DD:227:ASN:HB3	38:DD:228:PRO:HD2	1.81	0.62
41:DG:109:VAL:HG12	41:DG:140:ILE:O	1.98	0.62
34:B8:46:ARG:O	34:B8:47:LYS:HB3	1.97	0.62
46:BP:66:GLY:O	46:BP:68:GLN:HG2	1.98	0.62
35:BA:1665:A:O2'	35:BA:1666:G:H5'	1.99	0.62
56:BZ:126:VAL:CA	56:BZ:164:ALA:HB3	2.29	0.62
56:BZ:58:VAL:HA	56:BZ:68:PRO:HA	1.81	0.62
39:BE:35:GLN:HE22	39:BE:37:ARG:NH2	1.97	0.62
35:BA:1159:U:H2'	35:BA:1160:G:H5'	1.79	0.62
44:BN:9:VAL:HG12	44:BN:10:GLU:N	2.14	0.62
52:BV:61:VAL:CG2	52:BV:100:ARG:HG2	2.29	0.62
54:BX:51:VAL:CG1	54:BX:80:ILE:H	2.12	0.62
35:BA:598:G:H5'	46:BP:15:ARG:HB2	1.80	0.62
46:BP:16:ARG:CZ	46:BP:18:ARG:HB2	2.29	0.62
27:D1:76:ARG:O	27:D1:77:ALA:HB3	1.99	0.62
35:BA:196:A:H5''	46:BP:46:LYS:NZ	2.13	0.62
40:DF:182:ASN:ND2	40:DF:185:ASP:OD2	2.32	0.62
35:DA:1275:A:C5	48:DR:16:HIS:ND1	2.68	0.62
48:DR:2:ARG:CZ	48:DR:5:LYS:HE3	2.28	0.62
48:DR:9:LYS:NZ	48:DR:42:LYS:HB3	2.13	0.62
1:AA:386:C:C2'	1:AA:387:U:H5'	2.29	0.62
20:AT:23:ARG:O	20:AT:27:LYS:HB2	1.98	0.62
49:DS:38:GLN:OE1	49:DS:47:THR:HG23	1.98	0.62
56:BZ:149:SER:HB3	56:BZ:173:ALA:CA	2.26	0.62
1:CA:661:G:H2'	1:CA:662:G:H8	1.64	0.62
2:CB:73:THR:HG22	2:CB:94:ASN:HA	1.79	0.62
40:DF:52:LYS:HD3	40:DF:57:VAL:HA	1.80	0.62
52:DV:71:LEU:HD13	52:DV:72:VAL:N	2.13	0.62
35:DA:692:C:O2'	35:DA:693:C:H5'	1.98	0.62
4:AD:79:PHE:HA	4:AD:93:PHE:CD2	2.34	0.62
12:AL:9:GLN:O	12:AL:11:VAL:N	2.32	0.62
47:DQ:71:ASP:O	47:DQ:73:PRO:HD3	1.99	0.62
18:AR:22:VAL:HA	18:AR:25:THR:OG1	1.99	0.62
50:BT:10:VAL:C	50:BT:12:SER:N	2.46	0.62
25:CY:169:ILE:O	25:CY:172:ALA:CB	2.47	0.62
1:AA:1227:A:OP2	13:AM:111:LYS:HE3	1.98	0.62
20:AT:100:ILE:HG22	20:AT:102:GLY:H	1.62	0.62
1:AA:16:A:N1	1:AA:919:A:H2	1.96	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:924:C:H2'	1:AA:925:G:H8	1.64	0.62
9:AI:17:VAL:HG22	9:AI:63:ILE:HG23	1.81	0.62
38:BD:186:HIS:CD2	38:BD:188:GLU:H	2.14	0.62
23:AW:10:G:O5'	23:AW:10:G:H8	1.81	0.62
38:DD:120:GLY:O	38:DD:131:LEU:HB3	1.99	0.62
35:BA:18:C:H2'	35:BA:19:C:C6	2.32	0.62
1:CA:104:G:O2'	1:CA:105:G:H5'	1.99	0.62
35:BA:2777:G:H5''	35:BA:2778:A:H5''	1.81	0.62
26:D0:40:GLN:HE21	26:D0:43:THR:HA	1.64	0.62
1:AA:580:U:H2'	1:AA:581:G:O4'	1.99	0.62
1:CA:943:U:H6	1:CA:943:U:O5'	1.82	0.62
35:DA:1428:C:N4	35:DA:1569:A:H3'	2.14	0.62
35:DA:230:U:H2'	35:DA:230:U:O2	1.97	0.62
12:CL:119:LYS:HB2	12:CL:120:TYR:HD1	1.63	0.62
35:DA:285:C:C2'	35:DA:286:C:H5''	2.27	0.62
3:AC:111:LEU:CD2	3:AC:146:ALA:HB2	2.29	0.62
38:DD:10:THR:HG23	38:DD:13:ARG:CB	2.28	0.62
1:AA:20:U:O2'	1:AA:21:G:H5'	1.99	0.62
35:DA:2111:C:H5'	35:DA:2112:G:OP1	1.98	0.62
1:CA:77:G:H1	1:CA:92:C:H42	1.47	0.62
36:BB:35:U:O2'	36:BB:36:C:H5'	1.99	0.62
43:BI:64:GLU:OE1	43:BI:67:ARG:HB2	1.99	0.62
47:DQ:60:ARG:C	47:DQ:60:ARG:HD3	2.19	0.62
35:BA:1434:A:H2'	35:BA:1435:G:C8	2.33	0.62
1:CA:519:C:H2'	1:CA:520:A:H8	1.64	0.62
45:DO:104:ARG:HH21	50:DT:33:LYS:HE3	1.63	0.62
41:DG:11:TYR:O	41:DG:13:GLU:N	2.33	0.62
41:DG:15:VAL:HG13	41:DG:175:LEU:CB	2.27	0.62
35:BA:1809:A:H2'	35:BA:1810:A:C8	2.33	0.62
41:DG:96:ARG:HA	41:DG:99:MET:CE	2.29	0.62
34:B8:38:GLY:O	34:B8:39:LYS:HB3	1.98	0.62
45:BO:77:ILE:HD12	50:BT:73:GLU:O	1.99	0.62
50:BT:91:ARG:O	50:BT:93:ARG:N	2.32	0.62
56:BZ:129:SER:HB3	56:BZ:132:ASN:ND2	2.14	0.62
51:BU:92:ARG:C	51:BU:94:ASN:H	2.01	0.62
39:DE:197:ILE:CD1	39:DE:199:ARG:HH22	2.12	0.62
34:D8:32:LEU:HD22	35:DA:2419:U:O5'	1.98	0.62
56:DZ:108:PRO:HB3	56:DZ:144:LEU:H	1.62	0.62
1:CA:1190:G:H8	3:CC:3:ASN:HD21	1.45	0.62
48:DR:12:ARG:O	48:DR:13:HIS:HB3	1.99	0.62
48:DR:60:LEU:HD23	48:DR:61:HIS:N	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2715:C:H2'	35:BA:2716:U:H6	1.64	0.62
34:D8:49:VAL:HB	34:D8:53:PRO:HD3	1.80	0.62
35:DA:834:C:H2'	35:DA:835:A:H8	1.64	0.62
55:DY:13:VAL:HG21	55:DY:28:LYS:HG2	1.80	0.62
43:DI:99:GLU:O	43:DI:103:ARG:HB2	1.99	0.62
19:CS:63:THR:HG22	19:CS:66:MET:CG	2.26	0.62
16:AP:68:ASP:O	16:AP:71:ARG:HB3	1.99	0.62
33:B7:15:THR:HG22	33:B7:16:HIS:CD2	2.34	0.62
1:AA:514:C:H42	1:AA:537:G:H1	1.45	0.62
12:AL:45:PRO:HB2	12:AL:49:ASN:O	1.99	0.62
1:CA:586:C:O2'	1:CA:587:G:H5'	1.99	0.62
31:D5:46:CYS:HB3	31:D5:48:GLU:OE2	1.99	0.62
54:BX:65:ARG:NE	54:BX:66:LEU:H	1.97	0.62
42:BH:70:THR:CG2	42:BH:74:ASN:HD21	2.10	0.62
9:CI:17:VAL:HG22	9:CI:63:ILE:HG23	1.80	0.62
1:CA:312:C:H2'	1:CA:313:A:H8	1.63	0.62
1:AA:1457:G:H2'	1:AA:1458:G:C8	2.35	0.62
35:BA:1300:U:H1'	35:BA:1626:G:C2	2.34	0.62
17:CQ:95:TYR:O	17:CQ:97:SER:N	2.31	0.62
36:BB:82:G:H2'	36:BB:83:G:H8	1.64	0.62
35:BA:1324:G:H3'	35:BA:1325:G:C5'	2.30	0.62
39:BE:2:LYS:HE2	39:BE:95:ILE:HG22	1.80	0.62
1:AA:77:G:H1	1:AA:92:C:H42	1.46	0.62
1:AA:93:G:O2'	1:AA:96:U:H5'	1.99	0.62
1:CA:1205:U:O2'	3:CC:195:VAL:HG23	1.99	0.62
29:B3:1:MET:SD	29:B3:38:GLU:HG2	2.40	0.62
1:CA:1040:U:H2'	1:CA:1041:A:C8	2.35	0.62
6:AF:78:GLU:O	6:AF:81:ILE:HG13	1.99	0.62
35:DA:313:C:H2'	35:DA:314:A:H8	1.64	0.62
35:DA:1677:A:H2'	35:DA:1678:G:H8	1.61	0.62
38:BD:4:LYS:HZ1	38:BD:20:ASP:HA	1.62	0.62
38:DD:161:THR:O	38:DD:196:VAL:HG23	1.99	0.62
45:BO:46:ALA:H	45:BO:54:GLU:HG2	1.64	0.62
50:BT:28:VAL:HG21	50:BT:46:GLU:HA	1.81	0.62
56:BZ:28:MET:SD	56:BZ:37:VAL:HG11	2.39	0.62
51:BU:96:ALA:O	51:BU:98:LEU:N	2.32	0.62
35:BA:94(A):G:H2'	35:BA:95:G:C5'	2.26	0.62
54:BX:82:GLN:CD	54:BX:83:VAL:H	2.01	0.62
44:DN:46:VAL:HG22	44:DN:47:ALA:N	2.14	0.62
52:DV:3:ALA:CB	52:DV:14:VAL:HB	2.29	0.62
10:AJ:36:GLY:O	10:AJ:72:VAL:HG22	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:D6:11:LEU:CD1	32:D6:51:GLU:HB2	2.28	0.62
49:BS:38:GLN:OE1	49:BS:47:THR:HG23	1.99	0.62
44:BN:67:LEU:HA	44:BN:88:GLU:HG3	1.80	0.62
3:CC:134:ILE:HD11	3:CC:153:VAL:HG21	1.80	0.62
35:DA:631:A:O2'	46:DP:67:MET:HB3	1.99	0.62
35:BA:2030:A:H4'	35:BA:2031:A:H8	1.63	0.62
47:BQ:9:TYR:O	47:BQ:10:ARG:CG	2.43	0.62
44:DN:56:ASN:HA	44:DN:125:GLY:H	1.64	0.62
44:BN:57:ALA:O	44:BN:58:ASP:O	2.17	0.62
1:CA:834:C:H2'	1:CA:835:U:C6	2.34	0.62
1:CA:1511:G:C6	1:CA:1512:U:N3	2.68	0.62
35:DA:510:C:H2'	35:DA:511:U:O4'	2.00	0.62
1:AA:1325:C:O2	1:AA:1325:C:C2'	2.47	0.62
16:AP:49:LEU:HD12	16:AP:50:LYS:H	1.64	0.62
1:CA:222:U:H2'	1:CA:223:U:C6	2.34	0.62
7:CG:91:VAL:HG13	7:CG:95:ARG:HD3	1.80	0.62
33:B7:29:LYS:O	33:B7:32:LYS:HB3	1.99	0.62
35:BA:1428:C:N4	35:BA:1569:A:H3'	2.13	0.62
55:BY:38:ILE:HG22	55:BY:39:VAL:N	2.14	0.62
46:DP:16:ARG:NH1	46:DP:18:ARG:HG3	2.15	0.62
9:CI:111:ARG:O	9:CI:119:ALA:HB1	2.00	0.62
8:AH:26:VAL:HG22	8:AH:32:LYS:HZ3	1.64	0.62
1:AA:1342:C:H1'	9:AI:124:GLN:NE2	2.14	0.62
35:DA:543:C:N4	35:DA:551:G:N1	2.47	0.62
46:DP:126:VAL:HA	46:DP:145:PRO:CB	2.28	0.62
46:BP:111:ARG:HG3	46:BP:128:HIS:ND1	2.14	0.62
20:CT:23:ARG:O	20:CT:27:LYS:HB2	1.99	0.62
29:B3:45:GLY:HA3	35:BA:851:U:O2'	1.98	0.62
37:DC:58:VAL:HG21	37:DC:166:ASP:N	2.14	0.62
1:AA:597:G:C2'	1:AA:598:U:H5'	2.29	0.62
1:AA:1329:A:OP1	13:AM:28:ALA:HB3	1.98	0.62
9:AI:10:ARG:NH2	9:AI:107:ARG:HD3	2.14	0.62
15:AO:53:HIS:CE1	15:AO:57:LEU:HD21	2.35	0.62
35:DA:863:A:C2'	35:DA:864:G:H5'	2.28	0.62
35:DA:2775:A:O2'	35:DA:2776:A:H5'	1.98	0.62
35:DA:1192:G:O2'	35:DA:1193:G:H5'	1.98	0.62
1:AA:1126:U:H2'	1:AA:1127:G:H8	1.63	0.62
1:AA:783:C:C5	1:AA:784:C:H5	2.16	0.62
35:DA:1760:A:O2'	35:DA:1761:C:H5'	1.99	0.62
7:CG:11:GLN:HE21	7:CG:12:LEU:H	1.47	0.62
1:CA:357:G:OP1	1:CA:367:U:H5"	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DW:95:ILE:O	53:DW:95:ILE:HG13	1.99	0.62
35:DA:2866:U:C5	35:DA:2868:A:H1'	2.34	0.62
41:DG:16:ARG:HB3	41:DG:17:PRO:HD3	1.81	0.62
38:DD:206:LEU:HA	38:DD:211:ARG:NH1	2.14	0.62
39:DE:5:LEU:HD22	39:DE:197:ILE:HG22	1.81	0.62
41:BG:41:GLN:C	41:BG:43:LEU:H	2.02	0.62
1:CA:503:C:H2'	1:CA:504:C:H6	1.62	0.62
35:DA:2413:G:H21	46:DP:70:GLN:HE21	1.46	0.62
39:BE:134:ILE:N	39:BE:134:ILE:HD13	2.14	0.62
39:BE:120:TRP:CE2	39:BE:155:LYS:HB3	2.34	0.62
52:BV:89:GLN:HE21	52:BV:89:GLN:HA	1.65	0.62
35:DA:2710:C:OP1	48:DR:15:SER:HB2	2.00	0.62
50:BT:96:ARG:HG3	50:BT:98:LYS:O	1.99	0.62
44:BN:58:ASP:O	44:BN:60:ILE:HG13	1.99	0.62
1:AA:404:U:H2'	1:AA:405:U:C6	2.34	0.62
1:AA:880:C:OP2	12:AL:6:THR:HG21	1.99	0.62
25:AY:64:ARG:HH21	25:AY:103:ILE:HD11	1.64	0.62
7:CG:93:PRO:HA	7:CG:96:GLN:NE2	2.14	0.62
55:BY:28:LYS:CA	55:BY:39:VAL:H	2.12	0.62
55:BY:42:VAL:HB	55:BY:65:ALA:HB3	1.81	0.62
18:AR:53:ARG:NH2	18:AR:60:ALA:N	2.45	0.62
8:CH:11:THR:HA	8:CH:14:ARG:HH12	1.63	0.62
5:AE:147:ASP:HA	5:AE:150:ARG:HD2	1.79	0.62
16:AP:14:ASN:N	16:AP:15:PRO:CD	2.62	0.62
35:DA:64:A:H2'	35:DA:65:C:H6	1.64	0.62
46:DP:126:VAL:HA	46:DP:145:PRO:CG	2.28	0.62
1:CA:1438:G:H2'	1:CA:1439:C:H6	1.62	0.62
35:BA:863:A:O2'	35:BA:864:G:H5'	1.98	0.62
35:DA:1424:G:H2'	35:DA:1425:G:O4'	1.99	0.62
53:BW:12:ILE:CD1	53:BW:42:ARG:HH11	2.13	0.62
7:AG:11:GLN:NE2	7:AG:12:LEU:H	1.96	0.62
25:AY:108:GLU:HA	25:AY:111:ARG:HG3	1.81	0.62
35:BA:881:G:N2	35:BA:896:A:H62	1.96	0.62
6:AF:98:LEU:H	6:AF:98:LEU:HD12	1.63	0.62
1:AA:1355:G:H2'	1:AA:1356:G:C8	2.34	0.62
1:CA:702:A:H3'	1:CA:703:G:H5'	1.81	0.62
35:DA:2712:U:H1'	35:DA:2712(A):A:H8	1.64	0.62
38:BD:264:LYS:HG3	38:BD:265:PRO:HD2	1.81	0.62
38:DD:209:ALA:C	38:DD:210:GLY:O	2.35	0.62
38:DD:94:LEU:H	38:DD:94:LEU:CD1	2.06	0.62
41:DG:142:PRO:HG2	41:DG:143:GLU:H	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2562:U:C2'	35:BA:2563:U:H5'	2.28	0.62
50:BT:27:THR:OG1	50:BT:87:ASP:HA	2.00	0.62
47:BQ:29:PHE:HB2	47:BQ:65:PHE:CE2	2.34	0.62
9:AI:114:TYR:CE1	10:AJ:59:SER:HA	2.34	0.62
28:B2:41:ILE:O	28:B2:42:GLY:C	2.38	0.62
41:BG:41:GLN:NE2	41:BG:153:ARG:HB3	2.14	0.62
3:CC:53:ALA:HB2	3:CC:115:LEU:CD2	2.30	0.62
27:D1:76:ARG:HD3	27:D1:78:LYS:NZ	2.14	0.62
40:BF:88:VAL:HG22	40:BF:89:VAL:N	2.13	0.62
46:BP:45:LEU:HD23	46:BP:46:LYS:N	2.14	0.62
48:BR:45:ARG:HG3	48:BR:46:GLY:N	2.10	0.62
2:AB:168:THR:HG21	2:AB:191:ASP:OD1	1.99	0.62
44:BN:32:THR:HG22	44:BN:37:LYS:HB3	1.82	0.62
35:DA:910:A:H62	47:DQ:12:GLN:HA	1.65	0.62
6:AF:21:LEU:HA	6:AF:24:GLU:HG2	1.82	0.62
18:AR:38:GLU:O	18:AR:41:LYS:HB3	2.00	0.62
2:AB:144:ARG:O	2:AB:147:LYS:HB3	1.98	0.62
12:CL:25:PRO:HD2	12:CL:98:TYR:OH	1.99	0.62
1:CA:1443:G:H8	1:CA:1443:G:OP2	1.83	0.62
12:AL:83:VAL:CG2	12:AL:84:LEU:H	2.09	0.62
8:CH:119:LEU:N	8:CH:119:LEU:CD2	2.63	0.62
1:AA:222:U:H2'	1:AA:223:U:C6	2.34	0.62
8:AH:36:LEU:O	8:AH:39:LEU:HB3	1.98	0.62
8:CH:39:LEU:O	8:CH:44:PHE:HB2	2.00	0.62
4:AD:145:GLU:HG2	4:AD:184:LYS:CG	2.26	0.62
42:BH:41:MET:CE	42:BH:55:PRO:HD2	2.29	0.62
9:CI:4:TYR:HB2	9:CI:19:LEU:HD12	1.81	0.62
1:AA:1168:A:H2'	1:AA:1169:A:C8	2.35	0.62
56:BZ:107:THR:HG21	56:BZ:111:VAL:HG11	1.82	0.62
15:AO:11:VAL:HG21	15:AO:34:LEU:HD23	1.80	0.62
35:DA:380:U:H2'	35:DA:381:G:H8	1.65	0.62
1:CA:1329:A:OP1	13:CM:28:ALA:HB3	1.98	0.62
2:CB:24:TRP:CG	2:CB:25:ASN:N	2.67	0.62
2:AB:19:HIS:N	2:AB:39:ILE:HG21	2.15	0.62
2:AB:28:PHE:CE1	2:AB:31:TYR:HB2	2.35	0.62
10:AJ:32:ALA:H	10:AJ:78:ASN:CG	2.02	0.62
1:AA:67:C:H2'	1:AA:68:G:H8	1.63	0.62
1:AA:473:G:H5''	16:AP:81:ARG:HE	1.65	0.62
39:BE:115:GLY:HA2	39:BE:157:ALA:HB1	1.82	0.62
35:DA:1350:C:O2'	35:DA:1351:C:H5'	2.00	0.62
35:BA:1760:A:O2'	35:BA:1761:C:H5'	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:132:LYS:O	2:AB:135:GLN:HB2	2.00	0.62
1:AA:1246:C:H2'	1:AA:1247:U:C6	2.35	0.62
35:BA:1350:C:O2'	35:BA:1351:C:H5'	1.99	0.62
45:DO:26:LYS:HB2	45:DO:30:ALA:HB2	1.81	0.62
38:DD:57:GLY:HA2	38:DD:214:TRP:O	1.99	0.62
35:BA:2759:G:O2'	35:BA:2760:C:H5'	1.99	0.62
41:DG:107:LEU:HA	41:DG:111:LEU:HD12	1.81	0.62
45:BO:105:GLU:HA	45:BO:108:GLU:CG	2.29	0.62
44:BN:10:GLU:CG	44:BN:11:PRO:HD2	2.30	0.62
51:BU:64:ARG:NH2	51:BU:64:ARG:CB	2.61	0.62
42:DH:86:GLU:HA	42:DH:132:ARG:HB3	1.82	0.62
44:BN:62:VAL:HG22	44:BN:66:LYS:HG3	1.80	0.62
46:DP:66:GLY:O	46:DP:68:GLN:N	2.33	0.62
35:BA:26:G:H1'	35:BA:515:A:N6	2.12	0.62
35:BA:1190:G:O5'	46:BP:35:HIS:HA	2.00	0.62
40:DF:28:ILE:N	40:DF:28:ILE:HD13	2.15	0.62
35:DA:2707:G:H2'	35:DA:2708:G:C8	2.34	0.62
41:DG:29:TRP:C	41:DG:31:VAL:N	2.50	0.62
2:AB:51:LEU:HB3	2:AB:55:PHE:HE2	1.65	0.62
35:DA:585:G:H2'	35:DA:1251:C:N4	2.13	0.62
35:DA:1190:G:H4'	46:DP:35:HIS:CB	2.29	0.62
4:AD:104:VAL:HG21	4:AD:140:VAL:HG21	1.80	0.62
19:AS:6:LYS:CD	19:AS:7:LYS:HD2	2.30	0.62
43:DI:130:TYR:HB2	43:DI:136:VAL:HG13	1.82	0.62
25:CY:29:ARG:HB2	25:CY:32:ARG:NH2	2.15	0.62
25:CY:3:LEU:CD1	25:CY:3:LEU:N	2.62	0.62
25:CY:130:ARG:NH2	35:DA:1943:U:OP1	2.31	0.62
12:AL:24:VAL:HG13	12:AL:98:TYR:HE2	1.65	0.62
35:BA:2019:A:H4'	51:BU:34:LYS:HD2	1.82	0.62
55:BY:36:ALA:HB1	55:BY:67:LEU:O	1.99	0.62
11:AK:87:THR:HA	11:AK:91:ARG:HG3	1.81	0.62
18:AR:58:LEU:HD12	18:AR:58:LEU:N	2.08	0.62
1:CA:1195:C:H5''	1:CA:1196:U:OP2	1.99	0.62
9:CI:50:LEU:HB3	9:CI:55:ALA:HB3	1.81	0.62
46:BP:112:LEU:C	46:BP:112:LEU:HD13	2.20	0.62
7:CG:135:VAL:O	7:CG:138:LYS:HB3	1.99	0.62
35:DA:709:U:H2'	35:DA:710:G:C8	2.35	0.62
32:D6:39:TYR:CE1	35:DA:2347:C:H4'	2.31	0.62
1:AA:472:A:H1'	16:AP:82:GLN:OE1	2.00	0.62
35:BA:971:C:H2'	35:BA:972:G:O4'	2.00	0.62
9:AI:105:ASP:HB3	9:AI:107:ARG:HG3	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1289:C:H2'	35:BA:1290:C:C6	2.35	0.62
36:DB:82:G:H2'	36:DB:83:G:H8	1.64	0.62
1:CA:556:C:O2'	1:CA:557:G:H5'	1.99	0.62
7:CG:150:ALA:C	7:CG:152:ALA:H	2.02	0.62
7:AG:36:LYS:HA	7:AG:39:ALA:HB2	1.81	0.62
46:DP:86:LYS:HB3	46:DP:117:GLU:C	2.20	0.62
35:DA:1515:G:C2'	35:DA:1516:C:H5'	2.29	0.62
35:BA:1344:G:H4'	35:BA:1384:A:C5	2.34	0.62
35:DA:632:A:H2'	35:DA:633:A:C8	2.34	0.62
1:AA:1040:U:H2'	1:AA:1041:A:C8	2.35	0.62
1:AA:702:A:H3'	1:AA:703:G:H5'	1.81	0.62
1:CA:447:G:N2	1:CA:488:C:H42	1.98	0.62
35:DA:2866:U:C6	35:DA:2868:A:H1'	2.35	0.62
39:DE:24:THR:CG2	39:DE:184:VAL:HG23	2.27	0.62
38:BD:206:LEU:HA	38:BD:211:ARG:NH1	2.14	0.62
41:DG:111:LEU:HA	41:DG:114:ILE:CD1	2.29	0.62
10:CJ:4:ILE:CB	10:CJ:74:ILE:HD11	2.28	0.62
35:BA:2864:G:H5'	35:BA:2864:G:H8	1.63	0.62
1:AA:1064:G:H1'	1:AA:1065:U:H5''	1.82	0.62
44:BN:110:GLY:HA2	44:BN:114:ARG:NH2	2.15	0.62
51:DU:102:GLU:O	51:DU:105:VAL:HG23	2.00	0.62
51:DU:64:ARG:NH2	51:DU:64:ARG:CB	2.58	0.62
52:DV:19:LYS:HB3	52:DV:96:ILE:O	2.00	0.62
35:BA:2334:G:H5'	49:BS:13:ARG:CG	2.25	0.62
4:CD:126:ILE:HG22	4:CD:127:THR:N	2.14	0.62
35:BA:1018:C:O2'	35:BA:1019:U:H5'	2.00	0.62
46:DP:70:GLN:HG3	46:DP:71:VAL:H	1.65	0.62
27:D1:85:LEU:CB	27:D1:87:PRO:HD3	2.29	0.62
35:BA:993:G:H5'	52:BV:75:PHE:CZ	2.35	0.62
48:DR:37:THR:CG2	48:DR:40:LYS:HE2	2.30	0.62
3:AC:182:ILE:HG23	3:AC:203:PHE:HA	1.82	0.62
35:DA:8:A:C4	35:DA:9:U:C5	2.86	0.62
15:CO:28:GLN:O	15:CO:32:LEU:HG	1.99	0.62
55:DY:36:ALA:HB1	55:DY:67:LEU:O	2.00	0.62
25:CY:132:ILE:O	25:CY:133:ARG:C	2.38	0.62
43:BI:4:ILE:HA	43:BI:17:GLN:O	2.00	0.62
25:AY:122:ALA:O	25:AY:126:ARG:HG3	2.00	0.62
23:CW:3:C:C2'	23:CW:4:G:H5''	2.23	0.62
25:AY:147:LEU:HD23	25:AY:148:HIS:N	2.14	0.62
1:AA:710:G:H5''	6:AF:54:LYS:HE3	1.81	0.62
46:DP:16:ARG:CZ	46:DP:18:ARG:HB2	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1348:U:H4'	9:AI:120:ARG:HD2	1.82	0.62
45:DO:120:GLU:HG3	45:DO:122:LEU:HD11	1.81	0.62
53:DW:11:ARG:HH22	53:DW:98:LYS:HB3	1.64	0.62
7:CG:113:GLU:CB	7:CG:119:ARG:HG2	2.30	0.62
19:CS:53:ASN:ND2	19:CS:55:LYS:H	1.98	0.62
11:CK:99:GLN:HE22	11:CK:105:VAL:HG11	1.65	0.62
42:BH:137:ASP:O	42:BH:138:LYS:HB2	2.00	0.62
1:CA:386:C:C2'	1:CA:387:U:H5'	2.30	0.62
29:D3:45:GLY:HA3	35:DA:851:U:O2'	1.99	0.62
35:DA:523:C:O2'	35:DA:524:U:H5'	2.00	0.62
1:AA:174:C:O2'	1:AA:175:C:H5'	2.00	0.62
36:DB:91:C:H2'	36:DB:92:C:C6	2.34	0.62
35:DA:2544:G:H2'	35:DA:2545:G:H8	1.63	0.62
35:DA:2292:C:O2'	35:DA:2293:C:H5'	1.99	0.62
44:BN:129:PRO:O	44:BN:130:HIS:HB3	2.00	0.62
35:DA:755:C:H2'	35:DA:756:C:H6	1.65	0.62
35:DA:796:C:H2'	35:DA:797:C:H6	1.64	0.62
1:AA:796:C:P	11:AK:123:LYS:HZ2	2.23	0.62
1:CA:1206:G:O4'	3:CC:194:GLY:HA2	2.00	0.62
1:CA:189(H):G:H2'	1:CA:189(I):G:H8	1.63	0.62
56:BZ:9:TYR:HE2	56:BZ:35:ARG:HD2	1.65	0.62
8:CH:18:ARG:H	8:CH:78:GLN:NE2	1.97	0.62
17:CQ:76:LEU:HD12	17:CQ:77:VAL:H	1.65	0.62
1:AA:1007:C:H2'	1:AA:1008:C:C6	2.35	0.62
35:BA:271(J):C:H2'	35:BA:271(K):U:H5''	1.82	0.62
17:AQ:77:VAL:O	17:AQ:78:GLU:HB3	1.98	0.62
35:DA:881:G:N2	35:DA:896:A:H62	1.96	0.62
35:BA:805:G:H22	35:BA:828:U:H5''	1.64	0.62
35:BA:1330:C:O2'	35:BA:1331:A:H5'	2.00	0.62
25:CY:59:THR:O	25:CY:66:LEU:HD12	1.99	0.62
41:DG:7:LEU:CA	41:DG:10:LYS:HB2	2.25	0.62
38:DD:229:VAL:HG23	38:DD:230:ASP:N	2.15	0.62
56:BZ:125:LEU:C	56:BZ:126:VAL:HG22	2.20	0.62
39:DE:142:GLY:C	39:DE:143:ASN:ND2	2.53	0.62
54:BX:83:VAL:O	54:BX:84:ALA:HB3	2.00	0.62
30:B4:14:ILE:CB	41:BG:5:VAL:HG13	2.30	0.62
34:B8:8:LYS:HB3	34:B8:12:LYS:HE3	1.81	0.62
35:DA:2040:C:H2'	35:DA:2041:U:C6	2.34	0.62
49:BS:24:LEU:HB2	49:BS:85:VAL:HB	1.80	0.62
1:CA:403:C:O2'	1:CA:404:U:H5'	1.99	0.62
4:CD:12:CYS:SG	4:CD:19:LEU:O	2.57	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DI:88:ILE:HG22	43:DI:89:TYR:N	2.13	0.62
40:BF:181:LEU:HG	40:BF:186:ILE:HD11	1.81	0.62
55:BY:90:LEU:HG	55:BY:91:GLU:HG2	1.80	0.62
3:AC:43:LEU:CD2	3:AC:47:LEU:HD22	2.21	0.62
41:DG:25:TYR:CD1	41:DG:30:GLU:HG3	2.35	0.62
2:AB:72:GLY:HA3	2:AB:165:VAL:HG22	1.82	0.62
2:CB:168:THR:HG23	2:CB:192:SER:OG	1.99	0.62
40:DF:81:PRO:HG2	40:DF:82:ILE:H	1.65	0.62
35:DA:685:A:C4	35:DA:689:A:N6	2.67	0.62
4:AD:127:THR:CG2	4:AD:149:ALA:H	2.12	0.62
55:DY:31:LEU:CB	55:DY:36:ALA:H	2.13	0.62
1:AA:542:G:H2'	1:AA:543:C:H6	1.62	0.62
25:CY:123:GLU:O	25:CY:124:GLU:C	2.38	0.62
1:AA:376:G:OP2	16:AP:67:THR:HG21	1.99	0.62
11:CK:44:SER:O	11:CK:47:VAL:HB	1.99	0.62
5:CE:147:ASP:HA	5:CE:150:ARG:HD2	1.81	0.62
40:BF:161:GLU:O	40:BF:164:ARG:HB2	1.99	0.62
35:BA:492:A:H2'	35:BA:493:G:O4'	2.00	0.62
13:AM:19:LEU:CA	13:AM:22:ILE:HD13	2.28	0.62
44:DN:107:LEU:HD12	44:DN:108:PRO:O	1.99	0.62
1:AA:460:G:H21	1:AA:472:A:H62	1.48	0.62
35:DA:1703:G:H2'	35:DA:1704:G:C8	2.34	0.62
1:AA:1495:U:O2'	1:AA:1496:C:H5'	2.00	0.62
54:DX:89:ILE:HG22	54:DX:89:ILE:O	1.99	0.62
27:B1:20:ARG:HH22	27:B1:41:ARG:HE	1.46	0.62
35:BA:2103:C:H3'	35:BA:2104:G:H5''	1.82	0.62
23:CW:43:G:H2'	23:CW:44:A:H5''	1.82	0.62
35:BA:1344:G:H4'	35:BA:1384:A:N7	2.14	0.62
35:DA:2368:C:H2'	35:DA:2369:A:H8	1.65	0.62
35:DA:736:C:H2'	35:DA:737:C:H6	1.65	0.62
36:DB:35:U:O2'	36:DB:36:C:H5'	1.99	0.62
25:CY:55:ILE:HD12	25:CY:55:ILE:N	2.15	0.62
35:BA:437:G:O2'	35:BA:438:G:H5'	1.98	0.62
50:DT:23:ARG:HG2	50:DT:120:ARG:HH12	1.64	0.62
1:CA:950:U:H2'	1:CA:951:G:C8	2.34	0.62
1:CA:963:G:N2	10:CJ:55:LYS:HZ3	1.96	0.62
35:BA:1567:A:H2'	38:BD:84:TYR:CE2	2.29	0.62
35:DA:1790:C:H2'	35:DA:1791:A:C8	2.35	0.62
38:DD:36:PRO:CG	38:DD:61:LEU:HD21	2.27	0.62
41:DG:76:SER:HB3	41:DG:83:ARG:HB3	1.81	0.62
35:DA:2570:G:H2'	35:DA:2571:C:H6	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:74:A:H4'	35:BA:75:G:O5'	2.00	0.62
56:DZ:108:PRO:HB3	56:DZ:142:SER:O	2.00	0.62
51:DU:58:ARG:HA	51:DU:61:TRP:CE3	2.35	0.62
1:CA:1064:G:H1'	1:CA:1065:U:H5''	1.81	0.62
4:CD:9:CYS:SG	4:CD:31:CYS:O	2.58	0.62
47:BQ:103:MET:CE	47:BQ:125:LEU:HD21	2.29	0.62
35:BA:1246:A:OP2	46:BP:16:ARG:NH2	2.33	0.62
40:BF:96:ASP:OD1	40:BF:98:SER:HB3	1.99	0.62
34:B8:59:LYS:C	34:B8:61:LEU:N	2.53	0.62
35:BA:2078:C:H2'	35:BA:2079:U:C6	2.35	0.62
51:BU:13:LYS:O	51:BU:16:LYS:HB3	1.99	0.62
51:BU:44:ASN:O	51:BU:47:TYR:HB3	2.00	0.62
35:BA:1278:A:H5''	48:BR:36:THR:HG22	1.81	0.62
35:DA:2241:A:H2'	35:DA:2242:G:C8	2.34	0.62
2:CB:69:LEU:HB2	2:CB:159:PRO:HG2	1.82	0.62
2:CB:72:GLY:CA	2:CB:165:VAL:HG22	2.30	0.62
4:AD:155:LEU:HB2	4:AD:158:ILE:HB	1.81	0.62
4:AD:176:LEU:HG	4:AD:177:ASP:N	2.12	0.62
1:AA:1411:C:H2'	1:AA:1412:C:C6	2.35	0.62
1:AA:1106:G:H2'	1:AA:1107:C:H6	1.65	0.62
1:CA:1226:C:H2'	13:CM:103:THR:OG1	2.00	0.62
35:BA:755:C:H2'	35:BA:756:C:H6	1.65	0.62
25:AY:179:LYS:O	25:AY:183:ILE:HG13	2.00	0.62
25:AY:84:ARG:C	25:AY:86:SER:H	2.03	0.62
43:BI:129:THR:OG1	43:BI:135:GLU:HB3	2.00	0.62
35:DA:1049:C:H2'	35:DA:1050:A:H8	1.64	0.62
42:DH:67:LEU:O	42:DH:71:LEU:HD22	2.00	0.62
8:CH:122:ARG:HA	8:CH:125:ARG:CB	2.28	0.62
7:AG:146:GLU:HA	7:AG:149:ARG:HB2	1.80	0.62
13:AM:91:ARG:HH11	19:AS:81:ARG:NH2	1.87	0.62
35:DA:598:G:H5'	46:DP:15:ARG:HB2	1.80	0.62
56:DZ:76:LEU:HA	56:DZ:84:GLU:H	1.65	0.62
35:DA:2175:C:H2'	35:DA:2176:A:C5'	2.29	0.62
35:BA:541:C:H2'	35:BA:542:C:C5	2.34	0.62
35:BA:2830:G:C5'	39:BE:58:ARG:HH22	2.12	0.62
35:DA:1114:G:H2'	35:DA:1115:G:C5'	2.30	0.62
2:AB:102:LEU:O	2:AB:105:PHE:HB2	2.00	0.62
7:CG:50:ILE:HG22	7:CG:56:GLN:O	1.98	0.62
38:BD:143:HIS:CE1	38:BD:192:THR:HG23	2.35	0.62
1:CA:1281:U:H4'	1:CA:1282:C:OP2	2.00	0.62
35:BA:268:C:N4	35:BA:424:G:H1	1.97	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1090:U:H2'	1:AA:1091:U:H6	1.65	0.62
35:DA:2103:C:H3'	35:DA:2104:G:H5''	1.81	0.62
1:CA:280:C:C2	17:CQ:38:ARG:HG3	2.35	0.62
1:AA:148:G:H1	1:AA:174:C:H42	1.46	0.62
10:CJ:94:VAL:HG12	10:CJ:95:GLU:N	2.15	0.62
35:DA:648:G:H2'	35:DA:649:G:C8	2.34	0.62
39:DE:38:THR:C	39:DE:40:GLU:H	2.03	0.62
1:CA:783:C:C5	1:CA:784:C:H5	2.17	0.62
35:BA:64:A:H2'	35:BA:65:C:C6	2.35	0.62
4:AD:19:LEU:HD23	4:AD:67:ILE:HA	1.82	0.62
35:BA:1518:U:H2'	35:BA:1519:G:O4'	2.00	0.62
1:AA:294:U:H2'	1:AA:295:C:C6	2.34	0.62
35:DA:841:A:H2'	35:DA:842:G:C8	2.35	0.62
9:CI:48:GLU:N	9:CI:49:PRO:HD2	2.15	0.62
1:CA:652:U:H1'	1:CA:653:A:H2	1.64	0.62
1:CA:1267:C:O2	1:CA:1267:C:H2'	2.00	0.62
6:AF:28:ARG:HH11	6:AF:28:ARG:HG3	1.65	0.62
3:AC:92:ALA:N	3:AC:99:VAL:HG21	2.14	0.62
35:DA:2723:C:H2'	35:DA:2724:C:H5'	1.82	0.62
45:DO:68:GLU:HB3	45:DO:78:ARG:HB2	1.82	0.62
50:DT:28:VAL:HG21	50:DT:46:GLU:HA	1.81	0.62
38:BD:260:ARG:HH11	38:BD:260:ARG:HG2	1.64	0.62
1:CA:16:A:N1	1:CA:919:A:H2	1.98	0.62
5:CE:12:LEU:HD13	5:CE:12:LEU:H	1.65	0.62
47:DQ:35:VAL:HG12	47:DQ:130:LYS:HB3	1.80	0.62
39:BE:11:MET:H	50:BT:8:LYS:HZ1	1.46	0.62
31:D5:4:HIS:O	35:DA:2056:G:N2	2.33	0.62
52:BV:14:VAL:HG12	52:BV:15:GLU:N	2.14	0.62
54:BX:32:PRO:HD3	54:BX:72:LYS:NZ	2.15	0.62
35:DA:2893:G:C5'	35:DA:2894:G:H5'	2.13	0.62
41:BG:168:GLU:O	41:BG:171:ALA:HB3	1.99	0.62
35:DA:76:C:H2'	35:DA:77:C:H6	1.64	0.62
34:D8:32:LEU:O	34:D8:34:TRP:N	2.32	0.62
34:D8:34:TRP:O	34:D8:35:GLN:HB2	1.98	0.62
42:BH:146:ALA:O	42:BH:147:ASN:C	2.38	0.62
10:AJ:6:ILE:O	10:AJ:71:LEU:HD12	2.00	0.62
35:BA:1754:C:H5'	50:BT:101:PHE:CE1	2.34	0.62
2:AB:54:THR:O	2:AB:58:ILE:HG13	1.99	0.62
44:BN:16:ILE:HG23	44:BN:54:VAL:CG2	2.30	0.62
45:BO:111:PHE:HB3	45:BO:114:ILE:CD1	2.27	0.62
19:AS:11:VAL:CG2	19:AS:16:LEU:HD11	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:115:LEU:HB2	2:AB:145:LEU:HD11	1.82	0.62
3:AC:173:VAL:N	3:AC:174:PRO:HD3	2.15	0.62
2:CB:97:TRP:HH2	2:CB:176:GLU:HB2	1.64	0.62
11:CK:62:GLN:O	11:CK:64:ALA:N	2.32	0.62
8:AH:119:LEU:H	8:AH:119:LEU:HD23	1.65	0.62
9:CI:116:LYS:O	9:CI:118:LYS:N	2.33	0.62
35:DA:744:G:OP1	39:DE:132:HIS:HB3	2.00	0.62
35:DA:2887:U:O2'	35:DA:2888:C:H5'	1.99	0.62
35:DA:2538:C:C2'	35:DA:2539:C:H5'	2.29	0.62
9:CI:4:TYR:CD1	9:CI:4:TYR:N	2.68	0.62
38:BD:186:HIS:HB3	38:BD:189:CYS:SG	2.39	0.62
1:CA:375:U:H2'	1:CA:376:G:C8	2.34	0.62
3:AC:70:VAL:HG12	3:AC:72:LYS:H	1.63	0.62
17:AQ:94:ASN:O	17:AQ:97:SER:OG	2.16	0.62
35:BA:1925:C:C2'	35:BA:1926:U:H5'	2.30	0.62
35:BA:2795:G:C2	35:BA:2799:C:H5'	2.35	0.62
36:BB:20:C:C2'	36:BB:21:G:H5''	2.27	0.62
5:CE:91:LEU:HG	5:CE:120:THR:HG22	1.82	0.62
35:BA:851:U:H2'	35:BA:852:G:C8	2.31	0.62
35:BA:853:G:H2'	35:BA:854:G:H8	1.64	0.62
35:BA:1366:A:H2'	35:BA:1367:A:C8	2.34	0.62
1:CA:892:A:H2'	1:CA:893:C:H6	1.65	0.62
22:CV:28:G:O2'	22:CV:29:G:H5'	2.00	0.62
35:BA:2056:G:N2	35:BA:2057:A:H1'	2.15	0.62
8:AH:18:ARG:H	8:AH:78:GLN:NE2	1.97	0.62
45:BO:26:LYS:HB2	45:BO:30:ALA:HB2	1.81	0.62
1:AA:110:C:H2'	1:AA:111:G:O4'	2.00	0.62
50:DT:91:ARG:O	50:DT:93:ARG:N	2.32	0.61
43:BI:88:ILE:CG2	43:BI:89:TYR:H	2.12	0.61
38:BD:224:ALA:HB2	38:BD:233:HIS:HB3	1.80	0.61
45:BO:80:ASP:O	45:BO:81:ASP:HB3	1.99	0.61
52:BV:96:ILE:CG2	52:BV:97:LYS:N	2.62	0.61
54:BX:60:ARG:HG2	54:BX:74:PRO:CD	2.24	0.61
41:BG:69:ALA:CB	41:BG:91:ARG:HE	2.13	0.61
35:DA:332:A:H4'	35:DA:333:G:OP1	1.99	0.61
35:DA:93:G:H2'	35:DA:94:C:H6	1.64	0.61
35:DA:94(A):G:H2'	35:DA:95:G:C5'	2.26	0.61
51:DU:106:PHE:O	51:DU:110:VAL:HG23	2.00	0.61
4:CD:61:LYS:HE3	4:CD:207:TYR:OH	2.00	0.61
27:D1:47:GLN:HB3	27:D1:64:ALA:CB	2.30	0.61
27:D1:47:GLN:N	35:DA:397:G:OP1	2.23	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:990:A:N6	35:BA:1186:G:H1'	2.15	0.61
1:AA:59:A:H3'	1:AA:331:G:H22	1.64	0.61
20:AT:14:LYS:HA	20:AT:17:ARG:HH21	1.64	0.61
48:BR:28:LEU:HA	48:BR:34:ILE:CG1	2.30	0.61
44:DN:58:ASP:O	44:DN:60:ILE:N	2.30	0.61
2:CB:54:THR:O	2:CB:58:ILE:HG13	2.00	0.61
4:AD:23:GLY:HA3	4:AD:112:VAL:HG22	1.82	0.61
18:AR:81:PHE:O	18:AR:82:THR:HB	1.98	0.61
25:AY:103:ILE:O	25:AY:103:ILE:HG13	2.00	0.61
12:CL:6:THR:HG22	12:CL:9:GLN:HE21	1.65	0.61
12:AL:32:PHE:HB3	12:AL:84:LEU:CD2	2.29	0.61
55:BY:27:VAL:HG12	55:BY:29:GLU:OE1	1.99	0.61
7:AG:150:ALA:C	7:AG:152:ALA:H	2.02	0.61
1:AA:715:A:H2'	1:AA:716:A:H8	1.64	0.61
35:BA:2673:G:O2'	35:BA:2674:G:H5'	1.99	0.61
3:AC:107:GLN:O	3:AC:108:ASN:HB2	2.00	0.61
40:DF:178:PRO:HG2	40:DF:179:GLU:N	2.14	0.61
35:BA:491:G:O2'	35:BA:492:A:H5'	2.00	0.61
35:DA:2830:G:H5'	39:DE:58:ARG:NH2	2.14	0.61
35:DA:1484:G:H3'	35:DA:1485:G:H5''	1.81	0.61
38:BD:145:VAL:HG12	38:BD:146:GLU:N	2.15	0.61
1:AA:893:C:H2'	1:AA:894:G:C8	2.35	0.61
35:DA:970:C:H2'	35:DA:971:C:H6	1.65	0.61
35:BA:962:G:O2'	35:BA:963:U:H5'	2.00	0.61
35:DA:285:C:H3'	35:DA:286:C:H5''	1.82	0.61
27:B1:41:ARG:HG3	27:B1:41:ARG:HH11	1.63	0.61
48:DR:103:ARG:HG2	48:DR:103:ARG:NH1	2.15	0.61
1:AA:946:A:H2'	1:AA:947:G:H8	1.64	0.61
23:AW:7:G:H5'	23:AW:8:U:C5	2.35	0.61
35:BA:1192:G:O2'	35:BA:1193:G:H5'	1.99	0.61
35:BA:2875:C:H4'	50:BT:5:ALA:HB2	1.81	0.61
1:CA:1355:G:H2'	1:CA:1356:G:H8	1.63	0.61
5:CE:87:SER:OG	5:CE:125:SER:HB3	2.00	0.61
35:DA:1344:G:H4'	35:DA:1384:A:N7	2.15	0.61
37:BC:184:LYS:C	37:BC:186:ALA:H	2.03	0.61
32:D6:42:TRP:HA	32:D6:42:TRP:CE3	2.34	0.61
53:DW:37:ARG:HG3	53:DW:37:ARG:HH11	1.65	0.61
35:DA:2684:U:P	50:DT:53:ARG:HH21	2.23	0.61
35:DA:2725:A:O2'	35:DA:2726:U:H2'	2.00	0.61
45:DO:105:GLU:HA	45:DO:108:GLU:CG	2.30	0.61
50:DT:48:ILE:O	50:DT:63:VAL:HG12	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BI:87:LYS:NZ	43:BI:121:LYS:HG2	2.14	0.61
41:DG:22:ARG:O	41:DG:22:ARG:HD3	1.99	0.61
35:DA:1794:U:O4'	35:DA:1900:A:C2	2.53	0.61
35:DA:2308:G:H8	35:DA:2309:A:H3'	1.65	0.61
41:DG:46:ALA:O	41:DG:51:ARG:HG3	1.99	0.61
41:DG:86:MET:N	41:DG:87:PRO:HD3	2.15	0.61
34:B8:25:MET:HG3	46:BP:62:LEU:HD21	1.81	0.61
35:BA:2682:U:O4	35:BA:2728:U:H1'	2.01	0.61
55:DY:95:LYS:HG2	55:DY:100:ALA:CA	2.20	0.61
35:DA:61:G:H1	35:DA:94:C:H42	1.48	0.61
28:D2:26:ARG:NH2	54:DX:6:ASP:HA	2.13	0.61
44:DN:10:GLU:CG	44:DN:11:PRO:HD2	2.30	0.61
3:CC:141:VAL:O	3:CC:141:VAL:HG12	2.00	0.61
19:CS:11:VAL:CG2	19:CS:16:LEU:HD11	2.30	0.61
1:CA:1313:U:OP1	19:CS:6:LYS:HG3	2.00	0.61
49:BS:17:ARG:HG3	49:BS:18:ILE:HD12	1.80	0.61
40:BF:202:PHE:C	40:BF:202:PHE:HD1	2.03	0.61
40:BF:28:ILE:HD13	40:BF:28:ILE:N	2.14	0.61
39:BE:116:VAL:HG21	39:BE:122:PHE:CG	2.35	0.61
44:DN:62:VAL:HG22	44:DN:66:LYS:CG	2.30	0.61
55:BY:76:CYS:SG	55:BY:77:PRO:CD	2.88	0.61
48:DR:13:HIS:CE1	48:DR:16:HIS:HB2	2.35	0.61
35:DA:2820:A:O3'	48:DR:2:ARG:NH2	2.33	0.61
48:DR:84:ALA:HB3	48:DR:85:PRO:HD3	1.80	0.61
35:BA:2707:G:H2'	35:BA:2708:G:C8	2.35	0.61
35:DA:2078:C:H2'	35:DA:2079:U:C6	2.34	0.61
44:DN:17:ASP:C	44:DN:19:GLU:N	2.53	0.61
44:DN:58:ASP:O	44:DN:60:ILE:HG13	2.00	0.61
1:AA:402:G:H1'	1:AA:620:C:H42	1.65	0.61
1:CA:1510:U:H2'	1:CA:1511:G:C8	2.36	0.61
51:DU:33:ARG:O	51:DU:34:LYS:C	2.38	0.61
42:DH:44:VAL:HG12	42:DH:45:VAL:N	2.14	0.61
12:CL:22:SER:O	12:CL:24:VAL:N	2.33	0.61
44:BN:15:LEU:HB3	44:BN:136:GLU:HA	1.82	0.61
25:AY:63:PRO:HB2	25:AY:64:ARG:CZ	2.29	0.61
25:AY:9:GLU:O	25:AY:13:HIS:HB2	1.98	0.61
33:B7:17:GLY:O	33:B7:18:PHE:C	2.38	0.61
35:DA:2389:G:H5''	35:DA:2390:U:O4'	2.00	0.61
1:CA:1075:C:OP1	2:CB:179:LYS:HE2	2.00	0.61
35:DA:2225:A:H4'	35:DA:2226:C:H5'	1.83	0.61
40:BF:160:ASN:HB3	40:BF:163:VAL:HG23	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1410:G:H2'	1:CA:1411:C:C6	2.36	0.61
13:CM:19:LEU:CA	13:CM:22:ILE:HD13	2.30	0.61
17:CQ:69:LYS:C	17:CQ:70:ARG:HD2	2.20	0.61
26:D0:25:ARG:HG3	26:D0:29:GLN:NE2	2.14	0.61
3:CC:70:VAL:HG12	3:CC:72:LYS:H	1.64	0.61
1:AA:393:A:OP2	16:AP:12:LYS:HD3	1.99	0.61
1:CA:579:G:H5'	1:CA:728:A:H1'	1.82	0.61
35:DA:2795:G:N2	35:DA:2799:C:H5'	2.14	0.61
35:BA:1388:G:H1	35:BA:1399:C:H42	1.48	0.61
1:AA:1523:G:C6	1:AA:1524:C:C4	2.88	0.61
10:AJ:32:ALA:HB1	10:AJ:75:ILE:CD1	2.29	0.61
1:AA:1242:C:H2'	1:AA:1243:C:C6	2.34	0.61
1:AA:628:G:O2'	1:AA:629:G:H5'	2.00	0.61
35:DA:1440:G:H2'	35:DA:1441:G:H8	1.64	0.61
1:AA:1162:C:H2'	1:AA:1163:C:C6	2.35	0.61
35:BA:1387:C:H5'	35:BA:1469:A:H4'	1.82	0.61
38:BD:109:ASP:HB3	38:BD:195:ALA:HB3	1.81	0.61
35:BA:1830:C:H42	35:BA:1975:G:H1	1.48	0.61
1:AA:524:G:H2'	1:AA:525:C:C6	2.36	0.61
56:DZ:31:ARG:CZ	56:DZ:94:GLU:OE2	2.48	0.61
10:AJ:39:PRO:HA	10:AJ:70:ARG:HA	1.81	0.61
39:DE:11:MET:H	50:DT:8:LYS:HZ1	1.47	0.61
45:DO:71:ARG:HH11	45:DO:71:ARG:HG3	1.65	0.61
45:DO:93:PRO:C	45:DO:95:GLY:H	2.03	0.61
50:DT:50:ILE:CG2	50:DT:99:LEU:HD12	2.23	0.61
38:DD:177:LEU:HD12	38:DD:181:GLU:CG	2.30	0.61
41:DG:38:VAL:HB	41:DG:158:ALA:HB3	1.83	0.61
35:BA:2723:C:O2'	35:BA:2724:C:H5'	2.00	0.61
35:DA:2052:G:N3	39:DE:149:ARG:HA	2.16	0.61
39:BE:5:LEU:HD22	39:BE:197:ILE:HG22	1.81	0.61
52:BV:39:LEU:HD21	52:BV:53:GLU:HA	1.82	0.61
41:BG:51:ARG:HA	41:BG:51:ARG:HE	1.64	0.61
42:BH:87:LEU:N	42:BH:131:VAL:O	2.34	0.61
52:DV:61:VAL:CG2	52:DV:100:ARG:HG2	2.31	0.61
4:CD:60:GLU:HG2	4:CD:202:LEU:HB2	1.82	0.61
35:BA:622:G:O2'	35:BA:623:G:H5'	2.01	0.61
39:BE:116:VAL:O	39:BE:117:MET:CB	2.47	0.61
34:D8:26:LYS:NZ	34:D8:47:LYS:HD3	2.15	0.61
27:B1:37:ILE:HG21	35:BA:2079:U:O3'	1.99	0.61
40:BF:67:GLN:CG	40:BF:67:GLN:O	2.41	0.61
35:BA:1190:G:H4'	46:BP:35:HIS:CB	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DS:72:ALA:O	49:DS:76:LYS:HG2	2.00	0.61
6:AF:76:ALA:HB1	6:AF:80:ARG:HH21	1.64	0.61
1:CA:1405:G:O2'	1:CA:1406:U:H5'	1.99	0.61
1:CA:1517:G:C8	35:DA:1920:C:OP1	2.53	0.61
7:AG:105:VAL:HG12	7:AG:109:ASN:ND2	2.15	0.61
16:AP:48:TRP:HE3	16:AP:49:LEU:H	1.48	0.61
43:BI:95:LYS:O	43:BI:99:GLU:HB2	2.00	0.61
26:B0:14:ARG:HD2	35:BA:2279:G:O6	2.00	0.61
1:AA:184:G:C4'	1:AA:224:C:H4'	2.31	0.61
43:DI:14:ASP:HB2	43:DI:17:GLN:OE1	2.01	0.61
43:DI:4:ILE:HA	43:DI:17:GLN:O	2.00	0.61
8:AH:12:ARG:HH11	8:AH:26:VAL:HA	1.65	0.61
54:BX:65:ARG:CZ	54:BX:66:LEU:N	2.61	0.61
12:CL:60:LEU:HD23	12:CL:64:TYR:O	2.00	0.61
56:BZ:142:SER:H	56:BZ:144:LEU:HD23	1.64	0.61
16:CP:49:LEU:HD12	16:CP:50:LYS:H	1.62	0.61
56:BZ:17:ALA:HA	56:BZ:20:ARG:CD	2.29	0.61
35:BA:1614:A:N6	53:BW:93:ALA:CB	2.63	0.61
2:AB:97:TRP:HH2	2:AB:176:GLU:HB2	1.65	0.61
35:DA:2165:G:H2'	35:DA:2165:G:N3	2.15	0.61
35:DA:1771:C:H2'	35:DA:1772:G:H8	1.65	0.61
36:DB:83:G:O2'	36:DB:84:C:H5'	2.01	0.61
1:AA:155:C:H2'	1:AA:156:G:C8	2.36	0.61
5:CE:57:LYS:HE2	5:CE:61:TYR:HE2	1.66	0.61
53:DW:69:LEU:H	53:DW:69:LEU:HD12	1.64	0.61
8:AH:18:ARG:N	8:AH:78:GLN:HE22	1.98	0.61
1:CA:1160:G:OP1	2:CB:132:LYS:HE3	2.01	0.61
38:DD:68:LYS:HB2	38:DD:70:TRP:CH2	2.34	0.61
39:DE:93:VAL:C	39:DE:95:ILE:H	2.03	0.61
1:CA:519:C:H2'	1:CA:520:A:C8	2.36	0.61
35:BA:1547:C:O2'	35:BA:1548:C:H5'	2.00	0.61
1:CA:1010:G:H22	1:CA:1020:U:H1'	1.64	0.61
46:DP:100:LEU:H	46:DP:100:LEU:HD22	1.66	0.61
37:BC:211:SER:HA	37:BC:220:PRO:HA	1.82	0.61
5:CE:15:ARG:HG3	5:CE:28:PHE:CE2	2.35	0.61
35:BA:2364:C:H2'	35:BA:2365:G:O4'	1.99	0.61
35:DA:1210:A:H4'	35:DA:1211:U:O5'	2.00	0.61
45:DO:102:VAL:HB	45:DO:106:LEU:HD12	1.81	0.61
38:BD:181:GLU:HA	38:BD:272:ALA:O	2.00	0.61
35:DA:1803:A:O2'	38:DD:259:THR:HG21	1.99	0.61
38:DD:27:THR:CG2	38:DD:28:GLU:H	1.91	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DG:114:ILE:CB	41:DG:117:PHE:HB2	2.30	0.61
41:DG:135:LEU:CD2	41:DG:140:ILE:HD11	2.28	0.61
41:DG:96:ARG:HG3	41:DG:97:ASP:H	1.64	0.61
35:BA:2787:C:C2	39:BE:61:ARG:HD3	2.36	0.61
51:BU:55:ARG:HA	51:BU:58:ARG:HD2	1.82	0.61
51:BU:66:ASN:OD1	51:BU:76:TYR:N	2.33	0.61
54:BX:36:LYS:HZ1	54:BX:39:ILE:HA	1.65	0.61
39:DE:48:GLN:HG2	39:DE:78:LEU:HD12	1.82	0.61
35:DA:74:A:H4'	35:DA:75:G:O5'	1.99	0.61
54:DX:77:LYS:CE	54:DX:78:LYS:HG3	2.30	0.61
3:AC:164:ARG:CB	3:AC:164:ARG:HH11	2.06	0.61
19:CS:6:LYS:CD	19:CS:7:LYS:HD2	2.30	0.61
36:BB:31:C:H2'	36:BB:53:A:H61	1.66	0.61
46:BP:38:GLN:HG3	46:BP:39:LYS:N	2.06	0.61
1:AA:1478:C:C2	1:AA:1479:C:C5	2.88	0.61
2:CB:212:GLN:CG	2:CB:235:SER:HB2	2.30	0.61
44:DN:120:LEU:HD13	44:DN:120:LEU:C	2.21	0.61
6:CF:61:LEU:O	6:CF:62:TRP:HB2	1.99	0.61
2:CB:72:GLY:HA3	2:CB:165:VAL:HG22	1.82	0.61
35:DA:869:G:H2'	35:DA:870:A:H8	1.65	0.61
47:BQ:53:ALA:HA	47:BQ:56:ARG:HB3	1.83	0.61
1:CA:1408:A:O2'	35:DA:1916:A:N6	2.33	0.61
35:DA:2033:A:H4'	35:DA:2034:U:OP1	1.99	0.61
35:DA:2498:C:HO2'	35:DA:2499:C:H5'	1.66	0.61
51:BU:40:PHE:N	51:BU:40:PHE:CD2	2.68	0.61
8:CH:103:VAL:HG12	8:CH:108:GLY:HA3	1.83	0.61
55:BY:37:VAL:HG22	55:BY:67:LEU:O	2.00	0.61
11:AK:23:ALA:HB1	11:AK:91:ARG:HG2	1.81	0.61
20:AT:57:ARG:HH11	20:AT:57:ARG:HB2	1.65	0.61
9:AI:4:TYR:CD1	9:AI:4:TYR:N	2.68	0.61
12:CL:89:ARG:HH11	12:CL:90:VAL:N	1.98	0.61
12:CL:90:VAL:HG11	12:CL:93:LEU:HG	1.81	0.61
9:CI:26:VAL:HG13	9:CI:63:ILE:CD1	2.30	0.61
46:BP:99:LEU:HD12	46:BP:102:ARG:HD2	1.82	0.61
42:BH:136:ILE:O	42:BH:137:ASP:HB2	1.99	0.61
5:AE:78:HIS:CD2	8:AH:104:ARG:HE	2.19	0.61
1:CA:471:G:H2'	1:CA:472:A:C8	2.34	0.61
39:DE:134:ILE:HD13	39:DE:134:ILE:N	2.15	0.61
13:AM:78:ILE:HA	13:AM:81:LEU:CD1	2.30	0.61
54:DX:89:ILE:HA	54:DX:92:LEU:HD12	1.82	0.61
17:CQ:94:ASN:O	17:CQ:97:SER:OG	2.19	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1509(A):A:H2'	35:DA:1509(B):A:C8	2.35	0.61
1:CA:1088:G:H2'	1:CA:1089:G:C8	2.33	0.61
43:DI:51:ILE:HG22	43:DI:52:ARG:N	2.14	0.61
35:BA:648:G:C4'	35:BA:2351:G:H5''	2.31	0.61
35:DA:1388:G:H1	35:DA:1399:C:H42	1.47	0.61
7:AG:40:ALA:HA	7:AG:43:PHE:HB3	1.81	0.61
35:BA:1192:G:C2'	35:BA:1193:G:H5'	2.30	0.61
1:AA:1355:G:H2'	1:AA:1356:G:H8	1.65	0.61
1:AA:1003:G:H2'	1:AA:1004:A:O4'	1.99	0.61
35:BA:2037:G:H2'	35:BA:2038:G:C8	2.35	0.61
5:CE:152:ARG:HB3	8:CH:43:GLY:HA3	1.82	0.61
1:CA:473:G:H2'	1:CA:474:G:H8	1.66	0.61
24:CX:19:U:H2'	24:CX:19:U:O2	1.99	0.61
35:BA:2609:U:H4'	35:BA:2609:U:OP1	2.01	0.61
37:BC:213:TYR:CB	37:BC:218:MET:HA	2.30	0.61
35:DA:1665:A:H2'	35:DA:1666:G:O4'	2.00	0.61
50:DT:91:ARG:O	50:DT:117:ASP:HB2	2.01	0.61
43:BI:91:SER:H	43:BI:121:LYS:CE	2.13	0.61
1:CA:17:U:O2'	1:CA:18:C:H5'	2.00	0.61
35:DA:1814:G:H2'	35:DA:1815:A:N7	2.15	0.61
41:DG:120:LEU:O	41:DG:180:PHE:HA	2.01	0.61
45:BO:71:ARG:HH11	45:BO:71:ARG:HG3	1.64	0.61
45:BO:76:ALA:HB3	50:BT:75:ILE:CB	2.30	0.61
35:DA:2575:C:H5'	39:DE:144:ARG:HG2	1.82	0.61
39:BE:197:ILE:CD1	39:BE:199:ARG:HH22	2.14	0.61
1:AA:1385:G:O2'	1:AA:1386:G:H5'	2.00	0.61
35:BA:1153:C:H2'	35:BA:1154:G:O4'	2.00	0.61
51:BU:55:ARG:HA	51:BU:58:ARG:CD	2.30	0.61
28:B2:22:GLU:HA	28:B2:25:VAL:CG1	2.31	0.61
35:BA:143:G:H2'	35:BA:143(A):C:C6	2.35	0.61
54:BX:82:GLN:CG	54:BX:83:VAL:N	2.61	0.61
41:BG:77:ILE:HD13	41:BG:80:PHE:O	2.01	0.61
42:BH:86:GLU:HA	42:BH:132:ARG:HB3	1.81	0.61
47:DQ:29:PHE:HB3	56:DZ:118:GLN:OE1	2.00	0.61
56:DZ:86:VAL:HG12	56:DZ:87:ASP:N	2.14	0.61
49:BS:38:GLN:C	49:BS:39:ILE:HD12	2.20	0.61
35:BA:595:C:H2'	35:BA:596:G:C8	2.36	0.61
35:BA:260:G:H1'	35:BA:621:A:H1'	1.83	0.61
40:BF:202:PHE:C	40:BF:202:PHE:CD1	2.73	0.61
35:BA:598:G:H5'	46:BP:15:ARG:CD	2.31	0.61
25:AY:52:LEU:C	25:AY:54:GLN:H	2.03	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D1:10:LYS:C	27:D1:11:ARG:O	2.36	0.61
35:BA:2078:C:H1'	35:BA:2434:A:N3	2.16	0.61
35:BA:796:C:H2'	35:BA:797:C:C6	2.36	0.61
35:BA:1660:C:H5'	35:BA:2712(A):A:H61	1.63	0.61
2:AB:33:TYR:CD1	2:AB:43:ASP:HA	2.34	0.61
1:CA:673:G:H5''	6:CF:87:ARG:HH11	1.63	0.61
2:CB:36:ARG:NH1	2:CB:37:ASN:HB2	2.16	0.61
35:DA:675:A:H4'	40:DF:67:GLN:OE1	2.00	0.61
55:DY:38:ILE:HG22	55:DY:39:VAL:N	2.14	0.61
6:AF:91:VAL:HG11	18:AR:72:ARG:NH1	2.15	0.61
18:AR:37:VAL:CG2	18:AR:38:GLU:H	2.06	0.61
35:DA:581:C:O2'	35:DA:582:G:H5'	2.00	0.61
1:CA:585:G:H4'	12:CL:8:ASN:ND2	2.10	0.61
12:AL:22:SER:O	12:AL:24:VAL:N	2.33	0.61
44:BN:78:TYR:H	44:BN:79:PRO:HD2	1.65	0.61
19:AS:40:ILE:HD13	19:AS:62:ILE:HD13	1.83	0.61
1:CA:640:A:H4'	8:CH:116:LYS:NZ	2.15	0.61
8:CH:119:LEU:HD23	8:CH:119:LEU:H	1.63	0.61
12:AL:47:LYS:CB	12:AL:48:PRO:CD	2.79	0.61
8:CH:64:LYS:O	8:CH:79:VAL:HG21	2.01	0.61
1:AA:383:A:H2'	1:AA:384:G:C5'	2.29	0.61
1:AA:490:G:H2'	1:AA:491:G:C8	2.34	0.61
40:BF:139:PHE:CB	40:BF:166:ALA:HB1	2.31	0.61
40:DF:178:PRO:CG	40:DF:179:GLU:H	2.11	0.61
39:BE:103:ASP:OD2	39:BE:201:THR:HA	2.00	0.61
23:AW:60:A:C2'	23:AW:61:U:H5'	2.30	0.61
40:DF:167:ALA:HB1	40:DF:173:VAL:HG11	1.82	0.61
1:AA:253:U:H2'	1:AA:254:G:C8	2.31	0.61
38:DD:145:VAL:HB	38:DD:155:LEU:HB2	1.83	0.61
38:BD:231:HIS:CD2	38:BD:249:PRO:HG3	2.36	0.61
38:BD:10:THR:HG23	38:BD:13:ARG:HB3	1.82	0.61
35:BA:285:C:H3'	35:BA:286:C:H5''	1.82	0.61
22:CV:40:C:O2'	22:CV:41:C:H5'	2.01	0.61
35:BA:506:G:H4'	35:BA:509:C:O2	2.01	0.61
25:AY:80:GLU:O	25:AY:82:ALA:N	2.33	0.61
35:DA:2203:U:C4'	38:DD:151:LYS:HE3	2.30	0.61
1:AA:571:U:H5''	1:AA:819:A:C2	2.35	0.61
1:AA:786:G:H1	1:AA:796:C:N4	1.98	0.61
35:BA:2111:C:H5'	35:BA:2112:G:OP1	2.00	0.61
38:BD:166:GLN:N	38:BD:166:GLN:HE21	1.98	0.61
39:DE:92:THR:HB	39:DE:94:GLU:OE1	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B3:36:VAL:O	29:B3:37:LEU:HD23	2.00	0.61
38:BD:222:ARG:O	38:BD:223:GLY:C	2.37	0.61
35:BA:2683:C:H5''	50:BT:53:ARG:NH2	2.14	0.61
45:BO:102:VAL:HB	45:BO:106:LEU:HD12	1.83	0.61
56:BZ:57:ILE:HG22	56:BZ:59:LEU:HG	1.81	0.61
44:BN:1:MET:C	44:BN:2:LYS:HD2	2.21	0.61
52:BV:2:PHE:HB3	52:BV:42:GLY:CA	2.26	0.61
42:DH:88:LEU:O	42:DH:89:ILE:HG23	2.00	0.61
2:AB:80:ILE:HG21	2:AB:208:ILE:HG23	1.83	0.61
28:D2:15:LYS:O	28:D2:18:PRO:HD2	2.00	0.61
56:DZ:97:GLU:HA	56:DZ:126:VAL:O	2.00	0.61
56:DZ:146:ILE:HA	56:DZ:174:VAL:CB	2.29	0.61
56:DZ:24:LEU:C	56:DZ:24:LEU:HD12	2.21	0.61
49:BS:88:ASP:OD2	49:BS:89:ARG:N	2.29	0.61
34:D8:25:MET:HB2	46:DP:62:LEU:HD11	1.82	0.61
46:BP:46:LYS:HB3	46:BP:52:GLU:HG2	1.81	0.61
1:AA:1463:C:H2'	1:AA:1464:G:O4'	2.01	0.61
44:DN:32:THR:CG2	44:DN:37:LYS:HB3	2.31	0.61
3:CC:164:ARG:CB	3:CC:164:ARG:HH11	2.07	0.61
47:DQ:43:THR:OG1	47:DQ:45:GLN:HB2	2.01	0.61
47:DQ:76:LYS:H	47:DQ:88:GLY:HA2	1.64	0.61
51:DU:31:SER:C	51:DU:33:ARG:H	2.03	0.61
13:AM:115:LYS:O	13:AM:117:VAL:HG23	2.00	0.61
1:AA:17:U:O4'	1:AA:1080:A:H1'	2.00	0.61
1:AA:17:U:O2'	1:AA:18:C:H5'	2.00	0.61
8:CH:26:VAL:O	8:CH:59:LEU:N	2.33	0.61
33:D7:29:LYS:O	33:D7:32:LYS:HB3	2.01	0.61
46:DP:130:PHE:N	46:DP:130:PHE:HD2	1.98	0.61
23:AW:45:A:H2'	23:AW:46:G:C8	2.36	0.61
35:DA:491:G:O2'	35:DA:492:A:H5'	1.99	0.61
2:AB:103:THR:HA	2:AB:180:LEU:HD11	1.82	0.61
35:DA:1925:C:C2'	35:DA:1926:U:H5'	2.30	0.61
1:CA:711:G:O2'	1:CA:712:A:H5'	2.01	0.61
17:AQ:67:LYS:HA	17:AQ:70:ARG:HH12	1.64	0.61
1:CA:1465:C:H2'	1:CA:1466:C:C6	2.36	0.61
27:D1:42:GLN:HG2	27:D1:43:TYR:N	2.15	0.61
35:DA:1366:A:H2'	35:DA:1367:A:H8	1.65	0.61
15:AO:53:HIS:HE1	15:AO:57:LEU:HD21	1.66	0.61
1:AA:135:C:H2'	1:AA:136:C:H5'	1.82	0.61
1:AA:818:G:C3'	1:AA:819:A:H5''	2.31	0.61
35:DA:1854:A:H5'	35:DA:1855:G:OP1	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1523:U:H2'	35:BA:1524:G:C8	2.36	0.61
1:CA:1152:A:H5''	10:CJ:13:HIS:HD2	1.66	0.61
35:BA:696:G:O2'	35:BA:697:C:H5'	1.99	0.61
3:AC:119:ARG:NH2	3:AC:140:ARG:CZ	2.63	0.61
35:BA:2179:C:H1'	37:BC:171:ILE:CB	2.30	0.61
43:DI:64:GLU:OE1	43:DI:67:ARG:HB2	2.01	0.61
47:BQ:60:ARG:C	47:BQ:60:ARG:HD3	2.20	0.61
35:DA:595:C:H2'	35:DA:596:G:C8	2.36	0.61
35:DA:499:U:O2'	35:DA:500:G:H5'	2.00	0.61
35:BA:1821:A:H2'	35:BA:1822:G:C8	2.35	0.61
41:DG:111:LEU:CA	41:DG:114:ILE:HD11	2.29	0.61
47:DQ:34:LEU:CD1	47:DQ:129:THR:HB	2.29	0.61
45:BO:1:MET:HG3	45:BO:32:TYR:HD2	1.59	0.61
45:BO:11:ALA:HB1	45:BO:99:PHE:O	2.01	0.61
50:BT:48:ILE:O	50:BT:63:VAL:HG12	2.01	0.61
51:BU:105:VAL:O	51:BU:109:LEU:HG	2.01	0.61
51:BU:90:VAL:HG22	52:BV:39:LEU:CD1	2.30	0.61
54:DX:30:VAL:HG23	54:DX:76:ARG:HA	1.81	0.61
54:DX:39:ILE:O	54:DX:42:ALA:HB3	2.00	0.61
54:DX:82:GLN:CD	54:DX:83:VAL:H	2.04	0.61
56:DZ:98:MET:O	56:DZ:98:MET:HG3	2.00	0.61
1:CA:431:A:H2'	1:CA:432:A:C8	2.36	0.61
43:DI:77:LEU:CB	43:DI:140:LEU:HD13	2.22	0.61
39:BE:141:ILE:HD13	39:BE:141:ILE:N	2.16	0.61
35:DA:2707:G:H5''	48:DR:68:ARG:HH21	1.66	0.61
35:BA:1286:A:OP1	48:BR:105:ARG:HD2	2.01	0.61
48:BR:9:LYS:HE3	48:BR:43:GLU:OE2	2.01	0.61
36:DB:31:C:H2'	36:DB:53:A:H61	1.66	0.61
49:DS:67:ARG:HE	49:DS:100:ALA:HB3	1.66	0.61
49:DS:31:SER:OG	49:DS:32:LEU:N	2.32	0.61
2:AB:178:ARG:HH22	2:AB:196:LEU:HA	1.65	0.61
2:AB:185:ILE:HG22	2:AB:199:TYR:CD1	2.35	0.61
18:CR:38:GLU:O	18:CR:41:LYS:HB3	1.99	0.61
2:CB:33:TYR:HB2	2:CB:41:ILE:HG22	1.81	0.61
35:DA:1215:G:H2'	35:DA:1216:G:H8	1.66	0.61
1:AA:620:C:H2'	1:AA:621:A:O4'	2.01	0.61
55:DY:19:LYS:HD2	55:DY:20:TYR:CE1	2.36	0.61
18:AR:43:PHE:C	18:AR:44:LEU:HD12	2.21	0.61
6:AF:89:MET:SD	18:AR:76:LEU:HD21	2.41	0.61
13:CM:117:VAL:HG12	13:CM:118:ALA:N	2.16	0.61
20:CT:64:ASP:C	20:CT:66:ALA:H	2.02	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2619:C:H5''	39:BE:152:LYS:HA	1.83	0.61
1:AA:685:G:N2	1:AA:686:U:H3	1.99	0.61
35:DA:2260:C:O2'	35:DA:2261:C:H5'	1.99	0.61
8:AH:103:VAL:HG21	8:AH:109:ILE:C	2.21	0.61
1:AA:1080:A:H5'	5:AE:14:ARG:NH2	2.14	0.61
12:AL:119:LYS:HB2	12:AL:120:TYR:HD1	1.64	0.61
9:AI:3:GLN:HG2	9:AI:20:ARG:HH21	1.65	0.61
46:BP:85:LEU:H	46:BP:85:LEU:CD2	2.09	0.61
9:CI:7:THR:HB	9:CI:83:ARG:NH1	2.14	0.61
35:BA:2830:G:H5'	39:BE:58:ARG:NH2	2.16	0.61
5:CE:139:LEU:HA	5:CE:142:LEU:CD1	2.30	0.61
29:B3:41:PRO:HD3	29:B3:44:ARG:NH1	2.16	0.61
26:B0:25:ARG:HG3	26:B0:29:GLN:NE2	2.15	0.61
7:AG:58:PRO:HA	7:AG:61:VAL:CG2	2.31	0.61
6:AF:82:ARG:HB3	6:AF:82:ARG:NH1	2.15	0.61
53:BW:5:ALA:HB2	53:BW:54:ALA:HB2	1.83	0.61
53:DW:26:GLY:O	53:DW:27:LYS:HG3	2.00	0.61
6:AF:37:VAL:HG13	6:AF:65:VAL:CG1	2.31	0.61
35:BA:2505:G:H2'	35:BA:2576:G:O6	2.01	0.61
45:DO:42:SER:HA	45:DO:56:ASP:O	1.99	0.61
54:BX:89:ILE:O	54:BX:89:ILE:HG22	1.99	0.61
20:CT:31:SER:O	20:CT:34:LYS:HB2	2.00	0.61
49:DS:41:ASP:O	49:DS:45:GLY:HA2	2.00	0.61
35:BA:426:C:O2'	35:BA:427:U:H5'	2.01	0.61
35:BA:1902:C:C5'	38:BD:246:PRO:HD3	2.31	0.61
5:CE:131:ILE:HD13	5:CE:131:ILE:H	1.64	0.61
38:DD:64:ILE:HG23	38:DD:64:ILE:O	2.00	0.61
39:BE:64:LYS:C	39:BE:66:HIS:H	2.01	0.61
39:BE:52:LEU:N	39:BE:74:PRO:HB2	2.15	0.61
1:AA:1190:G:H8	3:AC:3:ASN:HD21	1.47	0.61
35:BA:559:G:H22	51:BU:49:HIS:CD2	2.19	0.61
27:B1:73:LEU:CA	27:B1:76:ARG:HH12	2.14	0.61
28:D2:49:LYS:O	28:D2:51:ARG:N	2.34	0.61
56:DZ:58:VAL:HA	56:DZ:67:LEU:O	2.00	0.61
3:CC:182:ILE:HG12	3:CC:203:PHE:HA	1.82	0.61
3:CC:153:VAL:HA	3:CC:197:GLY:O	2.01	0.61
35:BA:2514:U:H2'	35:BA:2515:C:H6	1.65	0.61
35:BA:2241:A:H2'	35:BA:2242:G:C8	2.35	0.61
35:BA:792:G:C5'	35:BA:793:A:H5'	2.30	0.61
50:BT:109:GLU:CA	50:BT:112:ARG:HG3	2.30	0.61
49:DS:85:VAL:HG23	49:DS:106:ARG:HB2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:23:LYS:O	6:AF:27:GLN:HG2	2.01	0.61
16:AP:72:ARG:C	16:AP:74:LEU:H	2.04	0.61
25:AY:30:THR:C	25:AY:32:ARG:N	2.53	0.61
1:CA:694:A:H5''	11:CK:53:SER:CB	2.30	0.61
1:AA:707:C:H4'	11:AK:20:TYR:HD1	1.64	0.61
33:B7:13:ALA:O	33:B7:17:GLY:HA3	2.00	0.61
43:BI:96:ASP:HA	43:BI:99:GLU:HB3	1.82	0.61
40:DF:160:ASN:HB3	40:DF:163:VAL:HG23	1.81	0.61
42:DH:40:GLU:HB2	42:DH:41:MET:SD	2.41	0.61
55:BY:13:VAL:HG21	55:BY:28:LYS:HG2	1.82	0.61
13:AM:97:PRO:HB3	13:AM:110:ARG:HD3	1.81	0.61
35:DA:225:A:O2'	35:DA:226:G:H5'	2.01	0.61
43:DI:10:GLU:O	43:DI:12:LEU:HD23	2.00	0.61
12:AL:89:ARG:HE	12:AL:91:LYS:HE2	1.66	0.61
31:D5:52:TYR:HA	31:D5:56:LYS:NZ	2.15	0.61
35:DA:778:G:C5'	38:DD:48:ARG:HD2	2.31	0.61
35:BA:542:C:H2'	35:BA:543:C:OP1	2.01	0.61
38:DD:121:PRO:HB3	38:DD:135:PHE:CE2	2.36	0.61
35:BA:2308:G:H8	35:BA:2309:A:H3'	1.65	0.61
17:CQ:5:VAL:HA	17:CQ:59:ILE:O	2.01	0.61
1:AA:1056:U:H5'	3:AC:163:ALA:HB2	1.82	0.61
39:BE:38:THR:C	39:BE:40:GLU:H	2.04	0.61
13:CM:58:GLU:HA	13:CM:58:GLU:OE1	2.01	0.61
15:AO:24:SER:O	15:AO:28:GLN:HG3	2.01	0.61
54:DX:92:LEU:O	54:DX:93:GLU:HB3	2.01	0.61
38:BD:9:TYR:C	38:BD:10:THR:HG22	2.21	0.61
35:DA:45:C:H2'	35:DA:47:C:H6	1.66	0.61
48:BR:103:ARG:HG2	48:BR:103:ARG:NH1	2.13	0.61
46:BP:56:SER:O	46:BP:57:THR:HB	2.01	0.61
35:BA:1909:C:H2'	35:BA:1909:C:O2	2.00	0.61
39:DE:39:PRO:HA	39:DE:43:GLY:CA	2.30	0.61
35:BA:648:G:H2'	35:BA:649:G:C8	2.35	0.61
7:CG:149:ARG:HD3	11:CK:59:TYR:CE1	2.36	0.61
35:BA:1220:A:O2'	35:BA:1221:C:H5''	2.00	0.61
35:BA:1889:A:O2'	35:BA:2087:G:H5'	1.99	0.61
53:BW:69:LEU:HD12	53:BW:69:LEU:H	1.65	0.61
1:AA:291:C:O2'	1:AA:292:G:H5'	2.01	0.61
35:DA:1014:U:H2'	35:DA:1015:G:H8	1.65	0.61
4:CD:23:GLY:HA3	4:CD:112:VAL:HG22	1.82	0.61
32:B6:42:TRP:CE3	32:B6:42:TRP:HA	2.35	0.61
46:BP:108:LYS:C	46:BP:110:TYR:H	2.04	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1789:A:O2'	35:DA:1790:C:H5'	2.01	0.61
35:DA:782:A:H2	38:DD:226:MET:HE2	1.65	0.61
16:CP:20:VAL:HG23	16:CP:34:GLU:O	2.01	0.61
41:DG:134:GLY:HA2	41:DG:157:ILE:HG12	1.82	0.61
35:BA:2677:G:H2'	35:BA:2678:C:C6	2.34	0.61
50:BT:28:VAL:O	50:BT:88:ILE:HD11	2.01	0.61
35:DA:2056:G:H2'	35:DA:2056:G:N3	2.15	0.61
35:DA:1496:A:H2'	35:DA:1498:C:C5	2.36	0.61
44:BN:43:THR:O	44:BN:46:VAL:N	2.33	0.61
44:BN:42:TRP:HD1	51:BU:63:VAL:HG11	1.66	0.61
28:B2:41:ILE:O	28:B2:44:LEU:N	2.32	0.61
35:BA:143:G:H2'	35:BA:143(A):C:H6	1.66	0.61
39:DE:199:ARG:HH11	39:DE:199:ARG:HG3	1.66	0.61
28:D2:12:GLU:O	28:D2:14:ARG:HD3	2.01	0.61
35:DA:142:A:H5'	35:DA:142(A):C:OP2	2.01	0.61
4:CD:108:LEU:CB	4:CD:110:PHE:CE1	2.84	0.61
35:BA:2512:C:H4'	39:BE:122:PHE:CZ	2.36	0.61
49:DS:23:ARG:HG2	49:DS:24:LEU:H	1.66	0.61
2:AB:72:GLY:CA	2:AB:165:VAL:HG22	2.31	0.61
35:DA:202:U:H2'	35:DA:203:C:C6	2.35	0.61
2:CB:172:ILE:HD12	2:CB:172:ILE:N	2.12	0.61
40:DF:89:VAL:HG12	40:DF:90:PHE:N	2.16	0.61
43:DI:72:LEU:CD1	43:DI:138:ILE:HD11	2.24	0.61
6:AF:18:GLN:O	6:AF:21:LEU:HB2	2.01	0.61
35:BA:2348:U:H2'	35:BA:2349:G:C5'	2.23	0.61
25:CY:150:SER:HB3	25:CY:153:GLU:HG3	1.81	0.61
25:AY:16:LYS:HA	25:AY:19:GLU:HG3	1.83	0.61
11:CK:23:ALA:HB1	11:CK:91:ARG:HG2	1.83	0.61
35:BA:84:A:N3	35:BA:85:G:H1'	2.15	0.61
8:AH:85:ARG:HH12	8:AH:134:ILE:HG23	1.66	0.61
8:CH:10:LEU:HD23	8:CH:10:LEU:N	2.16	0.61
35:DA:2128:C:O2'	35:DA:2163:C:OP1	2.17	0.61
1:AA:1346:A:H61	1:AA:1374:A:H3'	1.66	0.61
35:BA:2165:G:N3	35:BA:2165:G:H2'	2.16	0.61
7:CG:58:PRO:HA	7:CG:61:VAL:CG2	2.31	0.61
1:CA:472:A:H1'	16:CP:82:GLN:OE1	2.01	0.61
5:CE:7:GLU:O	5:CE:8:GLU:HB3	1.99	0.61
35:DA:1613:G:H2'	35:DA:1617:C:H42	1.66	0.61
1:AA:731:G:OP1	1:AA:766:A:H1'	2.00	0.61
35:BA:361:G:C2'	35:BA:362:U:H5''	2.31	0.61
35:DA:695:G:N2	35:DA:696:G:H1'	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BV:43:GLU:HB2	52:BV:48:GLY:HA3	1.83	0.61
36:BB:15:A:H3'	36:BB:16:G:H5'	1.83	0.61
37:DC:213:TYR:CB	37:DC:218:MET:HA	2.31	0.61
53:DW:110:LYS:HG3	53:DW:111:HIS:ND1	2.16	0.61
1:CA:861:G:H2'	1:CA:862:C:H6	1.66	0.61
46:BP:92:GLU:HG3	46:BP:93:GLY:H	1.66	0.61
35:DA:820:A:H2'	35:DA:821:A:O4'	2.01	0.61
1:AA:414:A:H2'	1:AA:415:A:O4'	2.01	0.61
3:CC:60:ALA:HB3	3:CC:63:ASN:HD21	1.66	0.61
37:BC:82:LYS:HB3	37:BC:86:ALA:HB2	1.82	0.61
35:BA:2460:U:O2'	35:BA:2461:C:H5'	2.00	0.61
35:DA:1998:G:H2'	35:DA:1999:C:C6	2.36	0.61
35:BA:1823:G:O2'	35:BA:1824:G:H5'	2.00	0.61
38:DD:94:LEU:HA	38:DD:104:TYR:HA	1.83	0.61
41:DG:39:ILE:CA	41:DG:157:ILE:HA	2.25	0.61
41:DG:171:ALA:O	41:DG:173:LEU:N	2.34	0.61
46:BP:64:LYS:O	46:BP:65:ARG:C	2.39	0.61
56:BZ:151:HIS:CD2	56:BZ:170:THR:HG22	2.35	0.61
39:DE:120:TRP:CE2	39:DE:155:LYS:HB3	2.36	0.61
42:DH:122:THR:O	42:DH:133:VAL:HG13	2.01	0.61
35:BA:92:A:H2'	35:BA:93:G:C8	2.35	0.61
54:BX:77:LYS:CE	54:BX:78:LYS:HG3	2.30	0.61
27:B1:83:GLU:CG	27:B1:86:SER:N	2.63	0.61
35:BA:2775:A:O2'	35:BA:2776:A:H5'	1.99	0.61
35:DA:996:A:H2'	35:DA:997:G:H8	1.66	0.61
51:DU:96:ALA:O	51:DU:98:LEU:N	2.34	0.61
47:DQ:53:ALA:HA	47:DQ:56:ARG:HB3	1.81	0.61
55:BY:75:ILE:HD11	55:BY:78:ALA:O	2.00	0.61
43:BI:71:ILE:HG13	43:BI:72:LEU:H	1.65	0.61
44:BN:120:LEU:C	44:BN:120:LEU:HD13	2.21	0.61
44:BN:56:ASN:CA	44:BN:124:ALA:HA	2.31	0.61
1:CA:741:G:H2'	1:CA:742:G:O4'	2.01	0.61
4:AD:121:VAL:O	4:AD:134:ASP:HA	2.01	0.61
4:AD:96:LEU:C	4:AD:98:GLU:H	2.02	0.61
35:DA:2348:U:H2'	35:DA:2349:G:C5'	2.26	0.61
6:AF:30:LEU:HB3	6:AF:35:ALA:CB	2.30	0.61
1:CA:715:A:H2'	1:CA:716:A:H8	1.64	0.61
1:CA:552:U:O2'	1:CA:553:A:H5'	2.00	0.61
43:BI:3:VAL:HG12	43:BI:37:VAL:O	2.01	0.61
16:AP:49:LEU:CD1	16:AP:51:VAL:HG23	2.30	0.61
7:CG:105:VAL:HG12	7:CG:109:ASN:ND2	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1411:C:HO2'	35:BA:1412:A:H8	1.47	0.61
1:AA:710:G:H5''	6:AF:54:LYS:CE	2.31	0.61
11:AK:110:ASP:O	18:AR:84:LYS:HD2	2.00	0.61
26:D0:14:ARG:HD2	35:DA:2279:G:O6	2.00	0.61
42:DH:41:MET:CE	42:DH:55:PRO:HD2	2.29	0.61
1:AA:1078:U:H2'	1:AA:1079:G:C8	2.36	0.61
12:CL:89:ARG:HE	12:CL:91:LYS:HE2	1.65	0.61
42:BH:67:LEU:HG	42:BH:71:LEU:CD2	2.31	0.61
1:CA:685:G:N2	1:CA:686:U:H3	1.99	0.61
35:BA:2830:G:H5'	39:BE:58:ARG:NH1	2.15	0.61
1:AA:1514:C:H2'	1:AA:1515:C:C6	2.36	0.61
5:CE:122:GLU:O	5:CE:123:LEU:HD23	2.01	0.61
35:BA:1625:C:H2'	35:BA:1626:G:O4'	2.01	0.61
53:BW:35:ILE:HG22	53:BW:36:LEU:N	2.15	0.61
35:BA:1854:A:H5'	35:BA:1855:G:OP2	2.00	0.61
54:BX:89:ILE:HA	54:BX:92:LEU:HD12	1.82	0.61
10:AJ:29:ARG:HH11	10:AJ:29:ARG:HG2	1.66	0.61
44:DN:4:TYR:N	44:DN:4:TYR:CD1	2.68	0.61
45:BO:42:SER:HA	45:BO:56:ASP:O	1.99	0.61
30:D4:29:PRO:C	30:D4:31:ILE:H	2.03	0.61
25:AY:78:ALA:HA	25:AY:81:LYS:CD	2.31	0.61
35:DA:1997:G:O2'	35:DA:1998:G:H5'	2.01	0.60
45:DO:68:GLU:OE2	45:DO:78:ARG:HD3	2.01	0.60
50:DT:74:ARG:HG2	50:DT:74:ARG:HH11	1.66	0.60
50:DT:86:ILE:HG12	50:DT:87:ASP:O	2.01	0.60
1:CA:865:A:H5'	1:CA:1078:U:C5	2.35	0.60
41:DG:47:LYS:O	41:DG:48:GLU:O	2.19	0.60
47:DQ:127:ILE:HD12	47:DQ:127:ILE:N	2.16	0.60
56:BZ:134:PRO:HG3	56:BZ:161:VAL:HG21	1.83	0.60
52:BV:24:LYS:HA	52:BV:94:LEU:HG	1.82	0.60
9:AI:126:SER:O	9:AI:127:LYS:HB3	2.01	0.60
28:B2:32:LEU:C	28:B2:32:LEU:HD12	2.21	0.60
54:BX:39:ILE:HD12	54:BX:40:LYS:N	2.15	0.60
27:B1:15:ALA:O	27:B1:46:LEU:HD23	2.01	0.60
28:D2:26:ARG:O	28:D2:29:LYS:HB2	2.01	0.60
1:CA:1385:G:O2'	1:CA:1386:G:H5'	2.00	0.60
3:CC:182:ILE:HG23	3:CC:203:PHE:CA	2.32	0.60
1:CA:1203:C:H2'	1:CA:1204:A:C8	2.36	0.60
35:BA:2491:U:H4'	35:BA:2570:G:OP1	1.99	0.60
27:D1:89:GLU:CD	27:D1:89:GLU:H	2.03	0.60
27:D1:88:LYS:HA	27:D1:91:LYS:HB2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BP:50:ARG:CZ	46:BP:51:PHE:CZ	2.85	0.60
3:AC:182:ILE:HG12	3:AC:203:PHE:HA	1.83	0.60
3:AC:11:ARG:HG2	3:AC:11:ARG:HH11	1.65	0.60
55:DY:2:ARG:C	55:DY:4:LYS:H	2.04	0.60
7:AG:103:TRP:O	7:AG:107:ALA:N	2.17	0.60
35:DA:513:A:H1'	51:DU:11:ARG:NH1	2.16	0.60
25:CY:132:ILE:O	25:CY:136:ALA:N	2.32	0.60
25:CY:64:ARG:HA	25:CY:103:ILE:HD11	1.83	0.60
1:CA:1323:G:H4'	1:CA:1363:C:C2	2.36	0.60
1:CA:1218:C:H2'	1:CA:1219:U:C6	2.36	0.60
7:CG:103:TRP:O	7:CG:107:ALA:N	2.17	0.60
12:AL:26:ALA:O	12:AL:27:LEU:HB2	2.01	0.60
33:B7:5:TRP:CZ3	35:BA:464:U:H4'	2.36	0.60
43:BI:94:ALA:C	43:BI:96:ASP:H	2.03	0.60
43:BI:99:GLU:O	43:BI:103:ARG:HB2	2.01	0.60
35:DA:1246:A:OP2	46:DP:16:ARG:NH2	2.34	0.60
1:AA:640:A:H4'	8:AH:116:LYS:NZ	2.16	0.60
12:AL:55:VAL:HG12	12:AL:56:ALA:N	2.12	0.60
29:B3:6:VAL:HB	29:B3:54:VAL:HG11	1.83	0.60
38:DD:48:ARG:NH1	38:DD:48:ARG:HG3	2.16	0.60
31:D5:16:ARG:CG	31:D5:16:ARG:HH11	2.14	0.60
1:AA:383:A:H8	1:AA:383:A:O5'	1.84	0.60
38:DD:142:VAL:HG23	38:DD:193:VAL:N	2.15	0.60
31:B5:13:LYS:O	31:B5:16:ARG:HB3	2.01	0.60
40:DF:177:ALA:HB1	40:DF:178:PRO:CD	2.31	0.60
29:D3:56:VAL:O	29:D3:57:GLU:HB2	2.01	0.60
27:D1:19:GLN:CD	27:D1:44:PRO:HG3	2.20	0.60
26:B0:26:TYR:CE2	35:BA:857:C:H1'	2.36	0.60
9:AI:79:LEU:O	9:AI:79:LEU:HD13	2.01	0.60
41:DG:2:PRO:O	41:DG:3:LEU:HB2	2.01	0.60
36:BB:65:C:C2'	36:BB:66:A:H5'	2.30	0.60
1:CA:1241:G:H2'	1:CA:1242:C:C5	2.36	0.60
35:BA:1031:G:N2	35:BA:1124:C:H1'	2.15	0.60
35:DA:979:G:H3'	35:DA:980:A:C5'	2.31	0.60
43:DI:31:LEU:HB3	43:DI:32:PRO:HD3	1.83	0.60
23:CW:41:C:O2'	23:CW:42:C:H5'	2.01	0.60
4:AD:50:ARG:HD2	4:AD:51:PRO:O	2.01	0.60
1:CA:110:C:H2'	1:CA:111:G:O4'	2.00	0.60
6:CF:28:ARG:HG3	6:CF:28:ARG:HH11	1.65	0.60
1:AA:519:C:H2'	1:AA:520:A:C8	2.37	0.60
1:AA:547:A:H4'	1:AA:548:G:O5'	1.99	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:114:TYR:CE1	10:CJ:59:SER:HA	2.35	0.60
38:DD:80:ALA:HB3	38:DD:94:LEU:HD13	1.83	0.60
41:DG:103:LEU:HB3	41:DG:107:LEU:HD12	1.82	0.60
41:DG:125:PHE:HB3	41:DG:128:ARG:O	2.01	0.60
52:BV:19:LYS:HB3	52:BV:96:ILE:O	2.01	0.60
52:BV:64:HIS:CB	52:BV:96:ILE:HA	2.25	0.60
54:BX:70:LEU:HG	54:BX:71:GLY:N	2.15	0.60
27:B1:46:LEU:HD13	27:B1:46:LEU:O	2.00	0.60
27:B1:86:SER:CA	27:B1:89:GLU:CG	2.77	0.60
42:BH:89:ILE:CD1	42:BH:129:THR:HB	2.30	0.60
56:DZ:39:VAL:HG23	56:DZ:40:ASP:N	2.17	0.60
35:DA:528:A:C2	35:DA:2043:C:C5'	2.83	0.60
35:DA:2624:G:O2'	35:DA:2625:G:H5'	2.01	0.60
52:DV:64:HIS:CB	52:DV:96:ILE:HA	2.24	0.60
40:BF:117:ARG:HH21	40:BF:187:VAL:HA	1.65	0.60
39:BE:142:GLY:C	39:BE:143:ASN:ND2	2.54	0.60
47:BQ:76:LYS:H	47:BQ:88:GLY:HA2	1.65	0.60
35:DA:2708:G:H2'	35:DA:2709:G:H8	1.65	0.60
35:BA:2714:G:O2'	35:BA:2715:C:H5'	2.01	0.60
2:CB:185:ILE:HG22	2:CB:199:TYR:CD1	2.36	0.60
1:CA:1363(A):A:H4'	1:CA:1364:U:C5'	2.26	0.60
55:DY:37:VAL:HG22	55:DY:67:LEU:O	2.00	0.60
6:AF:87:ARG:HH11	6:AF:87:ARG:HG3	1.65	0.60
25:CY:7:TYR:CZ	25:CY:160:GLU:HG2	2.36	0.60
1:CA:262:A:H2'	1:CA:263:A:C8	2.36	0.60
25:AY:65:THR:HG22	25:AY:66:LEU:N	2.16	0.60
25:AY:150:SER:C	25:AY:152:ASP:N	2.54	0.60
35:DA:2248:C:C2'	35:DA:2249:U:H5'	2.31	0.60
2:CB:102:LEU:HD12	2:CB:102:LEU:H	1.65	0.60
35:DA:260:G:H1'	35:DA:621:A:H1'	1.83	0.60
1:CA:1106:G:H2'	1:CA:1107:C:H6	1.65	0.60
5:AE:11:ILE:HD12	5:AE:31:LEU:HD22	1.82	0.60
54:BX:64:LYS:CG	54:BX:65:ARG:N	2.64	0.60
5:AE:150:ARG:CB	5:AE:150:ARG:HH11	2.14	0.60
1:CA:449:C:H2'	1:CA:450:G:O4'	2.01	0.60
1:CA:710:G:H5''	6:CF:54:LYS:HE3	1.81	0.60
41:BG:53:LEU:N	41:BG:53:LEU:HD22	2.14	0.60
35:BA:708:C:N4	35:BA:723:G:H1	1.95	0.60
47:DQ:82:ARG:HG2	47:DQ:82:ARG:NH1	2.16	0.60
1:AA:1056:U:H5'	3:AC:163:ALA:CB	2.31	0.60
42:BH:158:HIS:NE2	42:BH:170:ARG:HA	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:186:C:H4'	20:CT:82:SER:HB3	1.82	0.60
1:AA:1277:C:C2'	1:AA:1278:U:H5'	2.31	0.60
38:DD:32:SER:OG	38:DD:33:LEU:N	2.34	0.60
53:BW:5:ALA:HB3	53:BW:105:VAL:H	1.66	0.60
1:CA:628:G:O2'	1:CA:629:G:H5'	2.01	0.60
1:CA:473:G:H5''	16:CP:81:ARG:HE	1.66	0.60
44:DN:73:THR:O	44:DN:75:TYR:N	2.30	0.60
1:AA:304:U:H2'	1:AA:305:G:C8	2.36	0.60
1:CA:831:U:H2'	1:CA:832:C:C6	2.36	0.60
35:DA:271(E):U:H2'	35:DA:271(F):C:C6	2.36	0.60
1:CA:291:C:O2'	1:CA:292:G:H5'	2.02	0.60
1:AA:1267:C:O2	1:AA:1267:C:H2'	2.01	0.60
3:CC:206:GLU:O	3:CC:208:ILE:N	2.34	0.60
1:CA:414:A:H2'	1:CA:415:A:O4'	2.02	0.60
55:DY:47:LYS:HG3	55:DY:60:PHE:CZ	2.36	0.60
38:BD:35:LYS:NZ	38:BD:104:TYR:HB2	2.16	0.60
38:BD:242:ARG:HG3	38:BD:242:ARG:NH1	2.14	0.60
36:DB:42:C:H4'	41:DG:67:LYS:HB3	1.84	0.60
45:BO:46:ALA:N	45:BO:54:GLU:HG2	2.17	0.60
36:BB:75:G:N2	56:BZ:87:ASP:OD2	2.35	0.60
56:BZ:120:ILE:HB	56:BZ:171:ILE:C	2.21	0.60
27:B1:48:LYS:CG	27:B1:49:VAL:H	2.08	0.60
27:B1:68:PRO:CG	27:B1:69:LYS:H	2.07	0.60
27:B1:68:PRO:O	27:B1:71:TYR:N	2.35	0.60
2:AB:75:LYS:CA	2:AB:78:GLN:HE21	2.02	0.60
55:DY:75:ILE:HD11	55:DY:78:ALA:O	2.01	0.60
28:D2:23:LYS:CA	54:DX:5:TYR:CE1	2.85	0.60
54:DX:29:TRP:CZ3	54:DX:76:ARG:HG2	2.34	0.60
54:DX:8:ILE:N	54:DX:8:ILE:HD12	2.15	0.60
4:CD:62:GLN:HB3	4:CD:66:ARG:NH2	2.16	0.60
40:BF:29:ASN:HB3	40:BF:112:MET:HE3	1.83	0.60
35:BA:250:G:H2'	35:BA:251:A:C8	2.36	0.60
35:DA:2821:A:H3'	35:DA:2821:A:OP2	2.01	0.60
48:DR:52:ILE:O	48:DR:55:ALA:N	2.35	0.60
3:AC:141:VAL:HG12	3:AC:141:VAL:O	2.01	0.60
1:AA:1437:C:N4	1:AA:1464:G:H1	1.97	0.60
35:BA:2708:G:H2'	35:BA:2709:G:H8	1.66	0.60
48:BR:9:LYS:HZ1	48:BR:42:LYS:HB3	1.65	0.60
19:AS:16:LEU:H	19:AS:16:LEU:CD1	2.14	0.60
1:AA:501:C:H2'	1:AA:502:G:H8	1.66	0.60
25:AY:30:THR:HG21	25:AY:179:LYS:HD2	1.81	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BU:33:ARG:HA	51:BU:36:ARG:HB2	1.82	0.60
11:CK:43:SER:CA	11:CK:47:VAL:HG21	2.31	0.60
35:BA:1424:G:H2'	35:BA:1425:G:O4'	2.01	0.60
35:DA:2744:G:N7	35:DA:2755:C:O2	2.35	0.60
55:BY:28:LYS:CE	55:BY:30:VAL:HA	2.31	0.60
2:CB:102:LEU:O	2:CB:105:PHE:HB2	2.01	0.60
1:AA:693:G:H2'	1:AA:694:A:C8	2.36	0.60
52:DV:79:VAL:HG12	52:DV:80:GLN:N	2.16	0.60
31:D5:40:LYS:HE2	31:D5:46:CYS:CB	2.30	0.60
5:AE:147:ASP:HA	5:AE:150:ARG:NH1	2.11	0.60
9:CI:71:SER:HA	9:CI:74:ILE:HD12	1.82	0.60
54:DX:64:LYS:CG	54:DX:65:ARG:N	2.64	0.60
35:DA:778:G:H5''	38:DD:48:ARG:HD2	1.83	0.60
8:CH:82:HIS:CD2	8:CH:138:TRP:NE1	2.68	0.60
8:AH:88:LYS:HB3	8:AH:89:PRO:HD2	1.83	0.60
35:DA:2208:A:H1'	35:DA:2219:G:C2	2.36	0.60
32:D6:13:CYS:HA	32:D6:50:ARG:O	2.01	0.60
1:AA:831:U:H2'	1:AA:832:C:C6	2.36	0.60
35:BA:736:C:H2'	35:BA:737:C:H6	1.67	0.60
35:BA:347:A:H2'	35:BA:348:G:C8	2.36	0.60
1:CA:597:G:C2'	1:CA:598:U:H5'	2.30	0.60
52:BV:1:MET:HE1	52:BV:46:VAL:HG23	1.83	0.60
1:CA:1030(D):A:H2'	1:CA:1031:G:H5'	1.84	0.60
17:AQ:76:LEU:HD12	17:AQ:77:VAL:H	1.66	0.60
1:CA:1035:A:H2'	1:CA:1036:G:H8	1.66	0.60
35:BA:2264:C:H2'	35:BA:2265:U:C6	2.36	0.60
50:BT:58:ASN:N	50:BT:58:ASN:HD22	1.98	0.60
50:DT:118:ARG:O	50:DT:121:ILE:HG22	2.00	0.60
44:BN:73:THR:O	44:BN:75:TYR:N	2.28	0.60
1:CA:1442(A):G:H22	50:DT:119:LYS:HB2	1.65	0.60
38:BD:211:ARG:HH11	38:BD:211:ARG:CG	2.13	0.60
38:BD:57:GLY:HA2	38:BD:214:TRP:O	2.01	0.60
38:BD:227:ASN:HB3	38:BD:228:PRO:HD2	1.82	0.60
41:DG:82:LEU:HB3	41:DG:87:PRO:HG3	1.83	0.60
50:BT:28:VAL:CG2	50:BT:47:GLY:H	2.07	0.60
42:DH:146:ALA:O	42:DH:147:ASN:C	2.38	0.60
2:AB:12:GLU:OE2	2:AB:214:ILE:HD11	2.00	0.60
2:AB:213:LEU:C	2:AB:213:LEU:HD23	2.22	0.60
56:DZ:8:TYR:HA	56:DZ:62:PRO:HG2	1.83	0.60
3:AC:124:ILE:HG13	3:AC:130:VAL:HG22	1.83	0.60
4:CD:79:PHE:HA	4:CD:93:PHE:CD2	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:257:A:H2'	35:BA:258:G:O4'	2.00	0.60
35:BA:565:C:O3'	52:BV:81:TYR:HE1	1.84	0.60
46:BP:39:LYS:C	46:BP:41:ARG:H	2.04	0.60
55:BY:81:LYS:HG2	55:BY:97:ARG:H	1.66	0.60
46:DP:7:ARG:HB3	46:DP:8:PRO:CD	2.30	0.60
1:AA:501:C:O2'	1:AA:502:G:H5'	2.02	0.60
4:AD:56:VAL:O	4:AD:58:LEU:N	2.34	0.60
4:AD:59:ARG:NH1	4:AD:59:ARG:HA	2.16	0.60
50:DT:11:GLU:CD	50:DT:11:GLU:N	2.39	0.60
12:AL:22:SER:C	12:AL:24:VAL:H	2.04	0.60
43:BI:94:ALA:HA	43:BI:97:ILE:CG1	2.31	0.60
11:AK:44:SER:O	11:AK:47:VAL:HB	2.01	0.60
35:DA:618:C:H2'	35:DA:619:G:O4'	2.01	0.60
8:AH:122:ARG:HA	8:AH:125:ARG:CB	2.31	0.60
8:AH:26:VAL:HG22	8:AH:32:LYS:HZ2	1.65	0.60
9:AI:118:LYS:HB3	9:AI:118:LYS:NZ	2.15	0.60
15:CO:11:VAL:HG21	15:CO:34:LEU:HD23	1.82	0.60
1:AA:445:G:H2'	1:AA:446:G:H8	1.66	0.60
50:BT:14:TYR:CD1	50:BT:14:TYR:N	2.68	0.60
35:BA:2175:C:H2'	35:BA:2176:A:C5'	2.29	0.60
39:BE:104:VAL:O	39:BE:167:VAL:HG12	2.01	0.60
23:CW:59:A:C2	23:CW:61:U:H2'	2.37	0.60
32:B6:13:CYS:HA	32:B6:50:ARG:O	2.01	0.60
1:AA:390:C:O3'	16:AP:28:ARG:NH2	2.34	0.60
1:CA:460:G:O6	1:CA:470:C:H5''	2.02	0.60
35:DA:347:A:H2'	35:DA:348:G:C8	2.36	0.60
35:DA:853:G:H2'	35:DA:854:G:C8	2.36	0.60
17:CQ:95:TYR:C	17:CQ:97:SER:H	2.03	0.60
35:BA:1448:G:H2'	35:BA:1449:A:C8	2.37	0.60
27:D1:16:ASN:ND2	27:D1:16:ASN:O	2.34	0.60
1:AA:627:G:H2'	1:AA:628:G:C8	2.35	0.60
36:DB:15:A:H3'	36:DB:16:G:H5'	1.83	0.60
47:DQ:61:GLY:H	56:DZ:177:PRO:HB2	1.66	0.60
35:BA:1127:A:C2'	35:BA:1128:A:H5''	2.32	0.60
38:BD:204:ILE:O	38:BD:204:ILE:HG13	2.00	0.60
10:CJ:49:VAL:HG13	14:CN:41:ARG:HB2	1.82	0.60
38:BD:222:ARG:O	38:BD:224:ALA:N	2.35	0.60
16:AP:20:VAL:HG23	16:AP:34:GLU:O	2.01	0.60
56:BZ:41:LEU:O	56:BZ:44:PHE:HB3	2.01	0.60
35:BA:2632:A:O2'	39:BE:61:ARG:NH2	2.35	0.60
42:DH:144:VAL:HG12	42:DH:148:ILE:HD11	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:393:C:H2'	35:BA:394:A:H8	1.66	0.60
42:BH:89:ILE:CD1	42:BH:89:ILE:N	2.64	0.60
44:DN:42:TRP:CE2	44:DN:44:PRO:HD3	2.36	0.60
35:DA:998:C:P	51:DU:93:LYS:HE2	2.41	0.60
49:BS:28:VAL:H	49:BS:89:ARG:HB2	1.66	0.60
4:CD:106:TYR:CE1	4:CD:113:SER:HA	2.37	0.60
4:CD:176:LEU:HG	4:CD:177:ASP:N	2.16	0.60
47:BQ:127:ILE:HD12	47:BQ:127:ILE:N	2.15	0.60
27:B1:40:ARG:HD2	35:BA:2081:C:H4'	1.84	0.60
35:BA:869:G:H2'	35:BA:870:A:H8	1.66	0.60
48:BR:12:ARG:HG3	48:BR:12:ARG:HH11	1.66	0.60
49:DS:85:VAL:CG2	49:DS:106:ARG:HB2	2.31	0.60
25:CY:30:THR:C	25:CY:32:ARG:H	2.04	0.60
42:DH:67:LEU:HG	42:DH:71:LEU:CD2	2.30	0.60
12:AL:36:VAL:O	12:AL:58:VAL:HG13	2.02	0.60
2:CB:107:THR:HG23	2:CB:110:GLN:OE1	2.02	0.60
9:CI:10:ARG:NH2	9:CI:107:ARG:HD3	2.16	0.60
1:CA:1343:G:H1'	9:CI:121:ARG:HH12	1.66	0.60
8:AH:26:VAL:O	8:AH:59:LEU:N	2.34	0.60
10:AJ:40:LEU:HD12	10:AJ:41:PRO:O	2.01	0.60
2:AB:169:LYS:HD3	2:AB:169:LYS:O	2.01	0.60
1:AA:625:G:C4	1:AA:626:U:C5	2.90	0.60
9:CI:26:VAL:HG22	9:CI:61:ALA:HB3	1.84	0.60
35:DA:64:A:H2'	35:DA:65:C:C6	2.36	0.60
35:DA:542:C:H2'	35:DA:543:C:OP1	2.02	0.60
15:CO:8:LYS:O	15:CO:12:ILE:HG13	2.01	0.60
1:AA:834:C:H2'	1:AA:835:U:H6	1.66	0.60
35:DA:1688:U:H5'	35:DA:1689:A:OP1	2.02	0.60
1:CA:460:G:H21	1:CA:472:A:H62	1.49	0.60
35:BA:2626:C:H2'	35:BA:2627:G:H8	1.65	0.60
35:BA:1847:A:H2'	35:BA:1847:A:N3	2.16	0.60
5:CE:78:HIS:HB2	5:CE:79:GLU:OE1	2.01	0.60
35:DA:1811:G:O2'	35:DA:1812:A:H5'	2.02	0.60
1:CA:148:G:H1	1:CA:174:C:H42	1.49	0.60
2:AB:31:TYR:HD2	2:AB:31:TYR:N	2.00	0.60
56:BZ:105:VAL:N	56:BZ:141:VAL:HG11	2.17	0.60
35:DA:1192:G:C2'	35:DA:1193:G:H5'	2.32	0.60
35:BA:632:A:H2'	35:BA:633:A:C8	2.37	0.60
35:DA:2555:U:H2'	35:DA:2556:C:H5'	1.82	0.60
35:DA:271(J):C:H2'	35:DA:271(K):U:H5''	1.83	0.60
37:DC:82:LYS:HB3	37:DC:86:ALA:HB2	1.83	0.60

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DZ:118:GLN:NE2	56:DZ:118:GLN:HA	2.17	0.60
51:DU:52:ARG:O	51:DU:54:LYS:N	2.35	0.60
52:DV:96:ILE:CG2	52:DV:97:LYS:N	2.64	0.60
49:BS:104:GLY:O	49:BS:106:ARG:N	2.28	0.60
4:CD:18:LYS:NZ	4:CD:31:CYS:HB3	2.16	0.60
34:B8:49:VAL:HB	34:B8:53:PRO:HD3	1.82	0.60
35:BA:673:C:H5'	40:BF:54:ARG:NH1	2.17	0.60
1:AA:1422:G:H4'	45:BO:49:ARG:NH1	2.17	0.60
2:AB:200:ILE:O	2:AB:201:ILE:HD13	2.02	0.60
44:BN:34:LEU:HD23	44:BN:120:LEU:HD23	1.84	0.60
1:AA:1313:U:P	19:AS:6:LYS:HG3	2.42	0.60
6:AF:26:ILE:O	6:AF:30:LEU:HG	2.01	0.60
1:CA:1513:A:C6	1:CA:1514:C:N4	2.69	0.60
25:CY:128:ALA:O	25:CY:132:ILE:HG13	2.01	0.60
1:CA:1227:A:OP2	13:CM:111:LYS:HE3	2.00	0.60
1:AA:1323:G:H4'	1:AA:1363:C:C2	2.36	0.60
37:BC:45:ALA:H	37:BC:174:PRO:CB	2.14	0.60
51:BU:18:LEU:CD2	51:BU:22:LYS:HE2	2.31	0.60
43:BI:133:HIS:CB	43:BI:134:PRO:CD	2.78	0.60
42:DH:68:THR:HA	42:DH:71:LEU:HD22	1.83	0.60
35:DA:622:G:O2'	35:DA:623:G:H5'	2.02	0.60
31:B5:52:TYR:HA	31:B5:56:LYS:HZ2	1.67	0.60
31:B5:32:PRO:O	31:B5:33:CYS:HB2	2.00	0.60
10:CJ:40:LEU:HD12	10:CJ:41:PRO:O	2.01	0.60
46:DP:112:LEU:C	46:DP:112:LEU:HD13	2.21	0.60
38:DD:130:ALA:HB2	38:DD:192:THR:CB	2.32	0.60
40:BF:158:THR:HG21	40:BF:163:VAL:CB	2.26	0.60
35:BA:1615:C:H5	35:BA:1617:C:C4	2.19	0.60
50:DT:14:TYR:HD1	50:DT:14:TYR:N	1.99	0.60
40:BF:177:ALA:HB1	40:BF:178:PRO:CD	2.30	0.60
29:D3:56:VAL:O	29:D3:57:GLU:CB	2.50	0.60
1:CA:490:G:H2'	1:CA:491:G:C8	2.36	0.60
5:AE:91:LEU:HG	5:AE:120:THR:HG22	1.83	0.60
35:BA:1232:G:H2'	35:BA:1233:C:C6	2.36	0.60
1:AA:1281:U:H4'	1:AA:1282:C:OP2	2.01	0.60
35:DA:291:C:H2'	35:DA:292:C:H6	1.64	0.60
15:AO:23:GLY:O	15:AO:24:SER:HB3	2.01	0.60
1:AA:688:G:H5'	11:AK:46:GLY:O	2.02	0.60
45:DO:3:GLN:HB2	45:DO:4:PRO:HD2	1.84	0.60
35:DA:2875:C:H4'	50:DT:5:ALA:HB2	1.82	0.60
1:CA:884:U:H4'	1:CA:885:G:C5'	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BX:88:LYS:HD2	54:BX:88:LYS:N	2.17	0.60
35:BA:271(E):U:H2'	35:BA:271(F):C:C6	2.37	0.60
35:DA:151:C:H42	35:DA:175:G:H1	1.50	0.60
49:BS:41:ASP:O	49:BS:45:GLY:HA2	2.00	0.60
1:CA:119:A:O2'	1:CA:120:A:OP2	2.19	0.60
35:BA:838:C:H42	35:BA:940:G:H1	1.49	0.60
1:CA:775:G:O2'	1:CA:776:G:H5'	2.02	0.60
40:DF:141:ALA:O	40:DF:144:LYS:HB3	2.01	0.60
10:CJ:29:ARG:HH11	10:CJ:29:ARG:HG2	1.66	0.60
35:DA:1765:C:H2'	35:DA:1766:U:C6	2.36	0.60
53:BW:9:TYR:HD2	53:BW:102:HIS:HE2	1.49	0.60
35:BA:2825:C:H2'	35:BA:2826:A:O4'	2.02	0.60
35:DA:2864:G:O2'	35:DA:2865:U:H5'	2.02	0.60
1:CA:974:A:C1'	14:CN:31:ARG:HH21	2.15	0.60
14:CN:40:CYS:SG	14:CN:41:ARG:N	2.74	0.60
1:CA:923:A:H2'	1:CA:924:C:C6	2.36	0.60
38:DD:222:ARG:O	38:DD:223:GLY:C	2.40	0.60
16:CP:21:VAL:O	16:CP:33:ILE:HB	2.02	0.60
35:DA:2314:C:H2'	35:DA:2315:G:H8	1.67	0.60
41:DG:96:ARG:O	41:DG:99:MET:HB3	2.01	0.60
42:DH:89:ILE:HD13	42:DH:90:LYS:H	1.66	0.60
10:AJ:50:ILE:HA	10:AJ:60:ARG:HG2	1.82	0.60
35:BA:2223:G:H2'	35:BA:2224:G:H5'	1.84	0.60
54:DX:35:THR:HB	54:DX:75:ASP:OD2	2.02	0.60
47:BQ:68:ILE:N	47:BQ:68:ILE:HD13	2.14	0.60
40:BF:3:GLU:CB	40:BF:24:LEU:HG	2.31	0.60
25:AY:68:VAL:O	25:AY:70:SER:N	2.33	0.60
35:BA:244:A:H2'	35:BA:245:G:O4'	2.02	0.60
35:BA:2820:A:O3'	48:BR:2:ARG:NH2	2.34	0.60
35:BA:1280:G:C3'	35:BA:1281:G:H5''	2.32	0.60
2:AB:168:THR:HG23	2:AB:192:SER:OG	2.01	0.60
2:AB:185:ILE:HG22	2:AB:199:TYR:HD1	1.67	0.60
18:CR:36:ASN:HD22	18:CR:39:VAL:CB	2.14	0.60
4:AD:108:LEU:CB	4:AD:110:PHE:CE1	2.84	0.60
4:AD:9:CYS:SG	4:AD:31:CYS:O	2.59	0.60
1:CA:818:G:C3'	1:CA:819:A:H5''	2.31	0.60
35:DA:2766:G:N3	35:DA:2766:G:H2'	2.16	0.60
1:AA:1104:G:OP1	2:AB:111:ARG:HD2	2.01	0.60
25:CY:18:LEU:O	25:CY:20:VAL:N	2.34	0.60
35:DA:2282:G:H1	35:DA:2427:C:N4	1.94	0.60
7:AG:86:GLN:HG2	23:AW:33:C:C5'	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:AV:30:A:H2'	22:AV:31:U:C5	2.37	0.60
5:AE:69:VAL:O	5:AE:71:LEU:N	2.35	0.60
12:AL:115:LYS:O	12:AL:117:ARG:HG3	2.01	0.60
31:D5:40:LYS:HZ2	31:D5:45:VAL:HA	1.67	0.60
31:B5:52:TYR:HA	31:B5:56:LYS:NZ	2.17	0.60
9:AI:113:LYS:N	9:AI:113:LYS:HD2	2.16	0.60
12:CL:46:LYS:CG	12:CL:47:LYS:H	2.09	0.60
35:DA:1177:A:H5''	35:DA:1178:C:O5'	2.01	0.60
33:D7:5:TRP:CZ3	35:DA:464:U:H4'	2.37	0.60
38:BD:97:TYR:HB2	38:BD:101:GLU:O	2.01	0.60
35:BA:2121:G:H1	35:BA:2177:C:H42	1.49	0.60
11:CK:99:GLN:C	11:CK:101:SER:H	2.05	0.60
40:BF:178:PRO:CG	40:BF:179:GLU:H	2.12	0.60
1:CA:393:A:OP2	16:CP:12:LYS:HD3	2.01	0.60
35:DA:122:G:H1	35:DA:129:C:H42	1.50	0.60
17:AQ:5:VAL:HA	17:AQ:59:ILE:O	2.02	0.60
35:DA:1689:A:N6	35:DA:1698:A:H2	1.99	0.60
35:DA:1847:A:N3	35:DA:1847:A:H2'	2.16	0.60
1:CA:1277:C:C2'	1:CA:1278:U:H5'	2.32	0.60
35:BA:861:A:H62	35:BA:916:G:H21	1.48	0.60
38:BD:231:HIS:ND1	38:BD:232:PRO:CD	2.64	0.60
15:AO:33:THR:OG1	15:AO:63:ARG:HD2	2.02	0.60
15:AO:82:ILE:HD11	15:AO:87:ILE:O	2.02	0.60
54:DX:89:ILE:HD12	54:DX:89:ILE:N	2.16	0.60
2:CB:28:PHE:CE1	2:CB:31:TYR:HB2	2.36	0.60
35:DA:1467:C:OP2	35:DA:1547:C:H5	1.85	0.60
38:DD:10:THR:O	38:DD:11:PRO:C	2.35	0.60
10:CJ:32:ALA:HB1	10:CJ:75:ILE:CD1	2.31	0.60
1:AA:1294:G:H2'	1:AA:1295:G:H8	1.67	0.60
8:CH:18:ARG:N	8:CH:78:GLN:HE22	1.99	0.60
35:DA:2179:C:H1'	37:DC:171:ILE:CB	2.32	0.60
2:AB:224:GLN:HG2	2:AB:224:GLN:O	2.02	0.60
1:CA:1251:A:H5''	9:CI:12:GLU:OE1	2.01	0.60
35:BA:1440:G:H2'	35:BA:1441:G:C8	2.36	0.60
45:DO:36:GLY:H	45:DO:62:VAL:HB	1.67	0.60
50:DT:109:GLU:CA	50:DT:112:ARG:HG3	2.31	0.60
50:DT:28:VAL:O	50:DT:88:ILE:HD11	2.00	0.60
38:DD:271:ILE:N	38:DD:271:ILE:HD12	2.17	0.60
42:DH:137:ASP:O	42:DH:138:LYS:HB2	2.02	0.60
28:B2:12:GLU:C	28:B2:14:ARG:HE	2.04	0.60
35:BA:141:A:C8	35:BA:1408:C:O2'	2.54	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BX:36:LYS:C	54:BX:38:GLU:H	2.04	0.60
55:DY:81:LYS:HG2	55:DY:97:ARG:H	1.65	0.60
35:DA:143:G:H2'	35:DA:143(A):C:H6	1.67	0.60
54:DX:61:GLY:H	54:DX:70:LEU:HD21	1.66	0.60
51:DU:66:ASN:OD1	51:DU:76:TYR:N	2.34	0.60
1:AA:532:A:H2	1:AA:1207:G:O4'	1.84	0.60
46:BP:13:ASN:HD22	46:BP:13:ASN:H	1.50	0.60
27:D1:48:LYS:O	27:D1:49:VAL:HG23	2.01	0.60
35:BA:674:G:P	40:BF:54:ARG:HH22	2.25	0.60
47:BQ:69:PHE:CD1	47:BQ:70:PRO:HD2	2.36	0.60
49:DS:28:VAL:H	49:DS:89:ARG:HB2	1.66	0.60
44:BN:55:VAL:HG12	44:BN:126:PRO:HA	1.84	0.60
6:CF:62:TRP:CB	18:CR:35:ARG:HH12	2.15	0.60
2:CB:168:THR:HG21	2:CB:191:ASP:OD1	2.01	0.60
55:DY:28:LYS:CA	55:DY:39:VAL:H	2.15	0.60
55:DY:68:HIS:HB3	55:DY:71:LYS:CE	2.32	0.60
6:AF:69:GLU:HG2	6:AF:70:ASP:H	1.66	0.60
25:CY:169:ILE:O	25:CY:172:ALA:N	2.35	0.60
25:CY:36:ALA:HA	25:CY:39:LEU:CG	2.31	0.60
35:BA:1238:G:H2'	35:BA:1239:G:H8	1.67	0.60
35:DA:2600:A:C2'	35:DA:2601:C:H5'	2.32	0.60
35:BA:692:C:O2'	35:BA:693:C:H5'	2.02	0.60
1:AA:1392:G:N2	1:AA:1502:A:H8	2.00	0.60
1:AA:865:A:H2'	1:AA:866:C:O4'	2.02	0.60
2:AB:172:ILE:HD12	2:AB:172:ILE:N	2.10	0.60
33:D7:16:HIS:CE1	35:DA:465:G:H4'	2.37	0.60
33:D7:30:VAL:HG23	33:D7:31:LEU:N	2.15	0.60
46:DP:99:LEU:O	46:DP:102:ARG:HB3	2.01	0.60
1:AA:711:G:O2'	1:AA:712:A:H5'	2.02	0.60
1:CA:710:G:H5''	6:CF:54:LYS:CE	2.32	0.60
35:DA:1041:C:H5'	35:DA:1042:G:OP1	2.02	0.60
29:D3:6:VAL:HB	29:D3:54:VAL:HG11	1.83	0.60
7:AG:121:ALA:O	7:AG:124:LEU:HB2	2.02	0.60
1:CA:255:G:O3'	17:CQ:17:LYS:HD2	2.02	0.60
5:CE:76:ILE:HG23	5:CE:77:PRO:N	2.17	0.60
35:BA:523:C:O2'	35:BA:524:U:H5'	2.02	0.60
35:BA:2627:G:N3	35:BA:2781:A:H2	1.99	0.60
35:BA:291:C:H2'	35:BA:292:C:H6	1.66	0.60
35:DA:1602:U:H3'	35:DA:1603:A:H5''	1.83	0.60
35:BA:1720:U:C2'	35:BA:1721:G:H5'	2.32	0.60
56:DZ:77:ASP:OD1	56:DZ:79:ARG:HD2	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:21:VAL:HG23	7:AG:22:LEU:H	1.66	0.60
3:AC:138:VAL:CG2	3:AC:151:VAL:HG23	2.32	0.60
35:DA:1909:C:O2	35:DA:1909:C:H2'	2.00	0.60
35:BA:1555:G:H2'	35:BA:1556:C:C6	2.37	0.60
46:DP:108:LYS:C	46:DP:110:TYR:H	2.05	0.60
1:CA:967:C:H2'	1:CA:968:A:N7	2.17	0.60
16:AP:53:VAL:HG23	16:AP:54:GLU:H	1.67	0.60
29:D3:1:MET:SD	29:D3:38:GLU:HG2	2.42	0.60
35:BA:2742:C:O2'	35:BA:2743:C:H5'	2.01	0.60
50:DT:100:TYR:O	50:DT:102:ILE:N	2.35	0.60
14:CN:33:VAL:HA	14:CN:39:LEU:O	2.02	0.60
38:BD:209:ALA:C	38:BD:210:GLY:O	2.37	0.60
1:CA:1391:U:H2'	1:CA:1392:G:H8	1.66	0.60
38:DD:223:GLY:O	38:DD:225:ALA:N	2.29	0.60
34:B8:43:GLN:O	34:B8:44:LYS:HD2	2.01	0.60
45:BO:79:PHE:CE2	45:BO:101:PRO:HB2	2.32	0.60
45:BO:31:LYS:HD2	45:BO:32:TYR:HE1	1.66	0.60
45:BO:77:ILE:HD11	50:BT:72:VAL:CG1	2.32	0.60
39:BE:52:LEU:O	39:BE:74:PRO:HA	2.01	0.60
39:BE:77:ILE:HG21	39:BE:79:ARG:HE	1.66	0.60
39:DE:176:ILE:HG22	39:DE:179:GLU:H	1.65	0.60
28:D2:29:LYS:O	28:D2:33:MET:N	2.31	0.60
35:DA:141:A:C8	35:DA:1408:C:O2'	2.54	0.60
42:BH:122:THR:O	42:BH:133:VAL:HG13	2.00	0.60
19:CS:6:LYS:HD2	19:CS:7:LYS:HD2	1.84	0.60
4:CD:126:ILE:HG22	4:CD:127:THR:H	1.65	0.60
4:CD:79:PHE:O	4:CD:82:ALA:HB3	2.01	0.60
35:BA:580:C:H2'	35:BA:581:C:C6	2.37	0.60
46:BP:33:ARG:O	46:BP:34:GLY:C	2.39	0.60
55:BY:89:PHE:C	55:BY:90:LEU:HD23	2.23	0.60
3:AC:53:ALA:HB2	3:AC:115:LEU:CD2	2.29	0.60
48:BR:84:ALA:HB3	48:BR:85:PRO:HD3	1.84	0.60
2:CB:80:ILE:HG21	2:CB:208:ILE:HG23	1.82	0.60
44:DN:16:ILE:O	44:DN:54:VAL:HA	2.01	0.60
46:DP:46:LYS:HB3	46:DP:52:GLU:HG2	1.83	0.60
35:DA:84:A:N3	35:DA:85:G:H1'	2.16	0.60
47:BQ:52:VAL:CG1	47:BQ:53:ALA:H	2.05	0.60
25:CY:133:ARG:NH1	35:DA:1942:C:O4'	2.34	0.60
44:BN:15:LEU:HD12	44:BN:136:GLU:HB2	1.83	0.60
7:AG:95:ARG:O	7:AG:96:GLN:C	2.40	0.60
7:AG:93:PRO:HA	7:AG:96:GLN:NE2	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:824:C:H4'	8:AH:1:MET:N	2.16	0.60
42:BH:12:PRO:O	42:BH:13:LYS:HB2	2.01	0.60
29:B3:56:VAL:O	29:B3:57:GLU:HB2	2.02	0.60
1:CA:1168:A:H2'	1:CA:1169:A:C8	2.37	0.60
35:BA:540:C:H2'	35:BA:541:C:C5	2.36	0.60
15:CO:18:PHE:CZ	15:CO:21:ASP:HB2	2.37	0.60
46:BP:107:LYS:C	46:BP:109:GLY:H	2.04	0.60
35:DA:2092:U:C5	35:DA:2226:C:OP2	2.53	0.60
1:CA:707:C:H4'	11:CK:20:TYR:HD1	1.66	0.60
53:BW:87:PRO:HA	53:BW:93:ALA:CB	2.32	0.60
1:CA:445:G:H2'	1:CA:446:G:H8	1.67	0.60
23:CW:19:G:H3'	23:CW:20:G:C5'	2.31	0.60
5:AE:122:GLU:O	5:AE:123:LEU:HD23	2.02	0.60
1:CA:321:A:H4'	1:CA:1436:U:O4'	2.02	0.60
42:DH:158:HIS:NE2	42:DH:170:ARG:HA	2.17	0.60
5:CE:6:PHE:HB3	5:CE:35:GLY:O	2.02	0.60
1:CA:731:G:OP1	1:CA:766:A:H1'	2.02	0.60
35:DA:2579:C:O3'	39:DE:131:ALA:HB2	2.02	0.60
8:CH:34:GLU:O	8:CH:38:ILE:HG13	2.02	0.60
1:CA:1281:U:H5'	1:CA:1282:C:H5	1.66	0.60
37:BC:58:VAL:HG21	37:BC:166:ASP:N	2.15	0.60
31:B5:25:LEU:CD1	53:BW:19:LEU:HB3	2.32	0.60
29:B3:52:HIS:CD2	36:BB:83:G:H4'	2.37	0.60
35:BA:2103:C:C2'	35:BA:2104:G:H5''	2.32	0.60
23:AW:50:G:H2'	23:AW:51:U:O4'	2.01	0.60
2:CB:158:LEU:HD12	2:CB:158:LEU:N	2.17	0.60
54:BX:92:LEU:O	54:BX:93:GLU:HB3	2.02	0.60
44:DN:82:LEU:HD12	44:DN:83:LYS:N	2.17	0.60
1:CA:634:C:O2'	1:CA:635:G:H5'	2.02	0.60
40:BF:22:ALA:O	40:BF:26:ALA:HB2	2.01	0.60
41:DG:162:THR:O	41:DG:164:GLU:N	2.35	0.60
35:DA:1327:C:H2'	35:DA:1328:G:O4'	2.02	0.60
56:DZ:11:GLU:OE2	56:DZ:12:GLY:N	2.35	0.60
39:DE:9:VAL:HG22	39:DE:25:VAL:HB	1.84	0.59
35:DA:2586:C:O2'	35:DA:2587:A:H5'	2.02	0.59
41:DG:132:ASN:CB	41:DG:159:VAL:HG22	2.26	0.59
35:BA:1678:G:N2	35:BA:1989:G:H22	1.99	0.59
35:DA:2514:U:H2'	35:DA:2515:C:H6	1.67	0.59
39:BE:29:GLY:HA3	39:BE:180:ASN:ND2	2.16	0.59
52:BV:37:VAL:HG12	52:BV:38:LEU:N	2.16	0.59
28:B2:32:LEU:HG	28:B2:33:MET:N	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BX:36:LYS:HD3	54:BX:38:GLU:HB2	1.83	0.59
35:DA:2810:A:H2'	39:DE:61:ARG:HH21	1.66	0.59
39:DE:52:LEU:O	39:DE:74:PRO:HA	2.02	0.59
27:B1:71:TYR:HA	27:B1:74:VAL:HG23	1.82	0.59
55:DY:89:PHE:C	55:DY:90:LEU:HD23	2.23	0.59
47:DQ:27:VAL:HG23	56:DZ:81:ARG:HH22	1.64	0.59
56:DZ:118:GLN:HA	56:DZ:118:GLN:HE21	1.67	0.59
44:BN:62:VAL:HG22	44:BN:66:LYS:CG	2.31	0.59
46:BP:21:ARG:HH11	46:BP:21:ARG:HG3	1.67	0.59
35:BA:2575:C:H5'	39:BE:144:ARG:HG2	1.84	0.59
40:DF:202:PHE:HD1	40:DF:202:PHE:C	2.05	0.59
1:AA:101:A:H2'	1:AA:102:G:H8	1.67	0.59
2:AB:16:HIS:HA	2:AB:210:SER:HB2	1.84	0.59
46:DP:30:THR:CG2	46:DP:31:ALA:H	2.08	0.59
35:DA:1190:G:O5'	46:DP:35:HIS:HA	2.02	0.59
4:AD:106:TYR:CE1	4:AD:113:SER:HA	2.37	0.59
4:AD:163:GLU:C	4:AD:165:MET:H	2.04	0.59
4:AD:173:TRP:C	4:AD:186:LEU:HD12	2.21	0.59
44:DN:78:TYR:H	44:DN:79:PRO:HD2	1.67	0.59
13:CM:90:LEU:C	13:CM:92:HIS:N	2.50	0.59
1:AA:989:C:N4	1:AA:1216:G:H1	1.99	0.59
7:CG:74:GLU:H	7:CG:91:VAL:HG23	1.66	0.59
55:BY:19:LYS:HD2	55:BY:20:TYR:CE1	2.37	0.59
20:CT:73:HIS:HB3	20:CT:74:LYS:CD	2.28	0.59
1:AA:190:U:H2'	1:AA:191:G:H8	1.66	0.59
24:AX:14:U:H2'	24:AX:15:G:C8	2.37	0.59
5:CE:69:VAL:O	5:CE:71:LEU:N	2.35	0.59
1:CA:1118:C:OP1	9:CI:9:ARG:HD3	2.01	0.59
8:AH:22:GLU:O	8:AH:63:LEU:HD23	2.02	0.59
31:D5:32:PRO:O	31:D5:33:CYS:HB2	2.03	0.59
46:BP:130:PHE:N	46:BP:130:PHE:HD2	1.99	0.59
31:B5:20:ARG:HA	31:B5:23:HIS:HD2	1.67	0.59
40:DF:161:GLU:O	40:DF:164:ARG:HB2	2.02	0.59
35:DA:1486:A:H61	35:DA:1504:C:H42	1.50	0.59
38:BD:231:HIS:CE1	38:BD:232:PRO:HD2	2.36	0.59
38:BD:175:LEU:HD23	38:BD:176:ARG:N	2.16	0.59
35:DA:1385:G:H4'	35:DA:1386:C:OP1	2.01	0.59
40:DF:200:GLU:O	40:DF:204:ASN:HB2	2.02	0.59
1:CA:620:C:H2'	1:CA:621:A:O4'	2.00	0.59
47:BQ:22:LYS:NZ	47:BQ:22:LYS:HA	2.17	0.59
35:DA:116:C:O2'	35:DA:117:G:H5'	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:93:G:O2'	1:CA:96:U:H5'	2.02	0.59
1:CA:1246:C:H2'	1:CA:1247:U:C6	2.36	0.59
10:CJ:50:ILE:N	10:CJ:50:ILE:HD13	2.00	0.59
41:DG:13:GLU:O	41:DG:14:GLU:HB3	2.02	0.59
35:BA:1789:A:OP1	38:BD:222:ARG:HG3	2.02	0.59
1:CA:922:G:H2'	1:CA:923:A:C8	2.36	0.59
41:DG:135:LEU:HD23	41:DG:155:MET:CE	2.31	0.59
39:BE:23:VAL:HA	39:BE:184:VAL:O	2.02	0.59
56:BZ:68:PRO:HG2	56:BZ:91:LEU:O	2.01	0.59
47:BQ:140:ALA:CB	56:BZ:99:TYR:HB2	2.33	0.59
35:BA:1158:C:HO2'	35:BA:1159:U:H6	1.50	0.59
51:BU:58:ARG:HA	51:BU:61:TRP:CE3	2.37	0.59
54:BX:49:VAL:CG1	54:BX:50:LYS:H	2.12	0.59
39:DE:35:GLN:HE22	39:DE:37:ARG:NH2	2.00	0.59
39:DE:3:GLY:O	39:DE:4:ILE:HG22	2.02	0.59
41:BG:173:LEU:N	41:BG:173:LEU:HD22	2.17	0.59
54:DX:72:LYS:CE	54:DX:74:PRO:HB3	2.24	0.59
3:CC:109:PRO:HA	3:CC:115:LEU:HD13	1.83	0.59
1:CA:431:A:H2'	1:CA:432:A:H8	1.67	0.59
35:BA:1190:G:C5'	46:BP:35:HIS:HA	2.33	0.59
52:BV:72:VAL:HG12	52:BV:73:SER:N	2.13	0.59
36:DB:114:C:H4'	49:DS:46:VAL:HG13	1.84	0.59
6:CF:91:VAL:HG11	18:CR:72:ARG:NH1	2.16	0.59
1:AA:503:C:H2'	1:AA:504:C:H6	1.67	0.59
7:AG:100:ALA:C	7:AG:104:LEU:HD23	2.23	0.59
35:BA:1215:G:H2'	35:BA:1216:G:H8	1.67	0.59
25:AY:65:THR:HA	25:AY:103:ILE:HG23	1.84	0.59
25:AY:15:GLN:O	25:AY:18:LEU:HB3	2.02	0.59
25:AY:150:SER:HB2	25:AY:153:GLU:H	1.67	0.59
25:AY:3:LEU:H	25:AY:3:LEU:CD1	2.13	0.59
33:B7:16:HIS:HD1	33:B7:21:ARG:HH22	1.50	0.59
42:DH:70:THR:CG2	42:DH:74:ASN:HD21	2.13	0.59
1:AA:694:A:H5''	11:AK:53:SER:CB	2.32	0.59
1:AA:262:A:H2'	1:AA:263:A:C8	2.38	0.59
8:AH:2:LEU:O	8:AH:3:THR:HG23	2.01	0.59
35:BA:2092:U:C5	35:BA:2226:C:OP2	2.54	0.59
29:B3:56:VAL:O	29:B3:57:GLU:CB	2.50	0.59
35:BA:2752:C:H5'	35:BA:2753:A:OP2	2.02	0.59
46:DP:106:LEU:HD11	46:DP:112:LEU:HB2	1.84	0.59
46:BP:126:VAL:HA	46:BP:145:PRO:CB	2.31	0.59
35:BA:1484:G:H3'	35:BA:1485:G:H5''	1.82	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:111:LEU:CD2	3:CC:146:ALA:HB2	2.32	0.59
53:DW:20:VAL:CG2	53:DW:47:VAL:HG21	2.31	0.59
46:DP:56:SER:O	46:DP:57:THR:HB	2.02	0.59
1:AA:1088:G:H2'	1:AA:1089:G:C8	2.35	0.59
35:DA:214:G:O2'	35:DA:215:G:O4'	2.19	0.59
7:CG:143:ARG:HH11	7:CG:143:ARG:CB	2.15	0.59
1:CA:688:G:O2'	1:CA:689:C:H5'	2.02	0.59
38:BD:68:LYS:HB2	38:BD:70:TRP:CH2	2.37	0.59
35:BA:1438:U:H2'	35:BA:1439:A:H8	1.66	0.59
35:BA:2843:G:H1	35:BA:2874:C:H42	1.50	0.59
56:DZ:114:GLY:O	56:DZ:115:GLY:O	2.21	0.59
47:BQ:22:LYS:HZ3	47:BQ:22:LYS:HA	1.66	0.59
46:DP:92:GLU:HG3	46:DP:93:GLY:H	1.66	0.59
47:DQ:22:LYS:HZ3	47:DQ:22:LYS:HA	1.67	0.59
1:AA:176:C:H2'	1:AA:177:C:H6	1.67	0.59
35:BA:1803:A:H4'	38:BD:259:THR:HG23	1.84	0.59
10:CJ:5:ARG:HG3	10:CJ:73:ASP:OD1	2.01	0.59
39:BE:81:ILE:O	39:BE:81:ILE:HG22	2.02	0.59
44:BN:44:PRO:C	44:BN:46:VAL:H	2.04	0.59
51:BU:45:TYR:O	51:BU:46:ALA:C	2.41	0.59
51:BU:83:LEU:CG	51:BU:88:ILE:HG12	2.32	0.59
52:BV:40:LEU:O	52:BV:41:GLY:C	2.41	0.59
39:DE:55:ASN:HD21	39:DE:75:VAL:HG22	1.66	0.59
55:DY:86:ARG:HG2	55:DY:87:LYS:N	2.18	0.59
35:DA:141:A:H8	35:DA:1408:C:HO2'	1.49	0.59
3:AC:153:VAL:HA	3:AC:197:GLY:O	2.02	0.59
46:BP:16:ARG:NE	46:BP:18:ARG:HB2	2.17	0.59
27:D1:46:LEU:HD22	27:D1:48:LYS:HE2	1.84	0.59
34:D8:30:ARG:HE	46:DP:62:LEU:HB2	1.66	0.59
40:DF:199:TRP:O	40:DF:203:GLN:HG2	2.02	0.59
48:DR:13:HIS:O	48:DR:14:SER:O	2.20	0.59
48:DR:28:LEU:HA	48:DR:34:ILE:CG1	2.32	0.59
20:AT:51:GLU:O	20:AT:55:ILE:HG12	2.01	0.59
48:BR:37:THR:CG2	48:BR:40:LYS:HE2	2.32	0.59
50:BT:100:TYR:O	50:BT:102:ILE:N	2.35	0.59
44:DN:34:LEU:HD23	44:DN:120:LEU:HD23	1.84	0.59
40:DF:88:VAL:CG2	40:DF:89:VAL:N	2.65	0.59
4:AD:118:ARG:O	4:AD:121:VAL:HB	2.02	0.59
35:DA:869:G:H1'	47:DQ:8:LYS:HZ2	1.66	0.59
1:CA:1498:U:H1'	1:CA:1499:A:OP2	2.01	0.59
35:DA:30:G:O2'	35:DA:31:C:H5'	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:85:ILE:HD11	12:CL:98:TYR:HB2	1.83	0.59
1:AA:1014:A:H2'	1:AA:1015:A:C8	2.36	0.59
42:DH:46:GLU:O	42:DH:47:GLU:HB2	2.01	0.59
11:CK:87:THR:HA	11:CK:91:ARG:HG3	1.85	0.59
1:AA:922:G:H2'	1:AA:923:A:C8	2.37	0.59
46:BP:127:ALA:HB3	46:BP:130:PHE:HE2	1.61	0.59
1:CA:375:U:H4'	16:CP:17:TYR:CE2	2.37	0.59
35:DA:1232:G:H2'	35:DA:1233:C:C6	2.36	0.59
35:BA:2732:G:H3'	35:BA:2733:A:C5'	2.33	0.59
1:CA:445:G:H2'	1:CA:446:G:C8	2.37	0.59
1:CA:1056:U:H5'	3:CC:163:ALA:HB2	1.84	0.59
5:AE:80:ILE:CG1	5:AE:91:LEU:HB2	2.32	0.59
1:AA:123:C:OP1	1:AA:312:C:H5'	2.02	0.59
35:DA:2590:A:O2'	35:DA:2591:C:H5'	2.02	0.59
35:DA:1366:A:H2'	35:DA:1367:A:C8	2.37	0.59
35:BA:1509(A):A:H2'	35:BA:1509(B):A:C8	2.36	0.59
25:CY:108:GLU:O	25:CY:112:LYS:N	2.28	0.59
1:AA:1281:U:H5'	1:AA:1282:C:H5	1.67	0.59
1:CA:943:U:H2'	1:CA:944:G:C8	2.35	0.59
21:AU:2:GLY:N	21:AU:5:ASP:HB2	2.18	0.59
35:BA:173:G:H2'	35:BA:174:C:C6	2.38	0.59
35:BA:1446:C:N4	35:BA:1465:G:H1	1.98	0.59
35:BA:2103:C:H2'	35:BA:2104:G:H5''	1.83	0.59
44:BN:132:ALA:O	44:BN:133:GLN:CB	2.50	0.59
56:BZ:105:VAL:H	56:BZ:141:VAL:HG11	1.67	0.59
45:DO:13:ASN:HD22	45:DO:97:ARG:CG	2.15	0.59
17:AQ:9:VAL:HG12	17:AQ:10:VAL:N	2.18	0.59
35:DA:796:C:O2'	35:DA:797:C:H5'	2.01	0.59
1:CA:1045:C:H2'	1:CA:1046:A:O4'	2.02	0.59
35:BA:979:G:H3'	35:BA:980:A:C5'	2.31	0.59
1:AA:473:G:H2'	1:AA:474:G:H8	1.67	0.59
54:BX:89:ILE:HD12	54:BX:89:ILE:N	2.17	0.59
35:BA:816:C:H2'	35:BA:817:C:H6	1.65	0.59
35:DA:42:G:H2'	35:DA:43:A:C8	2.36	0.59
43:DI:76:THR:HB	43:DI:139:GLN:O	2.02	0.59
51:DU:30:LYS:HA	51:DU:30:LYS:HE3	1.85	0.59
56:BZ:163:LEU:HD23	56:BZ:163:LEU:N	2.16	0.59
40:BF:50:SER:HB2	40:BF:94:PRO:HD3	1.84	0.59
31:B5:8:LYS:O	31:B5:9:LYS:HD2	2.03	0.59
3:CC:92:ALA:N	3:CC:99:VAL:HG21	2.16	0.59
50:DT:94:ALA:HB1	50:DT:99:LEU:HD23	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1794:U:O4'	35:BA:1900:A:C2	2.56	0.59
35:BA:1792:G:P	38:BD:206:LEU:HB2	2.42	0.59
38:BD:94:LEU:H	38:BD:94:LEU:CD1	2.14	0.59
34:B8:36:LYS:O	34:B8:37:SER:O	2.19	0.59
39:BE:36:ARG:NH2	39:BE:88:GLY:CA	2.66	0.59
54:BX:40:LYS:C	54:BX:42:ALA:H	2.04	0.59
54:BX:39:ILE:O	54:BX:42:ALA:HB3	2.02	0.59
54:BX:81:VAL:HG12	54:BX:82:GLN:O	2.02	0.59
42:BH:87:LEU:C	42:BH:88:LEU:HD22	2.22	0.59
56:DZ:25:PRO:HB2	56:DZ:85:HIS:ND1	2.17	0.59
56:DZ:99:TYR:HE2	56:DZ:125:LEU:HD12	1.67	0.59
51:DU:83:LEU:CG	51:DU:88:ILE:HG12	2.32	0.59
49:BS:84:GLN:HA	49:BS:105:ALA:O	2.02	0.59
49:BS:72:ALA:O	49:BS:76:LYS:HG2	2.01	0.59
47:BQ:121:ALA:O	47:BQ:125:LEU:HD12	2.02	0.59
35:BA:2061:G:H5''	35:BA:2503:A:C2	2.37	0.59
35:DA:1453:U:H5'	48:DR:63:ARG:NE	2.18	0.59
1:AA:1478:C:H2'	1:AA:1479:C:C5	2.37	0.59
1:CA:909:A:C2	1:CA:910:C:H1'	2.38	0.59
35:BA:2468:G:HO2'	35:BA:2476:A:H8	1.51	0.59
56:BZ:148:ASP:O	56:BZ:149:SER:HB3	2.01	0.59
6:CF:21:LEU:HA	6:CF:24:GLU:HG2	1.85	0.59
15:CO:23:GLY:O	15:CO:24:SER:HB3	2.02	0.59
15:CO:24:SER:O	15:CO:28:GLN:HG3	2.02	0.59
4:AD:18:LYS:HE3	4:AD:31:CYS:SG	2.43	0.59
6:AF:30:LEU:HD23	6:AF:75:LEU:HD21	1.84	0.59
1:AA:375:U:H4'	16:AP:17:TYR:CE2	2.38	0.59
16:AP:71:ARG:HA	16:AP:74:LEU:HD12	1.83	0.59
13:AM:82:MET:HB3	13:AM:93:ARG:HH11	1.67	0.59
11:CK:61:ALA:CB	11:CK:90:GLY:HA3	2.31	0.59
20:AT:63:ILE:O	20:AT:65:LYS:N	2.35	0.59
18:CR:56:THR:OG1	18:CR:57:GLY:N	2.35	0.59
35:BA:1177:A:H5''	35:BA:1178:C:O5'	2.03	0.59
1:CA:451:A:H1'	1:CA:452:A:C8	2.37	0.59
39:BE:14:ILE:HB	50:BT:14:TYR:CE2	2.37	0.59
1:CA:59:A:H3'	1:CA:331:G:H22	1.68	0.59
1:AA:943:U:H2'	1:AA:944:G:C8	2.32	0.59
35:DA:2795:G:C2	35:DA:2799:C:H5'	2.37	0.59
35:DA:268:C:H42	35:DA:424:G:H1	1.48	0.59
38:DD:31:LYS:HZ1	38:DD:31:LYS:HA	1.68	0.59
1:AA:280:C:C2	17:AQ:38:ARG:HG3	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BW:20:VAL:CG2	53:BW:47:VAL:HG21	2.31	0.59
54:DX:88:LYS:HD2	54:DX:88:LYS:N	2.16	0.59
27:B1:41:ARG:NH2	35:BA:205:G:H1	2.00	0.59
1:CA:67:C:H2'	1:CA:68:G:H8	1.65	0.59
35:BA:422:A:H2'	35:BA:423:A:C8	2.36	0.59
1:AA:861:G:H2'	1:AA:862:C:H6	1.67	0.59
1:AA:1035:A:H2'	1:AA:1036:G:H8	1.67	0.59
35:BA:2266:A:H4'	35:BA:2267:A:N3	2.17	0.59
37:DC:45:ALA:H	37:DC:174:PRO:CB	2.14	0.59
35:DA:1754:C:OP1	50:DT:96:ARG:NH1	2.34	0.59
35:DA:1992:G:C6	35:DA:1997:G:N1	2.71	0.59
45:DO:77:ILE:HD11	50:DT:72:VAL:CG1	2.33	0.59
1:CA:865:A:H2'	1:CA:866:C:O4'	2.01	0.59
38:DD:206:LEU:HD23	38:DD:211:ARG:HH11	1.68	0.59
38:DD:81:ALA:N	38:DD:94:LEU:HD11	2.16	0.59
36:DB:42:C:O4'	41:DG:69:ALA:HB2	2.03	0.59
41:DG:139:LEU:O	41:DG:144:ILE:HG21	2.03	0.59
41:DG:56:ALA:HB1	41:DG:153:ARG:HD2	1.83	0.59
50:BT:99:LEU:O	50:BT:99:LEU:CD1	2.50	0.59
39:BE:176:ILE:HG22	39:BE:179:GLU:H	1.67	0.59
42:DH:144:VAL:O	42:DH:144:VAL:HG12	2.01	0.59
35:BA:142:A:H5'	35:BA:142(A):C:OP2	2.03	0.59
28:B2:33:MET:HG2	54:BX:10:ALA:CB	2.32	0.59
54:BX:51:VAL:HG13	54:BX:80:ILE:N	2.18	0.59
35:DA:2787:C:C2	39:DE:61:ARG:HD3	2.37	0.59
54:DX:82:GLN:CG	54:DX:83:VAL:N	2.65	0.59
47:DQ:29:PHE:HB2	47:DQ:65:PHE:CE2	2.37	0.59
44:DN:9:VAL:HG12	44:DN:10:GLU:N	2.15	0.59
3:AC:130:VAL:O	3:AC:134:ILE:HG13	2.01	0.59
4:CD:11:LEU:O	4:CD:13:ARG:N	2.36	0.59
35:BA:1198:U:H2'	35:BA:1199:U:C6	2.37	0.59
40:DF:114:VAL:HG11	40:DF:202:PHE:HE2	1.67	0.59
35:DA:1278:A:H5''	48:DR:36:THR:HG22	1.84	0.59
2:AB:163:PHE:HA	2:AB:185:ILE:O	2.02	0.59
44:DN:23:LEU:HB3	44:DN:60:ILE:CG2	2.32	0.59
1:CA:834:C:H2'	1:CA:835:U:H6	1.67	0.59
2:CB:51:LEU:HB3	2:CB:55:PHE:HE2	1.67	0.59
4:AD:180:GLY:C	4:AD:181:MET:HG2	2.22	0.59
1:CA:975:A:H4'	1:CA:976:G:C5'	2.26	0.59
19:AS:10:PHE:HE2	19:AS:70:LYS:HZ1	1.51	0.59
1:CA:190:U:H2'	1:CA:191:G:H8	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:61:PRO:CG	25:AY:67:VAL:HG13	2.31	0.59
7:AG:74:GLU:H	7:AG:91:VAL:HG23	1.67	0.59
1:AA:552:U:O3'	12:AL:87:GLY:HA3	2.03	0.59
35:DA:2744:G:O2'	35:DA:2745:C:H5'	2.03	0.59
35:BA:2279:G:N2	35:BA:2280:G:H1'	2.17	0.59
55:BY:16:ALA:C	55:BY:21:LYS:HD2	2.23	0.59
1:AA:923:A:H2'	1:AA:924:C:C6	2.38	0.59
1:CA:383:A:H8	1:CA:383:A:O5'	1.84	0.59
1:AA:528:C:H2'	1:AA:529:G:H8	1.67	0.59
31:B5:30:LEU:HD11	53:BW:38:TYR:HB2	1.84	0.59
35:BA:2744:G:N7	35:BA:2755:C:O2	2.35	0.59
35:BA:2320:A:H8	35:BA:2321:G:O6	1.86	0.59
46:DP:144:GLU:N	46:DP:145:PRO:HD3	2.17	0.59
5:CE:146:ALA:C	5:CE:148:VAL:H	2.06	0.59
1:AA:445:G:H2'	1:AA:446:G:C8	2.37	0.59
1:AA:447:G:N2	1:AA:488:C:H42	1.99	0.59
56:BZ:19:ARG:HB3	56:BZ:19:ARG:NH1	2.16	0.59
23:AW:60:A:H2'	23:AW:61:U:O4'	2.02	0.59
35:BA:1418:G:N1	35:BA:1579:A:H5'	2.16	0.59
17:CQ:68:ARG:N	17:CQ:70:ARG:HH12	1.99	0.59
32:B6:14:THR:O	32:B6:49:HIS:HA	2.03	0.59
20:CT:14:LYS:HA	20:CT:17:ARG:HH21	1.66	0.59
35:DA:1505:C:H2'	35:DA:1506:C:O4'	2.03	0.59
35:BA:2624:G:O2'	35:BA:2625:G:H5'	2.03	0.59
31:B5:2:ALA:N	35:BA:747:U:N3	2.49	0.59
13:CM:9:ILE:CG2	13:CM:11:ARG:HG3	2.32	0.59
2:AB:24:TRP:CG	2:AB:25:ASN:N	2.69	0.59
53:BW:17:VAL:O	53:BW:19:LEU:N	2.34	0.59
35:BA:1362:C:O2'	35:BA:1363:C:H5'	2.02	0.59
6:CF:82:ARG:HB2	6:CF:85:VAL:CG2	2.32	0.59
35:DA:1844:C:C2'	35:DA:1845:G:H5'	2.31	0.59
46:DP:13:ASN:H	46:DP:13:ASN:HD22	1.51	0.59
35:DA:1330:C:O2'	35:DA:1331:A:H5'	2.03	0.59
1:AA:927:G:OP2	1:AA:1503:A:C4	2.56	0.59
43:BI:31:LEU:HB3	43:BI:32:PRO:HD3	1.83	0.59
35:DA:1344:G:H4'	35:DA:1384:A:C5	2.38	0.59
35:BA:700:G:H2'	35:BA:701:G:H8	1.68	0.59
35:BA:700:G:H2'	35:BA:701:G:C8	2.38	0.59
1:AA:1416:G:H2'	1:AA:1417:G:H8	1.67	0.59
35:BA:1217:C:H2'	35:BA:1218:C:O4'	2.03	0.59
23:AW:68:C:H2'	23:AW:69:C:O4'	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:407:G:H2'	35:DA:408:G:H8	1.67	0.59
28:D2:57:ILE:HG13	28:D2:57:ILE:O	2.02	0.59
50:DT:28:VAL:O	50:DT:28:VAL:HG12	2.03	0.59
50:DT:78:LEU:O	50:DT:79:HIS:ND1	2.36	0.59
1:CA:949:A:H61	1:CA:1232:U:H3	1.51	0.59
35:BA:1778:U:C5	35:BA:1784:A:C4	2.91	0.59
38:BD:215:LEU:O	38:BD:217:ARG:N	2.35	0.59
38:DD:160:GLY:H	38:DD:196:VAL:HB	1.67	0.59
41:DG:83:ARG:O	41:DG:85:GLY:N	2.36	0.59
1:AA:1442(A):G:N2	50:BT:119:LYS:N	2.50	0.59
47:BQ:29:PHE:CD1	47:BQ:29:PHE:N	2.71	0.59
52:BV:2:PHE:CB	52:BV:42:GLY:HA2	2.29	0.59
39:DE:179:GLU:HB3	39:DE:181:LEU:CD2	2.26	0.59
27:B1:73:LEU:CA	27:B1:76:ARG:NH1	2.63	0.59
41:BG:57:ALA:HA	41:BG:60:LEU:HB3	1.84	0.59
54:DX:82:GLN:HG3	54:DX:83:VAL:N	2.17	0.59
51:DU:106:PHE:CA	51:DU:109:LEU:HD12	2.29	0.59
35:BA:2569:G:O2'	35:BA:2570:G:H5'	2.02	0.59
27:D1:76:ARG:CB	27:D1:78:LYS:HZ3	2.15	0.59
27:D1:85:LEU:N	27:D1:85:LEU:HD23	2.17	0.59
44:DN:26:LEU:HG	44:DN:30:ILE:HD11	1.84	0.59
44:BN:56:ASN:HA	44:BN:125:GLY:H	1.68	0.59
35:DA:669:G:H2'	35:DA:669:G:N3	2.17	0.59
1:AA:403:C:O2'	1:AA:404:U:H5'	2.03	0.59
4:AD:127:THR:HG23	4:AD:147:ALA:HB3	1.85	0.59
4:AD:65:ARG:HB2	4:AD:75:PHE:CE2	2.37	0.59
35:BA:2766:G:N3	35:BA:2766:G:H2'	2.15	0.59
51:BU:31:SER:HB3	51:BU:34:LYS:HB2	1.84	0.59
51:BU:33:ARG:O	51:BU:34:LYS:C	2.41	0.59
52:BV:79:VAL:HG12	52:BV:80:GLN:N	2.17	0.59
35:BA:2248:C:C2'	35:BA:2249:U:H5'	2.32	0.59
35:DA:598:G:H5'	46:DP:15:ARG:CD	2.30	0.59
1:AA:192:U:H2'	1:AA:193:C:H6	1.68	0.59
5:AE:131:ILE:HD13	5:AE:131:ILE:N	2.17	0.59
12:AL:90:VAL:HG11	12:AL:93:LEU:HG	1.84	0.59
35:DA:2121:G:H1	35:DA:2177:C:H42	1.49	0.59
29:B3:4:LEU:HD23	29:B3:5:LYS:N	2.17	0.59
42:BH:68:THR:HA	42:BH:71:LEU:HD22	1.84	0.59
38:DD:134:ARG:HB2	38:DD:135:PHE:HD1	1.66	0.59
38:DD:142:VAL:HG22	38:DD:143:HIS:N	2.18	0.59
35:BA:1264:G:H3'	35:BA:1265:A:H5''	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:390:C:H4'	16:CP:28:ARG:HH21	1.68	0.59
47:DQ:83:MET:O	47:DQ:83:MET:CG	2.51	0.59
31:D5:2:ALA:N	35:DA:2014:A:N3	2.50	0.59
35:BA:270:A:O2'	35:BA:271:A:H5'	2.03	0.59
1:CA:1438:G:N2	1:CA:1464:G:H1'	2.18	0.59
1:CA:591:U:H2'	1:CA:592:G:H8	1.65	0.59
53:DW:74:ALA:O	53:DW:75:TYR:HB3	2.03	0.59
4:AD:3:ARG:O	4:AD:5:ILE:N	2.36	0.59
38:BD:176:ARG:HG2	38:BD:176:ARG:HH11	1.66	0.59
23:AW:23:G:C2'	23:AW:24:C:H5''	2.32	0.59
35:DA:1289:C:H2'	35:DA:1290:C:C6	2.37	0.59
35:BA:2762:G:C2'	35:BA:2763:G:H5''	2.32	0.59
38:DD:10:THR:HG23	38:DD:13:ARG:HB3	1.84	0.59
35:BA:481:G:H1'	35:BA:506:G:H21	1.68	0.59
10:AJ:32:ALA:N	10:AJ:78:ASN:ND2	2.51	0.59
53:DW:35:ILE:HG22	53:DW:36:LEU:HD23	1.85	0.59
10:AJ:30:SER:OG	10:AJ:81:THR:HG22	2.03	0.59
35:BA:601:C:O2	35:BA:605:C:H4'	2.01	0.59
1:AA:1030(D):A:H2'	1:AA:1031:G:H5'	1.85	0.59
35:DA:644:A:C2	35:DA:2369:A:H1'	2.38	0.59
46:DP:100:LEU:HD22	46:DP:100:LEU:N	2.17	0.59
1:CA:473:G:OP1	16:CP:81:ARG:HB2	2.02	0.59
37:DC:44:HIS:HA	37:DC:174:PRO:CB	2.32	0.59
39:BE:92:THR:HB	39:BE:94:GLU:OE1	2.03	0.59
35:BA:2669:G:H2'	35:BA:2670:A:H8	1.68	0.59
1:CA:642:A:N3	8:CH:113:SER:OG	2.26	0.59
35:DA:1180:C:H2'	35:DA:1181:C:H5'	1.83	0.59
50:BT:128:GLU:O	50:BT:130:ALA:N	2.35	0.59
35:DA:319:C:O2'	35:DA:320:A:H5'	2.03	0.59
1:AA:370:C:O2'	1:AA:371:G:H5'	2.03	0.59
45:DO:37:ASP:H	45:DO:62:VAL:H	1.50	0.59
45:DO:43:VAL:O	45:DO:45:GLU:N	2.36	0.59
50:DT:92:GLY:C	50:DT:94:ALA:N	2.56	0.59
35:BA:1804:C:O2'	35:BA:1805:U:H5'	2.02	0.59
35:DA:1827:C:O2'	35:DA:1828:G:H5'	2.02	0.59
41:DG:150:ASP:O	41:DG:151:ALA:HB2	2.02	0.59
50:BT:23:ARG:HG2	50:BT:120:ARG:HH12	1.66	0.59
56:BZ:58:VAL:CG2	56:BZ:68:PRO:HA	2.30	0.59
39:BE:36:ARG:HH22	39:BE:88:GLY:H	1.47	0.59
39:BE:52:LEU:CB	39:BE:76:ARG:HB2	2.28	0.59
35:BA:2039:C:H2'	35:BA:2040:C:H6	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BU:59:ARG:O	51:BU:61:TRP:N	2.35	0.59
52:BV:22:VAL:O	52:BV:23:GLU:HB2	2.03	0.59
34:D8:32:LEU:HD11	34:D8:41:ILE:CG2	2.32	0.59
35:BA:2772:C:H2'	35:BA:2773:C:H6	1.67	0.59
44:DN:1:MET:C	44:DN:2:LYS:HD2	2.23	0.59
51:DU:110:VAL:O	51:DU:114:LYS:N	2.32	0.59
52:DV:14:VAL:HG12	52:DV:15:GLU:N	2.18	0.59
1:AA:1205:U:O2'	3:AC:195:VAL:HG23	2.01	0.59
4:CD:62:GLN:HB3	4:CD:66:ARG:NH1	2.18	0.59
48:DR:20:LEU:HD12	48:DR:21:TYR:N	2.17	0.59
39:BE:110:GLY:O	48:BR:2:ARG:CZ	2.50	0.59
2:AB:36:ARG:NH1	2:AB:37:ASN:HB2	2.17	0.59
2:AB:69:LEU:HB2	2:AB:159:PRO:HG2	1.83	0.59
44:DN:99:LEU:O	44:DN:103:VAL:HG23	2.02	0.59
15:CO:82:ILE:HD11	15:CO:87:ILE:O	2.03	0.59
2:CB:69:LEU:HB3	2:CB:162:ILE:HG22	1.83	0.59
27:B1:27:GLU:H	27:B1:34:THR:HB	1.67	0.59
35:DA:27:G:N2	35:DA:512:G:C2'	2.64	0.59
11:AK:109:VAL:HG22	18:AR:86:VAL:HA	1.85	0.59
35:DA:2327:A:H2'	35:DA:2328:A:C8	2.38	0.59
8:CH:127:LEU:HD13	8:CH:127:LEU:O	2.01	0.59
35:BA:2261:C:H1'	35:BA:2388:A:N3	2.17	0.59
55:BY:2:ARG:C	55:BY:4:LYS:H	2.05	0.59
5:AE:37:ARG:O	5:AE:38:GLN:HG2	2.02	0.59
45:BO:122:LEU:N	45:BO:122:LEU:HD12	2.17	0.59
1:CA:1349:A:OP1	9:CI:120:ARG:HB3	2.02	0.59
1:AA:512:U:H2'	1:AA:513:C:C6	2.38	0.59
35:DA:2529:G:OP2	35:DA:2530:A:H5''	2.03	0.59
9:AI:37:PHE:CE1	9:AI:74:ILE:HG12	2.37	0.59
8:CH:27:PRO:HA	8:CH:58:TYR:HA	1.83	0.59
8:CH:45:ILE:HA	8:CH:64:LYS:CB	2.32	0.59
33:D7:7:PRO:CB	35:DA:1309:G:H4'	2.33	0.59
35:DA:1264:G:H3'	35:DA:1265:A:H5''	1.84	0.59
50:BT:14:TYR:N	50:BT:14:TYR:HD1	2.00	0.59
38:DD:186:HIS:CD2	38:DD:188:GLU:H	2.12	0.59
35:BA:1613:G:H2'	35:BA:1617:C:H42	1.66	0.59
35:DA:2704:C:C2'	35:DA:2705:A:H8	2.15	0.59
35:BA:1503:U:H2'	35:BA:1504:C:C5	2.37	0.59
35:BA:686:G:N2	35:BA:788:A:N6	2.49	0.59
54:BX:12:VAL:CG1	54:BX:27:THR:HG23	2.33	0.59
12:CL:115:LYS:O	12:CL:117:ARG:HG3	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B5:29:THR:HG21	35:BA:2814:C:O2'	2.03	0.59
1:AA:1264:C:H2'	1:AA:1265:G:C8	2.37	0.59
6:CF:82:ARG:HB3	6:CF:82:ARG:NH1	2.18	0.59
35:DA:2774:C:H2'	35:DA:2775:A:C8	2.38	0.59
44:DN:132:ALA:O	44:DN:133:GLN:CB	2.51	0.59
10:CJ:79:ARG:HA	10:CJ:82:ILE:HG12	1.84	0.59
1:AA:786:G:H1	1:AA:796:C:H42	1.49	0.59
1:AA:1292:U:O2'	1:AA:1293:G:H5'	2.01	0.59
1:AA:1152:A:H2'	1:AA:1153:C:H6	1.67	0.59
1:AA:764:C:H2'	1:AA:765:G:C8	2.37	0.59
32:D6:42:TRP:HA	32:D6:42:TRP:HE3	1.68	0.59
56:BZ:55:HIS:CE1	56:BZ:133:ILE:HG21	2.38	0.59
41:BG:121:ASN:HB2	41:BG:181:ARG:HH21	1.66	0.59
35:DA:805:G:H22	35:DA:828:U:H5''	1.68	0.59
40:DF:50:SER:HB2	40:DF:94:PRO:HD3	1.84	0.59
31:D5:22:HIS:ND1	31:D5:22:HIS:N	2.51	0.59
35:DA:2525:G:H2'	35:DA:2526:G:H8	1.67	0.59
1:AA:363:A:C2	12:AL:31:PRO:HG2	2.38	0.59
35:BA:1799:G:H4'	35:BA:1800:C:O5'	2.02	0.59
35:BA:1792:G:OP2	38:BD:206:LEU:HD12	2.03	0.59
5:CE:11:ILE:HD12	5:CE:31:LEU:HD22	1.85	0.59
41:DG:76:SER:HB3	41:DG:83:ARG:HA	1.85	0.59
41:DG:40:ASN:HD22	41:DG:91:ARG:CG	2.16	0.59
16:AP:2:VAL:HG23	16:AP:22:THR:O	2.03	0.59
56:BZ:103:ARG:HE	56:BZ:103:ARG:HA	1.67	0.59
35:BA:58:G:H1	35:BA:69:C:H42	1.50	0.59
39:DE:200:GLU:N	39:DE:200:GLU:OE2	2.35	0.59
27:B1:58:ILE:HD11	27:B1:87:PRO:HB3	1.84	0.59
35:BA:2208:A:H1'	35:BA:2219:G:C2	2.38	0.59
41:BG:61:ALA:HA	41:BG:64:THR:HG22	1.85	0.59
56:DZ:148:ASP:O	56:DZ:149:SER:HB3	2.03	0.59
56:DZ:149:SER:HB2	56:DZ:172:ALA:O	2.03	0.59
44:DN:40:PRO:HG3	51:DU:68:ALA:HB2	1.84	0.59
51:DU:91:ASP:O	51:DU:95:LEU:HB2	2.03	0.59
51:DU:98:LEU:O	51:DU:101:ARG:N	2.36	0.59
52:DV:24:LYS:HA	52:DV:94:LEU:HG	1.84	0.59
1:CA:1320:C:H5'	19:CS:70:LYS:HE3	1.84	0.59
49:BS:87:PHE:O	49:BS:88:ASP:HB2	2.03	0.59
35:BA:807:U:H2'	35:BA:808:G:C8	2.37	0.59
48:BR:37:THR:OG1	48:BR:40:LYS:HG3	2.03	0.59
49:DS:65:VAL:O	49:DS:69:VAL:HG12	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:167:PRO:HG2	2:AB:192:SER:OG	2.03	0.59
1:CA:659:U:H2'	1:CA:660:G:H8	1.67	0.59
51:DU:47:TYR:HA	51:DU:50:ARG:NH1	2.17	0.59
4:AD:108:LEU:HD11	4:AD:174:LEU:HD22	1.84	0.59
4:AD:61:LYS:HE3	4:AD:207:TYR:OH	2.02	0.59
43:DI:102:SER:HA	43:DI:107:VAL:O	2.03	0.59
43:DI:68:LEU:CD2	43:DI:136:VAL:HG11	2.32	0.59
6:AF:71:ARG:O	6:AF:73:ASN:N	2.36	0.59
35:DA:565:C:O3'	52:DV:81:TYR:CE1	2.56	0.59
12:CL:22:SER:C	12:CL:24:VAL:H	2.06	0.59
12:AL:32:PHE:HB3	12:AL:84:LEU:HD21	1.84	0.59
25:AY:140:LEU:HD11	25:AY:157:ALA:CB	2.33	0.59
35:DA:257:A:H2'	35:DA:258:G:O4'	2.03	0.59
5:AE:12:LEU:H	5:AE:12:LEU:HD13	1.67	0.59
9:CI:118:LYS:HB3	9:CI:118:LYS:HZ3	1.66	0.59
8:CH:45:ILE:HB	8:CH:62:TYR:O	2.03	0.59
42:DH:13:LYS:O	42:DH:15:VAL:N	2.35	0.59
50:DT:14:TYR:CD1	50:DT:14:TYR:N	2.67	0.59
47:DQ:81:VAL:HG23	47:DQ:82:ARG:HH11	1.67	0.59
17:CQ:44:ALA:HB1	17:CQ:73:VAL:HG22	1.85	0.59
1:AA:967:C:H2'	1:AA:968:A:N7	2.18	0.59
17:AQ:44:ALA:HB1	17:AQ:73:VAL:HG22	1.84	0.59
35:BA:1505:C:H2'	35:BA:1506:C:O4'	2.02	0.59
11:AK:99:GLN:C	11:AK:101:SER:H	2.06	0.59
35:BA:1688:U:H1'	35:BA:1701:A:C6	2.38	0.59
1:AA:1483:A:C2'	1:AA:1484:C:H5'	2.33	0.59
35:DA:1703:G:H2'	35:DA:1704:G:H8	1.67	0.59
35:DA:1812:A:H1'	38:DD:46:GLN:HE22	1.67	0.59
1:AA:555:C:H2'	1:AA:556:C:C6	2.38	0.59
35:BA:1935:G:H1'	35:BA:1964:G:N2	2.17	0.59
50:BT:129:ARG:CZ	50:BT:131:ALA:HB3	2.32	0.59
37:DC:211:SER:HA	37:DC:220:PRO:HA	1.85	0.59
50:DT:128:GLU:O	50:DT:130:ALA:N	2.35	0.59
55:BY:83:THR:HG22	55:BY:84:ARG:N	2.18	0.59
3:AC:60:ALA:HB3	3:AC:63:ASN:HD21	1.67	0.59
35:BA:2525:G:H2'	35:BA:2526:G:H8	1.68	0.59
55:DY:43:ASN:O	55:DY:44:ILE:O	2.21	0.59
45:DO:46:ALA:H	45:DO:54:GLU:HG2	1.66	0.59
50:DT:80:SER:O	50:DT:82:LEU:N	2.36	0.59
50:DT:28:VAL:N	50:DT:88:ILE:HD13	2.17	0.59
1:CA:974:A:OP1	14:CN:31:ARG:HD3	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1824:G:O2'	35:BA:1825:A:H5'	2.02	0.59
35:DA:1789:A:OP1	38:DD:222:ARG:HG3	2.03	0.59
34:B8:32:LEU:HD11	34:B8:41:ILE:CG2	2.33	0.59
45:BO:24:VAL:HG21	45:BO:32:TYR:O	2.03	0.59
45:BO:63:VAL:HG22	45:BO:83:ALA:O	2.03	0.59
45:BO:93:PRO:C	45:BO:95:GLY:H	2.04	0.59
50:BT:27:THR:OG1	50:BT:28:VAL:N	2.36	0.59
56:BZ:166:SER:HB2	56:BZ:168:GLU:N	2.18	0.59
39:BE:55:ASN:HD21	39:BE:75:VAL:HG22	1.66	0.59
44:BN:46:VAL:HG22	44:BN:47:ALA:N	2.17	0.59
10:AJ:50:ILE:CD1	10:AJ:50:ILE:H	1.91	0.59
1:AA:974:A:OP1	14:AN:31:ARG:HD3	2.03	0.59
34:D8:60:LEU:HA	34:D8:63:PRO:CG	2.33	0.59
28:B2:29:LYS:HA	28:B2:32:LEU:CD2	2.30	0.59
54:BX:52:VAL:O	54:BX:53:LYS:CB	2.51	0.59
27:B1:44:PRO:HA	35:BA:2231:C:OP1	2.02	0.59
41:BG:83:ARG:O	41:BG:85:GLY:N	2.36	0.59
35:BA:2774:C:H2'	35:BA:2775:A:H8	1.66	0.59
44:DN:46:VAL:O	44:DN:47:ALA:HB2	2.03	0.59
19:CS:16:LEU:H	19:CS:16:LEU:CD1	2.15	0.59
4:CD:154:ASN:CB	4:CD:159:ARG:HH21	2.15	0.59
35:BA:514:A:H1'	35:BA:581:C:O2'	2.03	0.59
55:BY:86:ARG:HG2	55:BY:87:LYS:N	2.18	0.59
2:CB:73:THR:HG22	2:CB:93:VAL:O	2.03	0.59
35:DA:674:G:H1'	40:DF:74:ARG:HG3	1.85	0.59
44:DN:15:LEU:HD12	44:DN:136:GLU:HB2	1.84	0.59
6:AF:10:LEU:HD13	6:AF:61:LEU:HD11	1.83	0.59
25:CY:171:LYS:O	25:CY:172:ALA:C	2.40	0.59
43:BI:37:VAL:CG1	43:BI:38:LEU:N	2.65	0.59
25:AY:63:PRO:CB	25:AY:64:ARG:HH22	2.15	0.59
1:AA:600:C:H5'	8:AH:129:VAL:O	2.03	0.59
35:DA:493:G:H2'	35:DA:494:G:H5''	1.85	0.59
38:DD:132:PRO:HD3	38:DD:190:TYR:CZ	2.37	0.59
18:CR:86:VAL:O	18:CR:87:ARG:HB3	2.01	0.59
2:AB:107:THR:HG23	2:AB:110:GLN:OE1	2.03	0.59
32:B6:15:GLU:O	32:B6:16:CYS:SG	2.59	0.59
38:BD:142:VAL:HG23	38:BD:193:VAL:CA	2.31	0.59
3:CC:88:ARG:HG2	3:CC:101:LEU:HB2	1.84	0.59
29:B3:14:GLY:O	35:BA:969:U:H4'	2.02	0.59
2:AB:25:ASN:OD1	2:AB:27:LYS:HB2	2.03	0.59
1:AA:1109:C:H2'	1:AA:1110:A:O4'	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:811:C:O2'	1:AA:901:A:N1	2.36	0.59
1:CA:135:C:H2'	1:CA:136:C:H5'	1.83	0.59
1:CA:1292:U:H2'	1:CA:1293:G:H8	1.68	0.59
7:AG:22:LEU:O	7:AG:25:ALA:HB3	2.03	0.59
1:AA:1294:G:H2'	1:AA:1295:G:C8	2.38	0.59
35:BA:64:A:H2'	35:BA:65:C:H6	1.66	0.59
7:CG:36:LYS:HB2	7:CG:36:LYS:NZ	2.17	0.59
47:DQ:22:LYS:HA	47:DQ:22:LYS:NZ	2.18	0.59
35:DA:1127:A:C2'	35:DA:1128:A:H5''	2.33	0.59
35:BA:2024:G:H2'	35:BA:2025:C:H6	1.66	0.59
35:DA:700:G:H2'	35:DA:701:G:C8	2.37	0.59
1:CA:370:C:O2'	1:CA:371:G:H5'	2.03	0.59
4:CD:196:LEU:N	4:CD:196:LEU:HD12	2.18	0.59
35:DA:1555:G:H2'	35:DA:1556:C:C6	2.38	0.59
2:CB:121:LEU:HD23	2:CB:121:LEU:O	2.03	0.59
37:DC:184:LYS:C	37:DC:186:ALA:H	2.04	0.59
35:DA:2682:U:C2	39:DE:22:PRO:HB3	2.38	0.59
1:CA:972:C:H2'	10:CJ:55:LYS:HD3	1.84	0.59
38:BD:270:ILE:HD12	38:BD:270:ILE:O	2.03	0.59
38:DD:80:ALA:HB2	38:DD:96:HIS:ND1	2.17	0.59
16:AP:19:ILE:HB	16:AP:37:GLY:CA	2.32	0.59
35:BA:2892:A:C5	35:BA:2893:G:H1'	2.38	0.59
39:BE:75:VAL:C	39:BE:77:ILE:H	2.06	0.59
34:D8:60:LEU:HA	34:D8:63:PRO:HG2	1.84	0.59
28:B2:12:GLU:C	28:B2:14:ARG:NE	2.57	0.59
39:DE:77:ILE:HG21	39:DE:79:ARG:HE	1.67	0.59
51:DU:91:ASP:OD2	51:DU:96:ALA:CA	2.51	0.59
35:DA:2469:A:H3'	35:DA:2470:G:O4'	2.02	0.59
35:BA:2579:C:O3'	39:BE:131:ALA:HB2	2.03	0.59
46:BP:71:VAL:HG22	46:BP:72:PRO:CD	2.33	0.59
51:BU:47:TYR:HA	51:BU:50:ARG:CZ	2.32	0.59
48:BR:49:ASP:O	48:BR:50:HIS:C	2.41	0.59
44:DN:26:LEU:HD11	44:DN:30:ILE:HD11	1.85	0.59
44:DN:55:VAL:HG12	44:DN:56:ASN:N	2.18	0.59
44:BN:53:VAL:HG13	44:BN:121:LYS:O	2.02	0.59
4:AD:155:LEU:O	4:AD:158:ILE:HG22	2.03	0.59
4:AD:60:GLU:HG2	4:AD:202:LEU:HB2	1.84	0.59
43:DI:109:ILE:CD1	43:DI:111:PRO:HD3	2.33	0.59
43:DI:95:LYS:O	43:DI:99:GLU:HB2	2.03	0.59
18:AR:36:ASN:HD22	18:AR:39:VAL:CB	2.16	0.59
18:AR:44:LEU:HA	18:AR:49:LYS:O	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:32:PHE:HB3	12:CL:84:LEU:CD2	2.33	0.59
43:BI:14:ASP:HB2	43:BI:17:GLN:OE1	2.03	0.59
1:CA:1228:C:H4'	13:CM:116:THR:O	2.02	0.59
35:BA:742:G:O2'	35:BA:743:G:H5'	2.01	0.59
18:AR:87:ARG:CZ	18:AR:87:ARG:HB3	2.33	0.59
38:BD:32:SER:OG	38:BD:33:LEU:N	2.34	0.59
8:CH:9:MET:O	8:CH:13:ILE:HG12	2.02	0.59
42:BH:13:LYS:O	42:BH:15:VAL:N	2.35	0.59
12:CL:89:ARG:C	12:CL:89:ARG:HH11	2.07	0.59
38:BD:95:LEU:HD12	38:BD:103:ARG:O	2.03	0.59
35:BA:1937:A:N7	35:BA:1939:U:H2'	2.18	0.59
35:DA:2673:G:O2'	35:DA:2674:G:H5'	2.03	0.59
39:DE:103:ASP:OD2	39:DE:202:LYS:HE2	2.03	0.59
1:AA:1074:G:H4'	2:AB:103:THR:HG22	1.85	0.59
35:DA:377:C:H2'	35:DA:378:C:H6	1.64	0.59
3:CC:87:LEU:HB3	3:CC:101:LEU:HD11	1.85	0.59
35:DA:1720:U:C2'	35:DA:1721:G:H5'	2.32	0.59
35:DA:2762:G:C2'	35:DA:2763:G:H5''	2.30	0.59
35:DA:2872:G:C2	35:DA:2873:A:N6	2.70	0.59
10:CJ:30:SER:OG	10:CJ:81:THR:HG22	2.02	0.59
7:CG:149:ARG:HB3	11:CK:59:TYR:CE2	2.37	0.59
35:DA:1438:U:H2'	35:DA:1439:A:H8	1.66	0.59
1:CA:1152:A:H2'	1:CA:1153:C:H6	1.67	0.59
46:DP:108:LYS:O	46:DP:110:TYR:N	2.32	0.59
35:DA:437:G:O2'	35:DA:438:G:H5'	2.03	0.59
35:DA:700:G:H2'	35:DA:701:G:H8	1.67	0.59
35:BA:1374:G:H2'	35:BA:1375:C:C6	2.38	0.59
35:DA:1630:G:H2'	35:DA:1631:C:H6	1.68	0.59
35:DA:2669:G:H2'	35:DA:2670:A:H8	1.68	0.59
35:DA:37:C:H2'	35:DA:38:A:C8	2.38	0.59
23:AW:57:C:H2'	23:AW:58:A:H8	1.67	0.59
8:CH:91:ARG:HH11	8:CH:91:ARG:HG2	1.68	0.59
29:D3:51:ALA:O	29:D3:53:LEU:N	2.36	0.59
50:DT:28:VAL:CG1	50:DT:46:GLU:HA	2.32	0.58
1:CA:972:C:H5'	10:CJ:57:LYS:NZ	2.17	0.58
41:DG:109:VAL:O	41:DG:113:ARG:N	2.36	0.58
45:BO:68:GLU:HB3	45:BO:78:ARG:HB2	1.85	0.58
50:BT:28:VAL:O	50:BT:28:VAL:HG12	2.02	0.58
50:BT:89:VAL:HG11	50:BT:91:ARG:HE	1.67	0.58
35:DA:2051:A:H5'	35:DA:2578:G:O4'	2.02	0.58
1:AA:949:A:H2'	1:AA:950:U:O4'	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:33:VAL:HA	14:AN:39:LEU:O	2.03	0.58
54:BX:30:VAL:HG23	54:BX:76:ARG:HA	1.85	0.58
39:DE:29:GLY:HA3	39:DE:180:ASN:ND2	2.16	0.58
41:BG:64:THR:HG23	41:BG:65:GLY:N	2.17	0.58
28:D2:17:SER:O	28:D2:18:PRO:C	2.39	0.58
56:DZ:27:VAL:HG13	56:DZ:27:VAL:O	2.02	0.58
44:DN:42:TRP:HD1	51:DU:63:VAL:HG11	1.67	0.58
4:CD:163:GLU:C	4:CD:165:MET:H	2.06	0.58
35:BA:1245:G:C3'	46:BP:16:ARG:HH22	2.15	0.58
39:BE:131:ALA:HB1	39:BE:134:ILE:HD11	1.85	0.58
27:D1:13:ILE:CG2	27:D1:14:VAL:H	2.12	0.58
27:D1:89:GLU:OE2	27:D1:89:GLU:N	2.35	0.58
51:BU:6:THR:HG21	51:BU:10:ARG:NH2	2.18	0.58
40:DF:3:GLU:HA	40:DF:24:LEU:HB3	1.85	0.58
35:DA:575:A:O2'	35:DA:576:U:H5'	2.03	0.58
35:DA:692:C:H2'	35:DA:693:C:C6	2.38	0.58
51:BU:34:LYS:HA	51:BU:34:LYS:CE	2.32	0.58
11:CK:22:HIS:C	11:CK:28:THR:HG23	2.22	0.58
25:AY:3:LEU:HD23	25:AY:7:TYR:OH	2.03	0.58
1:CA:599:C:H2'	1:CA:600:C:H6	1.68	0.58
5:CE:37:ARG:O	5:CE:38:GLN:HG2	2.02	0.58
25:CY:76:LEU:HD23	25:CY:76:LEU:C	2.24	0.58
25:CY:41:LEU:HD22	25:CY:83:ILE:HD13	1.84	0.58
8:AH:11:THR:HA	8:AH:14:ARG:CZ	2.33	0.58
9:AI:95:LYS:NZ	9:AI:96:LEU:HD13	2.18	0.58
56:DZ:109:ALA:O	56:DZ:111:VAL:HG12	2.03	0.58
9:CI:37:PHE:CE1	9:CI:74:ILE:HG12	2.38	0.58
35:DA:1309:G:O2'	35:DA:1310:G:H5'	2.02	0.58
54:DX:65:ARG:NH2	54:DX:66:LEU:H	2.00	0.58
38:DD:132:PRO:HG3	38:DD:190:TYR:CE1	2.38	0.58
39:BE:169:ASN:OD1	39:BE:201:THR:HG21	2.03	0.58
35:DA:176:G:C2'	35:DA:177:G:H5'	2.33	0.58
35:BA:680:G:H2'	35:BA:681:G:C8	2.37	0.58
1:AA:9:G:H2'	1:AA:10:A:H8	1.68	0.58
38:BD:142:VAL:HA	38:BD:194:GLY:H	1.68	0.58
31:B5:2:ALA:N	35:BA:2014:A:N3	2.51	0.58
19:AS:41:VAL:CB	19:AS:44:MET:HB2	2.33	0.58
38:DD:231:HIS:CD2	38:DD:249:PRO:HG3	2.38	0.58
2:CB:31:TYR:HD2	2:CB:31:TYR:N	2.02	0.58
56:BZ:63:ASP:C	56:BZ:65:GLN:H	2.07	0.58
10:AJ:79:ARG:HA	10:AJ:82:ILE:HG12	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1241:G:H2'	1:AA:1242:C:C5	2.38	0.58
53:DW:58:ALA:HB1	53:DW:64:MET:SD	2.43	0.58
29:D3:35:ARG:HG2	29:D3:37:LEU:HD21	1.85	0.58
56:BZ:33:LEU:HD12	56:BZ:34:ASN:H	1.68	0.58
35:DA:1227:G:OP2	51:DU:16:LYS:HE3	2.03	0.58
35:BA:1180:C:H2'	35:BA:1181:C:H5'	1.85	0.58
5:AE:15:ARG:O	5:AE:15:ARG:HG2	2.03	0.58
1:CA:745:C:H2'	1:CA:746:A:H8	1.68	0.58
35:BA:407:G:H2'	35:BA:408:G:H8	1.68	0.58
35:BA:13:A:C2	35:BA:526:A:C5	2.90	0.58
45:DO:76:ALA:HB3	50:DT:75:ILE:CB	2.32	0.58
10:CJ:48:THR:HG22	10:CJ:49:VAL:N	2.18	0.58
53:DW:29:LEU:O	53:DW:33:ARG:HG3	2.02	0.58
10:CJ:4:ILE:HB	10:CJ:74:ILE:CG1	2.32	0.58
34:B8:30:ARG:HE	46:BP:62:LEU:HB2	1.68	0.58
47:DQ:35:VAL:CG1	47:DQ:130:LYS:HB3	2.33	0.58
35:BA:2723:C:H2'	35:BA:2724:C:H5'	1.84	0.58
16:AP:19:ILE:HG22	16:AP:36:ILE:CG1	2.33	0.58
47:BQ:25:ASP:HA	56:BZ:78:LYS:HZ2	1.65	0.58
56:BZ:120:ILE:HG21	56:BZ:170:THR:O	2.02	0.58
39:BE:30:PRO:C	39:BE:32:PRO:HD3	2.23	0.58
54:BX:34:ALA:O	54:BX:36:LYS:HG3	2.03	0.58
54:BX:61:GLY:H	54:BX:70:LEU:HD21	1.68	0.58
35:DA:2808:U:O2'	35:DA:2809:A:H5'	2.03	0.58
35:DA:2632:A:O2'	39:DE:61:ARG:NH2	2.36	0.58
35:DA:1862:G:O2'	35:DA:1863:G:H5'	2.02	0.58
41:BG:137:GLU:HB3	41:BG:140:ILE:CG2	2.32	0.58
35:DA:94(A):G:C3'	35:DA:95:G:H5''	2.33	0.58
54:DX:36:LYS:HZ1	54:DX:39:ILE:HA	1.67	0.58
54:DX:40:LYS:C	54:DX:42:ALA:H	2.07	0.58
42:BH:140:LYS:O	42:BH:144:VAL:HG23	2.03	0.58
56:DZ:121:HIS:C	56:DZ:123:ASP:H	2.05	0.58
29:D3:31:LEU:CD2	29:D3:32:GLN:H	2.15	0.58
35:DA:2626:C:H2'	35:DA:2627:G:C8	2.37	0.58
51:DU:92:ARG:HB3	52:DV:11:GLN:CD	2.21	0.58
32:D6:27:LYS:HD2	35:DA:2285:C:OP2	2.03	0.58
44:BN:65:LYS:CE	44:BN:65:LYS:HA	2.27	0.58
35:BA:607:U:OP1	40:BF:102:PRO:HA	2.02	0.58
25:AY:39:LEU:HB2	25:AY:53:ASN:CB	2.20	0.58
27:D1:87:PRO:O	27:D1:90:ILE:HG12	2.03	0.58
35:BA:2078:C:H2'	35:BA:2079:U:H6	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:590:A:H2'	35:BA:591:C:C6	2.38	0.58
40:BF:71:GLY:O	40:BF:72:ARG:C	2.41	0.58
48:BR:74:LYS:O	48:BR:77:ARG:N	2.36	0.58
2:AB:71:VAL:O	2:AB:164:VAL:HA	2.02	0.58
2:AB:63:MET:HB3	2:AB:225:ALA:HB1	1.85	0.58
35:BA:8:A:H2'	35:BA:9:U:C6	2.36	0.58
44:BN:23:LEU:HB3	44:BN:60:ILE:CG2	2.33	0.58
18:CR:74:ARG:HA	18:CR:79:LEU:HB2	1.84	0.58
35:DA:575:A:H2'	35:DA:576:U:H5'	1.83	0.58
4:AD:119:GLN:HG3	4:AD:123:HIS:CD2	2.38	0.58
1:AA:909:A:C2	1:AA:910:C:H1'	2.37	0.58
4:AD:18:LYS:NZ	4:AD:31:CYS:HB3	2.18	0.58
43:DI:133:HIS:CB	43:DI:134:PRO:CD	2.81	0.58
25:CY:13:HIS:H	25:CY:13:HIS:HD1	1.50	0.58
1:CA:959:A:H2'	1:CA:960:U:H4'	1.85	0.58
19:CS:40:ILE:HD13	19:CS:62:ILE:HD13	1.85	0.58
25:AY:29:ARG:NE	25:AY:32:ARG:NH2	2.44	0.58
23:CW:71:G:O2'	23:CW:72:C:H5'	2.02	0.58
44:BN:77:GLY:O	44:BN:78:TYR:HB3	2.03	0.58
1:CA:690:G:H2'	1:CA:691:G:O4'	2.03	0.58
7:AG:153:HIS:CE1	11:AK:57:THR:HG23	2.39	0.58
18:AR:86:VAL:O	18:AR:87:ARG:HB3	2.02	0.58
19:AS:63:THR:HG22	19:AS:66:MET:CG	2.25	0.58
55:BY:28:LYS:O	55:BY:28:LYS:HE3	2.02	0.58
11:AK:29:ILE:HD12	11:AK:29:ILE:C	2.23	0.58
11:CK:19:ALA:HA	11:CK:32:ILE:HA	1.85	0.58
8:AH:110:ALA:CB	8:AH:121:ASP:HB3	2.26	0.58
9:AI:28:VAL:HG13	9:AI:64:THR:CA	2.29	0.58
35:BA:271(Q):G:H2'	35:BA:271(R):G:C8	2.38	0.58
1:AA:1368:G:O2'	1:AA:1369:C:H5'	2.03	0.58
16:CP:5:ARG:C	16:CP:6:LEU:HD12	2.24	0.58
16:CP:71:ARG:HH11	16:CP:71:ARG:HG3	1.68	0.58
15:AO:8:LYS:O	15:AO:12:ILE:HG13	2.03	0.58
1:AA:1075:C:OP1	2:AB:179:LYS:HE2	2.03	0.58
54:DX:68:ARG:HG3	54:DX:69:TYR:CD1	2.37	0.58
1:AA:390:C:H4'	16:AP:28:ARG:HH21	1.68	0.58
35:BA:2636:U:H4'	39:BE:80:GLU:OE1	2.01	0.58
26:D0:43:THR:HB	26:D0:57:PHE:CE1	2.38	0.58
17:AQ:86:GLU:C	17:AQ:88:TYR:N	2.56	0.58
4:CD:3:ARG:O	4:CD:5:ILE:N	2.37	0.58
35:DA:1809:A:H2'	35:DA:1810:A:C8	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:57:LYS:HE2	5:AE:61:TYR:HE2	1.67	0.58
35:DA:360:G:H2'	35:DA:361:G:H8	1.67	0.58
35:DA:361:G:C2'	35:DA:362:U:H5''	2.33	0.58
35:BA:2408:U:H2'	35:BA:2409:G:H8	1.68	0.58
46:BP:122:PRO:CG	46:BP:141:ALA:HB3	2.33	0.58
40:BF:200:GLU:O	40:BF:204:ASN:HB2	2.02	0.58
1:AA:1152:A:H5''	10:AJ:13:HIS:HD2	1.66	0.58
19:AS:22:LEU:HD22	19:AS:27:GLU:H	1.69	0.58
35:DA:2780:G:OP1	44:DN:118:LYS:HE2	2.04	0.58
37:BC:196:LEU:C	37:BC:198:ALA:H	2.07	0.58
34:B8:48:PHE:H	34:B8:48:PHE:HD1	1.50	0.58
35:BA:2455:G:H2'	35:BA:2456:C:C6	2.38	0.58
45:DO:46:ALA:N	45:DO:54:GLU:HG2	2.18	0.58
41:DG:46:ALA:C	41:DG:51:ARG:HG3	2.23	0.58
41:DG:95:ARG:O	41:DG:99:MET:N	2.30	0.58
35:BA:2729:G:C1'	39:BE:187:ALA:HB2	2.21	0.58
44:BN:1:MET:HG2	44:BN:2:LYS:N	2.17	0.58
35:DA:2808:U:H2'	35:DA:2809:A:C5'	2.34	0.58
41:BG:173:LEU:O	41:BG:176:LEU:HB2	2.03	0.58
28:D2:12:GLU:O	28:D2:14:ARG:CZ	2.51	0.58
42:BH:144:VAL:O	42:BH:144:VAL:HG12	2.02	0.58
35:DA:2627:G:N3	35:DA:2781:A:H2	2.02	0.58
47:DQ:124:LYS:HA	47:DQ:124:LYS:HE2	1.85	0.58
49:BS:23:ARG:HG2	49:BS:24:LEU:H	1.67	0.58
4:CD:173:TRP:C	4:CD:186:LEU:HD12	2.23	0.58
27:D1:73:LEU:O	27:D1:76:ARG:HG2	2.02	0.58
34:D8:25:MET:HG3	46:DP:62:LEU:HD21	1.85	0.58
34:D8:42:ARG:O	34:D8:44:LYS:N	2.36	0.58
46:DP:62:LEU:C	46:DP:62:LEU:HD22	2.23	0.58
46:DP:64:LYS:O	46:DP:65:ARG:C	2.42	0.58
35:BA:812:C:C2	35:BA:1250:G:N1	2.71	0.58
40:DF:202:PHE:CD1	40:DF:202:PHE:C	2.76	0.58
3:AC:109:PRO:HA	3:AC:115:LEU:HD13	1.85	0.58
49:DS:61:ASN:ND2	49:DS:62:LYS:HE3	2.14	0.58
2:AB:69:LEU:CB	2:AB:162:ILE:HG22	2.34	0.58
35:DA:2078:C:H2'	35:DA:2079:U:H6	1.69	0.58
40:DF:65:TRP:CH2	40:DF:75:HIS:CD2	2.87	0.58
46:DP:39:LYS:C	46:DP:41:ARG:H	2.05	0.58
1:AA:1363(A):A:H4'	1:AA:1364:U:C5'	2.24	0.58
43:DI:115:ALA:O	43:DI:128:LEU:HD23	2.03	0.58
51:DU:6:THR:HG21	51:DU:10:ARG:NH2	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CY:15:GLN:HA	25:CY:168:PHE:HZ	1.66	0.58
35:BA:1658:C:OP1	39:BE:132:HIS:ND1	2.35	0.58
1:CA:259:G:H2'	1:CA:260:G:C8	2.38	0.58
25:AY:29:ARG:NH2	25:AY:110:ARG:HH21	2.00	0.58
8:CH:103:VAL:HG21	8:CH:109:ILE:C	2.22	0.58
8:CH:110:ALA:CB	8:CH:121:ASP:HB3	2.27	0.58
2:CB:98:LEU:HB2	2:CB:101:MET:CG	2.32	0.58
1:AA:1228:C:H4'	13:AM:116:THR:O	2.03	0.58
1:CA:1368:G:O2'	1:CA:1369:C:H5'	2.03	0.58
9:CI:14:VAL:O	9:CI:65:VAL:HG23	2.02	0.58
35:DA:742:G:O2'	35:DA:743:G:H5'	2.03	0.58
31:D5:57:VAL:HG23	31:D5:58:LEU:N	2.19	0.58
35:BA:1050:A:O2'	35:BA:2752:C:H1'	2.02	0.58
9:CI:47:LEU:HB3	9:CI:50:LEU:HD12	1.84	0.58
46:BP:81:GLN:NE2	46:BP:106:LEU:HA	2.18	0.58
1:CA:452:A:O2'	1:CA:453:A:H8	1.75	0.58
16:CP:72:ARG:C	16:CP:74:LEU:H	2.06	0.58
35:DA:2320:A:H8	35:DA:2321:G:O6	1.86	0.58
23:AW:59:A:O3'	23:AW:61:U:H5	1.85	0.58
2:AB:98:LEU:HB2	2:AB:101:MET:CG	2.34	0.58
1:CA:393:A:O2'	1:CA:394:G:H5'	2.03	0.58
1:CA:1439:C:H2'	1:CA:1439:C:O2	2.03	0.58
37:DC:68:LEU:HB3	37:DC:70:LYS:HG2	1.85	0.58
38:BD:130:ALA:HB2	38:BD:192:THR:CB	2.33	0.58
38:BD:79:VAL:HG11	38:BD:112:GLN:O	2.04	0.58
13:AM:68:GLY:O	13:AM:69:GLU:HB2	2.02	0.58
29:B3:15:TYR:HB3	29:B3:19:GLN:NE2	2.17	0.58
1:AA:338:A:H2'	1:AA:339:C:H6	1.68	0.58
35:DA:851:U:H2'	35:DA:852:G:C8	2.35	0.58
1:CA:1298:C:C4	7:CG:114:ARG:HD2	2.38	0.58
27:B1:41:ARG:HH12	35:BA:189:G:H3'	1.68	0.58
11:AK:80:VAL:HG23	11:AK:80:VAL:O	2.03	0.58
7:CG:152:ALA:O	7:CG:154:TYR:N	2.36	0.58
35:BA:1887:C:C3'	35:BA:1888:G:H5''	2.33	0.58
1:AA:533:A:H1'	1:AA:534:U:OP1	2.03	0.58
1:CA:627:G:H2'	1:CA:628:G:C8	2.38	0.58
53:BW:1:MET:HE3	53:BW:1:MET:HA	1.85	0.58
38:BD:201:HIS:O	38:BD:203:ASN:N	2.36	0.58
29:D3:3:ARG:HA	29:D3:38:GLU:HA	1.85	0.58
35:BA:2024:G:O2'	35:BA:2025:C:H5'	2.02	0.58
35:BA:271(L):U:H4'	35:BA:271(M):G:C5	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:745:C:H2'	1:AA:746:A:H8	1.68	0.58
53:DW:9:TYR:HD2	53:DW:102:HIS:HE2	1.49	0.58
35:DA:827:U:H2'	35:DA:2068:U:N3	2.17	0.58
35:BA:122:G:H1	35:BA:129:C:H42	1.51	0.58
35:DA:1217:C:H2'	35:DA:1218:C:O4'	2.03	0.58
35:BA:1623:G:H2'	35:BA:1624:G:H8	1.69	0.58
45:DO:14:THR:HG22	45:DO:52:VAL:HG21	1.85	0.58
45:DO:31:LYS:HB3	45:DO:32:TYR:CD1	2.37	0.58
35:BA:1789:A:H2'	35:BA:1790:C:H6	1.67	0.58
35:BA:782:A:C2	38:BD:226:MET:HE2	2.39	0.58
38:BD:35:LYS:HD3	38:BD:63:ARG:CB	2.21	0.58
41:DG:125:PHE:HE2	41:DG:173:LEU:HD12	1.69	0.58
41:DG:38:VAL:HG13	41:DG:91:ARG:HD3	1.86	0.58
35:BA:1997:G:O2'	35:BA:1998:G:H5'	2.03	0.58
35:BA:1998:G:H2'	35:BA:1999:C:H6	1.69	0.58
45:BO:62:VAL:HG12	45:BO:63:VAL:N	2.18	0.58
35:DA:2571:C:H5'	35:DA:2572:A:H5'	1.86	0.58
39:BE:1:MET:N	39:BE:84:PHE:HB2	2.18	0.58
42:DH:85:LYS:HE3	42:DH:144:VAL:HB	1.83	0.58
10:AJ:49:VAL:HG13	14:AN:41:ARG:HB2	1.84	0.58
35:BA:76:C:H2'	35:BA:77:C:H6	1.68	0.58
39:DE:34:VAL:CG2	39:DE:48:GLN:HE21	2.16	0.58
39:DE:6:GLY:HA2	39:DE:51:PHE:HE2	1.68	0.58
27:B1:13:ILE:HG23	27:B1:14:VAL:N	2.18	0.58
41:BG:115:ARG:HH22	41:BG:136:ARG:CD	2.15	0.58
41:BG:138:GLN:CD	41:BG:153:ARG:H	2.07	0.58
56:DZ:48:PHE:CA	56:DZ:51:ALA:HB3	2.33	0.58
52:DV:34:GLU:HG2	52:DV:35:LEU:N	2.18	0.58
4:CD:64:LEU:HB2	4:CD:198:VAL:HG11	1.86	0.58
43:DI:88:ILE:CG2	43:DI:89:TYR:H	2.16	0.58
27:D1:73:LEU:HD23	27:D1:90:ILE:HG22	1.86	0.58
34:B8:56:GLU:HA	34:B8:59:LYS:NZ	2.18	0.58
35:BA:2081:C:O2'	35:BA:2082:A:H5'	2.04	0.58
35:BA:668:G:C2	35:BA:670:A:C6	2.92	0.58
35:DA:2707:G:H2'	35:DA:2708:G:H8	1.68	0.58
50:BT:110:ILE:HA	50:BT:113:LYS:HD2	1.85	0.58
44:DN:23:LEU:HB3	44:DN:60:ILE:HG21	1.84	0.58
18:CR:22:VAL:HA	18:CR:25:THR:OG1	2.03	0.58
2:CB:163:PHE:HA	2:CB:185:ILE:O	2.03	0.58
2:CB:50:GLU:OE1	2:CB:200:ILE:HB	2.03	0.58
35:DA:1255:U:H5''	35:DA:1256:G:H5''	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:79:PHE:O	4:AD:82:ALA:HB3	2.03	0.58
1:AA:1313:U:OP1	19:AS:6:LYS:HG3	2.03	0.58
55:DY:10:GLY:HA2	55:DY:27:VAL:CG1	2.24	0.58
55:DY:28:LYS:HE3	55:DY:28:LYS:O	2.03	0.58
12:AL:5:PRO:HG2	12:AL:10:LEU:HD21	1.83	0.58
12:AL:6:THR:HG22	12:AL:9:GLN:CG	2.31	0.58
47:DQ:9:TYR:O	47:DQ:10:ARG:CG	2.44	0.58
6:AF:41:GLU:H	6:AF:62:TRP:HE3	1.52	0.58
1:CA:781:A:H2'	1:CA:782:A:H5'	1.84	0.58
21:CU:2:GLY:N	21:CU:5:ASP:HB2	2.18	0.58
12:CL:5:PRO:HG2	12:CL:10:LEU:HD21	1.86	0.58
12:AL:25:PRO:O	12:AL:27:LEU:HD22	2.03	0.58
33:B7:7:PRO:CB	35:BA:1309:G:H4'	2.34	0.58
35:DA:1049:C:H2'	35:DA:1050:A:C8	2.38	0.58
7:AG:79:ARG:NH2	23:AW:34:U:H4'	2.18	0.58
13:AM:117:VAL:HG12	13:AM:118:ALA:N	2.17	0.58
35:DA:662:G:H2'	35:DA:663:G:H8	1.68	0.58
40:DF:34:TRP:CB	46:DP:11:GLY:HA3	2.33	0.58
35:DA:926:A:H8	35:DA:926:A:H5'	1.67	0.58
1:AA:1391:U:H2'	1:AA:1392:G:H8	1.65	0.58
1:CA:1341:U:O2'	1:CA:1342:C:H5'	2.03	0.58
35:BA:2538:C:C2'	35:BA:2539:C:H5'	2.32	0.58
8:CH:29:SER:O	8:CH:32:LYS:HB2	2.03	0.58
31:B5:44:THR:CG2	31:B5:45:VAL:H	2.08	0.58
1:AA:1343:G:H1'	9:AI:121:ARG:HH12	1.69	0.58
35:BA:272:G:H1'	35:BA:272(B):G:O4'	2.03	0.58
35:BA:1049:C:H2'	35:BA:1050:A:C8	2.38	0.58
33:D7:31:LEU:CD2	33:D7:42:LEU:HB3	2.32	0.58
38:BD:172:TYR:HD1	38:BD:186:HIS:CA	2.16	0.58
16:CP:68:ASP:O	16:CP:71:ARG:HB3	2.02	0.58
50:BT:13:ARG:HH12	50:BT:15:VAL:HG13	1.64	0.58
38:DD:134:ARG:O	38:DD:136:ILE:N	2.36	0.58
38:DD:172:TYR:HD1	38:DD:186:HIS:CA	2.16	0.58
50:DT:13:ARG:HH12	50:DT:15:VAL:HG13	1.68	0.58
35:BA:493:G:H2'	35:BA:494:G:H5''	1.85	0.58
2:CB:67:THR:CG2	2:CB:155:LEU:HG	2.33	0.58
51:DU:3:ARG:HG3	51:DU:3:ARG:O	2.02	0.58
35:BA:15:G:H2'	35:BA:16:G:C8	2.34	0.58
35:BA:1710:C:H2'	35:BA:1711:C:C6	2.39	0.58
23:CW:17:C:H4'	23:CW:62:C:C5'	2.33	0.58
12:CL:119:LYS:O	12:CL:120:TYR:HB2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:119:LYS:C	12:CL:120:TYR:HD1	2.05	0.58
35:DA:861:A:H62	35:DA:916:G:H21	1.49	0.58
36:DB:78:A:C2	36:DB:100:A:C4	2.91	0.58
1:AA:1397:C:N4	24:AX:22:U:C5	2.71	0.58
36:BB:83:G:O2'	36:BB:84:C:H5'	2.04	0.58
45:DO:13:ASN:HD21	45:DO:96:THR:H	1.50	0.58
1:CA:1365:G:O2'	1:CA:1366:C:H5'	2.03	0.58
1:CA:1294:G:H2'	1:CA:1295:G:H8	1.69	0.58
35:DA:1108:U:C2'	35:DA:1109:C:H5'	2.33	0.58
6:CF:37:VAL:HG13	6:CF:65:VAL:CG1	2.33	0.58
3:AC:91:LEU:O	3:AC:94:LEU:HG	2.03	0.58
35:BA:1469:A:O2'	35:BA:1470:G:H5'	2.03	0.58
32:B6:42:TRP:HA	32:B6:42:TRP:HE3	1.69	0.58
3:CC:91:LEU:O	3:CC:94:LEU:HG	2.03	0.58
56:DZ:22:GLY:O	56:DZ:41:LEU:HD21	2.03	0.58
1:CA:304:U:H2'	1:CA:305:G:C8	2.39	0.58
35:DA:401:A:H2'	35:DA:402:A:C8	2.38	0.58
39:DE:24:THR:OG1	39:DE:188:VAL:HG11	2.04	0.58
43:BI:88:ILE:HG23	43:BI:89:TYR:H	1.68	0.58
38:DD:35:LYS:HE2	38:DD:104:TYR:CB	2.33	0.58
32:B6:51:GLU:CG	32:B6:52:VAL:H	2.00	0.58
46:BP:62:LEU:O	46:BP:62:LEU:HD22	2.03	0.58
35:BA:2863:C:C2'	35:BA:2864:G:H5''	2.34	0.58
56:BZ:97:GLU:HA	56:BZ:126:VAL:O	2.03	0.58
39:BE:34:VAL:CG2	39:BE:48:GLN:HE21	2.15	0.58
51:BU:49:HIS:HA	51:BU:52:ARG:HB2	1.86	0.58
14:AN:40:CYS:SG	14:AN:41:ARG:N	2.77	0.58
28:B2:53:LEU:CA	28:B2:56:GLN:HG2	2.30	0.58
54:BX:59:VAL:HG23	54:BX:74:PRO:CD	2.33	0.58
44:DN:110:GLY:HA2	44:DN:114:ARG:NH2	2.18	0.58
35:BA:611:C:O2'	35:BA:612:C:H5'	2.03	0.58
40:BF:110:LEU:HD21	40:BF:181:LEU:HD23	1.85	0.58
25:AY:34:ASN:CG	25:AY:35:PRO:HD2	2.24	0.58
55:BY:95:LYS:HG2	55:BY:100:ALA:CA	2.18	0.58
20:AT:50:GLU:HG3	20:AT:51:GLU:H	1.69	0.58
35:DA:2078:C:O2'	35:DA:2079:U:H5'	2.04	0.58
44:DN:55:VAL:HG12	44:DN:126:PRO:HA	1.84	0.58
56:BZ:116:VAL:HG12	56:BZ:117:LEU:N	2.15	0.58
44:BN:57:ALA:HB1	44:BN:60:ILE:HD11	1.84	0.58
6:CF:69:GLU:HG2	6:CF:70:ASP:H	1.68	0.58
15:CO:50:HIS:O	15:CO:53:HIS:HB3	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:167:PRO:HD2	2:CB:188:ALA:HB2	1.85	0.58
2:CB:178:ARG:HH22	2:CB:196:LEU:HA	1.68	0.58
2:CB:185:ILE:HG22	2:CB:199:TYR:HD1	1.68	0.58
2:CB:71:VAL:CG2	2:CB:93:VAL:HG23	2.33	0.58
35:DA:195:A:H5''	35:DA:196:A:OP2	2.03	0.58
35:DA:1224:C:O3'	52:DV:88:ARG:HB3	2.03	0.58
55:DY:37:VAL:O	55:DY:38:ILE:HB	2.03	0.58
55:DY:42:VAL:HB	55:DY:65:ALA:HB3	1.83	0.58
4:AD:64:LEU:HB2	4:AD:198:VAL:HG11	1.85	0.58
1:AA:735:C:H2'	1:AA:736:C:C6	2.37	0.58
1:CA:1515:C:O2'	1:CA:1516:G:H5'	2.03	0.58
35:DA:580:C:H2'	35:DA:581:C:C6	2.38	0.58
12:CL:32:PHE:HB3	12:CL:84:LEU:HD21	1.86	0.58
12:CL:86:ARG:CG	12:CL:87:GLY:H	2.16	0.58
11:AK:69:ALA:O	11:AK:73:MET:N	2.29	0.58
35:DA:2600:A:HO2'	35:DA:2601:C:H5'	1.67	0.58
55:BY:68:HIS:ND1	55:BY:69:ALA:N	2.51	0.58
7:AG:146:GLU:O	7:AG:149:ARG:HB2	2.03	0.58
54:BX:65:ARG:CA	54:BX:65:ARG:NE	2.66	0.58
33:D7:8:ASN:C	33:D7:8:ASN:HD22	2.06	0.58
38:BD:69:ARG:HD3	38:BD:105:ILE:HD12	1.86	0.58
46:BP:95:VAL:O	46:BP:125:VAL:HG23	2.03	0.58
35:DA:493:G:H3'	35:DA:494:G:H5''	1.85	0.58
35:DA:680:G:H2'	35:DA:681:G:H8	1.68	0.58
6:AF:45:LEU:O	6:AF:46:ARG:HD2	2.03	0.58
5:AE:78:HIS:HD2	8:AH:104:ARG:NE	2.01	0.58
35:DA:1503:U:H2'	35:DA:1504:C:C5	2.37	0.58
1:AA:661:G:H2'	1:AA:662:G:H8	1.67	0.58
35:BA:1707:G:H2'	35:BA:1708:C:C6	2.38	0.58
46:BP:91:PHE:N	46:BP:91:PHE:CD1	2.71	0.58
1:AA:1522:U:C2'	1:AA:1523:G:H5'	2.34	0.58
35:BA:1034:G:H22	35:BA:1122:G:H1'	1.66	0.58
35:DA:1034:G:H22	35:DA:1122:G:H1'	1.66	0.58
1:CA:178:C:H2'	1:CA:179:A:H8	1.68	0.58
35:BA:214:G:O2'	35:BA:215:G:O4'	2.20	0.58
35:DA:1324:G:H3'	35:DA:1325:G:C5'	2.33	0.58
35:BA:2876:G:H4'	50:BT:2:ASN:O	2.03	0.58
35:DA:1198:U:H2'	35:DA:1199:U:C6	2.38	0.58
35:DA:2840:C:H2'	35:DA:2841:C:H6	1.69	0.58
37:BC:76:ALA:HB3	37:BC:94:VAL:HG11	1.85	0.58
35:BA:841:A:H2'	35:BA:842:G:C8	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:820:A:H2'	35:BA:821:A:O4'	2.03	0.58
23:AW:29:C:H2'	23:AW:30:G:H8	1.68	0.58
1:AA:506:G:H2'	1:AA:507:C:C6	2.39	0.58
35:DA:2563:U:O2'	45:DO:28:SER:HB3	2.02	0.58
14:CN:51:GLY:C	14:CN:53:LEU:H	2.07	0.58
35:BA:1813:G:H1'	38:BD:50:THR:OG1	2.04	0.58
35:DA:1792:G:O2'	35:DA:1793:C:H5'	2.03	0.58
50:BT:74:ARG:HG2	50:BT:74:ARG:HH11	1.69	0.58
35:BA:2808:U:O2'	35:BA:2809:A:H5'	2.03	0.58
39:BE:197:ILE:HD11	39:BE:199:ARG:HH22	1.67	0.58
39:BE:51:PHE:H	39:BE:74:PRO:CB	2.16	0.58
39:BE:59:VAL:HG21	39:BE:63:LEU:HA	1.85	0.58
10:AJ:50:ILE:N	10:AJ:50:ILE:HD13	2.01	0.58
54:BX:35:THR:HB	54:BX:75:ASP:OD2	2.03	0.58
39:DE:81:ILE:O	39:DE:81:ILE:HG22	2.04	0.58
27:B1:87:PRO:HB2	27:B1:91:LYS:HZ1	1.68	0.58
41:BG:91:ARG:HG2	41:BG:92:VAL:N	2.18	0.58
54:DX:49:VAL:CG1	54:DX:50:LYS:H	2.13	0.58
42:BH:109:PHE:CE1	42:BH:152:ARG:NE	2.71	0.58
49:BS:85:VAL:CG2	49:BS:106:ARG:HB2	2.34	0.58
4:CD:127:THR:HG23	4:CD:147:ALA:HB3	1.86	0.58
40:BF:20:LEU:HB3	40:BF:23:ASP:OD2	2.04	0.58
25:AY:58:VAL:HG22	25:AY:68:VAL:HG22	1.84	0.58
34:B8:49:VAL:CG1	34:B8:53:PRO:HD3	2.33	0.58
35:BA:1259:G:O2'	35:BA:1260:G:H5'	2.03	0.58
1:AA:320:C:O2'	1:AA:1435:G:H1'	2.03	0.58
20:AT:17:ARG:HA	20:AT:20:LEU:HD12	1.84	0.58
20:AT:73:HIS:HB3	20:AT:74:LYS:CD	2.31	0.58
48:BR:36:THR:HB	48:BR:40:LYS:HD2	1.86	0.58
35:DA:2334:G:H5'	49:DS:13:ARG:CG	2.29	0.58
2:AB:73:THR:HG22	2:AB:93:VAL:O	2.03	0.58
27:D1:39:LYS:HE3	35:DA:201:C:P	2.44	0.58
44:DN:26:LEU:HD21	44:DN:99:LEU:HD11	1.84	0.58
6:CF:75:LEU:HD22	6:CF:79:LEU:HD11	1.85	0.58
35:DA:1190:G:C5'	46:DP:35:HIS:HA	2.34	0.58
19:AS:12:ASP:O	19:AS:16:LEU:HD13	2.03	0.58
55:DY:28:LYS:CE	55:DY:30:VAL:HA	2.32	0.58
4:AD:11:LEU:O	4:AD:13:ARG:N	2.36	0.58
1:CA:779:C:O2'	1:CA:780:A:H5'	2.02	0.58
51:DU:40:PHE:CD2	51:DU:40:PHE:N	2.69	0.58
20:CT:42:GLN:O	20:CT:43:LEU:HD23	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:13:HIS:O	25:AY:132:ILE:HD13	2.03	0.58
35:BA:2033:A:H4'	35:BA:2034:U:OP1	2.03	0.58
2:CB:102:LEU:CD1	2:CB:102:LEU:N	2.65	0.58
9:AI:26:VAL:HG22	9:AI:61:ALA:HB3	1.86	0.58
35:BA:271(Q):G:H2'	35:BA:271(R):G:H8	1.68	0.58
1:AA:779:C:O2'	1:AA:780:A:H5'	2.02	0.58
35:DA:1771:C:H1'	35:DA:1786:A:C8	2.38	0.58
1:AA:726:C:H2'	1:AA:727:G:C8	2.39	0.58
2:CB:19:HIS:CD2	2:CB:20:GLU:HG2	2.38	0.58
1:AA:769:G:H2'	1:AA:770:C:H6	1.67	0.58
35:BA:1447:G:H2'	35:BA:1448:G:H8	1.68	0.58
1:CA:1097:C:O2'	1:CA:1098:C:H5'	2.02	0.58
23:AW:23:G:H2'	23:AW:24:C:H5''	1.86	0.58
6:AF:82:ARG:HB2	6:AF:85:VAL:CG2	2.34	0.58
46:BP:90:ARG:CD	46:BP:91:PHE:HD1	2.17	0.58
44:DN:129:PRO:O	44:DN:130:HIS:HB3	2.03	0.58
1:CA:1292:U:O2'	1:CA:1293:G:H5'	2.02	0.58
10:CJ:32:ALA:N	10:CJ:78:ASN:ND2	2.51	0.58
35:BA:1854:A:H3'	35:BA:1855:G:H8	1.68	0.58
43:DI:66:GLU:O	43:DI:70:GLU:HG2	2.04	0.58
35:DA:2825:C:H2'	35:DA:2826:A:O4'	2.03	0.58
35:DA:845:G:O2'	35:DA:846:C:H5	1.86	0.58
35:BA:2870:C:C2'	35:BA:2871:C:H5'	2.34	0.58
35:BA:127:A:H5''	35:BA:128:C:O4'	2.04	0.58
1:AA:794:A:H2'	1:AA:795:C:C6	2.38	0.58
35:BA:2555:U:H2'	35:BA:2556:C:H5'	1.84	0.58
25:CY:180:GLU:O	25:CY:183:ILE:HG13	2.03	0.58
14:CN:23:ARG:HD3	14:CN:29:ARG:O	2.04	0.58
10:CJ:6:ILE:HD12	10:CJ:6:ILE:O	2.03	0.58
35:BA:1677:A:H2'	35:BA:1678:G:H8	1.67	0.58
45:BO:104:ARG:HH12	50:BT:35:LYS:HD3	1.68	0.58
35:DA:2052:G:C2	39:DE:149:ARG:HA	2.38	0.58
35:BA:1150:C:C2'	35:BA:1151:G:H5'	2.34	0.58
35:BA:2314:C:H2'	35:BA:2315:G:H8	1.69	0.58
34:B8:60:LEU:HA	34:B8:63:PRO:CG	2.34	0.58
35:DA:92:A:H2'	35:DA:93:G:C8	2.39	0.58
54:DX:60:ARG:HG3	54:DX:71:GLY:HA3	1.86	0.58
49:BS:23:ARG:O	49:BS:86:ALA:HB3	2.04	0.58
47:BQ:35:VAL:CG1	47:BQ:130:LYS:HB3	2.34	0.58
35:BA:256:A:H2'	35:BA:257:A:C8	2.39	0.58
40:BF:31:HIS:O	40:BF:32:LEU:C	2.42	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BQ:43:THR:OG1	47:BQ:45:GLN:HB2	2.03	0.58
48:DR:37:THR:HA	48:DR:111:LEU:HA	1.85	0.58
35:BA:2821:A:H3'	35:BA:2821:A:OP2	2.03	0.58
20:AT:16:HIS:O	20:AT:19:SER:HB2	2.04	0.58
48:BR:12:ARG:O	48:BR:13:HIS:HB3	2.04	0.58
35:BA:1275:A:C5	48:BR:16:HIS:ND1	2.72	0.58
49:DS:84:GLN:HA	49:DS:105:ALA:O	2.03	0.58
49:DS:23:ARG:O	49:DS:86:ALA:HB3	2.03	0.58
2:AB:71:VAL:O	2:AB:164:VAL:HG22	2.04	0.58
56:BZ:116:VAL:HG12	56:BZ:117:LEU:HD23	1.86	0.58
40:DF:67:GLN:O	40:DF:67:GLN:CG	2.35	0.58
52:DV:72:VAL:HG12	52:DV:73:SER:N	2.11	0.58
18:AR:74:ARG:HG3	18:AR:74:ARG:HH11	1.69	0.58
25:CY:160:GLU:O	25:CY:161:ILE:C	2.41	0.58
25:CY:32:ARG:NE	25:CY:32:ARG:CA	2.66	0.58
25:AY:171:LYS:HA	25:AY:174:GLN:NE2	2.18	0.58
7:CG:100:ALA:C	7:CG:104:LEU:HD23	2.24	0.58
47:BQ:81:VAL:HG23	47:BQ:82:ARG:HH11	1.69	0.58
1:AA:708:C:O2'	1:AA:709:G:H5'	2.02	0.58
35:DA:2264:C:H2'	35:DA:2265:U:C6	2.39	0.58
8:AH:103:VAL:HG12	8:AH:108:GLY:HA3	1.83	0.58
5:AE:6:PHE:HB3	5:AE:35:GLY:O	2.03	0.58
1:AA:1248:A:H2'	1:AA:1249:C:H5'	1.84	0.58
8:CH:11:THR:HA	8:CH:14:ARG:CZ	2.33	0.58
46:DP:107:LYS:C	46:DP:109:GLY:H	2.07	0.58
35:DA:2012:G:OP1	53:DW:98:LYS:HA	2.03	0.58
16:CP:73:LEU:O	16:CP:77:ALA:HB2	2.03	0.58
1:AA:802:A:H2'	1:AA:803:G:C5'	2.34	0.58
1:CA:936:C:O2'	1:CA:937:A:H5'	2.02	0.58
1:AA:877:C:H5"	8:AH:88:LYS:HD2	1.85	0.58
2:AB:101:MET:O	2:AB:108:ILE:HG21	2.03	0.58
5:AE:78:HIS:HB2	5:AE:79:GLU:OE1	2.03	0.58
20:CT:76:ALA:O	20:CT:80:ARG:HG2	2.04	0.58
3:CC:107:GLN:O	3:CC:108:ASN:HB2	2.01	0.58
35:BA:2098:U:H2'	35:BA:2099:U:C6	2.39	0.58
13:CM:23:TYR:OH	13:CM:71:ARG:HD3	2.04	0.58
35:DA:1615:C:H5	35:DA:1617:C:C4	2.21	0.58
35:BA:470:A:OP1	40:BF:59:TYR:HE2	1.87	0.58
35:DA:972:G:H2'	35:DA:973:A:C8	2.39	0.58
17:CQ:86:GLU:C	17:CQ:88:TYR:N	2.57	0.58
35:BA:1006:C:H2'	35:BA:1007:C:C6	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DN:137:LYS:HG2	44:DN:138:LEU:N	2.17	0.58
23:CW:36:A:O2'	23:CW:37:U:H5'	2.03	0.58
35:DA:7:G:H4'	44:DN:13:TRP:HH2	1.68	0.58
6:CF:43:LEU:H	6:CF:43:LEU:CD1	2.17	0.58
26:D0:1:MET:O	26:D0:2:ALA:HB3	2.04	0.58
54:BX:88:LYS:C	54:BX:90:GLU:H	2.07	0.58
35:BA:221:A:H4'	35:BA:222:A:O5'	2.04	0.58
35:BA:2368:C:H2'	35:BA:2369:A:H8	1.67	0.58
4:AD:133:VAL:HG12	4:AD:135:LEU:H	1.69	0.58
35:DA:1596:A:H5'	35:DA:1597:A:OP2	2.04	0.58
53:BW:110:LYS:HG3	53:BW:111:HIS:ND1	2.19	0.58
35:DA:2863:C:C2'	35:DA:2864:G:H5"	2.34	0.58
38:BD:48:ARG:NH1	38:BD:48:ARG:HG3	2.18	0.58
38:DD:211:ARG:CG	38:DD:211:ARG:HH11	2.17	0.58
38:DD:83:GLU:HB2	38:DD:92:ILE:HD11	1.86	0.58
41:DG:38:VAL:CA	41:DG:158:ALA:HB3	2.34	0.58
50:BT:35:LYS:HZ1	50:BT:41:ARG:HE	1.52	0.58
52:BV:18:LEU:CD2	52:BV:19:LYS:H	2.08	0.58
52:BV:34:GLU:CB	52:BV:62:LEU:HD12	2.33	0.58
42:DH:136:ILE:HD12	42:DH:136:ILE:N	2.17	0.58
42:DH:89:ILE:CD1	42:DH:129:THR:HB	2.33	0.58
28:B2:31:GLU:O	28:B2:37:PHE:HB2	2.03	0.58
39:DE:49:LEU:O	39:DE:78:LEU:HA	2.03	0.58
41:BG:142:PRO:HG2	41:BG:143:GLU:H	1.69	0.58
32:D6:10:LEU:HD22	32:D6:10:LEU:N	2.18	0.58
47:DQ:141:GLN:C	56:DZ:53:ILE:HB	2.24	0.58
3:CC:130:VAL:HA	3:CC:133:ALA:HB3	1.86	0.58
3:CC:130:VAL:O	3:CC:134:ILE:HG13	2.04	0.58
40:BF:3:GLU:HA	40:BF:24:LEU:HB3	1.85	0.58
27:D1:15:ALA:O	27:D1:46:LEU:HD23	2.02	0.58
46:DP:62:LEU:O	46:DP:62:LEU:HD22	2.03	0.58
55:BY:98:VAL:O	55:BY:99:CYS:SG	2.62	0.58
35:BA:2707:G:H2'	35:BA:2708:G:H8	1.68	0.58
50:BT:101:PHE:CD2	50:BT:102:ILE:N	2.70	0.58
49:DS:87:PHE:O	49:DS:88:ASP:HB2	2.02	0.58
35:DA:2241:A:H2'	35:DA:2242:G:H8	1.69	0.58
44:DN:24:GLY:HA2	44:DN:27:ALA:HB3	1.84	0.58
6:CF:10:LEU:HD13	6:CF:61:LEU:HD11	1.86	0.58
15:CO:70:LEU:HD23	15:CO:78:TYR:HA	1.85	0.58
2:CB:79:ASP:O	2:CB:82:ARG:N	2.36	0.58
4:AD:100:ARG:CZ	4:AD:137:SER:HA	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:18:LYS:CE	4:AD:31:CYS:HB3	2.33	0.58
35:DA:2619:C:OP1	39:DE:152:LYS:HD3	2.04	0.58
1:CA:192:U:H2'	1:CA:193:C:H6	1.68	0.58
25:AY:164:ILE:HG22	25:AY:165:THR:N	2.19	0.58
1:CA:569:C:H42	1:CA:881:G:H1	1.51	0.58
44:BN:78:TYR:N	44:BN:79:PRO:HD2	2.18	0.58
33:B7:19:ARG:HD3	35:BA:125:G:H5'	1.84	0.58
43:DI:8:PRO:HD3	43:DI:15:VAL:CG1	2.34	0.58
46:DP:85:LEU:HA	46:DP:88:LEU:CB	2.30	0.58
12:AL:70:ILE:HG13	12:AL:100:ILE:HD12	1.85	0.58
46:BP:144:GLU:N	46:BP:145:PRO:HD3	2.18	0.58
16:CP:71:ARG:HA	16:CP:74:LEU:HD12	1.86	0.58
1:CA:680:C:O2'	1:CA:681:C:H5'	2.04	0.58
35:DA:2114:A:C2'	35:DA:2115:G:H5'	2.34	0.58
1:AA:112:G:O2'	1:AA:113:G:H5'	2.04	0.58
1:CA:10:A:H2'	1:CA:11:G:H8	1.68	0.58
3:AC:88:ARG:HG2	3:AC:101:LEU:HB2	1.86	0.58
35:DA:470:A:C2	35:DA:471:A:C4	2.91	0.58
26:B0:38:VAL:HG23	26:B0:59:LEU:HB2	1.85	0.58
35:BA:268:C:H42	35:BA:424:G:H1	1.52	0.58
35:DA:1448:G:H2'	35:DA:1449:A:C8	2.38	0.58
1:CA:337:C:H2'	1:CA:338:A:C8	2.35	0.58
10:AJ:23:ILE:HG22	10:AJ:23:ILE:O	2.04	0.58
10:AJ:75:ILE:HG13	10:AJ:76:ASN:N	2.18	0.58
7:CG:146:GLU:O	7:CG:149:ARG:HB2	2.03	0.58
35:BA:42:G:H2'	35:BA:43:A:C8	2.39	0.58
50:DT:129:ARG:CZ	50:DT:131:ALA:HB3	2.33	0.58
16:CP:53:VAL:HG23	16:CP:54:GLU:H	1.68	0.58
1:AA:936:C:O2'	1:AA:937:A:H5'	2.03	0.58
35:BA:66:C:H2'	35:BA:67:U:H5'	1.86	0.58
1:AA:788:U:C4	1:AA:789:U:C5	2.92	0.58
1:CA:758:G:O5'	1:CA:758:G:H8	1.86	0.58
37:DC:196:LEU:C	37:DC:198:ALA:H	2.07	0.58
2:CB:224:GLN:HG2	2:CB:224:GLN:O	2.02	0.58
1:AA:127:G:HO2'	17:AQ:2:PRO:N	2.01	0.58
1:AA:361:G:O2'	1:AA:362:G:H5'	2.03	0.58
45:DO:11:ALA:HB1	45:DO:99:PHE:O	2.04	0.58
50:DT:50:ILE:N	50:DT:50:ILE:HD12	2.19	0.58
35:DA:1822:G:H2'	35:DA:1823:G:H8	1.68	0.58
38:DD:181:GLU:HA	38:DD:272:ALA:O	2.03	0.58
41:DG:45:GLU:O	41:DG:47:LYS:N	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BQ:134:ARG:HH12	56:BZ:119:GLU:CD	2.06	0.58
39:BE:49:LEU:O	39:BE:78:LEU:HA	2.03	0.58
52:BV:38:LEU:CD2	52:BV:39:LEU:N	2.65	0.58
52:BV:22:VAL:HG21	52:BV:96:ILE:HD12	1.86	0.58
1:AA:1223:C:P	1:AA:1224:G:H2'	2.43	0.58
35:BA:61:G:H1	35:BA:94:C:H42	1.52	0.58
35:BA:94(A):G:C3'	35:BA:95:G:H5''	2.33	0.58
28:B2:29:LYS:HZ1	54:BX:9:LEU:HA	1.67	0.58
27:B1:87:PRO:O	27:B1:89:GLU:N	2.37	0.58
55:DY:76:CYS:SG	55:DY:77:PRO:CD	2.92	0.58
54:DX:59:VAL:HG23	54:DX:74:PRO:CD	2.32	0.58
35:DA:2468:G:HO2'	35:DA:2476:A:H8	1.52	0.58
47:DQ:114:ALA:C	47:DQ:116:GLU:H	2.05	0.58
4:CD:14:ARG:O	4:CD:16:GLY:N	2.36	0.58
4:CD:176:LEU:CD1	4:CD:177:ASP:H	2.16	0.58
1:CA:995:C:O2'	1:CA:996:A:H5'	2.04	0.58
27:D1:13:ILE:CD1	27:D1:14:VAL:HG12	2.34	0.58
52:BV:75:PHE:HD1	52:BV:87:HIS:O	1.87	0.58
40:DF:3:GLU:CB	40:DF:24:LEU:HG	2.33	0.58
1:AA:1435:G:H2'	1:AA:1436:U:C6	2.39	0.58
1:AA:1479:C:H2'	1:AA:1480:G:C8	2.39	0.58
48:BR:13:HIS:CE1	48:BR:16:HIS:HB2	2.39	0.58
2:CB:222:ILE:HG23	2:CB:223:ILE:N	2.18	0.58
35:DA:8:A:H2'	35:DA:9:U:C6	2.37	0.58
2:CB:69:LEU:CB	2:CB:162:ILE:HG22	2.33	0.58
19:AS:14:HIS:CD2	19:AS:15:LEU:HD22	2.39	0.58
1:AA:881:G:P	12:AL:12:ARG:HH22	2.27	0.58
4:AD:14:ARG:O	4:AD:16:GLY:N	2.36	0.58
7:AG:29:LYS:HB2	7:AG:105:VAL:HG21	1.84	0.58
25:CY:162:GLN:HG3	25:CY:166:ASP:OD2	2.04	0.58
25:AY:170:ALA:C	25:AY:172:ALA:N	2.58	0.58
7:CG:29:LYS:HB2	7:CG:105:VAL:HG21	1.86	0.58
12:CL:9:GLN:O	12:CL:11:VAL:N	2.36	0.58
43:BI:94:ALA:C	43:BI:96:ASP:N	2.57	0.58
7:AG:143:ARG:O	7:AG:147:ALA:HB2	2.03	0.58
46:DP:21:ARG:HH11	46:DP:21:ARG:HG3	1.68	0.58
11:CK:62:GLN:C	11:CK:64:ALA:H	2.07	0.58
8:AH:11:THR:HA	8:AH:14:ARG:HH12	1.68	0.58
9:AI:4:TYR:HB2	9:AI:19:LEU:HD12	1.86	0.58
1:CA:826:C:H2'	1:CA:827:U:C6	2.39	0.58
42:BH:40:GLU:HB2	42:BH:41:MET:SD	2.43	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:134:ARG:HB2	38:BD:135:PHE:HD1	1.69	0.58
1:CA:453:A:C5	1:CA:454:C:C4	2.92	0.58
7:AG:121:ALA:CA	7:AG:124:LEU:HD12	2.34	0.58
1:AA:255:G:O3'	17:AQ:17:LYS:HD2	2.02	0.58
31:D5:2:ALA:N	35:DA:747:U:N3	2.51	0.58
42:BH:136:ILE:HD12	42:BH:136:ILE:N	2.15	0.58
1:AA:460:G:O6	1:AA:470:C:H5''	2.04	0.58
13:CM:78:ILE:HA	13:CM:81:LEU:CD1	2.33	0.58
35:BA:1337:G:H2'	35:BA:1338:G:O4'	2.04	0.58
9:AI:79:LEU:CD2	9:AI:102:LEU:HA	2.32	0.58
48:BR:6:SER:HA	48:BR:8:ARG:NH2	2.19	0.58
38:BD:10:THR:O	38:BD:11:PRO:C	2.38	0.58
44:BN:107:LEU:HD12	44:BN:108:PRO:O	2.03	0.58
1:AA:441:A:H3'	1:AA:442:C:C6	2.38	0.58
35:BA:45:C:H2'	35:BA:47:C:H6	1.68	0.58
53:BW:1:MET:HG3	53:BW:2:GLU:N	2.19	0.58
35:DA:2410:G:N2	35:DA:2411:A:H1'	2.19	0.58
35:BA:2302:G:H1'	41:BG:128:ARG:HG3	1.86	0.58
1:CA:127:G:HO2'	17:CQ:2:PRO:N	2.02	0.58
1:CA:129(A):G:N2	1:CA:189(E):U:H1'	2.19	0.58
31:D5:8:LYS:O	31:D5:9:LYS:HD2	2.03	0.58
43:BI:66:GLU:O	43:BI:70:GLU:HG2	2.04	0.58
42:BH:20:ALA:HB1	42:BH:21:PRO:CD	2.34	0.58
35:BA:332:A:H4'	35:BA:333:G:OP1	2.03	0.58
35:BA:1357:U:O2'	35:BA:1358:G:H5'	2.03	0.58
45:DO:86:ILE:N	45:DO:86:ILE:CD1	2.66	0.58
41:DG:12:TYR:H	41:DG:12:TYR:HD1	1.50	0.58
35:BA:1824:G:OP1	38:BD:52:ARG:HD3	2.04	0.58
38:BD:35:LYS:HE2	38:BD:104:TYR:CG	2.39	0.58
1:CA:1396:A:O4'	1:CA:1398:A:H1'	2.03	0.58
32:B6:27:LYS:HD2	35:BA:2285:C:OP2	2.04	0.58
47:DQ:103:MET:CE	47:DQ:125:LEU:HD21	2.34	0.58
45:BO:63:VAL:HG11	45:BO:85:VAL:HG23	1.86	0.58
56:BZ:10:ARG:HB3	56:BZ:36:LYS:CB	2.29	0.58
39:BE:78:LEU:CD2	39:BE:78:LEU:N	2.67	0.58
51:BU:110:VAL:O	51:BU:114:LYS:N	2.31	0.58
35:DA:2892:A:C5	35:DA:2893:G:H1'	2.38	0.58
2:AB:80:ILE:HG13	2:AB:81:VAL:N	2.18	0.58
34:B8:60:LEU:CD2	34:B8:60:LEU:N	2.67	0.58
35:DA:535:C:O2'	35:DA:536:A:H5'	2.04	0.58
51:DU:49:HIS:O	51:DU:52:ARG:HB2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1202:G:C2'	1:AA:1203:C:H5'	2.34	0.58
1:CA:539:A:OP1	12:CL:114:LYS:HE2	2.04	0.58
35:BA:1024:G:C8	35:BA:1025:G:H2'	2.39	0.58
51:BU:47:TYR:HA	51:BU:50:ARG:NH1	2.18	0.58
48:DR:9:LYS:NZ	48:DR:39:PRO:HA	2.19	0.58
2:AB:158:LEU:H	2:AB:158:LEU:HD12	1.68	0.58
2:AB:55:PHE:CD1	2:AB:58:ILE:HD12	2.39	0.58
27:D1:41:ARG:HH22	35:DA:205:G:H1	1.50	0.58
55:DY:11:ASP:N	55:DY:27:VAL:HG22	2.19	0.58
43:DI:94:ALA:C	43:DI:96:ASP:H	2.05	0.58
25:CY:125:GLY:O	25:CY:128:ALA:HB3	2.04	0.58
12:CL:83:VAL:CG2	12:CL:84:LEU:H	2.08	0.58
7:AG:75:VAL:HA	7:AG:88:PRO:HA	1.86	0.58
11:AK:65:ALA:O	11:AK:68:ALA:HB3	2.04	0.58
35:BA:1427:A:H4'	35:BA:1428:C:O5'	2.04	0.58
1:CA:601:C:O2'	1:CA:602:A:H5'	2.04	0.58
7:AG:152:ALA:O	7:AG:154:TYR:N	2.36	0.58
1:AA:528:C:N4	12:AL:49:ASN:HD22	2.01	0.58
8:AH:27:PRO:HA	8:AH:58:TYR:HA	1.86	0.58
9:AI:17:VAL:CG2	9:AI:81:ILE:HD13	2.34	0.58
9:AI:5:TYR:HA	9:AI:17:VAL:O	2.03	0.58
1:CA:823:G:H21	8:CH:1:MET:HE1	1.69	0.58
18:CR:56:THR:HG21	18:CR:63:GLN:HE22	1.69	0.58
42:DH:12:PRO:O	42:DH:13:LYS:HB2	2.03	0.58
46:BP:106:LEU:HD11	46:BP:112:LEU:HB2	1.86	0.58
7:CG:121:ALA:HA	7:CG:124:LEU:HD12	1.84	0.58
38:DD:134:ARG:HB2	38:DD:135:PHE:CD1	2.37	0.58
1:AA:680:C:O2'	1:AA:681:C:H5'	2.04	0.58
39:DE:104:VAL:O	39:DE:167:VAL:HG12	2.02	0.58
17:CQ:40:LYS:HG2	17:CQ:41:LYS:N	2.19	0.58
1:AA:9:G:H2'	1:AA:10:A:C8	2.39	0.58
19:AS:49:ILE:O	19:AS:60:VAL:HG12	2.04	0.58
25:CY:108:GLU:O	25:CY:111:ARG:N	2.36	0.58
13:AM:9:ILE:CG2	13:AM:11:ARG:HG3	2.33	0.58
19:CS:41:VAL:CB	19:CS:44:MET:HB2	2.34	0.58
35:BA:635:C:O2'	35:BA:636:G:H5'	2.04	0.58
35:DA:1423:G:H2'	35:DA:1424:G:H8	1.69	0.58
1:AA:656:C:H4'	15:AO:62:GLN:HE22	1.68	0.58
15:AO:82:ILE:O	15:AO:82:ILE:HD13	2.04	0.58
54:DX:12:VAL:HG13	54:DX:17:ALA:CB	2.34	0.58
35:DA:1337:G:H2'	35:DA:1338:G:O4'	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:360:G:H2'	35:BA:361:G:H8	1.69	0.58
22:CV:27:G:O2'	22:CV:28:G:H5'	2.04	0.58
35:BA:977:G:O2'	35:BA:978:G:H5'	2.04	0.58
53:DW:1:MET:HG3	53:DW:2:GLU:N	2.19	0.58
1:CA:796:C:P	11:CK:123:LYS:HZ2	2.27	0.58
17:AQ:65:ILE:N	17:AQ:65:ILE:HD12	2.19	0.58
35:BA:40:C:H2'	35:BA:41:C:H6	1.68	0.58
35:BA:1744:C:O2'	35:BA:1745:C:H5'	2.03	0.58
1:CA:524:G:H2'	1:CA:525:C:C6	2.38	0.58
53:BW:29:LEU:O	53:BW:33:ARG:HG3	2.04	0.57
45:DO:80:ASP:O	45:DO:81:ASP:HB3	2.04	0.57
39:DE:12:THR:CG2	50:DT:8:LYS:HE2	2.34	0.57
35:BA:1822:G:H2'	35:BA:1823:G:H8	1.67	0.57
35:BA:782:A:H2	38:BD:226:MET:HG2	1.64	0.57
41:DG:103:LEU:O	41:DG:107:LEU:N	2.37	0.57
41:DG:178:PHE:HB3	41:DG:180:PHE:CE1	2.32	0.57
39:BE:9:VAL:HG22	39:BE:25:VAL:HB	1.85	0.57
50:BT:28:VAL:N	50:BT:88:ILE:HD13	2.18	0.57
39:DE:36:ARG:NH2	39:DE:88:GLY:CA	2.66	0.57
39:DE:59:VAL:HG22	39:DE:63:LEU:HA	1.86	0.57
2:AB:212:GLN:CG	2:AB:235:SER:HB2	2.33	0.57
36:BB:42:C:O4'	41:BG:68:PRO:O	2.21	0.57
55:BY:47:LYS:HG3	55:BY:60:PHE:CZ	2.39	0.57
56:DZ:146:ILE:HA	56:DZ:174:VAL:CG1	2.33	0.57
35:BA:2052:G:N3	39:BE:149:ARG:HA	2.19	0.57
39:BE:120:TRP:NE1	39:BE:155:LYS:HB3	2.18	0.57
39:BE:120:TRP:CE3	39:BE:155:LYS:HD3	2.39	0.57
35:BA:909:A:H1'	47:BQ:10:ARG:HH22	1.69	0.57
20:AT:26:ASN:HD22	20:AT:26:ASN:N	2.02	0.57
35:BA:2846:G:H2'	35:BA:2847:U:C6	2.39	0.57
2:CB:237:ALA:O	2:CB:238:LEU:HB3	2.03	0.57
2:AB:68:ILE:HG22	2:AB:70:PHE:HD1	1.67	0.57
27:D1:23:LYS:HB3	27:D1:23:LYS:HZ2	1.68	0.57
2:CB:169:LYS:HD3	2:CB:169:LYS:O	2.03	0.57
35:DA:590:A:H2'	35:DA:591:C:C6	2.39	0.57
1:CA:714:G:H2'	1:CA:715:A:C8	2.39	0.57
44:DN:78:TYR:N	44:DN:79:PRO:HD2	2.19	0.57
51:DU:34:LYS:HA	51:DU:34:LYS:CE	2.33	0.57
12:CL:26:ALA:O	12:CL:27:LEU:HB2	2.03	0.57
13:CM:115:LYS:O	13:CM:117:VAL:HG23	2.04	0.57
25:AY:150:SER:C	25:AY:152:ASP:H	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:20:TYR:O	11:AK:30:VAL:HA	2.04	0.57
8:AH:96:GLY:O	8:AH:98:LYS:N	2.36	0.57
8:CH:63:LEU:HG	8:CH:65:TYR:OH	2.04	0.57
8:CH:20:TYR:HE2	8:CH:75:ARG:HD2	1.69	0.57
35:DA:464:U:H2'	35:DA:465:G:C8	2.39	0.57
35:BA:2307:G:H21	35:BA:2308:G:H5'	1.68	0.57
39:DE:169:ASN:OD1	39:DE:201:THR:HG21	2.03	0.57
2:AB:97:TRP:NE1	2:AB:101:MET:SD	2.77	0.57
35:BA:1417:C:O2'	35:BA:1418:G:H5'	2.04	0.57
35:BA:1486:A:H61	35:BA:1504:C:H42	1.52	0.57
20:CT:17:ARG:HA	20:CT:20:LEU:HD12	1.86	0.57
20:CT:26:ASN:HD22	20:CT:26:ASN:N	2.00	0.57
1:CA:766:A:H2'	1:CA:767:A:O4'	2.04	0.57
35:BA:916:G:C2'	35:BA:917:A:H5''	2.34	0.57
26:D0:27:GLU:HG3	26:D0:68:GLU:HA	1.86	0.57
38:BD:9:TYR:O	38:BD:10:THR:HG22	2.04	0.57
35:DA:1642:G:H2'	35:DA:1643:G:C8	2.39	0.57
35:DA:2661:G:H2'	35:DA:2662:A:H8	1.68	0.57
35:DA:1292:U:H2'	35:DA:1293:C:C6	2.39	0.57
35:DA:40:C:H2'	35:DA:41:C:H6	1.68	0.57
1:CA:363:A:C5	12:CL:31:PRO:HD2	2.39	0.57
35:BA:319:C:O2'	35:BA:320:A:H5'	2.04	0.57
1:CA:857:C:H2'	1:CA:858:G:O4'	2.04	0.57
3:CC:120:VAL:HA	3:CC:123:GLN:HE21	1.69	0.57
50:DT:83:ILE:HD11	50:DT:84:GLN:HE21	1.67	0.57
35:BA:1568:G:H4'	38:BD:59:LYS:HG3	1.86	0.57
38:BD:160:GLY:H	38:BD:196:VAL:HB	1.69	0.57
38:BD:218:ARG:HB3	38:BD:219:PRO:HD2	1.84	0.57
56:BZ:11:GLU:HB2	56:BZ:13:GLU:HG3	1.85	0.57
44:BN:46:VAL:CG1	44:BN:47:ALA:H	2.00	0.57
51:BU:98:LEU:O	51:BU:101:ARG:N	2.37	0.57
51:BU:92:ARG:HB3	52:BV:11:GLN:CD	2.25	0.57
28:B2:22:GLU:HA	28:B2:25:VAL:HG12	1.85	0.57
35:BA:380:U:H2'	35:BA:381:G:C8	2.37	0.57
35:BA:2315:G:H2'	35:BA:2316:C:H6	1.67	0.57
41:BG:138:GLN:HG2	41:BG:153:ARG:H	1.68	0.57
41:BG:37:VAL:HB	41:BG:94:LEU:HB2	1.85	0.57
41:BG:51:ARG:NE	41:BG:51:ARG:HA	2.19	0.57
42:BH:89:ILE:N	42:BH:89:ILE:HD13	2.19	0.57
35:DA:902:C:H2'	35:DA:903:C:C6	2.39	0.57
56:DZ:45:ASP:O	56:DZ:49:ARG:HG2	2.03	0.57

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:67:GLN:O	40:BF:68:LYS:HG2	2.05	0.57
55:BY:74:PRO:O	55:BY:75:ILE:CB	2.52	0.57
48:BR:42:LYS:HG3	48:BR:45:ARG:NH2	2.18	0.57
48:BR:52:ILE:O	48:BR:55:ALA:N	2.37	0.57
6:CF:27:GLN:HE21	6:CF:27:GLN:HA	1.69	0.57
35:DA:812:C:C2	35:DA:1250:G:N1	2.72	0.57
46:DP:39:LYS:HD3	46:DP:40:SER:N	2.19	0.57
35:DA:692:C:H2'	35:DA:693:C:H6	1.69	0.57
1:CA:1406:U:O2'	1:CA:1407:C:H5'	2.04	0.57
51:DU:31:SER:O	51:DU:33:ARG:N	2.37	0.57
42:DH:20:ALA:HB1	42:DH:21:PRO:CD	2.34	0.57
42:DH:19:VAL:CG2	42:DH:44:VAL:HA	2.32	0.57
16:AP:64:ALA:O	16:AP:65:GLN:C	2.42	0.57
7:CG:95:ARG:O	7:CG:96:GLN:C	2.43	0.57
35:BA:2645:G:C3'	35:BA:2646:C:H5'	2.28	0.57
1:CA:600:C:H5'	8:CH:129:VAL:O	2.05	0.57
1:AA:599:C:H2'	1:AA:600:C:H6	1.67	0.57
1:CA:877:C:H5''	8:CH:88:LYS:HD2	1.86	0.57
12:CL:90:VAL:O	12:CL:92:ASP:N	2.34	0.57
1:CA:1248:A:H2'	1:CA:1249:C:H5'	1.85	0.57
33:D7:34:ARG:O	33:D7:35:ARG:C	2.41	0.57
16:CP:71:ARG:NH1	16:CP:71:ARG:HG3	2.20	0.57
18:CR:86:VAL:HG12	18:CR:87:ARG:NH1	2.19	0.57
2:AB:102:LEU:H	2:AB:102:LEU:HD12	1.67	0.57
7:AG:69:VAL:HG22	7:AG:135:VAL:HG22	1.86	0.57
35:DA:1298:C:H2'	35:DA:1299:G:C8	2.39	0.57
32:D6:14:THR:O	32:D6:49:HIS:HA	2.04	0.57
1:CA:103:C:H2'	1:CA:104:G:H8	1.70	0.57
16:AP:45:THR:HG22	16:AP:47:ASP:N	2.19	0.57
16:CP:14:ASN:N	16:CP:15:PRO:CD	2.67	0.57
45:BO:13:ASN:HD22	45:BO:97:ARG:CB	2.18	0.57
40:DF:31:HIS:O	40:DF:32:LEU:C	2.43	0.57
10:AJ:94:VAL:HG12	10:AJ:95:GLU:N	2.19	0.57
13:AM:76:ALA:HA	13:AM:79:LYS:HD2	1.85	0.57
17:CQ:12:SER:HB3	17:CQ:20:THR:OG1	2.04	0.57
6:AF:43:LEU:H	6:AF:43:LEU:CD1	2.17	0.57
11:CK:86:GLY:H	11:CK:112:THR:CG2	2.17	0.57
46:BP:86:LYS:HB3	46:BP:117:GLU:C	2.24	0.57
35:DA:2364:C:O2'	35:DA:2365:G:H5'	2.03	0.57
1:AA:1160:G:OP1	2:AB:132:LYS:HE3	2.04	0.57
17:AQ:56:VAL:HG23	17:AQ:78:GLU:O	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DP:92:GLU:HG3	46:DP:93:GLY:N	2.20	0.57
1:AA:159:G:N1	1:AA:163:C:N4	2.53	0.57
1:AA:1494:G:H5''	35:BA:1913:A:C6	2.40	0.57
13:CM:87:TYR:N	19:CS:73:GLU:O	2.33	0.57
3:AC:120:VAL:HA	3:AC:123:GLN:HE21	1.69	0.57
8:AH:91:ARG:HG2	8:AH:91:ARG:HH11	1.69	0.57
50:DT:102:ILE:CA	50:DT:110:ILE:HD11	2.34	0.57
50:DT:23:ARG:NH2	50:DT:120:ARG:HD3	2.20	0.57
35:BA:1821:A:H2'	35:BA:1822:G:H8	1.68	0.57
38:BD:183:ARG:HG2	38:BD:183:ARG:NH1	2.18	0.57
38:BD:34:VAL:HG22	38:BD:35:LYS:HZ2	1.69	0.57
50:BT:86:ILE:HG12	50:BT:87:ASP:O	2.04	0.57
35:DA:1418:G:N1	35:DA:1579:A:H5'	2.19	0.57
35:BA:528:A:C2	35:BA:2043:C:C5'	2.83	0.57
51:BU:102:GLU:O	51:BU:105:VAL:HG23	2.04	0.57
52:BV:19:LYS:HZ2	52:BV:20:LEU:N	1.91	0.57
52:BV:4:ILE:HD12	52:BV:40:LEU:HD11	1.86	0.57
42:DH:109:PHE:CE1	42:DH:152:ARG:NE	2.72	0.57
10:AJ:48:THR:HG23	10:AJ:61:GLU:C	2.25	0.57
28:B2:56:GLN:OE1	35:BA:76:C:H1'	2.04	0.57
39:DE:79:ARG:HH11	39:DE:79:ARG:HG2	1.68	0.57
27:B1:73:LEU:O	27:B1:76:ARG:HG2	2.03	0.57
41:BG:85:GLY:O	41:BG:87:PRO:HD3	2.05	0.57
54:DX:36:LYS:HD3	54:DX:38:GLU:HB2	1.86	0.57
51:DU:92:ARG:CG	51:DU:94:ASN:HB3	2.35	0.57
52:DV:38:LEU:CD2	52:DV:39:LEU:N	2.63	0.57
1:CA:409:G:H2'	1:CA:410:G:O4'	2.04	0.57
4:CD:118:ARG:O	4:CD:121:VAL:HB	2.04	0.57
1:CA:1057:G:H5''	3:CC:154:SER:OG	2.04	0.57
27:D1:66:HIS:C	27:D1:68:PRO:HD2	2.24	0.57
34:D8:38:GLY:C	34:D8:40:GLU:H	2.07	0.57
35:BA:1224:C:O3'	52:BV:88:ARG:HB3	2.05	0.57
35:BA:588:U:O4	35:BA:670:A:O2'	2.21	0.57
20:AT:19:SER:O	20:AT:23:ARG:N	2.35	0.57
20:AT:32:ALA:O	20:AT:36:LEU:HD23	2.04	0.57
49:DS:83:LYS:HE3	49:DS:84:GLN:HG3	1.87	0.57
2:AB:71:VAL:CG2	2:AB:93:VAL:HG23	2.32	0.57
2:CB:187:LEU:CA	2:CB:201:ILE:HB	2.34	0.57
35:DA:836:G:H2'	35:DA:837:C:H6	1.67	0.57
46:DP:50:ARG:CZ	46:DP:51:PHE:CZ	2.88	0.57
1:AA:404:U:H2'	1:AA:405:U:H6	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:154:ASN:CB	4:AD:159:ARG:HH21	2.17	0.57
55:DY:16:ALA:HA	55:DY:21:LYS:HD2	1.86	0.57
1:AA:569:C:H42	1:AA:881:G:H1	1.53	0.57
35:BA:2469:A:H3'	35:BA:2470:G:O4'	2.04	0.57
1:CA:1511:G:H8	1:CA:1511:G:O5'	1.86	0.57
44:DN:78:TYR:CD1	44:DN:79:PRO:HD3	2.39	0.57
25:CY:126:ARG:O	25:CY:127:VAL:C	2.43	0.57
25:CY:6:LEU:O	25:CY:6:LEU:HD22	2.05	0.57
25:AY:60:ALA:HB2	25:AY:66:LEU:HG	1.86	0.57
8:AH:119:LEU:HD12	8:AH:124:ALA:N	2.18	0.57
1:AA:1508:G:H2'	1:AA:1509:C:H6	1.70	0.57
35:DA:540:C:H2'	35:DA:541:C:C5	2.39	0.57
46:BP:112:LEU:O	46:BP:128:HIS:HB2	2.04	0.57
1:CA:625:G:C4	1:CA:626:U:C5	2.92	0.57
11:CK:21:ILE:CB	11:CK:84:VAL:HG12	2.33	0.57
18:CR:87:ARG:CZ	18:CR:87:ARG:HB3	2.34	0.57
1:CA:815:A:N7	1:CA:1509:C:O2'	2.37	0.57
5:CE:103:GLY:O	5:CE:106:PRO:HD2	2.04	0.57
13:CM:77:ASN:O	13:CM:81:LEU:HG	2.05	0.57
19:AS:41:VAL:HB	19:AS:44:MET:CB	2.35	0.57
26:D0:27:GLU:HB2	26:D0:69:PHE:HD1	1.66	0.57
1:AA:341:C:O2'	1:AA:342:C:H5'	2.04	0.57
1:CA:1298:C:H1'	1:CA:1299:A:C2	2.39	0.57
2:CB:39:ILE:CG2	2:CB:40:HIS:N	2.66	0.57
35:DA:45:C:OP2	35:DA:215:G:H2'	2.05	0.57
45:DO:88:ASN:OD1	45:DO:92:GLU:N	2.31	0.57
1:CA:688:G:H5'	11:CK:46:GLY:O	2.03	0.57
1:CA:899:C:H2'	1:CA:900:A:O4'	2.04	0.57
5:AE:15:ARG:HG3	5:AE:28:PHE:CE2	2.39	0.57
35:DA:2455:G:H2'	35:DA:2456:C:C6	2.39	0.57
35:BA:1910:G:C6	35:BA:1921:G:C6	2.93	0.57
35:BA:827:U:H2'	35:BA:2068:U:N3	2.20	0.57
1:CA:83:U:H2'	1:CA:84:U:C6	2.40	0.57
35:BA:2683:C:H5''	50:BT:53:ARG:HH22	1.67	0.57
39:BE:200:GLU:OE2	39:BE:200:GLU:N	2.37	0.57
39:BE:36:ARG:HA	39:BE:46:ALA:O	2.04	0.57
1:AA:1190:G:C8	3:AC:3:ASN:ND2	2.71	0.57
29:B3:31:LEU:CD2	29:B3:32:GLN:H	2.16	0.57
1:AA:972:C:H5'	10:AJ:57:LYS:NZ	2.19	0.57
28:B2:32:LEU:HD11	28:B2:33:MET:SD	2.45	0.57
54:BX:55:ASN:O	54:BX:77:LYS:CB	2.53	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B1:76:ARG:HA	27:B1:76:ARG:NE	2.18	0.57
34:B8:11:LYS:HG2	34:B8:11:LYS:O	2.04	0.57
28:D2:14:ARG:O	28:D2:16:LEU:N	2.38	0.57
54:DX:32:PRO:HD3	54:DX:72:LYS:NZ	2.19	0.57
56:DZ:144:LEU:HD11	56:DZ:150:LEU:HD13	1.87	0.57
49:BS:25:ARG:HH21	49:BS:89:ARG:NH1	1.96	0.57
49:BS:26:LEU:HD22	49:BS:87:PHE:CE1	2.39	0.57
44:BN:74:ARG:NH2	44:BN:101:HIS:O	2.35	0.57
35:BA:618:C:H2'	35:BA:619:G:O4'	2.04	0.57
40:BF:24:LEU:HB3	40:BF:25:PRO:CD	2.35	0.57
46:BP:16:ARG:CD	46:BP:16:ARG:C	2.73	0.57
35:BA:2579:C:C2'	35:BA:2580:U:H5'	2.34	0.57
44:DN:72:TYR:HB3	44:DN:74:ARG:HG2	1.86	0.57
35:DA:1451:C:H4'	35:DA:1452:A:C8	2.39	0.57
48:DR:60:LEU:O	48:DR:61:HIS:C	2.43	0.57
6:CF:30:LEU:HB3	6:CF:35:ALA:CB	2.34	0.57
6:CF:76:ALA:HB1	6:CF:80:ARG:HH21	1.68	0.57
2:CB:55:PHE:CD1	2:CB:58:ILE:HD12	2.40	0.57
35:DA:587:C:C4	46:DP:33:ARG:HD2	2.39	0.57
40:DF:65:TRP:HH2	40:DF:75:HIS:HD2	1.49	0.57
1:AA:409:G:H2'	1:AA:410:G:O4'	2.03	0.57
4:AD:153:ARG:HB3	4:AD:153:ARG:HH11	1.69	0.57
4:AD:176:LEU:HD21	4:AD:178:VAL:HG22	1.84	0.57
16:AP:60:LEU:C	16:AP:62:VAL:H	2.08	0.57
35:DA:514:A:H1'	35:DA:581:C:O2'	2.04	0.57
25:AY:17:SER:HB3	25:AY:132:ILE:HD11	1.87	0.57
35:BA:2019:A:O3'	51:BU:27:LEU:HD12	2.05	0.57
35:BA:692:C:H2'	35:BA:693:C:C6	2.40	0.57
7:AG:143:ARG:HH11	7:AG:143:ARG:CB	2.18	0.57
12:CL:37:CYS:SG	12:CL:81:SER:HB2	2.45	0.57
35:DA:455:C:H3'	35:DA:456:C:H5''	1.86	0.57
40:BF:167:ALA:HB1	40:BF:173:VAL:HG11	1.87	0.57
11:CK:20:TYR:O	11:CK:30:VAL:HA	2.05	0.57
17:CQ:58:GLU:HB2	17:CQ:74:LEU:HB3	1.86	0.57
1:CA:1056:U:H5'	3:CC:163:ALA:CB	2.34	0.57
26:D0:53:MET:HG3	26:D0:59:LEU:HD23	1.86	0.57
35:BA:2802:G:O2'	35:BA:2803:C:C5'	2.52	0.57
11:AK:99:GLN:HE22	11:AK:105:VAL:HG11	1.69	0.57
35:BA:30:G:O2'	35:BA:31:C:H5'	2.05	0.57
35:DA:292:C:N4	35:DA:348:G:H1	2.01	0.57
2:AB:39:ILE:CG2	2:AB:40:HIS:N	2.67	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D5:43:HIS:CD2	31:D5:43:HIS:N	2.71	0.57
43:DI:58:LEU:C	43:DI:60:GLU:H	2.08	0.57
35:BA:1108:U:C2'	35:BA:1109:C:H5'	2.34	0.57
35:DA:2881:C:C2	35:DA:2882:A:C8	2.92	0.57
53:DW:1:MET:HA	53:DW:1:MET:HE3	1.84	0.57
52:DV:52:VAL:O	52:DV:54:GLY:N	2.37	0.57
1:AA:634:C:O2'	1:AA:635:G:H5'	2.03	0.57
43:BI:75:LEU:HD11	43:BI:105:HIS:HE1	1.70	0.57
34:B8:51:ALA:HA	34:B8:54:GLU:OE1	2.03	0.57
53:BW:37:ARG:HG3	53:BW:37:ARG:HH11	1.69	0.57
38:DD:169:GLU:O	38:DD:171:ASP:N	2.36	0.57
1:AA:1175:G:H2'	1:AA:1176:A:C8	2.40	0.57
35:DA:1695:G:H2'	35:DA:1696:G:O4'	2.05	0.57
1:CA:1222:G:H5''	19:CS:78:ARG:HH11	1.69	0.57
1:CA:1223:C:P	1:CA:1224:G:H2'	2.44	0.57
35:DA:1779:U:C2	35:DA:1783:A:N7	2.72	0.57
50:BT:78:LEU:O	50:BT:79:HIS:ND1	2.37	0.57
50:BT:89:VAL:CG1	50:BT:91:ARG:HE	2.17	0.57
56:BZ:7:ALA:O	56:BZ:38:TYR:O	2.22	0.57
51:BU:106:PHE:O	51:BU:110:VAL:HG23	2.04	0.57
42:DH:149:ARG:HA	42:DH:162:ILE:CD1	2.34	0.57
28:B2:43:GLN:O	28:B2:46:GLN:HB3	2.04	0.57
39:DE:52:LEU:N	39:DE:74:PRO:HB2	2.19	0.57
27:B1:48:LYS:HG3	27:B1:49:VAL:N	2.13	0.57
41:BG:173:LEU:HD12	41:BG:178:PHE:CZ	2.40	0.57
35:BA:2666:C:H2'	35:BA:2667:C:O4'	2.05	0.57
56:DZ:119:GLU:OE1	56:DZ:122:ARG:HB3	2.04	0.57
35:DA:2625:G:H2'	35:DA:2626:C:C6	2.38	0.57
52:DV:4:ILE:HD12	52:DV:40:LEU:HD11	1.86	0.57
47:BQ:20:ALA:CA	47:BQ:98:LYS:HB3	2.34	0.57
25:AY:75:ALA:O	25:AY:79:ILE:HG13	2.03	0.57
27:D1:89:GLU:CD	27:D1:89:GLU:N	2.57	0.57
35:BA:1197:G:H2'	35:BA:1198:U:H6	1.69	0.57
35:BA:2081:C:H2'	35:BA:2082:A:H8	1.68	0.57
46:BP:50:ARG:HD2	46:BP:51:PHE:CG	2.39	0.57
2:AB:187:LEU:CA	2:AB:201:ILE:HB	2.34	0.57
44:DN:26:LEU:HD21	44:DN:30:ILE:HD11	1.84	0.57
4:AD:22:LYS:HB2	4:AD:26:CYS:CB	2.24	0.57
47:DQ:87:LYS:O	47:DQ:88:GLY:O	2.22	0.57
1:CA:1524:C:H5''	11:CK:120:ARG:HH12	1.69	0.57
25:CY:19:GLU:O	25:CY:22:GLU:HB2	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:AU:17:THR:O	21:AU:22:ARG:HD3	2.05	0.57
20:CT:48:LYS:O	20:CT:49:ALA:HB2	2.04	0.57
25:AY:28:LEU:O	25:AY:30:THR:HG23	2.03	0.57
25:AY:29:ARG:HB3	25:AY:32:ARG:NH2	2.18	0.57
35:BA:2619:C:OP1	39:BE:152:LYS:HD3	2.04	0.57
35:DA:2748:A:H2	42:DH:63:SER:HB3	1.67	0.57
35:DA:2753:A:H2	35:DA:2754:U:C2	2.22	0.57
2:CB:171:ALA:O	2:CB:174:VAL:HB	2.05	0.57
7:AG:84:ASN:ND2	7:AG:84:ASN:N	2.53	0.57
23:AW:39:A:C2'	23:AW:40:C:H5'	2.35	0.57
46:DP:16:ARG:CD	46:DP:16:ARG:C	2.73	0.57
35:BA:2600:A:C2'	35:BA:2601:C:H5'	2.33	0.57
46:DP:91:PHE:N	46:DP:91:PHE:CD1	2.72	0.57
9:CI:5:TYR:HA	9:CI:17:VAL:O	2.05	0.57
35:DA:464:U:H2'	35:DA:465:G:O4'	2.03	0.57
35:DA:549:G:H2'	35:DA:551:G:O4'	2.05	0.57
38:BD:134:ARG:HB2	38:BD:135:PHE:CD1	2.40	0.57
38:DD:108:PRO:HG2	38:DD:111:LEU:HB2	1.86	0.57
1:CA:708:C:O2'	1:CA:709:G:H5'	2.05	0.57
42:BH:138:LYS:H	42:BH:141:VAL:HG23	1.69	0.57
20:CT:16:HIS:O	20:CT:19:SER:HB2	2.04	0.57
19:CS:49:ILE:O	19:CS:60:VAL:HG12	2.04	0.57
37:BC:68:LEU:HB3	37:BC:70:LYS:HG2	1.86	0.57
35:BA:1292:U:H2'	35:BA:1293:C:C6	2.40	0.57
2:AB:137:ARG:HG2	2:AB:137:ARG:NH1	2.20	0.57
1:CA:644:G:O2'	1:CA:645:C:H5'	2.04	0.57
1:AA:178:C:H2'	1:AA:179:A:H8	1.69	0.57
53:DW:5:ALA:HB3	53:DW:105:VAL:H	1.68	0.57
4:CD:193:ASP:HB2	4:CD:194:LEU:HD22	1.85	0.57
35:BA:2839:G:H21	48:BR:92:GLY:HA3	1.70	0.57
23:AW:51:U:H3	23:AW:65:G:H1	1.51	0.57
4:CD:133:VAL:HG12	4:CD:135:LEU:H	1.69	0.57
1:CA:176:C:H2'	1:CA:177:C:H6	1.68	0.57
35:DA:2828:C:H2'	35:DA:2829:C:C6	2.39	0.57
1:CA:272:C:O2'	1:CA:273:A:H5'	2.04	0.57
6:CF:78:GLU:O	6:CF:81:ILE:HG13	2.05	0.57
35:BA:1009:A:H2'	35:BA:1010:A:C8	2.39	0.57
15:AO:6:GLU:CD	15:AO:6:GLU:H	2.08	0.57
35:DA:1623:G:H2'	35:DA:1624:G:H8	1.70	0.57
35:BA:2380:C:H2'	35:BA:2381:C:C6	2.40	0.57
35:DA:325:G:H2'	35:DA:326:G:H8	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DT:85:LYS:HG2	50:DT:85:LYS:O	2.05	0.57
35:BA:773:U:H4'	38:BD:47:GLY:HA2	1.87	0.57
35:BA:1820:U:C2	38:BD:202:LYS:HB3	2.40	0.57
38:BD:81:ALA:N	38:BD:94:LEU:HD11	2.20	0.57
35:DA:1819:A:H1'	35:DA:1821:A:C6	2.40	0.57
38:DD:259:THR:O	38:DD:260:ARG:C	2.42	0.57
35:BA:1999:C:H2'	35:BA:2000:G:C8	2.38	0.57
47:BQ:32:TYR:HD1	47:BQ:32:TYR:H	1.51	0.57
56:BZ:48:PHE:CE2	56:BZ:52:SER:HA	2.39	0.57
56:BZ:81:ARG:O	56:BZ:82:ARG:C	2.42	0.57
35:DA:2512:C:H4'	39:DE:122:PHE:CZ	2.40	0.57
1:AA:974:A:C1'	14:AN:31:ARG:HH21	2.17	0.57
35:BA:141:A:H8	35:BA:1408:C:HO2'	1.50	0.57
54:BX:35:THR:O	54:BX:39:ILE:HG23	2.05	0.57
27:B1:47:GLN:HE21	27:B1:64:ALA:CB	2.18	0.57
41:BG:138:GLN:CG	41:BG:153:ARG:H	2.17	0.57
41:BG:174:GLU:HG3	41:BG:182:LYS:NZ	2.19	0.57
28:D2:12:GLU:O	28:D2:12:GLU:OE1	2.23	0.57
54:DX:83:VAL:O	54:DX:85:PRO:HD3	2.05	0.57
42:BH:159:GLU:OE1	42:BH:159:GLU:HA	2.05	0.57
10:AJ:4:ILE:HB	10:AJ:74:ILE:CG1	2.34	0.57
36:BB:55:U:O2'	36:BB:56:G:H5'	2.05	0.57
4:CD:33:MET:HA	4:CD:33:MET:CE	2.34	0.57
3:CC:138:VAL:CG2	3:CC:151:VAL:HG23	2.35	0.57
46:BP:70:GLN:CG	46:BP:71:VAL:H	2.16	0.57
40:BF:88:VAL:CG2	40:BF:89:VAL:N	2.67	0.57
46:BP:39:LYS:CD	46:BP:40:SER:N	2.61	0.57
40:DF:41:LEU:HD23	40:DF:44:ARG:HD3	1.87	0.57
48:DR:28:LEU:C	48:DR:30:THR:H	2.08	0.57
6:CF:87:ARG:HG3	6:CF:87:ARG:HH11	1.69	0.57
46:DP:148:LEU:HD13	46:DP:148:LEU:H	1.70	0.57
43:BI:10:GLU:O	43:BI:11:ASN:HB3	2.04	0.57
25:AY:21:LEU:O	25:AY:25:LEU:HG	2.05	0.57
33:B7:30:VAL:HG23	33:B7:31:LEU:N	2.20	0.57
43:BI:102:SER:HA	43:BI:107:VAL:O	2.04	0.57
55:BY:68:HIS:HB3	55:BY:71:LYS:CE	2.34	0.57
1:AA:959:A:H2'	1:AA:960:U:H4'	1.87	0.57
35:DA:619:G:P	35:DA:620:G:H22	2.26	0.57
1:AA:924:C:H2'	1:AA:925:G:C8	2.38	0.57
12:AL:119:LYS:O	12:AL:120:TYR:HB2	2.05	0.57
35:BA:2744:G:O2'	35:BA:2745:C:H5'	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:26:VAL:HG13	9:CI:63:ILE:HD11	1.86	0.57
46:DP:83:VAL:HG23	46:DP:105:LEU:HD22	1.87	0.57
46:DP:112:LEU:O	46:DP:128:HIS:HB2	2.05	0.57
46:BP:99:LEU:O	46:BP:102:ARG:HB3	2.04	0.57
35:BA:709:U:H2'	35:BA:710:G:C8	2.37	0.57
35:DA:1006:C:H2'	35:DA:1007:C:C6	2.40	0.57
35:DA:2589:A:H2'	35:DA:2590:A:H8	1.69	0.57
45:DO:22:ILE:H	45:DO:41:ALA:HA	1.70	0.57
35:DA:962:G:O2'	35:DA:963:U:H5'	2.04	0.57
35:BA:1234:U:H2'	35:BA:1234:U:O2	2.04	0.57
32:B6:39:TYR:CE1	35:BA:2347:C:H4'	2.35	0.57
35:BA:1399:C:H2'	35:BA:1400:G:H8	1.68	0.57
35:BA:1528(A):A:H2'	35:BA:1529:G:H5''	1.85	0.57
1:CA:280:C:O2	17:CQ:38:ARG:HG3	2.04	0.57
26:B0:27:GLU:HB2	26:B0:69:PHE:HD1	1.70	0.57
3:AC:127:ARG:HG2	3:AC:127:ARG:NH1	2.20	0.57
7:AG:36:LYS:HB2	7:AG:36:LYS:HZ2	1.69	0.57
38:BD:125:ILE:O	38:BD:125:ILE:HG22	2.04	0.57
35:DA:1523:U:H2'	35:DA:1524:G:C8	2.39	0.57
40:BF:22:ALA:CA	40:BF:26:ALA:HB2	2.35	0.57
37:BC:55:ASP:CG	37:BC:56:GLN:H	2.08	0.57
38:DD:204:ILE:O	38:DD:204:ILE:HG13	2.05	0.57
35:DA:1993:U:O2'	35:DA:1994:C:H5'	2.05	0.57
35:DA:1998:G:H2'	35:DA:1999:C:H6	1.70	0.57
35:DA:2685:G:C2	35:DA:2686:G:N7	2.73	0.57
45:DO:79:PHE:CE2	45:DO:101:PRO:HB2	2.31	0.57
38:BD:19:ALA:O	38:BD:21:PHE:CE1	2.58	0.57
35:DA:1902:C:C5'	38:DD:246:PRO:HD3	2.34	0.57
41:DG:38:VAL:HB	41:DG:158:ALA:CB	2.35	0.57
32:B6:30:THR:HG21	35:BA:2286:A:OP1	2.04	0.57
45:BO:89:ASN:C	45:BO:91:LEU:H	2.07	0.57
56:BZ:10:ARG:NE	56:BZ:36:LYS:HB3	2.19	0.57
35:BA:996:A:H2'	35:BA:997:G:H8	1.69	0.57
51:BU:106:PHE:CA	51:BU:109:LEU:HD12	2.30	0.57
51:BU:92:ARG:HH22	52:BV:10:LYS:HA	1.70	0.57
10:AJ:62:HIS:O	14:AN:59:ALA:HB3	2.04	0.57
28:B2:23:LYS:CA	54:BX:5:TYR:HE1	2.17	0.57
27:B1:13:ILE:HG23	27:B1:14:VAL:H	1.70	0.57
42:BH:96:ALA:HB2	42:BH:105:LEU:HB3	1.86	0.57
56:DZ:10:ARG:HG3	56:DZ:38:TYR:N	2.20	0.57
56:DZ:104:PHE:CD1	56:DZ:139:VAL:HG11	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DZ:23:LYS:HD2	56:DZ:38:TYR:HD1	1.70	0.57
35:DA:559:G:H22	51:DU:49:HIS:CD2	2.23	0.57
51:DU:55:ARG:HA	51:DU:58:ARG:HD2	1.87	0.57
52:DV:38:LEU:O	52:DV:39:LEU:HD22	2.05	0.57
1:CA:1190:G:C8	3:CC:3:ASN:ND2	2.70	0.57
4:CD:170:VAL:HG13	4:CD:171:GLY:N	2.18	0.57
40:DF:20:LEU:HB3	40:DF:23:ASP:OD2	2.04	0.57
35:DA:1275:A:C4	48:DR:16:HIS:CE1	2.92	0.57
50:BT:102:ILE:CA	50:BT:110:ILE:HD11	2.35	0.57
2:CB:71:VAL:O	2:CB:164:VAL:HA	2.05	0.57
35:DA:793:A:OP2	35:DA:2071:A:O2'	2.20	0.57
1:AA:1491:G:H5''	1:AA:1492:A:OP1	2.04	0.57
55:DY:68:HIS:ND1	55:DY:69:ALA:N	2.52	0.57
4:AD:8:VAL:O	4:AD:10:ARG:HB3	2.05	0.57
6:AF:68:PRO:CG	6:AF:71:ARG:HE	2.18	0.57
25:CY:17:SER:O	25:CY:20:VAL:HB	2.05	0.57
1:CA:1268:A:H4'	21:CU:20:LYS:N	2.19	0.57
1:CA:1444:C:N4	1:CA:1458:G:H1	2.03	0.57
1:CA:582:U:H2'	1:CA:583:A:C8	2.40	0.57
2:CB:97:TRP:NE1	2:CB:101:MET:SD	2.78	0.57
1:AA:637:G:H2'	1:AA:638:G:H8	1.69	0.57
8:AH:97:VAL:HG13	8:AH:98:LYS:N	2.14	0.57
1:AA:1507:A:N1	1:AA:1530:G:C4	2.72	0.57
31:D5:52:TYR:HA	31:D5:56:LYS:HZ2	1.69	0.57
18:CR:58:LEU:CD1	18:CR:58:LEU:H	2.10	0.57
42:BH:38:SER:O	42:BH:40:GLU:N	2.38	0.57
31:D5:20:ARG:HH12	53:DW:15:ARG:HH21	1.53	0.57
6:CF:45:LEU:O	6:CF:46:ARG:HD2	2.04	0.57
35:BA:445:C:O3'	51:BU:3:ARG:HG2	2.05	0.57
35:BA:149:A:H2'	35:BA:150:C:O4'	2.05	0.57
13:AM:58:GLU:OE1	13:AM:58:GLU:HA	2.04	0.57
26:B0:43:THR:HB	26:B0:57:PHE:CE1	2.40	0.57
15:AO:70:LEU:HD23	15:AO:78:TYR:HA	1.87	0.57
54:DX:12:VAL:CG1	54:DX:27:THR:HG23	2.34	0.57
35:DA:1291:C:O2'	35:DA:1292:U:H5'	2.03	0.57
1:AA:1388:C:H2'	1:AA:1389:C:H6	1.69	0.57
7:AG:36:LYS:NZ	7:AG:36:LYS:HB2	2.19	0.57
38:BD:70:TRP:CH2	38:BD:150:LYS:HA	2.39	0.57
7:AG:42:ILE:HG23	7:AG:117:ALA:HB2	1.86	0.57
35:DA:1763:G:OP1	35:DA:1763:G:H4'	2.04	0.57
23:AW:6:G:H1	23:AW:68:C:H42	1.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2182:G:H2'	35:DA:2183:C:C6	2.40	0.57
35:BA:845:G:O2'	35:BA:846:C:H5	1.88	0.57
1:CA:1014:A:H2'	1:CA:1015:A:C8	2.40	0.57
50:DT:58:ASN:N	50:DT:58:ASN:HD22	2.01	0.57
23:CW:29:C:O2'	23:CW:30:G:H5'	2.05	0.57
1:CA:962:C:H2'	1:CA:963:G:C8	2.38	0.57
14:CN:40:CYS:SG	14:CN:43:CYS:N	2.72	0.57
35:BA:782:A:C2	38:BD:226:MET:CG	2.80	0.57
38:DD:268:ARG:HH12	38:DD:269:PHE:HE1	1.51	0.57
50:BT:92:GLY:C	50:BT:94:ALA:N	2.56	0.57
56:BZ:125:LEU:O	56:BZ:126:VAL:HG13	2.05	0.57
56:BZ:136:PHE:HD1	56:BZ:136:PHE:C	2.07	0.57
35:BA:875:G:O2'	56:BZ:151:HIS:NE2	2.33	0.57
56:BZ:167:PRO:O	56:BZ:168:GLU:HB2	2.05	0.57
35:BA:2809:A:O2'	35:BA:2810:A:H5'	2.04	0.57
39:BE:199:ARG:HG3	39:BE:199:ARG:HH11	1.68	0.57
51:BU:95:LEU:HD12	52:BV:11:GLN:HG3	1.87	0.57
35:BA:61:G:O2'	35:BA:62:C:H5'	2.04	0.57
54:BX:39:ILE:HD12	54:BX:39:ILE:C	2.25	0.57
54:BX:60:ARG:HG3	54:BX:71:GLY:HA3	1.86	0.57
27:B1:76:ARG:O	27:B1:77:ALA:CB	2.52	0.57
35:DA:2626:C:H2'	35:DA:2627:G:H8	1.70	0.57
44:DN:10:GLU:HG3	44:DN:11:PRO:HD2	1.87	0.57
35:DA:1151:G:H5''	51:DU:81:HIS:CE1	2.40	0.57
10:AJ:6:ILE:O	10:AJ:6:ILE:HD12	2.04	0.57
49:BS:49:VAL:HG21	49:BS:77:ALA:HB2	1.86	0.57
49:BS:92:TYR:HD1	49:BS:93:LYS:N	2.03	0.57
35:BA:2574:G:H2'	35:BA:2575:C:H6	1.70	0.57
34:D8:30:ARG:O	34:D8:30:ARG:HG3	2.04	0.57
35:BA:568:U:H2'	35:BA:570:G:OP2	2.05	0.57
35:BA:809:G:O4'	35:BA:1254:A:H1'	2.05	0.57
40:DF:3:GLU:CG	40:DF:19:GLU:HB2	2.34	0.57
35:BA:2277:G:OP1	47:BQ:85:LYS:HB3	2.04	0.57
48:DR:37:THR:HG23	48:DR:40:LYS:HE2	1.87	0.57
3:AC:113:ALA:HB3	3:AC:114:PRO:HD3	1.86	0.57
20:AT:76:ALA:O	20:AT:80:ARG:HG2	2.05	0.57
48:BR:41:ALA:O	48:BR:43:GLU:N	2.37	0.57
49:DS:82:ILE:O	49:DS:83:LYS:HB2	2.04	0.57
2:CB:219:VAL:C	2:CB:222:ILE:HG22	2.25	0.57
2:CB:80:ILE:HG13	2:CB:81:VAL:N	2.20	0.57
35:DA:586:A:H2	35:DA:809:G:N3	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DP:45:LEU:HD23	46:DP:46:LYS:N	2.18	0.57
35:BA:1884:A:H2'	35:BA:1885:A:C5'	2.21	0.57
43:DI:72:LEU:O	43:DI:138:ILE:HG12	2.05	0.57
25:CY:170:ALA:O	25:CY:171:LYS:C	2.43	0.57
21:CU:17:THR:O	21:CU:22:ARG:HD3	2.05	0.57
55:BY:11:ASP:N	55:BY:27:VAL:HG22	2.20	0.57
1:CA:1073:U:O2	2:CB:104:ASN:ND2	2.38	0.57
11:AK:28:THR:HG22	11:AK:29:ILE:N	2.20	0.57
43:DI:10:GLU:O	43:DI:11:ASN:HB3	2.04	0.57
9:CI:79:LEU:CD2	9:CI:102:LEU:HA	2.33	0.57
1:AA:511:C:HO2'	1:AA:512:U:H6	1.52	0.57
9:AI:26:VAL:HG13	9:AI:63:ILE:CD1	2.35	0.57
31:D5:44:THR:CG2	31:D5:45:VAL:H	2.11	0.57
31:D5:31:VAL:HB	31:D5:32:PRO:CD	2.32	0.57
31:D5:20:ARG:O	31:D5:21:SER:C	2.42	0.57
11:CK:109:VAL:HG22	18:CR:86:VAL:HA	1.86	0.57
11:CK:110:ASP:O	18:CR:84:LYS:HD2	2.05	0.57
35:BA:2732:G:H3'	35:BA:2733:A:H5'	1.86	0.57
2:AB:171:ALA:O	2:AB:174:VAL:HB	2.05	0.57
5:AE:80:ILE:HG13	5:AE:91:LEU:HB2	1.87	0.57
35:BA:1114:G:C2'	35:BA:1115:G:H5''	2.33	0.57
38:BD:142:VAL:HG23	38:BD:193:VAL:N	2.19	0.57
11:AK:96:ARG:CA	11:AK:99:GLN:HG2	2.33	0.57
35:DA:2802:G:O2'	35:DA:2803:C:C5'	2.52	0.57
1:CA:1281:U:H5'	1:CA:1282:C:C5	2.40	0.57
38:DD:231:HIS:ND1	38:DD:232:PRO:CD	2.66	0.57
35:DA:1528(A):A:H2'	35:DA:1529:G:H5''	1.87	0.57
1:AA:227:G:H2'	1:AA:228:A:C8	2.40	0.57
1:CA:341:C:O2'	1:CA:342:C:H5'	2.05	0.57
35:DA:1876:A:H2'	35:DA:1877:A:H8	1.70	0.57
39:DE:38:THR:HG23	39:DE:39:PRO:HD2	1.86	0.57
35:DA:1399:C:H2'	35:DA:1400:G:H8	1.68	0.57
7:CG:143:ARG:O	7:CG:147:ALA:HB2	2.05	0.57
1:AA:355:C:C4	1:AA:356:A:N7	2.73	0.57
1:CA:441:A:H3'	1:CA:442:C:C6	2.40	0.57
35:BA:695:G:N2	35:BA:696:G:H1'	2.19	0.57
1:AA:927:G:H2'	1:AA:928:G:H8	1.70	0.57
35:BA:1385:G:H4'	35:BA:1386:C:OP1	2.05	0.57
1:CA:1018:C:H2'	1:CA:1019:C:C6	2.40	0.57
35:BA:455:C:H3'	35:BA:456:C:H5''	1.87	0.57
1:AA:83:U:H2'	1:AA:84:U:C6	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1380:G:C2	35:DA:1381:G:C8	2.93	0.57
2:AB:121:LEU:HD23	2:AB:121:LEU:O	2.04	0.57
38:BD:25:THR:HG21	38:BD:82:ILE:N	2.19	0.57
35:BA:1568:G:H4'	38:BD:59:LYS:CG	2.35	0.57
32:B6:12:GLU:HB3	32:B6:23:THR:HG22	1.86	0.57
34:B8:39:LYS:HG2	34:B8:42:ARG:HH11	1.68	0.57
50:BT:27:THR:O	50:BT:28:VAL:CB	2.52	0.57
50:BT:85:LYS:O	50:BT:85:LYS:HG2	2.04	0.57
56:BZ:56:VAL:HA	56:BZ:70:LEU:HG	1.85	0.57
39:DE:51:PHE:H	39:DE:74:PRO:CB	2.18	0.57
2:AB:238:LEU:O	2:AB:239:VAL:C	2.44	0.57
55:DY:77:PRO:O	55:DY:78:ALA:HB2	2.04	0.57
1:AA:1202:G:H2'	1:AA:1203:C:C5'	2.33	0.57
4:CD:100:ARG:CZ	4:CD:137:SER:HA	2.34	0.57
43:DI:92:VAL:HG22	43:DI:92:VAL:O	2.04	0.57
40:BF:3:GLU:CG	40:BF:19:GLU:HB2	2.35	0.57
27:B1:38:SER:C	27:B1:39:LYS:HD3	2.26	0.57
35:BA:674:G:H1'	40:BF:74:ARG:HG3	1.87	0.57
35:DA:1653:G:O2'	35:DA:1654:A:OP2	2.21	0.57
39:DE:115:GLY:HA2	39:DE:157:ALA:HB1	1.86	0.57
48:DR:41:ALA:O	48:DR:44:LEU:N	2.38	0.57
48:DR:42:LYS:HG3	48:DR:45:ARG:NH2	2.20	0.57
20:AT:14:LYS:HA	20:AT:17:ARG:HE	1.70	0.57
35:BA:1754:C:OP1	50:BT:96:ARG:NH1	2.36	0.57
48:BR:38:VAL:HB	48:BR:39:PRO:CD	2.30	0.57
50:BT:102:ILE:HG12	50:BT:103:ARG:N	2.20	0.57
2:CB:212:GLN:HG3	2:CB:235:SER:HB2	1.86	0.57
2:AB:178:ARG:NH2	8:AH:74:PRO:HG3	2.20	0.57
1:CA:673:G:H2'	1:CA:674:G:H8	1.68	0.57
15:CO:33:THR:HG23	15:CO:63:ARG:NH1	2.20	0.57
2:CB:166:ASP:HB2	2:CB:205:ASP:OD2	2.04	0.57
2:CB:167:PRO:HG2	2:CB:192:SER:OG	2.04	0.57
2:CB:200:ILE:O	2:CB:201:ILE:HD13	2.04	0.57
51:DU:44:ASN:O	51:DU:47:TYR:HB3	2.04	0.57
35:DA:1240:U:O2'	35:DA:1241:A:H5'	2.04	0.57
35:DA:1242:A:N1	46:DP:8:PRO:HG3	2.19	0.57
4:AD:62:GLN:HB3	4:AD:66:ARG:NH2	2.19	0.57
47:DQ:69:PHE:CD1	47:DQ:70:PRO:HD2	2.40	0.57
6:AF:58:GLY:O	6:AF:60:PHE:HD1	1.88	0.57
46:BP:7:ARG:HB3	46:BP:8:PRO:CD	2.32	0.57
1:CA:989:C:N4	1:CA:1216:G:H1	2.01	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:6:THR:HG22	12:CL:9:GLN:CG	2.29	0.57
7:CG:75:VAL:HA	7:CG:88:PRO:HA	1.85	0.57
8:CH:96:GLY:O	8:CH:98:LYS:N	2.38	0.57
5:AE:35:GLY:HA2	5:AE:41:VAL:HG12	1.85	0.57
1:AA:1396:A:C4'	1:AA:1398:A:H1'	2.35	0.57
39:DE:14:ILE:HB	50:DT:14:TYR:CE2	2.39	0.57
1:AA:1459:C:O2'	1:AA:1460:A:H5'	2.05	0.57
35:BA:375:C:H2'	35:BA:376:C:C6	2.40	0.57
17:CQ:67:LYS:CA	17:CQ:70:ARG:HH12	2.18	0.57
35:BA:1041:C:H5'	35:BA:1042:G:OP2	2.03	0.57
38:BD:155:LEU:O	38:BD:156:ALA:C	2.42	0.57
53:DW:74:ALA:C	53:DW:75:TYR:CD1	2.78	0.57
38:BD:142:VAL:HG23	38:BD:192:THR:C	2.25	0.57
3:AC:83:ARG:C	3:AC:87:LEU:HG	2.26	0.57
36:BB:78:A:C2	36:BB:100:A:C4	2.93	0.57
54:BX:12:VAL:HG13	54:BX:17:ALA:CB	2.34	0.57
1:AA:1305:G:H5'	21:AU:4:GLY:CA	2.35	0.57
35:DA:1707:G:H2'	35:DA:1708:C:H6	1.69	0.57
6:AF:52:ILE:O	6:AF:86:ARG:NH1	2.38	0.57
1:CA:148:G:H2'	1:CA:149:A:C8	2.37	0.57
45:DO:89:ASN:C	45:DO:91:LEU:H	2.07	0.57
46:DP:122:PRO:CG	46:DP:141:ALA:HB3	2.34	0.57
1:CA:1294:G:H2'	1:CA:1295:G:C8	2.39	0.57
1:CA:1283:G:O2'	1:CA:1284:C:H5'	2.04	0.57
10:CJ:23:ILE:HG22	10:CJ:23:ILE:O	2.05	0.57
38:DD:201:HIS:O	38:DD:203:ASN:N	2.37	0.57
35:DA:2650:U:O2'	35:DA:2651:C:H5'	2.05	0.57
46:BP:138:LEU:CD2	46:BP:142:GLY:HA3	2.34	0.57
3:AC:206:GLU:O	3:AC:208:ILE:N	2.37	0.57
5:AE:10:MET:O	5:AE:10:MET:HG2	2.05	0.57
54:BX:28:PHE:N	54:BX:28:PHE:CD1	2.73	0.57
35:BA:2182:G:H2'	35:BA:2183:C:C6	2.40	0.57
35:DA:2680:C:H5'	39:DE:189:PRO:HA	1.87	0.56
50:DT:35:LYS:HE2	50:DT:41:ARG:HG3	1.87	0.56
50:DT:77:PRO:O	50:DT:78:LEU:HB3	2.06	0.56
43:BI:84:GLY:O	43:BI:85:GLU:HB2	2.05	0.56
1:CA:949:A:H2'	1:CA:950:U:O4'	2.04	0.56
38:BD:65:ILE:HD12	38:BD:65:ILE:O	2.05	0.56
35:DA:2086:U:OP1	38:DD:262:ARG:HG2	2.05	0.56
45:BO:14:THR:HG22	45:BO:52:VAL:HG21	1.85	0.56
44:BN:40:PRO:HG3	51:BU:68:ALA:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:150:ALA:O	42:DH:152:ARG:N	2.37	0.56
42:DH:89:ILE:H	42:DH:89:ILE:HD13	1.69	0.56
1:AA:962:C:H2'	1:AA:963:G:C8	2.39	0.56
54:BX:72:LYS:HE3	54:BX:74:PRO:CB	2.27	0.56
41:BG:60:LEU:HD13	41:BG:61:ALA:N	2.20	0.56
54:DX:77:LYS:CD	54:DX:78:LYS:HG3	2.35	0.56
56:DZ:24:LEU:HD12	56:DZ:25:PRO:N	2.20	0.56
35:DA:534:U:O3'	51:DU:46:ALA:HB2	2.05	0.56
51:DU:92:ARG:HH22	52:DV:10:LYS:HA	1.69	0.56
52:DV:19:LYS:HG3	52:DV:20:LEU:H	1.68	0.56
52:DV:40:LEU:O	52:DV:41:GLY:C	2.42	0.56
3:CC:47:LEU:HD21	3:CC:52:LEU:HD13	1.87	0.56
19:CS:14:HIS:CD2	19:CS:15:LEU:HD22	2.40	0.56
36:BB:7:G:H4'	49:BS:29:PHE:HD2	1.70	0.56
49:BS:85:VAL:HG23	49:BS:106:ARG:HB2	1.87	0.56
40:DF:192:LEU:HD21	40:DF:194:MET:HE2	1.87	0.56
50:BT:109:GLU:O	50:BT:112:ARG:HG3	2.04	0.56
43:BI:72:LEU:CD1	43:BI:138:ILE:HD11	2.23	0.56
27:D1:34:THR:HG21	35:DA:388:G:P	2.45	0.56
47:BQ:109:VAL:HG13	47:BQ:113:GLN:OE1	2.05	0.56
44:BN:23:LEU:HB3	44:BN:60:ILE:HG21	1.87	0.56
1:CA:735:C:H2'	1:CA:736:C:C6	2.36	0.56
6:CF:29:ALA:HB1	6:CF:79:LEU:CD2	2.35	0.56
18:CR:22:VAL:HA	18:CR:25:THR:HG1	1.70	0.56
18:CR:44:LEU:HA	18:CR:49:LYS:O	2.05	0.56
40:DF:71:GLY:O	40:DF:72:ARG:C	2.42	0.56
1:CA:802:A:H2'	1:CA:803:G:C5'	2.34	0.56
43:BI:8:PRO:HD3	43:BI:15:VAL:CG1	2.35	0.56
16:AP:73:LEU:O	16:AP:77:ALA:HB2	2.04	0.56
25:AY:130:ARG:CG	25:AY:130:ARG:HH11	2.17	0.56
7:CG:26:PHE:HB2	7:CG:62:PHE:CZ	2.39	0.56
44:BN:78:TYR:N	44:BN:79:PRO:CD	2.68	0.56
35:BA:768:G:H2'	35:BA:769:G:H8	1.70	0.56
18:AR:56:THR:OG1	18:AR:57:GLY:N	2.38	0.56
9:CI:17:VAL:CG2	9:CI:81:ILE:HD13	2.34	0.56
46:BP:80:TYR:CD1	46:BP:111:ARG:HB3	2.41	0.56
35:BA:1772:G:N2	35:BA:1979:C:O2	2.35	0.56
39:DE:103:ASP:OD1	39:DE:168:MET:HG2	2.05	0.56
8:AH:82:HIS:CD2	8:AH:138:TRP:NE1	2.69	0.56
8:AH:104:ARG:O	8:AH:107:LEU:HB3	2.05	0.56
35:BA:176:G:C2'	35:BA:177:G:H5'	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:68:GLY:O	13:CM:69:GLU:HB2	2.04	0.56
25:AY:74:ASN:O	25:AY:77:LYS:HB2	2.05	0.56
35:DA:1427:A:H4'	35:DA:1428:C:O5'	2.03	0.56
1:CA:1478:C:H2'	1:CA:1479:C:H6	1.68	0.56
3:AC:76:VAL:HG23	3:AC:77:ILE:N	2.20	0.56
35:BA:1642:G:H2'	35:BA:1643:G:C8	2.40	0.56
35:DA:1935:G:H1'	35:DA:1964:G:N2	2.20	0.56
35:BA:363(A):A:H2'	35:BA:363(A):A:N3	2.19	0.56
1:CA:622:A:C8	1:CA:623:C:C5	2.92	0.56
1:CA:1261:A:H62	1:CA:1274:G:H21	1.53	0.56
37:DC:55:ASP:CG	37:DC:56:GLN:H	2.09	0.56
35:DA:1002:G:H2'	35:DA:1003:G:O4'	2.05	0.56
11:CK:49:GLY:O	11:CK:50:TYR:HD2	1.88	0.56
3:AC:66:VAL:O	3:AC:66:VAL:HG12	2.04	0.56
3:CC:113:ALA:HB3	3:CC:114:PRO:HD3	1.87	0.56
2:CB:63:MET:HB3	2:CB:225:ALA:HB1	1.86	0.56
43:BI:83:ALA:HA	43:BI:89:TYR:CD1	2.39	0.56
1:CA:1223:C:P	19:CS:78:ARG:HH22	2.28	0.56
10:CJ:48:THR:HG23	10:CJ:61:GLU:C	2.26	0.56
35:BA:1826:G:H4'	38:BD:242:ARG:NH2	2.19	0.56
36:DB:41:U:C4	41:DG:70:VAL:O	2.58	0.56
10:CJ:6:ILE:O	10:CJ:71:LEU:HD12	2.04	0.56
47:BQ:141:GLN:HA	56:BZ:71:VAL:O	2.05	0.56
52:BV:61:VAL:HG23	52:BV:100:ARG:N	2.20	0.56
35:DA:2666:C:H2'	35:DA:2667:C:O4'	2.05	0.56
41:BG:76:SER:HA	41:BG:83:ARG:HA	1.86	0.56
34:D8:35:GLN:HE21	34:D8:36:LYS:NZ	2.02	0.56
51:DU:91:ASP:O	51:DU:92:ARG:O	2.23	0.56
51:DU:99:ALA:HB2	51:DU:106:PHE:CD1	2.40	0.56
35:DA:1857:G:O2'	35:DA:1885:A:N6	2.39	0.56
1:CA:501:C:H2'	1:CA:502:G:H8	1.69	0.56
4:CD:116:GLN:NE2	4:CD:157:LEU:HD21	2.18	0.56
35:BA:669:G:N3	35:BA:669:G:H2'	2.19	0.56
43:BI:130:TYR:CB	43:BI:136:VAL:HG13	2.35	0.56
2:AB:50:GLU:OE1	2:AB:200:ILE:HB	2.05	0.56
15:CO:53:HIS:CE1	15:CO:57:LEU:HD21	2.40	0.56
34:D8:56:GLU:C	34:D8:58:ILE:N	2.57	0.56
34:D8:59:LYS:C	34:D8:61:LEU:N	2.45	0.56
1:AA:1321:C:H5''	1:AA:1322:C:H2'	1.86	0.56
4:AD:30:LYS:HB3	4:AD:35:ARG:HH11	1.70	0.56
35:DA:1131:G:N3	35:DA:1132:A:C8	2.74	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:532:A:H2'	35:DA:532:A:N3	2.19	0.56
44:DN:78:TYR:N	44:DN:79:PRO:CD	2.69	0.56
13:CM:84:ILE:HG22	13:CM:84:ILE:O	2.05	0.56
25:AY:25:LEU:O	25:AY:28:LEU:HB2	2.05	0.56
11:CK:28:THR:HG22	11:CK:29:ILE:N	2.19	0.56
18:AR:86:VAL:HG12	18:AR:87:ARG:NH1	2.20	0.56
1:CA:637:G:H2'	1:CA:638:G:H8	1.70	0.56
1:AA:690:G:H2'	1:AA:691:G:O4'	2.05	0.56
35:DA:236:C:O2'	35:DA:237:C:H5'	2.06	0.56
8:AH:83:ILE:CB	8:AH:137:VAL:HG13	2.34	0.56
5:AE:12:LEU:CD1	5:AE:31:LEU:HB3	2.35	0.56
1:AA:826:C:H2'	1:AA:827:U:C6	2.40	0.56
8:AH:112:LEU:C	8:AH:112:LEU:HD12	2.25	0.56
23:AW:27:G:H2'	23:AW:28:U:H6	1.69	0.56
35:BA:1930:G:H22	35:BA:1968:G:C2'	2.16	0.56
39:BE:103:ASP:OD2	39:BE:202:LYS:HE2	2.05	0.56
55:BY:7:VAL:CG2	55:BY:8:LYS:HD2	2.35	0.56
35:DA:1274:A:N3	35:DA:1297:C:H1'	2.20	0.56
1:AA:35:G:H2'	1:AA:36:C:C6	2.40	0.56
35:BA:2187:G:O2'	35:BA:2188:C:H5'	2.06	0.56
35:BA:2801(A):A:H5'	35:BA:2802:G:C8	2.40	0.56
53:DW:75:TYR:HE1	53:DW:104:THR:HB	1.70	0.56
35:BA:1298:C:H3'	35:BA:1299:G:H8	1.69	0.56
35:DA:1710:C:H2'	35:DA:1711:C:C6	2.40	0.56
1:AA:1097:C:O2'	1:AA:1098:C:H5'	2.05	0.56
35:DA:916:G:C2'	35:DA:917:A:H5''	2.36	0.56
35:BA:1528(A):A:C2'	35:BA:1529:G:H5''	2.35	0.56
35:DA:1528:A:H2'	35:DA:1528:A:N3	2.19	0.56
1:CA:893:C:H2'	1:CA:894:G:C8	2.40	0.56
35:DA:2339:G:H2'	35:DA:2340:G:H8	1.70	0.56
44:DN:128:HIS:O	44:DN:130:HIS:N	2.38	0.56
35:BA:1405:U:H2'	35:BA:1406:U:H6	1.68	0.56
35:BA:2055:C:H4'	35:BA:2056:G:H5''	1.87	0.56
35:BA:2056:G:N3	35:BA:2056:G:H2'	2.20	0.56
1:CA:1010:G:N2	1:CA:1020:U:H1'	2.20	0.56
35:BA:1440:G:H2'	35:BA:1441:G:H8	1.70	0.56
1:AA:1486:G:H2'	1:AA:1487:G:O4'	2.05	0.56
31:D5:26:THR:O	31:D5:26:THR:HG23	2.05	0.56
20:AT:8:ARG:N	20:AT:8:ARG:HD2	2.18	0.56
43:BI:82:ARG:HG3	43:BI:82:ARG:HH11	1.71	0.56
37:BC:214:VAL:C	37:BC:216:THR:H	2.08	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:950:G:O2'	35:DA:951:C:H5'	2.04	0.56
45:DO:63:VAL:HG22	45:DO:83:ALA:O	2.06	0.56
50:DT:96:ARG:CG	50:DT:96:ARG:HH11	2.17	0.56
35:DA:2729:G:C1'	39:DE:187:ALA:HB2	2.23	0.56
1:CA:950:U:H2'	1:CA:951:G:H8	1.71	0.56
35:BA:1819:A:O2'	35:BA:1820:U:OP2	2.19	0.56
35:BA:779:U:H2'	35:BA:780:G:C8	2.41	0.56
38:BD:94:LEU:HA	38:BD:104:TYR:HA	1.87	0.56
5:CE:129:ILE:O	5:CE:132:ALA:N	2.37	0.56
35:DA:1788:C:H2'	35:DA:1789:A:C8	2.34	0.56
35:DA:1821:A:H2'	35:DA:1822:G:C8	2.39	0.56
41:DG:35:GLU:HG2	41:DG:35:GLU:O	2.06	0.56
45:BO:22:ILE:H	45:BO:41:ALA:HA	1.70	0.56
35:BA:1663:C:N3	35:BA:1998:G:N1	2.53	0.56
35:BA:2864:G:O2'	35:BA:2865:U:H5'	2.05	0.56
45:BO:32:TYR:N	45:BO:32:TYR:HD1	2.02	0.56
45:BO:43:VAL:O	45:BO:45:GLU:N	2.37	0.56
52:BV:34:GLU:HG2	52:BV:35:LEU:N	2.20	0.56
42:DH:138:LYS:H	42:DH:141:VAL:HG23	1.68	0.56
51:BU:90:VAL:CG1	52:BV:39:LEU:HB3	2.33	0.56
42:DH:149:ARG:CG	42:DH:162:ILE:HD11	2.35	0.56
1:AA:1223:C:P	19:AS:78:ARG:HH22	2.28	0.56
28:B2:46:GLN:NE2	28:B2:47:ASN:N	2.53	0.56
35:BA:1341:U:O3'	54:BX:55:ASN:HB3	2.05	0.56
35:BA:137:C:C2'	35:BA:139:G:H5'	2.35	0.56
54:BX:29:TRP:CZ3	54:BX:76:ARG:HG2	2.38	0.56
27:B1:11:ARG:NH1	27:B1:59:THR:O	2.37	0.56
27:B1:76:ARG:CA	27:B1:78:LYS:HZ3	2.18	0.56
2:AB:237:ALA:O	2:AB:238:LEU:HB3	2.04	0.56
41:BG:165:THR:HB	41:BG:167:GLU:OE1	2.05	0.56
55:DY:74:PRO:HG2	55:DY:80:GLY:O	2.06	0.56
54:DX:53:LYS:HZ2	54:DX:55:ASN:HD21	1.52	0.56
56:DZ:50:GLN:OE1	56:DZ:50:GLN:N	2.37	0.56
47:DQ:29:PHE:CD1	47:DQ:29:PHE:N	2.72	0.56
51:DU:92:ARG:NH1	52:DV:11:GLN:O	2.38	0.56
51:DU:90:VAL:HG22	52:DV:39:LEU:CD1	2.35	0.56
19:CS:12:ASP:O	19:CS:16:LEU:HD13	2.04	0.56
49:BS:80:LEU:HD12	49:BS:80:LEU:N	2.20	0.56
4:CD:119:GLN:HB3	4:CD:120:LEU:HD12	1.87	0.56
35:BA:619:G:P	35:BA:620:G:H22	2.28	0.56
35:BA:797:C:OP2	40:BF:62:ARG:HG3	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:81:PRO:HG2	40:BF:82:ILE:H	1.70	0.56
35:BA:943:U:OP1	46:BP:38:GLN:HB3	2.04	0.56
1:AA:103:C:H2'	1:AA:104:G:H8	1.71	0.56
20:AT:32:ALA:O	20:AT:33:ILE:C	2.42	0.56
49:DS:80:LEU:HD12	49:DS:80:LEU:N	2.20	0.56
35:DA:2081:C:H2'	35:DA:2082:A:H8	1.69	0.56
44:DN:53:VAL:HG13	44:DN:121:LYS:O	2.05	0.56
15:CO:56:LEU:HA	15:CO:59:MET:HE2	1.87	0.56
18:CR:36:ASN:HD22	18:CR:39:VAL:HB	1.68	0.56
2:CB:159:PRO:C	2:CB:161:ALA:N	2.56	0.56
2:CB:36:ARG:NE	2:CB:37:ASN:H	2.03	0.56
15:CO:39:LEU:HD12	15:CO:56:LEU:CD1	2.36	0.56
51:DU:47:TYR:HA	51:DU:50:ARG:NH2	2.20	0.56
4:AD:96:LEU:H	4:AD:96:LEU:CD2	1.97	0.56
1:CA:1360:A:H2'	1:CA:1361:G:O4'	2.05	0.56
19:AS:6:LYS:HD2	19:AS:7:LYS:HD2	1.86	0.56
4:AD:10:ARG:O	4:AD:13:ARG:HB3	2.04	0.56
47:DQ:8:LYS:CG	47:DQ:9:TYR:N	2.67	0.56
18:AR:70:ILE:O	18:AR:74:ARG:HB2	2.05	0.56
18:AR:36:ASN:HD22	18:AR:39:VAL:HB	1.70	0.56
1:CA:1504:G:H4'	1:CA:1505:G:C4	2.40	0.56
35:DA:2019:A:H4'	51:DU:34:LYS:HD2	1.85	0.56
51:DU:33:ARG:HA	51:DU:36:ARG:HB2	1.86	0.56
27:B1:33:LYS:CG	27:B1:34:THR:H	2.16	0.56
7:AG:71:PRO:CG	7:AG:103:TRP:HZ3	2.18	0.56
35:BA:1240:U:O2'	35:BA:1241:A:H5'	2.04	0.56
35:BA:1242:A:N1	46:BP:8:PRO:HG3	2.20	0.56
25:CY:122:ALA:O	25:CY:123:GLU:C	2.44	0.56
25:CY:161:ILE:O	25:CY:164:ILE:HB	2.05	0.56
25:CY:23:HIS:O	25:CY:25:LEU:N	2.38	0.56
1:CA:552:U:O3'	12:CL:87:GLY:HA3	2.06	0.56
43:BI:10:GLU:O	43:BI:12:LEU:HD23	2.05	0.56
43:BI:4:ILE:C	43:BI:5:LEU:HD23	2.26	0.56
1:AA:1269:A:H2	1:AA:1312:G:N3	2.03	0.56
1:AA:453:A:C5	1:AA:454:C:C4	2.94	0.56
20:CT:32:ALA:O	20:CT:33:ILE:C	2.43	0.56
20:CT:32:ALA:O	20:CT:36:LEU:HD23	2.05	0.56
20:CT:41:ILE:O	20:CT:43:LEU:N	2.39	0.56
25:AY:103:ILE:CG1	25:AY:103:ILE:O	2.53	0.56
51:BU:26:GLY:C	51:BU:28:ARG:N	2.57	0.56
33:B7:16:HIS:CE1	35:BA:465:G:H4'	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1074:G:H4'	2:CB:103:THR:HG22	1.87	0.56
1:AA:1392:G:N2	1:AA:1502:A:C8	2.72	0.56
12:AL:89:ARG:HH11	12:AL:89:ARG:HB2	1.69	0.56
35:DA:1657:C:O2'	35:DA:1658:C:H5'	2.05	0.56
35:DA:1658:C:OP1	39:DE:132:HIS:ND1	2.38	0.56
9:AI:7:THR:HB	9:AI:83:ARG:HH11	1.70	0.56
7:CG:84:ASN:N	7:CG:84:ASN:ND2	2.54	0.56
54:DX:21:PHE:CE1	54:DX:26:TYR:HB3	2.39	0.56
38:BD:120:GLY:O	38:BD:131:LEU:HB3	2.05	0.56
35:BA:549:G:H2'	35:BA:551:G:O4'	2.06	0.56
15:CO:15:PHE:O	15:CO:16:ALA:O	2.24	0.56
46:BP:123:LEU:O	46:BP:125:VAL:HG12	2.05	0.56
16:CP:6:LEU:HB3	16:CP:17:TYR:HB3	1.86	0.56
40:BF:170:LEU:HD21	40:BF:172:TRP:CE2	2.40	0.56
38:DD:131:LEU:N	38:DD:131:LEU:HD12	2.20	0.56
1:CA:685:G:N2	1:CA:706:A:H61	2.03	0.56
11:CK:21:ILE:CG1	11:CK:84:VAL:HG12	2.35	0.56
53:BW:11:ARG:HH22	53:BW:98:LYS:HB3	1.70	0.56
1:CA:1411:C:O2'	1:CA:1412:C:H5'	2.05	0.56
53:BW:8:ARG:HG3	53:BW:8:ARG:HH11	1.71	0.56
35:DA:445:C:O3'	51:DU:3:ARG:HG2	2.04	0.56
17:CQ:48:GLU:O	17:CQ:50:LYS:N	2.38	0.56
35:BA:2114:A:C2'	35:BA:2115:G:H5'	2.34	0.56
1:AA:10:A:H2'	1:AA:11:G:H8	1.71	0.56
20:CT:26:ASN:ND2	20:CT:26:ASN:N	2.54	0.56
1:AA:391:G:N1	1:AA:392:G:C5	2.73	0.56
53:DW:17:VAL:O	53:DW:20:VAL:HG23	2.06	0.56
27:D1:18:ILE:HA	27:D1:44:PRO:HD2	1.87	0.56
38:BD:108:PRO:HG2	38:BD:111:LEU:HB2	1.88	0.56
29:B3:41:PRO:HD3	29:B3:44:ARG:CZ	2.35	0.56
35:DA:2579:C:H4'	39:DE:134:ILE:HG13	1.87	0.56
1:AA:732:C:H2'	1:AA:733:A:H5''	1.87	0.56
35:BA:972:G:H2'	35:BA:973:A:C8	2.40	0.56
29:D3:14:GLY:O	35:DA:969:U:H4'	2.05	0.56
35:DA:2266:A:H4'	35:DA:2267:A:N3	2.20	0.56
1:AA:64:G:OP1	1:AA:64:G:H3'	2.05	0.56
1:AA:1296:C:H3'	1:AA:1297:C:H6	1.71	0.56
54:DX:88:LYS:C	54:DX:90:GLU:H	2.07	0.56
1:CA:1296:C:H5'	1:CA:1297:C:OP2	2.05	0.56
35:BA:2203:U:C4'	38:BD:151:LYS:HE3	2.35	0.56
35:BA:878:A:H3'	35:BA:879:G:C8	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1528:A:H2'	35:BA:1528:A:N3	2.19	0.56
3:AC:76:VAL:HG23	3:AC:77:ILE:HG13	1.86	0.56
31:B5:43:HIS:CD2	31:B5:43:HIS:N	2.72	0.56
35:BA:2340:G:O2'	35:BA:2341:G:H5'	2.05	0.56
35:DA:2773:C:H2'	35:DA:2774:C:C6	2.40	0.56
1:CA:20:U:O2'	1:CA:21:G:H5'	2.05	0.56
45:DO:87:ILE:HG23	45:DO:88:ASN:N	2.20	0.56
1:AA:441:A:H3'	1:AA:442:C:H6	1.69	0.56
7:CG:21:VAL:HG23	7:CG:22:LEU:H	1.68	0.56
1:AA:1283:G:O2'	1:AA:1284:C:H5'	2.04	0.56
25:CY:43:VAL:HG23	25:CY:50:VAL:O	2.04	0.56
35:DA:985:C:H2'	35:DA:985:C:O2	2.06	0.56
1:CA:1154:G:H2'	1:CA:1155:G:H8	1.70	0.56
1:AA:884:U:H4'	1:AA:885:G:C5'	2.34	0.56
35:DA:1841:U:H2'	35:DA:1842:G:H8	1.71	0.56
38:BD:125:ILE:H	38:BD:125:ILE:CD1	2.19	0.56
35:BA:1655:A:H4'	39:BE:115:GLY:H	1.69	0.56
35:BA:271(J):C:C2'	35:BA:271(K):U:H5''	2.36	0.56
35:BA:271(J):C:C3'	35:BA:271(K):U:H5''	2.35	0.56
35:BA:826:U:OP1	35:BA:2428:G:OP1	2.23	0.56
35:BA:816:C:O2'	35:BA:817:C:H5'	2.05	0.56
35:BA:2266:A:H4'	35:BA:2267:A:C2	2.41	0.56
37:DC:214:VAL:C	37:DC:216:THR:H	2.09	0.56
55:BY:6:HIS:N	55:BY:6:HIS:ND1	2.50	0.56
35:DA:1430:C:H2'	35:DA:1431:U:C6	2.40	0.56
1:CA:361:G:O2'	1:CA:362:G:H5'	2.06	0.56
55:DY:83:THR:O	55:DY:84:ARG:HG3	2.05	0.56
44:BN:4:TYR:N	44:BN:4:TYR:CD1	2.71	0.56
1:AA:126:G:H5'	1:AA:633:G:N2	2.19	0.56
35:DA:1665:A:O2'	35:DA:1666:G:H5'	2.04	0.56
38:BD:260:ARG:NH1	38:BD:260:ARG:HG2	2.18	0.56
38:BD:96:HIS:CE1	38:BD:102:LYS:HD2	2.41	0.56
34:B8:35:GLN:HE21	34:B8:36:LYS:NZ	2.03	0.56
46:BP:62:LEU:C	46:BP:62:LEU:HD22	2.25	0.56
45:BO:35:VAL:CG2	45:BO:69:ILE:HG12	2.35	0.56
50:BT:77:PRO:O	50:BT:78:LEU:HB3	2.06	0.56
56:BZ:127:LYS:O	56:BZ:128:VAL:HB	2.04	0.56
35:DA:2574:G:H2'	35:DA:2575:C:H6	1.70	0.56
39:BE:63:LEU:O	39:BE:64:LYS:C	2.44	0.56
52:BV:5:VAL:CG2	52:BV:36:PRO:HB2	2.33	0.56
54:BX:77:LYS:CD	54:BX:78:LYS:HG3	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DE:3:GLY:HA3	39:DE:81:ILE:HG21	1.88	0.56
27:B1:11:ARG:HG3	27:B1:61:ARG:C	2.25	0.56
27:B1:51:VAL:CG2	27:B1:62:VAL:HG11	2.34	0.56
36:BB:42:C:O2	41:BG:93:THR:N	2.38	0.56
41:BG:144:ILE:HD12	41:BG:145:THR:H	1.71	0.56
41:BG:85:GLY:O	41:BG:86:MET:HB2	2.06	0.56
54:DX:7:VAL:O	54:DX:31:HIS:N	2.35	0.56
42:BH:102:ALA:CB	42:BH:117:PRO:HD3	2.20	0.56
47:DQ:141:GLN:OE1	56:DZ:70:LEU:HB2	2.04	0.56
56:DZ:96:VAL:HG22	56:DZ:97:GLU:N	2.20	0.56
35:DA:1159:U:C2'	35:DA:1160:G:H5'	2.34	0.56
10:AJ:4:ILE:CB	10:AJ:74:ILE:HD11	2.28	0.56
49:BS:67:ARG:HE	49:BS:100:ALA:HB3	1.69	0.56
35:BA:443:A:H1'	35:BA:1201:C:O4'	2.06	0.56
40:BF:41:LEU:HD23	40:BF:44:ARG:HD3	1.87	0.56
40:BF:34:TRP:CZ3	46:BP:12:ALA:HA	2.40	0.56
34:B8:56:GLU:O	34:B8:59:LYS:NZ	2.36	0.56
50:BT:106:SER:O	50:BT:107:ASP:HB3	2.06	0.56
23:CW:75:C:O2'	27:D1:32:LYS:HD2	2.06	0.56
6:CF:41:GLU:H	6:CF:62:TRP:HE3	1.52	0.56
2:CB:164:VAL:O	2:CB:186:ALA:HB1	2.05	0.56
2:CB:34:ALA:O	2:CB:41:ILE:HB	2.06	0.56
40:DF:57:VAL:HG12	40:DF:58:ALA:N	2.19	0.56
46:DP:48:PRO:O	46:DP:51:PHE:N	2.38	0.56
35:BA:1857:G:O2'	35:BA:1885:A:N6	2.39	0.56
4:AD:108:LEU:O	4:AD:110:PHE:CD1	2.58	0.56
55:DY:37:VAL:HG13	55:DY:69:ALA:CB	2.36	0.56
18:AR:75:ILE:C	18:AR:76:LEU:HD22	2.26	0.56
35:DA:28:A:H1'	35:DA:513:A:C2	2.40	0.56
1:AA:452:A:C2	1:AA:453:A:C4	2.93	0.56
20:CT:50:GLU:HG3	20:CT:51:GLU:H	1.70	0.56
35:BA:1657:C:O2'	35:BA:1658:C:H5'	2.05	0.56
35:BA:745:G:H2'	35:BA:746:A:H5'	1.87	0.56
35:DA:1411:C:HO2'	35:DA:1412:A:H8	1.50	0.56
26:B0:21:LEU:CD1	26:B0:41:ARG:HD3	2.35	0.56
35:BA:2246:G:H2'	35:BA:2247:A:C8	2.40	0.56
1:AA:955:U:C1'	1:AA:1227:A:H61	2.15	0.56
1:AA:191:G:C4	20:AT:105:SER:HB3	2.41	0.56
43:DI:15:VAL:O	43:DI:16:GLY:C	2.43	0.56
12:AL:119:LYS:C	12:AL:120:TYR:HD1	2.07	0.56
8:CH:12:ARG:HH11	8:CH:26:VAL:HA	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:B5:57:VAL:HG23	31:B5:58:LEU:N	2.18	0.56
35:BA:2753:A:H2	35:BA:2754:U:C2	2.23	0.56
3:CC:155:GLY:O	3:CC:156:ARG:HB2	2.05	0.56
1:AA:33:A:H2'	1:AA:34:C:C6	2.40	0.56
1:CA:9:G:H2'	1:CA:10:A:H8	1.71	0.56
13:CM:13:LYS:HZ2	13:CM:21:TYR:HE1	1.52	0.56
1:AA:766:A:H2'	1:AA:767:A:O4'	2.05	0.56
35:DA:2392:A:H1'	46:DP:60:MET:HE3	1.87	0.56
9:AI:102:LEU:O	9:AI:103:THR:OG1	2.21	0.56
1:AA:1405:G:H2'	1:AA:1406:U:H6	1.70	0.56
1:AA:1096:C:O2'	1:AA:1097:C:H5'	2.05	0.56
2:CB:137:ARG:NH1	2:CB:137:ARG:HG2	2.20	0.56
35:DA:523:C:C2'	35:DA:524:U:H5'	2.36	0.56
35:DA:2408:U:H2'	35:DA:2409:G:H8	1.68	0.56
35:BA:2290:G:H2'	35:BA:2291:U:C6	2.41	0.56
35:BA:2010:G:H5''	53:BW:42:ARG:HB2	1.86	0.56
26:B0:1:MET:O	26:B0:2:ALA:HB3	2.05	0.56
35:DA:1197:G:H5'	35:DA:1227:G:O2'	2.05	0.56
11:AK:86:GLY:H	11:AK:112:THR:CG2	2.19	0.56
7:CG:42:ILE:HG23	7:CG:117:ALA:HB2	1.87	0.56
1:AA:158:G:O2'	1:AA:159:G:H5'	2.05	0.56
47:BQ:42:ILE:HD13	47:BQ:97:VAL:CG2	2.35	0.56
1:CA:1442(B):A:OP2	1:CA:1442(B):A:H4'	2.05	0.56
50:DT:109:GLU:O	50:DT:112:ARG:HG3	2.06	0.56
35:BA:1899:G:H22	35:BA:1902:C:N4	2.02	0.56
41:DG:102:PHE:CE2	41:DG:141:PHE:HE1	2.24	0.56
47:DQ:20:ALA:CA	47:DQ:98:LYS:HB3	2.33	0.56
56:BZ:129:SER:HB3	56:BZ:132:ASN:HD22	1.69	0.56
39:BE:59:VAL:HG22	39:BE:63:LEU:HA	1.87	0.56
1:AA:949:A:H61	1:AA:1232:U:H3	1.53	0.56
39:DE:30:PRO:C	39:DE:32:PRO:HD3	2.25	0.56
39:DE:55:ASN:ND2	39:DE:75:VAL:HG13	2.21	0.56
35:DA:906:G:H5'	47:DQ:26:TYR:OH	2.05	0.56
56:DZ:48:PHE:HE2	56:DZ:71:VAL:CG2	2.12	0.56
56:DZ:56:VAL:HG12	56:DZ:57:ILE:N	2.21	0.56
35:DA:2636:U:H4'	39:DE:80:GLU:OE1	2.04	0.56
35:BA:2334:G:C5'	49:BS:13:ARG:HG2	2.30	0.56
49:BS:57:LYS:O	49:BS:58:LEU:HB2	2.06	0.56
49:BS:82:ILE:O	49:BS:83:LYS:HB2	2.03	0.56
49:BS:83:LYS:HE3	49:BS:84:GLN:HG3	1.86	0.56
55:BY:44:ILE:CG2	55:BY:45:VAL:N	2.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D1:10:LYS:O	27:D1:11:ARG:O	2.23	0.56
34:B8:53:PRO:C	34:B8:55:ALA:H	2.07	0.56
35:BA:1414:G:H2'	35:BA:1415:U:C5	2.41	0.56
48:DR:2:ARG:NE	48:DR:5:LYS:HE3	2.21	0.56
35:BA:2821:A:H2'	35:BA:2822:G:H8	1.67	0.56
35:BA:2711:A:OP1	35:BA:2712(A):A:P	2.63	0.56
48:BR:82:GLU:OE1	48:BR:83:ILE:HD13	2.06	0.56
2:CB:213:LEU:C	2:CB:213:LEU:HD23	2.25	0.56
2:CB:88:ALA:HB2	2:CB:223:ILE:HD11	1.86	0.56
44:BN:55:VAL:HG12	44:BN:56:ASN:N	2.21	0.56
6:CF:58:GLY:O	6:CF:60:PHE:HD1	1.89	0.56
35:DA:85:G:O5'	55:DY:30:VAL:HB	2.06	0.56
43:DI:68:LEU:HG	43:DI:72:LEU:HD23	1.86	0.56
35:DA:956:G:H5'	35:DA:957:A:OP2	2.05	0.56
47:BQ:124:LYS:HA	47:BQ:124:LYS:HE2	1.87	0.56
35:DA:2024:G:H2'	35:DA:2025:C:H6	1.70	0.56
35:DA:565:C:H4'	35:DA:1253:A:N6	2.21	0.56
1:CA:1452:C:H1'	1:CA:1456:G:C2	2.38	0.56
42:DH:35:VAL:HG12	42:DH:35:VAL:O	2.06	0.56
2:CB:99:GLY:O	2:CB:101:MET:N	2.39	0.56
1:AA:259:G:H2'	1:AA:260:G:C8	2.41	0.56
1:CA:1346:A:H61	1:CA:1374:A:H3'	1.70	0.56
8:AH:6:ILE:O	8:AH:10:LEU:HG	2.06	0.56
9:AI:73:GLN:O	9:AI:77:ILE:HG13	2.05	0.56
8:CH:89:PRO:HA	8:CH:92:ARG:NH1	2.20	0.56
38:DD:108:PRO:HB3	38:DD:143:HIS:CE1	2.41	0.56
1:AA:1073:U:O2	2:AB:104:ASN:ND2	2.39	0.56
35:DA:2250:G:C8	35:DA:2496:C:H5''	2.40	0.56
3:AC:155:GLY:O	3:AC:156:ARG:HB2	2.05	0.56
26:D0:38:VAL:HG23	26:D0:59:LEU:HB2	1.85	0.56
20:CT:19:SER:O	20:CT:23:ARG:N	2.36	0.56
36:BB:21:G:N3	36:BB:21:G:H2'	2.20	0.56
1:AA:1256:A:H61	1:AA:1278:U:H1'	1.69	0.56
1:AA:1281:U:H5'	1:AA:1282:C:C5	2.40	0.56
29:D3:43:ILE:O	29:D3:47:VAL:HG23	2.05	0.56
38:DD:231:HIS:CE1	38:DD:232:PRO:HD2	2.41	0.56
35:DA:614(C):A:N3	40:DF:180:GLY:HA2	2.20	0.56
35:BA:2007:C:H2'	35:BA:2008:C:C6	2.37	0.56
1:CA:1288:A:O2'	1:CA:1289:A:H5'	2.05	0.56
1:CA:441:A:H3'	1:CA:442:C:H6	1.70	0.56
1:CA:811:C:H4'	1:CA:900:A:N6	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:811:C:O2'	1:CA:901:A:N1	2.38	0.56
38:DD:70:TRP:CH2	38:DD:150:LYS:HA	2.40	0.56
1:CA:1003:G:H2'	1:CA:1004:A:C4'	2.35	0.56
1:CA:358:U:H2'	1:CA:359:U:H6	1.71	0.56
35:DA:632:A:N3	35:DA:2403:C:H1'	2.21	0.56
1:AA:1003:G:H2'	1:AA:1004:A:C4'	2.35	0.56
29:B3:26:LEU:HD23	29:B3:26:LEU:N	2.20	0.56
35:BA:1703:G:H2'	35:BA:1704:G:H8	1.70	0.56
35:DA:827:U:H2'	35:DA:2068:U:C2	2.40	0.56
4:AD:133:VAL:CG1	4:AD:135:LEU:H	2.19	0.56
35:BA:1475:G:H2'	35:BA:1475:G:N3	2.20	0.56
35:BA:1839:G:H5'	35:BA:1839:G:H8	1.70	0.56
1:AA:775:G:O2'	1:AA:776:G:H5'	2.06	0.56
37:BC:41:VAL:HB	37:BC:178:ALA:HB1	1.88	0.56
35:BA:147:U:H2'	35:BA:148:C:H6	1.71	0.56
35:DA:859:G:H5'	35:DA:2268:A:O2'	2.05	0.56
47:DQ:42:ILE:HD13	47:DQ:97:VAL:CG2	2.35	0.56
35:BA:2650:U:O2'	35:BA:2651:C:H5'	2.06	0.56
35:DA:1663:C:N3	35:DA:1998:G:N1	2.53	0.56
45:DO:32:TYR:HD1	45:DO:32:TYR:N	2.01	0.56
1:CA:1229:A:H2'	1:CA:1230:C:H6	1.71	0.56
35:BA:1899:G:O2'	35:BA:1900:A:H5''	2.05	0.56
38:DD:92:ILE:HA	38:DD:107:ALA:HB2	1.87	0.56
35:BA:1998:G:O2'	35:BA:1999:C:H5'	2.06	0.56
45:BO:62:VAL:HG11	45:BO:65:THR:HG22	1.87	0.56
39:DE:120:TRP:CE3	39:DE:155:LYS:HD3	2.41	0.56
35:BA:2810:A:H2'	39:BE:61:ARG:HH21	1.69	0.56
39:BE:3:GLY:HA3	39:BE:81:ILE:HG21	1.86	0.56
52:BV:22:VAL:O	52:BV:23:GLU:CB	2.53	0.56
27:B1:86:SER:N	27:B1:87:PRO:HD3	2.20	0.56
32:D6:9:LEU:HD23	32:D6:10:LEU:N	2.20	0.56
56:DZ:73:GLN:O	56:DZ:87:ASP:OD2	2.23	0.56
3:AC:130:VAL:HA	3:AC:133:ALA:HB3	1.86	0.56
43:DI:84:GLY:O	43:DI:85:GLU:HB2	2.05	0.56
40:BF:107:LYS:O	40:BF:110:LEU:N	2.39	0.56
55:BY:77:PRO:O	55:BY:78:ALA:HB2	2.05	0.56
48:DR:36:THR:HB	48:DR:40:LYS:HD2	1.86	0.56
48:DR:41:ALA:O	48:DR:43:GLU:N	2.38	0.56
44:BN:58:ASP:C	44:BN:60:ILE:N	2.58	0.56
6:CF:89:MET:SD	18:CR:76:LEU:HD21	2.45	0.56
35:DA:941:A:H4'	46:DP:35:HIS:CE1	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:431:A:H2'	1:AA:432:A:H8	1.71	0.56
55:DY:27:VAL:HG12	55:DY:29:GLU:OE1	2.05	0.56
43:DI:114:LEU:O	43:DI:115:ALA:HB3	2.06	0.56
46:BP:148:LEU:H	46:BP:148:LEU:HD13	1.69	0.56
20:CT:63:ILE:O	20:CT:65:LYS:N	2.38	0.56
55:BY:31:LEU:HD11	55:BY:34:LYS:H	1.70	0.56
23:AW:36:A:O2'	23:AW:37:U:H5'	2.05	0.56
13:AM:84:ILE:O	13:AM:84:ILE:HG22	2.05	0.56
20:AT:58:LYS:HE3	20:AT:62:LEU:CD1	2.36	0.56
1:CA:1104:G:OP1	2:CB:111:ARG:HD2	2.05	0.56
43:DI:10:GLU:CD	43:DI:11:ASN:H	2.09	0.56
43:DI:37:VAL:HG13	43:DI:38:LEU:CD1	2.34	0.56
1:CA:1118:C:H1'	1:CA:1179:A:C4	2.41	0.56
8:AH:20:TYR:HE2	8:AH:75:ARG:HD2	1.70	0.56
31:D5:46:CYS:SG	31:D5:48:GLU:HG3	2.46	0.56
29:B3:56:VAL:CG1	29:B3:57:GLU:N	2.65	0.56
7:CG:121:ALA:O	7:CG:124:LEU:HB2	2.06	0.56
40:BF:139:PHE:HB3	40:BF:166:ALA:HB1	1.88	0.56
35:BA:322:A:OP2	40:BF:169:ASN:HB2	2.05	0.56
54:BX:21:PHE:CE1	54:BX:26:TYR:HB3	2.41	0.56
47:DQ:81:VAL:HG23	47:DQ:82:ARG:HG2	1.86	0.56
36:DB:21:G:N3	36:DB:21:G:H2'	2.20	0.56
1:CA:236:G:H2'	1:CA:237:C:C6	2.40	0.56
35:DA:132:G:H5'	35:DA:132:G:C8	2.35	0.56
35:DA:2579:C:C2'	35:DA:2580:U:H5'	2.35	0.56
35:DA:2801:A:O2'	35:DA:2895:U:H4'	2.06	0.56
35:BA:292:C:N4	35:BA:348:G:H1	2.02	0.56
9:AI:14:VAL:O	9:AI:65:VAL:HG23	2.05	0.56
7:AG:50:ILE:O	7:AG:54:THR:O	2.23	0.56
35:BA:203:C:H2'	35:BA:204:A:C8	2.40	0.56
35:DA:705:A:O2'	35:DA:706:A:H5'	2.04	0.56
35:BA:2836:U:H2'	35:BA:2837:G:C8	2.41	0.56
7:CG:148:ASN:C	7:CG:150:ALA:H	2.07	0.56
46:DP:122:PRO:HB3	46:DP:141:ALA:CB	2.36	0.56
10:CJ:75:ILE:HG13	10:CJ:76:ASN:N	2.21	0.56
7:CG:27:ILE:HG21	7:CG:40:ALA:HB2	1.87	0.56
35:DA:2843:G:H1	35:DA:2874:C:H42	1.54	0.56
35:BA:1763:G:H4'	35:BA:1763:G:OP1	2.05	0.56
35:DA:1759:A:H2'	35:DA:1760:A:C8	2.41	0.56
17:CQ:65:ILE:N	17:CQ:65:ILE:HD12	2.20	0.56
35:DA:221:A:H4'	35:DA:222:A:O5'	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:519:C:O2'	1:AA:520:A:H5'	2.05	0.56
53:DW:9:TYR:H	53:DW:102:HIS:CD2	2.23	0.56
35:DA:1184:G:O2'	35:DA:1185:C:H5'	2.05	0.56
5:CE:133:TYR:HD1	5:CE:133:TYR:H	1.53	0.56
56:BZ:77:ASP:O	56:BZ:77:ASP:OD1	2.23	0.56
46:DP:132:LYS:O	46:DP:136:GLU:HG2	2.06	0.56
10:CJ:48:THR:HG23	10:CJ:62:HIS:N	2.21	0.56
53:DW:29:LEU:HD23	53:DW:30:GLU:N	2.21	0.56
35:BA:1795:C:H1'	35:BA:1901:A:OP1	2.06	0.56
5:CE:19:MET:O	5:CE:20:GLN:HB2	2.04	0.56
35:DA:1799:G:H4'	35:DA:1800:C:O5'	2.05	0.56
41:DG:105:LYS:HB3	41:DG:142:PRO:HG3	1.88	0.56
34:B8:38:GLY:C	34:B8:40:GLU:H	2.08	0.56
35:BA:2563:U:O2'	45:BO:28:SER:HB3	2.06	0.56
45:BO:35:VAL:H	45:BO:65:THR:HG21	1.70	0.56
42:DH:159:GLU:HA	42:DH:159:GLU:OE1	2.06	0.56
14:AN:27:CYS:SG	14:AN:29:ARG:HB2	2.46	0.56
35:BA:62:C:H2'	35:BA:63:U:H5'	1.88	0.56
39:DE:63:LEU:O	39:DE:64:LYS:C	2.44	0.56
39:DE:78:LEU:N	39:DE:78:LEU:CD2	2.69	0.56
41:BG:161:THR:CG2	41:BG:163:ALA:HB3	2.35	0.56
55:DY:74:PRO:O	55:DY:75:ILE:CB	2.54	0.56
54:DX:51:VAL:CG1	54:DX:80:ILE:H	2.18	0.56
56:DZ:8:TYR:H	56:DZ:62:PRO:CD	2.18	0.56
52:DV:34:GLU:CB	52:DV:62:LEU:HD12	2.36	0.56
35:DA:2286:A:H4'	35:DA:2287:A:O4'	2.06	0.56
35:BA:262:A:H2'	35:BA:263:C:O4'	2.05	0.56
34:D8:23:VAL:CG1	34:D8:46:ARG:NH1	2.69	0.56
44:DN:67:LEU:C	44:DN:69:GLN:H	2.09	0.56
35:BA:811:U:H1'	35:BA:1251:C:C5'	2.35	0.56
40:DF:183:VAL:O	40:DF:187:VAL:HG23	2.06	0.56
48:DR:45:ARG:HG3	48:DR:46:GLY:N	2.10	0.56
49:DS:66:ALA:HA	49:DS:69:VAL:HG12	1.87	0.56
2:AB:69:LEU:HB3	2:AB:162:ILE:HG22	1.88	0.56
46:DP:30:THR:O	46:DP:32:THR:N	2.39	0.56
4:AD:116:GLN:NE2	4:AD:157:LEU:HD21	2.21	0.56
4:AD:163:GLU:C	4:AD:165:MET:N	2.59	0.56
12:AL:9:GLN:O	12:AL:12:ARG:N	2.39	0.56
4:AD:59:ARG:HH11	4:AD:59:ARG:HG2	1.70	0.56
1:AA:449:C:H2'	1:AA:450:G:O4'	2.05	0.56
16:AP:71:ARG:NH1	16:AP:71:ARG:HG3	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CT:63:ILE:HD12	20:CT:81:LYS:CG	2.35	0.56
7:CG:29:LYS:CB	7:CG:105:VAL:HG21	2.35	0.56
12:AL:86:ARG:CG	12:AL:87:GLY:H	2.18	0.56
1:AA:685:G:N2	1:AA:706:A:H61	2.03	0.56
12:AL:38:THR:HG22	12:AL:57:LYS:C	2.26	0.56
1:CA:599:C:O3'	8:CH:96:GLY:HA2	2.06	0.56
11:AK:43:SER:OG	11:AK:47:VAL:HG11	2.06	0.56
35:DA:237:C:H2'	35:DA:238:C:C6	2.40	0.56
1:AA:1509:C:H2'	1:AA:1510:U:O4'	2.05	0.56
12:AL:90:VAL:O	12:AL:92:ASP:N	2.33	0.56
8:CH:63:LEU:HB3	8:CH:65:TYR:CE1	2.40	0.56
5:AE:146:ALA:C	5:AE:148:VAL:H	2.09	0.56
33:D7:5:TRP:NE1	33:D7:7:PRO:HG3	2.20	0.56
38:DD:186:HIS:HB3	38:DD:189:CYS:SG	2.45	0.56
19:CS:53:ASN:ND2	19:CS:53:ASN:N	2.54	0.56
35:DA:444:C:O5'	51:DU:2:PRO:HD3	2.05	0.56
2:AB:105:PHE:HA	2:AB:108:ILE:HG22	1.88	0.56
38:DD:97:TYR:HB2	38:DD:101:GLU:O	2.06	0.56
5:AE:76:ILE:HG23	5:AE:77:PRO:N	2.19	0.56
35:BA:853:G:H2'	35:BA:854:G:C8	2.39	0.56
53:DW:87:PRO:HA	53:DW:93:ALA:CB	2.35	0.56
25:CY:111:ARG:O	25:CY:115:VAL:HG23	2.05	0.56
35:BA:1717:G:C3'	35:BA:1718:G:H5''	2.33	0.56
15:AO:50:HIS:O	15:AO:53:HIS:HB3	2.05	0.56
1:CA:597:G:H2'	1:CA:598:U:C5'	2.36	0.56
23:CW:28:U:H6	23:CW:28:U:O5'	1.88	0.56
35:DA:173:G:H2'	35:DA:174:C:C6	2.41	0.56
1:CA:338:A:H2'	1:CA:339:C:H6	1.71	0.56
22:CV:30:A:C4	22:CV:31:U:C5	2.91	0.56
56:BZ:139:VAL:O	56:BZ:141:VAL:HG12	2.04	0.56
19:AS:43:GLU:O	19:AS:45:VAL:N	2.38	0.56
1:AA:297:G:H2'	1:AA:299:G:OP2	2.05	0.56
1:AA:359:U:H2'	1:AA:360:A:C8	2.40	0.56
35:BA:2888:C:H2'	35:BA:2889:C:H6	1.69	0.56
35:DA:302:C:H42	35:DA:315:G:H1	1.54	0.56
37:DC:56:GLN:HE22	37:DC:169:GLY:H	1.53	0.56
4:CD:91:SER:HA	4:CD:94:LEU:HD12	1.87	0.56
35:BA:1488:G:O6	35:BA:1501:C:N4	2.39	0.56
35:DA:271(L):U:H4'	35:DA:271(M):G:C5	2.40	0.56
39:DE:113:PHE:CE2	39:DE:158:GLY:HA2	2.41	0.56
50:BT:34:VAL:O	50:BT:34:VAL:HG12	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DV:58:VAL:HG12	52:DV:101:GLY:O	2.06	0.56
35:DA:2682:U:O2	39:DE:22:PRO:HB3	2.06	0.56
35:DA:2692:C:O2'	35:DA:2693:A:H5'	2.06	0.56
38:BD:211:ARG:HA	38:BD:214:TRP:CD2	2.40	0.56
38:DD:265:PRO:HG2	38:DD:266:SER:N	2.17	0.56
41:DG:132:ASN:ND2	41:DG:133:LEU:H	2.04	0.56
41:DG:51:ARG:HH12	41:DG:53:LEU:HG	1.61	0.56
45:BO:31:LYS:HB3	45:BO:32:TYR:CD1	2.41	0.56
50:BT:94:ALA:CB	50:BT:99:LEU:HD23	2.35	0.56
35:BA:902:C:H2'	35:BA:903:C:C6	2.41	0.56
39:BE:52:LEU:HD12	39:BE:53:PRO:CD	2.36	0.56
51:BU:65:ILE:HD12	51:BU:65:ILE:H	1.70	0.56
1:AA:1223:C:OP1	1:AA:1224:G:H2'	2.06	0.56
28:B2:53:LEU:O	28:B2:54:LYS:CB	2.52	0.56
35:DA:61:G:O2'	35:DA:62:C:H5'	2.05	0.56
28:D2:26:ARG:HD3	54:DX:5:TYR:HB3	1.88	0.56
42:BH:85:LYS:HE3	42:BH:144:VAL:HB	1.88	0.56
52:DV:18:LEU:O	52:DV:19:LYS:O	2.24	0.56
49:BS:66:ALA:HA	49:BS:69:VAL:HG12	1.88	0.56
1:CA:436:C:O2'	1:CA:437:U:P	2.64	0.56
1:CA:501:C:O2'	1:CA:502:G:H5'	2.05	0.56
4:CD:108:LEU:O	4:CD:110:PHE:CD1	2.59	0.56
3:CC:16:ARG:NH1	3:CC:16:ARG:CB	2.68	0.56
35:BA:1189:A:C2	35:BA:1190:G:H1'	2.40	0.56
35:BA:1197:G:H5'	35:BA:1227:G:O2'	2.06	0.56
35:BA:27:G:N2	35:BA:512:G:C2'	2.69	0.56
35:BA:28:A:H1'	35:BA:513:A:C2	2.41	0.56
40:DF:184:TYR:CD2	40:DF:185:ASP:N	2.73	0.56
40:DF:125:LEU:HB3	40:DF:196:LEU:HD21	1.88	0.56
20:AT:72:LEU:HB3	20:AT:76:ALA:HB1	1.88	0.56
48:BR:24:GLN:CB	48:BR:44:LEU:HD21	2.32	0.56
2:CB:81:VAL:HG22	2:CB:215:LEU:HG	1.88	0.56
6:CF:23:LYS:O	6:CF:27:GLN:HG2	2.05	0.56
2:CB:169:LYS:HB3	2:CB:170:GLU:OE2	2.06	0.56
1:AA:1320:C:H5'	19:AS:70:LYS:HE3	1.88	0.56
19:AS:4:SER:N	19:AS:6:LYS:HZ1	2.03	0.56
6:AF:27:GLN:HE21	6:AF:27:GLN:HA	1.69	0.56
35:DA:2020:A:N1	35:DA:2034:U:O4	2.38	0.56
35:DA:568:U:H2'	35:DA:570:G:OP2	2.06	0.56
7:AG:26:PHE:HB2	7:AG:62:PHE:CZ	2.41	0.56
25:CY:10:THR:C	25:CY:12:SER:N	2.59	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1325:C:H2'	1:AA:1326:C:H5'	1.88	0.56
25:AY:101:ILE:N	25:AY:101:ILE:HD12	2.20	0.56
33:B7:34:ARG:O	33:B7:36:GLN:N	2.38	0.56
35:BA:684:G:H22	35:BA:787:U:H2'	1.70	0.56
8:CH:109:ILE:CG1	8:CH:110:ALA:N	2.69	0.56
35:BA:2328:A:H2'	35:BA:2329:G:C8	2.41	0.56
46:DP:16:ARG:NE	46:DP:18:ARG:HB2	2.21	0.56
5:AE:19:MET:O	5:AE:20:GLN:HB2	2.05	0.56
43:DI:6:LEU:O	43:DI:15:VAL:HG12	2.06	0.56
1:AA:522:C:H2'	1:AA:523:A:C8	2.41	0.56
35:DA:272:G:H1'	35:DA:272(B):G:O4'	2.06	0.56
5:CE:147:ASP:HA	5:CE:150:ARG:NH1	2.16	0.56
35:BA:543:C:H6	35:BA:547:A:C8	2.24	0.56
38:DD:79:VAL:HG11	38:DD:112:GLN:O	2.06	0.56
35:BA:2308:G:O6	35:BA:2310:A:H2'	2.05	0.56
35:DA:2589:A:H2'	35:DA:2590:A:C8	2.41	0.56
29:B3:43:ILE:O	29:B3:47:VAL:HG23	2.06	0.56
35:BA:1688:U:H5'	35:BA:1689:A:OP1	2.06	0.56
1:CA:64:G:H3'	1:CA:64:G:OP1	2.05	0.56
1:AA:579:G:H5'	1:AA:728:A:H1'	1.87	0.56
1:AA:1296:C:H5'	1:AA:1297:C:OP2	2.06	0.56
12:CL:38:THR:HG22	12:CL:57:LYS:C	2.25	0.56
35:DA:212:G:O2'	35:DA:213:A:H5'	2.05	0.56
1:AA:1367:C:OP1	9:AI:115:GLY:N	2.39	0.56
35:DA:1843:C:C1'	38:DD:255:LYS:HZ3	2.18	0.56
45:DO:87:ILE:HD12	45:DO:92:GLU:N	2.20	0.56
1:CA:1293:G:HO2'	1:CA:1294:G:H8	1.52	0.56
7:AG:36:LYS:HA	7:AG:39:ALA:CB	2.36	0.56
44:BN:3:THR:O	44:BN:5:VAL:N	2.28	0.56
35:BA:1322:A:O2'	35:BA:1323:U:H5'	2.05	0.56
35:BA:1553:A:H2'	35:BA:1554:A:H5''	1.88	0.56
35:BA:121:G:H2'	35:BA:122:G:H8	1.71	0.56
35:BA:66:C:C2'	35:BA:67:U:H5'	2.35	0.56
55:DY:83:THR:HG22	55:DY:84:ARG:N	2.21	0.56
43:BI:41:GLU:HA	43:BI:44:LEU:HB3	1.88	0.56
48:BR:104:ARG:O	48:BR:106:GLY:N	2.38	0.56
35:BA:658:C:H2'	35:BA:659:C:H6	1.70	0.56
35:DA:2687:U:O2'	35:DA:2688:U:H5'	2.05	0.56
1:AA:1516:G:H2'	1:AA:1518:A:OP2	2.06	0.56
1:CA:1131:G:H2'	1:CA:1132:C:C6	2.41	0.56
50:DT:99:LEU:O	50:DT:99:LEU:HD13	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1208:C:H2'	1:CA:1209:C:C6	2.41	0.56
1:CA:1223:C:OP1	1:CA:1224:G:H2'	2.06	0.56
38:DD:270:ILE:O	38:DD:270:ILE:HD12	2.05	0.56
38:DD:92:ILE:HA	38:DD:107:ALA:CB	2.36	0.56
35:DA:2307:G:H21	35:DA:2308:G:H5'	1.70	0.56
34:B8:30:ARG:O	34:B8:30:ARG:HG3	2.05	0.56
35:DA:1030:G:OP2	47:DQ:128:LYS:HE2	2.06	0.56
45:BO:61:VAL:O	45:BO:84:ALA:CB	2.47	0.56
36:BB:74:U:H2'	36:BB:75:G:C5'	2.18	0.56
56:BZ:53:ILE:HG22	56:BZ:71:VAL:HB	1.88	0.56
39:DE:120:TRP:NE1	39:DE:155:LYS:HB3	2.21	0.56
35:DA:1417:C:O2'	35:DA:1418:G:H5'	2.05	0.56
51:BU:52:ARG:O	51:BU:54:LYS:N	2.38	0.56
52:BV:18:LEU:O	52:BV:19:LYS:O	2.23	0.56
52:BV:32:THR:CG2	52:BV:33:VAL:H	2.14	0.56
52:BV:40:LEU:HD13	52:BV:40:LEU:O	2.06	0.56
28:B2:15:LYS:O	28:B2:19:VAL:HG23	2.06	0.56
41:BG:140:ILE:HD11	41:BG:141:PHE:CE2	2.41	0.56
41:BG:91:ARG:CG	41:BG:92:VAL:N	2.69	0.56
28:D2:56:GLN:HG3	35:DA:76:C:O2'	2.06	0.56
54:DX:9:LEU:HG	54:DX:29:TRP:O	2.06	0.56
35:BA:483:A:H3'	35:BA:484:C:H6	1.71	0.56
56:DZ:59:LEU:H	56:DZ:59:LEU:HD23	1.71	0.56
19:CS:10:PHE:HE2	19:CS:70:LYS:HZ1	1.53	0.56
40:BF:110:LEU:O	40:BF:113:ALA:HB3	2.05	0.56
5:CE:50:GLU:OE2	5:CE:51:VAL:HG23	2.05	0.56
27:D1:9:GLY:N	27:D1:48:LYS:HZ2	2.03	0.56
46:BP:30:THR:O	46:BP:32:THR:N	2.39	0.56
35:BA:2713:A:C3'	35:BA:2714:G:H5'	2.36	0.56
2:CB:238:LEU:O	2:CB:239:VAL:C	2.43	0.56
44:DN:56:ASN:HA	44:DN:125:GLY:N	2.20	0.56
6:CF:100:ASN:HB3	18:CR:28:GLU:HA	1.88	0.56
2:CB:159:PRO:O	2:CB:161:ALA:N	2.38	0.56
1:AA:437:U:O2'	1:AA:438:G:H5'	2.06	0.56
55:DY:31:LEU:HG	55:DY:34:LYS:HB2	1.88	0.56
1:AA:539:A:H2'	1:AA:540:G:H8	1.70	0.56
4:AD:58:LEU:O	4:AD:59:ARG:C	2.43	0.56
47:DQ:9:TYR:CG	47:DQ:9:TYR:O	2.58	0.56
6:AF:70:ASP:CG	6:AF:71:ARG:H	2.09	0.56
6:AF:80:ARG:CG	6:AF:88:VAL:HB	2.36	0.56
1:AA:939:G:H5''	7:AG:102:ARG:HH12	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:AP:71:ARG:HH11	16:AP:71:ARG:HG3	1.69	0.56
35:BA:2128:C:O2'	35:BA:2163:C:OP1	2.18	0.56
11:CK:23:ALA:HA	11:CK:28:THR:CG2	2.36	0.56
7:AG:83:ALA:C	7:AG:84:ASN:HD22	2.08	0.56
1:AA:1226:C:H4'	1:AA:1227:A:OP1	2.06	0.56
33:D7:16:HIS:HD1	33:D7:21:ARG:HH22	1.52	0.56
46:BP:107:LYS:O	46:BP:109:GLY:N	2.38	0.56
1:AA:802:A:H2'	1:AA:803:G:H5'	1.88	0.56
20:CT:14:LYS:HA	20:CT:17:ARG:HE	1.71	0.56
35:DA:1485:G:H2'	35:DA:1486:A:H8	1.71	0.56
38:BD:145:VAL:HB	38:BD:155:LEU:HB2	1.88	0.56
35:DA:1688:U:H1'	35:DA:1701:A:C6	2.41	0.56
53:BW:74:ALA:C	53:BW:75:TYR:CD1	2.79	0.56
1:CA:1276:G:H2'	1:CA:1277:C:H5'	1.87	0.56
15:AO:85:LEU:HD12	15:AO:87:ILE:HD11	1.88	0.56
28:D2:30:ARG:HH11	28:D2:30:ARG:HG3	1.70	0.56
38:DD:257:LEU:C	38:DD:257:LEU:CD2	2.74	0.56
1:AA:899:C:H2'	1:AA:900:A:O4'	2.05	0.56
35:BA:2009:G:H1'	48:BR:107:ASP:O	2.06	0.56
17:AQ:12:SER:HB3	17:AQ:20:THR:OG1	2.06	0.56
1:AA:1292:U:H2'	1:AA:1293:G:H8	1.69	0.56
45:BO:4:PRO:O	45:BO:5:GLN:HB3	2.04	0.56
1:CA:284:G:H2'	1:CA:285:G:C8	2.41	0.56
1:AA:189(H):G:H2'	1:AA:189(I):G:C8	2.41	0.56
38:DD:125:ILE:CD1	38:DD:125:ILE:H	2.19	0.56
4:CD:25:ARG:C	4:CD:27:TYR:H	2.09	0.56
53:DW:59:VAL:HG12	53:DW:60:ASN:N	2.20	0.56
35:BA:2687:U:O2'	35:BA:2688:U:H5'	2.05	0.56
35:BA:52:A:O2'	35:BA:53:A:H5'	2.05	0.56
13:AM:40:ASN:ND2	13:AM:43:THR:HG23	2.21	0.56
35:DA:1009:A:H2'	35:DA:1010:A:C8	2.40	0.56
35:BA:1021:A:H8	35:BA:1021:A:H3'	1.70	0.56
22:CV:36:A:H3'	22:CV:37:A:H8	1.71	0.56
35:DA:1490:A:C2	38:DD:75:ILE:HD12	2.40	0.56
45:DO:62:VAL:HG12	45:DO:63:VAL:N	2.21	0.56
41:DG:129:GLY:C	41:DG:131:TYR:N	2.58	0.56
39:BE:12:THR:CG2	50:BT:8:LYS:HE2	2.36	0.56
35:BA:2675:A:OP1	45:BO:31:LYS:HB2	2.05	0.56
50:BT:28:VAL:CG1	50:BT:46:GLU:HA	2.35	0.56
39:BE:88:GLY:O	39:BE:89:ASP:HB2	2.06	0.56
44:BN:10:GLU:HG3	44:BN:11:PRO:HD2	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BU:92:ARG:CG	51:BU:94:ASN:HB3	2.36	0.56
42:DH:105:LEU:CD2	42:DH:113:VAL:HB	2.36	0.56
28:B2:21:LEU:HD13	28:B2:50:ILE:HG22	1.88	0.56
39:DE:75:VAL:C	39:DE:77:ILE:H	2.08	0.56
2:AB:222:ILE:HG23	2:AB:223:ILE:N	2.20	0.56
41:BG:101:ILE:HG12	41:BG:105:LYS:HE3	1.88	0.56
41:BG:43:LEU:HD12	41:BG:153:ARG:HD3	1.87	0.56
41:BG:160:VAL:HG12	41:BG:161:THR:N	2.21	0.56
47:DQ:141:GLN:CD	56:DZ:89:PHE:HB3	2.27	0.56
51:DU:49:HIS:HA	51:DU:52:ARG:HB2	1.87	0.56
32:D6:12:GLU:HB3	32:D6:23:THR:HG22	1.87	0.56
4:CD:104:VAL:O	4:CD:108:LEU:HD13	2.06	0.56
4:CD:18:LYS:CE	4:CD:31:CYS:HB3	2.35	0.56
35:BA:993:G:OP1	51:BU:50:ARG:NH2	2.39	0.56
35:BA:993:G:H5'	52:BV:75:PHE:HZ	1.71	0.56
3:AC:182:ILE:HG23	3:AC:203:PHE:CA	2.36	0.56
35:DA:2081:C:O2'	35:DA:2082:A:H5'	2.06	0.56
15:CO:53:HIS:HE1	15:CO:57:LEU:HD21	1.71	0.56
2:CB:36:ARG:N	2:CB:41:ILE:HD13	2.21	0.56
2:CB:71:VAL:O	2:CB:164:VAL:HG22	2.06	0.56
19:AS:15:LEU:O	19:AS:19:VAL:HG23	2.06	0.56
19:AS:36:ARG:NH1	19:AS:75:ALA:HB3	2.20	0.56
4:AD:22:LYS:HG3	4:AD:26:CYS:SG	2.46	0.56
1:CA:802:A:H2'	1:CA:803:G:H5'	1.88	0.56
25:CY:30:THR:CG2	25:CY:179:LYS:HE3	2.36	0.56
1:CA:553:A:H2'	1:CA:554:C:H6	1.68	0.56
1:AA:552:U:H4'	12:AL:86:ARG:HG2	1.88	0.56
52:BV:78:LYS:HD3	52:BV:78:LYS:C	2.27	0.56
26:D0:21:LEU:CD1	26:D0:41:ARG:HD3	2.36	0.56
43:BI:109:ILE:CD1	43:BI:111:PRO:HD3	2.35	0.56
43:BI:115:ALA:O	43:BI:128:LEU:HD23	2.06	0.56
42:DH:38:SER:O	42:DH:40:GLU:N	2.39	0.56
42:DH:41:MET:HE3	42:DH:54:ARG:HA	1.88	0.56
35:DA:234:C:H2'	35:DA:235:U:C6	2.41	0.56
8:AH:11:THR:HG23	8:AH:14:ARG:NH1	2.15	0.56
9:AI:16:ARG:O	9:AI:63:ILE:HG22	2.06	0.56
35:BA:2092:U:C4'	35:BA:2093:G:H5''	2.31	0.56
7:CG:83:ALA:C	7:CG:84:ASN:HD22	2.09	0.56
16:AP:14:ASN:H	16:AP:15:PRO:HD3	1.67	0.56
33:D7:19:ARG:HG2	33:D7:19:ARG:HH11	1.71	0.56
54:DX:65:ARG:NE	54:DX:66:LEU:H	2.03	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:627:A:H4'	35:DA:628:G:OP1	2.05	0.56
5:CE:150:ARG:NH1	5:CE:150:ARG:CB	2.69	0.56
38:DD:135:PHE:CD1	38:DD:135:PHE:N	2.71	0.56
35:BA:2589:A:H2'	35:BA:2590:A:H8	1.71	0.56
1:CA:1415:G:C4	1:CA:1486:G:C2	2.93	0.56
35:DA:2221:G:H5'	35:DA:2222:G:OP2	2.06	0.56
32:D6:20:ASN:ND2	32:D6:21:TYR:N	2.52	0.56
35:DA:1930:G:H22	35:DA:1968:G:C2'	2.19	0.56
1:CA:726:C:H2'	1:CA:727:G:C8	2.40	0.56
16:CP:45:THR:HG22	16:CP:47:ASP:N	2.19	0.56
35:DA:1744:C:O2'	35:DA:1745:C:H5'	2.06	0.56
38:DD:257:LEU:HD23	38:DD:258:LYS:N	2.21	0.56
16:CP:8:ARG:NH2	16:CP:15:PRO:HG3	2.21	0.56
1:CA:1109:C:H2'	1:CA:1110:A:O4'	2.06	0.56
35:DA:1447:G:H2'	35:DA:1448:G:H8	1.71	0.56
4:AD:80:GLU:C	4:AD:84:LYS:HZ3	2.09	0.56
35:BA:648:G:H4'	35:BA:2351:G:H5''	1.87	0.56
53:DW:35:ILE:HG22	53:DW:36:LEU:N	2.20	0.56
44:BN:137:LYS:HG2	44:BN:138:LEU:N	2.20	0.56
6:CF:37:VAL:HA	6:CF:65:VAL:CG1	2.36	0.56
52:BV:52:VAL:O	52:BV:54:GLY:N	2.38	0.56
35:DA:1197:G:H2'	35:DA:1198:U:H6	1.69	0.56
1:AA:652:U:H1'	1:AA:653:A:H2	1.69	0.56
13:CM:40:ASN:ND2	13:CM:43:THR:HG23	2.21	0.56
3:CC:66:VAL:O	3:CC:66:VAL:HG12	2.06	0.56
55:DY:6:HIS:N	55:DY:6:HIS:ND1	2.53	0.56
35:DA:2870:C:C2'	35:DA:2871:C:H5'	2.35	0.56
50:DT:102:ILE:CB	50:DT:110:ILE:HD11	2.35	0.55
35:BA:1824:G:H2'	35:BA:1825:A:H8	1.71	0.55
35:BA:778:G:C5'	38:BD:48:ARG:HD2	2.36	0.55
38:BD:64:ILE:HG23	38:BD:64:ILE:O	2.05	0.55
41:DG:59:GLU:O	41:DG:63:ILE:HG23	2.06	0.55
35:BA:1002:G:H2'	35:BA:1003:G:O4'	2.05	0.55
51:BU:91:ASP:O	51:BU:95:LEU:HB2	2.07	0.55
35:BA:94:C:H5'	35:BA:94(A):G:OP2	2.07	0.55
27:B1:58:ILE:CD1	27:B1:87:PRO:HB3	2.36	0.55
41:BG:166:ASP:O	41:BG:170:ARG:HB2	2.06	0.55
41:BG:69:ALA:HB1	41:BG:91:ARG:HE	1.71	0.55
54:DX:57:LEU:HB2	54:DX:76:ARG:CD	2.33	0.55
54:DX:82:GLN:HB3	54:DX:85:PRO:HG2	1.88	0.55
42:BH:153:LYS:N	42:BH:153:LYS:HD3	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2476:A:N3	35:DA:2477:C:H5'	2.21	0.55
47:DQ:140:ALA:HB3	56:DZ:53:ILE:HD12	1.87	0.55
56:DZ:57:ILE:HG22	56:DZ:59:LEU:HD23	1.87	0.55
56:DZ:24:LEU:CD1	56:DZ:86:VAL:HG23	2.30	0.55
35:DA:1158:C:HO2'	35:DA:1159:U:H6	1.53	0.55
51:DU:91:ASP:OD2	51:DU:96:ALA:HA	2.05	0.55
52:DV:22:VAL:O	52:DV:23:GLU:HB2	2.04	0.55
43:DI:87:LYS:HZ3	43:DI:121:LYS:HG2	1.70	0.55
3:CC:153:VAL:HG12	3:CC:154:SER:N	2.21	0.55
46:BP:13:ASN:HD22	46:BP:13:ASN:N	2.02	0.55
27:D1:66:HIS:NE2	35:DA:372:G:H3'	2.21	0.55
27:D1:71:TYR:HA	27:D1:74:VAL:HG23	1.87	0.55
35:BA:586:A:H2	35:BA:809:G:N3	2.04	0.55
52:BV:71:LEU:O	52:BV:90:PRO:HA	2.06	0.55
47:BQ:9:TYR:CG	47:BQ:9:TYR:O	2.59	0.55
48:DR:70:LEU:O	48:DR:71:GLN:HB2	2.06	0.55
1:AA:1427:U:H2'	1:AA:1428:A:C8	2.41	0.55
6:CF:71:ARG:O	6:CF:73:ASN:N	2.38	0.55
35:DA:1189:A:C2	35:DA:1190:G:H1'	2.41	0.55
35:DA:993:G:H5'	52:DV:75:PHE:HZ	1.68	0.55
35:DA:674:G:P	40:DF:54:ARG:HH22	2.29	0.55
35:DA:1215:G:H2'	35:DA:1216:G:C8	2.41	0.55
1:CA:1226:C:H4'	1:CA:1227:A:OP1	2.06	0.55
17:CQ:29:HIS:HE1	17:CQ:31:LEU:HB3	1.71	0.55
16:CP:60:LEU:C	16:CP:62:VAL:H	2.09	0.55
35:BA:1423:G:H2'	35:BA:1424:G:H8	1.70	0.55
2:CB:101:MET:O	2:CB:108:ILE:HG21	2.05	0.55
1:AA:691:G:H1	11:AK:52:GLY:HA2	1.71	0.55
7:AG:79:ARG:NE	7:AG:84:ASN:ND2	2.52	0.55
8:AH:109:ILE:CG1	8:AH:110:ALA:N	2.67	0.55
1:AA:18:C:P	5:AE:127:ASN:HD21	2.30	0.55
2:AB:169:LYS:HB3	2:AB:170:GLU:OE2	2.07	0.55
7:CG:79:ARG:NE	7:CG:84:ASN:ND2	2.51	0.55
29:B3:4:LEU:HD21	29:B3:56:VAL:HG13	1.87	0.55
12:CL:89:ARG:O	12:CL:89:ARG:HD3	2.06	0.55
27:D1:21:ARG:HD3	27:D1:22:GLY:N	2.20	0.55
28:D2:60:LEU:HB3	28:D2:61:LEU:HD23	1.87	0.55
1:CA:112:G:O2'	1:CA:113:G:H5'	2.05	0.55
5:AE:139:LEU:HA	5:AE:142:LEU:CD1	2.33	0.55
38:BD:143:HIS:HB3	38:BD:194:GLY:O	2.05	0.55
35:DA:2266:A:H4'	35:DA:2267:A:C2	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1469:G:H2'	1:CA:1470:G:H8	1.71	0.55
35:BA:154:G:H2'	35:BA:154(A):C:O2	2.06	0.55
1:CA:1244:C:H2'	1:CA:1245:A:H8	1.71	0.55
1:AA:498:U:C2'	1:AA:498:U:O2	2.55	0.55
35:DA:2380:C:H2'	35:DA:2381:C:C6	2.41	0.55
35:DA:2233:U:H2'	35:DA:2234:G:C8	2.41	0.55
7:CG:36:LYS:HA	7:CG:39:ALA:CB	2.36	0.55
35:BA:2111:C:H1'	35:BA:2118:U:O4'	2.06	0.55
35:BA:302:C:O2'	35:BA:303:U:H5'	2.05	0.55
1:CA:965:A:C2	1:CA:969:A:C2	2.94	0.55
26:B0:56:ASP:CG	26:B0:58:THR:HG1	2.09	0.55
35:BA:1960:A:O2'	35:BA:1961:C:H5'	2.07	0.55
23:CW:22:A:N6	23:CW:47:G:H1'	2.21	0.55
1:AA:1261:A:H62	1:AA:1274:G:H21	1.54	0.55
40:BF:60:SER:OG	40:BF:61:GLY:N	2.37	0.55
35:DA:147:U:H2'	35:DA:148:C:H6	1.71	0.55
45:DO:63:VAL:HB	45:DO:102:VAL:HG12	1.88	0.55
50:DT:27:THR:OG1	50:DT:28:VAL:N	2.36	0.55
50:DT:28:VAL:O	50:DT:29:ARG:HD3	2.07	0.55
38:BD:96:HIS:HA	38:BD:102:LYS:HG2	1.87	0.55
5:CE:131:ILE:N	5:CE:131:ILE:HD13	2.21	0.55
35:DA:1776:G:C2	35:DA:1777:U:C6	2.94	0.55
35:DA:1778:U:H2'	35:DA:1779:U:C6	2.41	0.55
35:DA:1821:A:H2'	35:DA:1822:G:H8	1.71	0.55
38:DD:264:LYS:HE3	38:DD:266:SER:HB2	1.88	0.55
41:DG:102:PHE:HA	41:DG:105:LYS:NZ	2.21	0.55
39:BE:11:MET:HB2	39:BE:23:VAL:O	2.06	0.55
39:DE:141:ILE:HG12	39:DE:142:GLY:H	1.69	0.55
39:BE:47:VAL:HG12	39:BE:49:LEU:HD21	1.88	0.55
10:AJ:62:HIS:N	10:AJ:62:HIS:CD2	2.74	0.55
28:B2:14:ARG:O	28:B2:16:LEU:N	2.39	0.55
54:BX:52:VAL:H	54:BX:80:ILE:CG2	2.20	0.55
39:DE:81:ILE:O	39:DE:82:ARG:O	2.24	0.55
27:B1:45:ASN:O	27:B1:46:LEU:C	2.44	0.55
54:DX:35:THR:O	54:DX:39:ILE:HG23	2.06	0.55
52:DV:33:VAL:HG13	52:DV:62:LEU:H	1.70	0.55
44:BN:67:LEU:C	44:BN:69:GLN:H	2.10	0.55
25:AY:93:SER:O	25:AY:99:LEU:HD23	2.06	0.55
27:D1:76:ARG:O	27:D1:77:ALA:CB	2.54	0.55
40:BF:57:VAL:HG12	40:BF:58:ALA:N	2.19	0.55
48:DR:28:LEU:HA	48:DR:34:ILE:HD11	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BR:28:LEU:HA	48:BR:34:ILE:HD11	1.87	0.55
2:AB:159:PRO:O	2:AB:161:ALA:N	2.39	0.55
1:CA:674:G:H2'	1:CA:675:A:C8	2.35	0.55
6:CF:39:LYS:HG2	6:CF:40:VAL:N	2.21	0.55
1:CA:741:G:H5'	15:CO:39:LEU:CD2	2.36	0.55
15:CO:33:THR:OG1	15:CO:63:ARG:HD2	2.07	0.55
34:D8:3:LYS:O	34:D8:4:MET:O	2.23	0.55
18:AR:36:ASN:HB2	18:AR:39:VAL:HG21	1.88	0.55
25:CY:156:ARG:O	25:CY:157:ALA:C	2.44	0.55
1:CA:959:A:H2'	1:CA:960:U:C4'	2.36	0.55
13:CM:91:ARG:HG3	13:CM:98:VAL:HG13	1.88	0.55
25:AY:15:GLN:HA	25:AY:168:PHE:CE2	2.41	0.55
1:CA:939:G:H5''	7:CG:102:ARG:CZ	2.37	0.55
1:AA:553:A:H2'	1:AA:554:C:H6	1.71	0.55
35:BA:2246:G:H2'	35:BA:2247:A:H8	1.72	0.55
1:AA:192:U:H2'	1:AA:193:C:C6	2.41	0.55
1:CA:1347:G:C2	1:CA:1373:G:H2'	2.41	0.55
8:AH:9:MET:O	8:AH:13:ILE:HG12	2.05	0.55
35:BA:2528:U:H2'	35:BA:2530:A:O5'	2.05	0.55
47:DQ:137:TYR:HE2	56:DZ:76:LEU:HD21	1.70	0.55
9:AI:117:HIS:HB2	9:AI:121:ARG:HD2	1.88	0.55
18:CR:58:LEU:HD12	18:CR:58:LEU:N	2.13	0.55
50:BT:13:ARG:HH12	50:BT:15:VAL:HG12	1.67	0.55
40:BF:154:VAL:HB	40:BF:173:VAL:HG22	1.88	0.55
53:DW:8:ARG:HG3	53:DW:8:ARG:HH11	1.71	0.55
1:AA:1514:C:H2'	1:AA:1515:C:H6	1.69	0.55
17:AQ:58:GLU:HB2	17:AQ:74:LEU:HB3	1.88	0.55
35:BA:149:A:H2'	35:BA:150:C:C6	2.41	0.55
27:D1:19:GLN:HE21	35:DA:379:G:N2	2.03	0.55
3:AC:87:LEU:HB3	3:AC:101:LEU:HD11	1.88	0.55
1:AA:597:G:H2'	1:AA:598:U:C5'	2.36	0.55
13:AM:77:ASN:O	13:AM:81:LEU:HG	2.05	0.55
4:CD:128:VAL:C	4:CD:130:GLY:N	2.59	0.55
2:AB:22:LYS:HZ3	2:AB:22:LYS:HA	1.70	0.55
54:DX:14:SER:O	54:DX:17:ALA:N	2.40	0.55
11:CK:17:GLY:HA3	11:CK:79:SER:O	2.07	0.55
1:AA:1365:G:O2'	1:AA:1366:C:H5'	2.07	0.55
35:DA:860:U:O2'	35:DA:861:A:H5'	2.05	0.55
56:BZ:61:LEU:CB	56:BZ:65:GLN:HB3	2.35	0.55
35:BA:481:G:HO2'	35:BA:482:A:P	2.29	0.55
1:CA:180:U:H2'	1:CA:181:G:H5''	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:302:C:H42	35:BA:315:G:H1	1.53	0.55
35:BA:1759:A:H2'	35:BA:1760:A:C8	2.40	0.55
25:CY:35:PRO:HA	25:CY:66:LEU:CD2	2.36	0.55
1:CA:859:A:H2'	1:CA:860:A:O4'	2.05	0.55
1:CA:363:A:C2	12:CL:31:PRO:HG2	2.42	0.55
8:AH:91:ARG:HH11	8:AH:91:ARG:CG	2.19	0.55
35:DA:1839:G:H8	35:DA:1839:G:H5'	1.70	0.55
35:DA:1848:A:H2'	35:DA:1849:G:H8	1.71	0.55
35:DA:13:A:C2	35:DA:526:A:C5	2.94	0.55
5:CE:10:MET:HG2	5:CE:10:MET:O	2.05	0.55
20:CT:8:ARG:HD2	20:CT:8:ARG:N	2.21	0.55
41:BG:39:ILE:HD11	41:BG:155:MET:SD	2.46	0.55
35:DA:127:A:H5''	35:DA:128:C:O4'	2.06	0.55
37:DC:99:ILE:HG22	37:DC:99:ILE:O	2.06	0.55
55:DY:45:VAL:HG22	55:DY:62:GLU:CB	2.32	0.55
50:DT:65:LYS:HZ1	50:DT:65:LYS:HA	1.69	0.55
14:CN:41:ARG:O	14:CN:44:LEU:HB3	2.06	0.55
35:BA:1790:C:H5''	35:BA:1791:A:OP1	2.05	0.55
35:BA:763:G:C4	35:BA:765:G:C8	2.94	0.55
5:CE:12:LEU:CD1	5:CE:31:LEU:HB3	2.34	0.55
41:DG:40:ASN:H	41:DG:157:ILE:HA	1.71	0.55
16:AP:20:VAL:CG2	16:AP:21:VAL:N	2.68	0.55
56:BZ:127:LYS:N	56:BZ:164:ALA:CB	2.66	0.55
47:BQ:141:GLN:CD	56:BZ:89:PHE:HB3	2.27	0.55
39:DE:116:VAL:CG2	39:DE:117:MET:N	2.69	0.55
39:BE:77:ILE:HG22	39:BE:79:ARG:HD2	1.88	0.55
39:DE:57:LYS:HD3	39:DE:59:VAL:HG12	1.88	0.55
41:BG:138:GLN:OE1	41:BG:153:ARG:HB2	2.06	0.55
41:BG:47:LYS:O	41:BG:51:ARG:HG2	2.06	0.55
35:DA:137:C:C2'	35:DA:139:G:H5'	2.36	0.55
35:DA:995:C:C2	51:DU:57:PHE:CE2	2.94	0.55
47:DQ:53:ALA:O	47:DQ:56:ARG:HB3	2.07	0.55
49:BS:93:LYS:HD2	49:BS:93:LYS:O	2.06	0.55
35:BA:565:C:O3'	52:BV:81:TYR:CE1	2.60	0.55
40:DF:110:LEU:O	40:DF:113:ALA:HB3	2.06	0.55
40:DF:41:LEU:O	40:DF:44:ARG:HG3	2.07	0.55
35:DA:1652:A:N6	35:DA:1653:G:N2	2.54	0.55
48:DR:55:ALA:HB1	48:DR:84:ALA:HB2	1.89	0.55
2:CB:87:ARG:CZ	2:CB:233:SER:HB3	2.36	0.55
44:DN:58:ASP:OD1	44:DN:124:ALA:HB1	2.05	0.55
44:DN:26:LEU:CD2	44:DN:30:ILE:HD11	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2467:C:O2'	35:BA:2468:G:H5'	2.06	0.55
15:CO:82:ILE:O	15:CO:82:ILE:HD13	2.06	0.55
47:DQ:76:LYS:H	47:DQ:88:GLY:HA3	1.70	0.55
7:AG:29:LYS:CB	7:AG:105:VAL:HG21	2.35	0.55
35:DA:514:A:H2'	35:DA:515:A:C8	2.40	0.55
16:AP:48:TRP:HE3	16:AP:49:LEU:N	2.03	0.55
51:BU:21:ALA:CB	51:BU:35:ALA:HB1	2.36	0.55
11:CK:23:ALA:HA	11:CK:28:THR:HG23	1.87	0.55
16:CP:64:ALA:O	16:CP:65:GLN:C	2.45	0.55
8:CH:119:LEU:HD12	8:CH:124:ALA:N	2.20	0.55
55:BY:31:LEU:HG	55:BY:34:LYS:HB2	1.88	0.55
35:DA:662:G:O3'	46:DP:20:GLY:HA2	2.06	0.55
35:DA:1245:G:C3'	46:DP:16:ARG:HH22	2.15	0.55
1:AA:1508:G:H2'	1:AA:1509:C:C6	2.42	0.55
5:AE:43:LEU:HD12	5:AE:44:GLY:N	2.21	0.55
1:CA:1349:A:H2'	1:CA:1350:A:H8	1.72	0.55
12:CL:60:LEU:HD22	12:CL:60:LEU:H	1.71	0.55
12:CL:89:ARG:HB2	12:CL:89:ARG:HH11	1.70	0.55
42:BH:55:PRO:HG2	42:BH:61:HIS:NE2	2.22	0.55
9:CI:95:LYS:NZ	9:CI:96:LEU:HD13	2.20	0.55
46:BP:96:THR:O	46:BP:99:LEU:HB3	2.06	0.55
16:CP:48:TRP:HE3	16:CP:49:LEU:H	1.54	0.55
23:AW:73:A:H5'	23:AW:74:A:P	2.47	0.55
1:CA:391:G:N1	1:CA:392:G:C5	2.74	0.55
35:DA:270:A:O2'	35:DA:271:A:H5'	2.06	0.55
3:CC:84:ILE:HD11	3:CC:88:ARG:NH2	2.20	0.55
35:BA:523:C:C2'	35:BA:524:U:H5'	2.36	0.55
35:DA:1612:C:C2'	35:DA:1613:G:O5'	2.55	0.55
4:CD:128:VAL:O	4:CD:130:GLY:N	2.38	0.55
15:AO:67:LEU:HD22	15:AO:78:TYR:HE1	1.72	0.55
35:DA:878:A:H3'	35:DA:879:G:C8	2.41	0.55
45:BO:13:ASN:HD22	45:BO:97:ARG:HB2	1.71	0.55
35:DA:2773:C:H2'	35:DA:2774:C:H6	1.70	0.55
43:BI:58:LEU:C	43:BI:60:GLU:H	2.10	0.55
35:DA:601:C:O2	35:DA:605:C:H4'	2.05	0.55
4:AD:190:ASP:O	4:AD:191:ARG:C	2.44	0.55
35:BA:1386:C:O2'	35:BA:1387:C:H5'	2.07	0.55
35:BA:2364:C:O2'	35:BA:2365:G:H5'	2.07	0.55
35:DA:1326:U:O2'	35:DA:1327:C:H5'	2.06	0.55
35:DA:826:U:OP1	35:DA:2428:G:OP1	2.25	0.55
35:BA:827:U:H2'	35:BA:2068:U:C2	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1175:G:H2'	1:CA:1176:A:C8	2.41	0.55
53:DW:80:PRO:HD2	53:DW:100:THR:HG21	1.89	0.55
35:DA:1361:G:O2'	35:DA:1362:C:H5'	2.07	0.55
3:CC:34:LEU:HD23	3:CC:34:LEU:C	2.27	0.55
10:CJ:62:HIS:O	14:CN:59:ALA:HB3	2.06	0.55
35:BA:1792:G:O2'	35:BA:1793:C:H5'	2.07	0.55
35:BA:1902:C:H5'	38:BD:246:PRO:HD3	1.88	0.55
41:DG:99:MET:O	41:DG:103:LEU:HG	2.06	0.55
41:DG:120:LEU:HG	41:DG:179:PRO:HD2	1.88	0.55
41:DG:120:LEU:N	41:DG:179:PRO:O	2.40	0.55
35:DA:1029:A:H2'	35:DA:1030:G:O4'	2.07	0.55
50:BT:83:ILE:HD11	50:BT:84:GLN:HE21	1.70	0.55
56:BZ:36:LYS:O	56:BZ:37:VAL:HG13	2.06	0.55
51:BU:79:PHE:O	51:BU:83:LEU:HD13	2.06	0.55
35:BA:141:A:H8	35:BA:1408:C:O2'	1.89	0.55
39:DE:56:PRO:O	39:DE:57:LYS:O	2.25	0.55
27:B1:62:VAL:CG2	27:B1:67:ILE:HA	2.33	0.55
27:B1:74:VAL:O	27:B1:76:ARG:N	2.38	0.55
2:AB:87:ARG:CZ	2:AB:233:SER:HB3	2.36	0.55
41:BG:172:LEU:CA	41:BG:175:LEU:HD12	2.36	0.55
47:DQ:109:VAL:HG13	47:DQ:113:GLN:OE1	2.07	0.55
47:DQ:114:ALA:O	47:DQ:116:GLU:N	2.39	0.55
56:DZ:150:LEU:N	56:DZ:150:LEU:HD13	2.21	0.55
52:DV:2:PHE:CB	52:DV:42:GLY:HA2	2.30	0.55
1:AA:995:C:O2'	1:AA:996:A:H5'	2.06	0.55
1:CA:1321:C:H5''	1:CA:1322:C:H2'	1.88	0.55
36:BB:30:C:H2'	36:BB:31:C:O4'	2.07	0.55
4:CD:104:VAL:O	4:CD:107:ARG:HB2	2.07	0.55
4:CD:22:LYS:HB3	4:CD:22:LYS:NZ	2.20	0.55
35:BA:1029:A:H2'	35:BA:1030:G:O4'	2.06	0.55
35:DA:2639:A:C3'	35:DA:2640:G:C5'	2.84	0.55
35:BA:2570:G:H2'	35:BA:2571:C:H6	1.71	0.55
35:BA:792:G:C4'	35:BA:793:A:H5'	2.36	0.55
35:BA:833:U:H5''	46:BP:48:PRO:HB2	1.87	0.55
40:DF:125:LEU:HB3	40:DF:196:LEU:CD2	2.37	0.55
40:DF:24:LEU:HB3	40:DF:25:PRO:CD	2.37	0.55
40:DF:24:LEU:HB3	40:DF:25:PRO:HD2	1.88	0.55
35:BA:300:A:H5''	55:BY:97:ARG:HH12	1.71	0.55
48:DR:28:LEU:O	48:DR:30:THR:N	2.40	0.55
48:DR:73:VAL:HG23	48:DR:74:LYS:CD	2.35	0.55
48:DR:73:VAL:O	48:DR:76:VAL:HG12	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1326:U:O2'	35:BA:1327:C:H5'	2.06	0.55
48:BR:28:LEU:C	48:BR:28:LEU:HD13	2.27	0.55
35:BA:1453:U:H5'	48:BR:63:ARG:HE	1.71	0.55
44:DN:126:PRO:O	44:DN:127:ASP:OD1	2.24	0.55
44:BN:26:LEU:HD11	44:BN:30:ILE:HD11	1.87	0.55
18:CR:36:ASN:HB2	18:CR:39:VAL:HG21	1.88	0.55
35:BA:401:A:H2'	35:BA:402:A:C8	2.41	0.55
1:AA:1010:G:N2	1:AA:1020:U:H1'	2.21	0.55
35:BA:1252:G:N3	51:BU:33:ARG:HD2	2.22	0.55
1:AA:709:G:H2'	1:AA:710:G:H8	1.72	0.55
35:BA:1428:C:C4	35:BA:1569:A:H5''	2.41	0.55
55:BY:28:LYS:HA	55:BY:39:VAL:N	2.20	0.55
31:D5:40:LYS:HZ3	31:D5:50:GLY:HA2	1.70	0.55
35:DA:1175:U:H4'	35:DA:1176:G:C3'	2.37	0.55
16:CP:6:LEU:HD12	16:CP:6:LEU:N	2.20	0.55
38:DD:143:HIS:CE1	38:DD:192:THR:HG23	2.42	0.55
2:AB:102:LEU:CD1	2:AB:102:LEU:N	2.69	0.55
35:DA:1297:C:H2'	35:DA:1298:C:C6	2.41	0.55
35:DA:1297:C:H2'	35:DA:1298:C:H6	1.71	0.55
38:DD:145:VAL:HB	38:DD:155:LEU:CB	2.37	0.55
35:DA:2590:A:O3'	38:DD:239:ARG:HG3	2.06	0.55
13:CM:64:TRP:HE1	13:CM:66:LEU:HD12	1.72	0.55
13:AM:58:GLU:O	13:AM:62:ASN:HB3	2.06	0.55
2:AB:136:VAL:O	2:AB:140:HIS:HB2	2.07	0.55
15:AO:66:LEU:O	15:AO:69:TYR:HB3	2.07	0.55
12:CL:119:LYS:HD3	12:CL:120:TYR:HE1	1.71	0.55
2:AB:19:HIS:CD2	2:AB:20:GLU:HG2	2.42	0.55
35:BA:2465:C:O2'	35:BA:2466:C:H5'	2.05	0.55
40:DF:32:LEU:HD23	40:DF:33:LEU:N	2.22	0.55
1:CA:783:C:H42	1:CA:800:G:N2	2.04	0.55
17:CQ:9:VAL:HG12	17:CQ:10:VAL:N	2.21	0.55
45:DO:4:PRO:O	45:DO:5:GLN:HB3	2.05	0.55
1:AA:1285:A:H1'	1:AA:1286:A:OP2	2.07	0.55
56:DZ:115:GLY:HA3	56:DZ:176:PRO:HA	1.88	0.55
56:DZ:11:GLU:H	56:DZ:11:GLU:CD	2.08	0.55
51:DU:24:TYR:HB2	51:DU:29:SER:HB3	1.88	0.55
1:CA:364:A:H2'	1:CA:365:U:O2	2.06	0.55
1:AA:129(A):G:N2	1:AA:189(E):U:H1'	2.21	0.55
5:AE:101:ILE:CD1	5:AE:118:ILE:O	2.55	0.55
23:CW:11:A:H2'	23:CW:12:G:H8	1.71	0.55
1:AA:1251:A:H5''	9:AI:12:GLU:OE1	2.06	0.55

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:B6:10:LEU:HD22	32:B6:10:LEU:N	2.22	0.55
45:BO:2:ILE:CD1	45:BO:6:THR:HG21	2.36	0.55
56:BZ:125:LEU:O	56:BZ:126:VAL:HG22	2.07	0.55
56:BZ:5:LEU:HD11	56:BZ:43:GLU:O	2.05	0.55
35:BA:2632:A:H1'	39:BE:61:ARG:NH1	2.22	0.55
44:BN:43:THR:O	44:BN:44:PRO:C	2.43	0.55
42:DH:97:ARG:HD2	42:DH:104:GLU:OE1	2.07	0.55
56:DZ:17:ALA:O	56:DZ:18:LEU:C	2.45	0.55
44:DN:46:VAL:HG21	44:DN:48:MET:HG3	1.88	0.55
35:BA:607:U:OP1	40:BF:103:LYS:N	2.39	0.55
35:BA:662:G:O3'	46:BP:20:GLY:HA2	2.06	0.55
25:AY:37:LEU:C	25:AY:37:LEU:HD12	2.27	0.55
35:DA:1415:U:O2	35:DA:1415:U:H2'	2.06	0.55
48:DR:2:ARG:HD2	48:DR:2:ARG:C	2.26	0.55
35:DA:2079:U:H3	35:DA:2241:A:N6	2.05	0.55
47:BQ:114:ALA:O	47:BQ:116:GLU:N	2.40	0.55
1:CA:656:C:H4'	15:CO:62:GLN:HE22	1.71	0.55
6:CF:69:GLU:H	6:CF:69:GLU:CD	2.10	0.55
40:DF:74:ARG:O	40:DF:75:HIS:ND1	2.40	0.55
40:DF:89:VAL:CG1	40:DF:90:PHE:H	2.20	0.55
46:DP:46:LYS:CB	46:DP:52:GLU:HG2	2.37	0.55
18:AR:35:ARG:C	18:AR:37:VAL:N	2.59	0.55
25:CY:162:GLN:O	25:CY:163:LYS:C	2.45	0.55
1:AA:450:G:H4'	16:AP:41:PRO:O	2.07	0.55
1:AA:453:A:H2'	1:AA:454:C:C6	2.42	0.55
7:AG:75:VAL:HG23	7:AG:75:VAL:O	2.06	0.55
25:AY:144:ALA:HB2	25:AY:149:LEU:HD12	1.89	0.55
11:AK:57:THR:HG23	11:AK:58:PRO:HD2	1.89	0.55
11:AK:83:ILE:HA	11:AK:109:VAL:O	2.06	0.55
33:B7:30:VAL:O	33:B7:31:LEU:C	2.44	0.55
42:DH:65:HIS:ND1	42:DH:66:GLY:N	2.55	0.55
2:CB:105:PHE:HA	2:CB:108:ILE:HG22	1.87	0.55
1:CA:383:A:H2'	1:CA:384:G:C5'	2.28	0.55
12:AL:102:ARG:CG	12:AL:102:ARG:HH11	2.19	0.55
56:BZ:114:GLY:CA	56:BZ:177:PRO:HB3	2.31	0.55
35:DA:549:G:H2'	35:DA:551:G:C4'	2.36	0.55
31:D5:20:ARG:HA	31:D5:23:HIS:HD2	1.70	0.55
46:BP:100:LEU:CD2	46:BP:100:LEU:H	2.20	0.55
1:CA:452:A:C2	1:CA:453:A:C4	2.94	0.55
11:CK:30:VAL:HG21	11:CK:65:ALA:HA	1.89	0.55
13:CM:70:LEU:O	13:CM:74:VAL:HG23	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:470:A:OP1	40:DF:59:TYR:HE2	1.89	0.55
1:CA:1256:A:H61	1:CA:1278:U:H1'	1.71	0.55
13:CM:58:GLU:O	13:CM:62:ASN:HB3	2.05	0.55
35:DA:268:C:C2'	35:DA:268:C:O2	2.53	0.55
38:BD:257:LEU:C	38:BD:257:LEU:CD2	2.74	0.55
1:CA:1296:C:H3'	1:CA:1297:C:H6	1.72	0.55
35:DA:913:U:H4'	35:DA:914:C:OP1	2.06	0.55
35:BA:2720:U:O2	35:BA:2720:U:C2'	2.54	0.55
17:AQ:10:VAL:HG12	17:AQ:53:LEU:HD12	1.87	0.55
1:AA:1288:A:O2'	1:AA:1289:A:H5'	2.07	0.55
35:BA:45:C:H2'	35:BA:47:C:C6	2.42	0.55
13:CM:76:ALA:HA	13:CM:79:LYS:HD2	1.89	0.55
35:DA:1331:A:H2'	35:DA:1333:C:H5	1.71	0.55
35:BA:1515:G:H2'	35:BA:1516:C:H5'	1.88	0.55
1:AA:1031:G:H2'	1:AA:1032:G:C8	2.41	0.55
1:AA:788:U:C5	1:AA:789:U:H5	2.24	0.55
53:BW:40:ASN:O	53:BW:41:LYS:HG2	2.07	0.55
35:DA:2460:U:O2'	35:DA:2461:C:H5'	2.06	0.55
35:BA:1649:G:O2'	35:BA:1650:G:H5'	2.06	0.55
1:AA:857:C:H2'	1:AA:858:G:O4'	2.05	0.55
1:AA:781:A:H2'	1:AA:782:A:H5'	1.88	0.55
31:B5:26:THR:HG23	31:B5:26:THR:O	2.06	0.55
35:DA:66:C:C2'	35:DA:67:U:H5'	2.37	0.55
35:DA:2720:U:O2	35:DA:2720:U:C2'	2.54	0.55
50:DT:62:THR:CG2	50:DT:75:ILE:HG13	2.37	0.55
38:BD:259:THR:O	38:BD:260:ARG:C	2.45	0.55
35:BA:778:G:H5''	38:BD:48:ARG:HD2	1.88	0.55
47:DQ:38:GLU:HB2	47:DQ:127:ILE:CG2	2.37	0.55
35:BA:2852:G:H2'	35:BA:2853:C:H6	1.71	0.55
1:AA:980:C:H5'	1:AA:981:U:C5	2.41	0.55
14:AN:51:GLY:C	14:AN:53:LEU:H	2.10	0.55
39:DE:64:LYS:C	39:DE:66:HIS:N	2.59	0.55
41:BG:141:PHE:O	41:BG:144:ILE:HG22	2.07	0.55
56:DZ:10:ARG:HG3	56:DZ:38:TYR:H	1.72	0.55
44:DN:40:PRO:CB	51:DU:64:ARG:HH22	2.19	0.55
44:DN:43:THR:O	44:DN:45:ASN:N	2.40	0.55
1:CA:437:U:O2'	1:CA:438:G:H5'	2.06	0.55
1:CA:1202:G:C2'	1:CA:1203:C:H5'	2.36	0.55
34:B8:59:LYS:HG3	46:BP:49:ARG:HD2	1.89	0.55
35:BA:585:G:H2'	35:BA:1251:C:N4	2.22	0.55
40:DF:124:LEU:HD12	40:DF:125:LEU:N	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DF:45:ARG:CG	40:DF:46:ARG:H	2.19	0.55
48:DR:74:LYS:HA	48:DR:77:ARG:HD2	1.88	0.55
1:AA:1439:C:OP1	20:AT:38:LYS:HD2	2.06	0.55
20:AT:11:SER:HA	20:AT:13:LEU:HD12	1.88	0.55
35:DA:2377:A:H4'	49:DS:108:GLY:HA3	1.88	0.55
49:DS:27:SER:N	49:DS:38:GLN:O	2.39	0.55
49:DS:40:ILE:HG23	49:DS:46:VAL:O	2.07	0.55
49:DS:99:LYS:O	49:DS:101:LEU:N	2.40	0.55
6:CF:100:ASN:H	18:CR:23:LYS:NZ	2.05	0.55
19:AS:6:LYS:CD	19:AS:6:LYS:H	2.20	0.55
35:DA:79:G:O2'	35:DA:80:G:H5'	2.06	0.55
43:DI:94:ALA:C	43:DI:96:ASP:N	2.59	0.55
1:CA:1325:C:H2'	1:CA:1326:C:H5'	1.88	0.55
35:BA:1131:G:N3	35:BA:1132:A:C8	2.74	0.55
35:BA:1352:U:O2'	35:BA:1353:A:H5'	2.07	0.55
22:AV:28:G:H2'	22:AV:29:G:H8	1.72	0.55
13:AM:91:ARG:HG3	13:AM:98:VAL:HG13	1.89	0.55
43:DI:4:ILE:C	43:DI:5:LEU:HD23	2.27	0.55
9:CI:117:HIS:HB2	9:CI:121:ARG:HD2	1.89	0.55
12:AL:89:ARG:O	12:AL:89:ARG:HD3	2.07	0.55
35:DA:2888:C:H2'	35:DA:2889:C:H6	1.70	0.55
35:BA:1786:A:N1	35:BA:2606:C:H1'	2.22	0.55
11:CK:65:ALA:HB3	11:CK:97:ALA:CB	2.36	0.55
50:DT:13:ARG:HH12	50:DT:15:VAL:HG12	1.68	0.55
11:CK:96:ARG:CA	11:CK:99:GLN:HG2	2.36	0.55
35:DA:2732:G:H3'	35:DA:2733:A:C5'	2.36	0.55
35:DA:121:G:H2'	35:DA:122:G:H8	1.71	0.55
35:BA:1496:A:H2'	35:BA:1498:C:C5	2.42	0.55
40:DF:170:LEU:HD21	40:DF:172:TRP:CE2	2.42	0.55
26:D0:23:VAL:HG12	26:D0:24:LYS:N	2.22	0.55
35:BA:1114:G:H2'	35:BA:1115:G:C5'	2.32	0.55
1:CA:1463:C:H2'	1:CA:1464:G:O4'	2.06	0.55
20:CT:30:LYS:HZ3	20:CT:72:LEU:HD21	1.72	0.55
35:BA:2801:A:H4'	35:BA:2801(A):A:O5'	2.07	0.55
35:BA:2801:A:O2'	35:BA:2895:U:H4'	2.06	0.55
38:BD:146:GLU:CA	38:BD:153:ALA:HA	2.33	0.55
35:DA:2098:U:H2'	35:DA:2099:U:C6	2.42	0.55
1:AA:115:G:O2'	1:AA:116:A:OP2	2.22	0.55
35:DA:1931:U:O2'	35:DA:1932:A:H5'	2.06	0.55
5:CE:72:GLN:O	5:CE:73:ASN:HB3	2.05	0.55
35:DA:468:G:H2'	35:DA:469:G:O4'	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2801(A):A:H5'	35:DA:2802:G:C8	2.41	0.55
11:CK:80:VAL:HG23	11:CK:80:VAL:O	2.06	0.55
46:BP:56:SER:C	46:BP:58:THR:H	2.10	0.55
35:BA:201:C:C2'	35:BA:202:U:H5'	2.37	0.55
35:DA:1445(A):C:H2'	35:DA:1446:C:H6	1.70	0.55
35:DA:921:G:H2'	35:DA:922:U:C6	2.42	0.55
39:BE:173:VAL:HG12	39:BE:174:ASP:N	2.20	0.55
41:BG:96:ARG:HA	41:BG:99:MET:CE	2.36	0.55
10:CJ:32:ALA:HB1	10:CJ:75:ILE:HG13	1.89	0.55
1:AA:357:G:OP1	1:AA:366:C:O2'	2.24	0.55
19:CS:22:LEU:HD22	19:CS:27:GLU:H	1.70	0.55
53:BW:64:MET:HE2	53:BW:109:GLU:HG3	1.88	0.55
39:DE:2:LYS:CE	39:DE:95:ILE:HG22	2.37	0.55
1:AA:475:G:H2'	1:AA:476:G:H8	1.71	0.55
44:DN:75:TYR:O	44:DN:82:LEU:O	2.25	0.55
1:AA:792:A:H4'	1:AA:793:U:O5'	2.07	0.55
1:AA:856:C:H2'	1:AA:857:C:H6	1.72	0.55
35:BA:247:G:H4'	35:BA:386:G:C5	2.42	0.55
1:CA:44:G:C2	1:CA:45:U:H1'	2.42	0.55
1:AA:231:G:O2'	1:AA:232:G:H5'	2.06	0.55
3:AC:34:LEU:HD23	3:AC:34:LEU:C	2.27	0.55
35:BA:2547:U:O2'	35:BA:2548:G:H5'	2.07	0.55
35:DA:1998:G:O2'	35:DA:1999:C:H5'	2.07	0.55
35:DA:1999:C:H2'	35:DA:2000:G:C8	2.39	0.55
41:DG:22:ARG:HH11	41:DG:22:ARG:HG2	1.72	0.55
41:DG:9:ARG:O	41:DG:13:GLU:HG2	2.07	0.55
38:DD:160:GLY:N	38:DD:196:VAL:HB	2.22	0.55
41:DG:102:PHE:HA	41:DG:105:LYS:HZ1	1.72	0.55
41:DG:145:THR:OG1	41:DG:148:MET:HB3	2.07	0.55
35:BA:2863:C:C3'	35:BA:2864:G:H5''	2.37	0.55
45:BO:87:ILE:HG23	45:BO:88:ASN:N	2.22	0.55
50:BT:28:VAL:HB	50:BT:88:ILE:HG12	1.89	0.55
44:BN:46:VAL:O	44:BN:47:ALA:HB2	2.06	0.55
1:AA:972:C:H2'	10:AJ:55:LYS:HD3	1.88	0.55
28:B2:41:ILE:O	28:B2:43:GLN:N	2.40	0.55
27:B1:83:GLU:O	27:B1:85:LEU:N	2.30	0.55
54:DX:33:LYS:C	54:DX:35:THR:H	2.09	0.55
56:DZ:40:ASP:O	56:DZ:44:PHE:HB2	2.05	0.55
19:CS:15:LEU:O	19:CS:19:VAL:HG23	2.07	0.55
49:BS:99:LYS:O	49:BS:101:LEU:N	2.40	0.55
43:DI:87:LYS:CE	43:DI:121:LYS:HG2	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DI:83:ALA:HA	43:DI:89:TYR:HD1	1.72	0.55
35:BA:662:G:O2'	35:BA:663:G:H5'	2.07	0.55
27:D1:69:LYS:NZ	35:DA:372:G:P	2.80	0.55
35:BA:565:C:H2'	35:BA:566:U:H6	1.72	0.55
2:AB:36:ARG:NE	2:AB:37:ASN:H	2.05	0.55
2:AB:61:LEU:O	2:AB:64:ARG:HG2	2.05	0.55
35:DA:8:A:H5''	44:DN:51:PHE:HZ	1.72	0.55
35:BA:2476:A:N3	35:BA:2477:C:H5'	2.22	0.55
6:CF:68:PRO:CG	6:CF:71:ARG:HE	2.18	0.55
4:AD:156:GLU:O	4:AD:159:ARG:HB2	2.07	0.55
4:AD:93:PHE:CE1	4:AD:97:LEU:HD12	2.42	0.55
55:DY:16:ALA:CA	55:DY:21:LYS:HD2	2.36	0.55
55:DY:31:LEU:HB2	55:DY:36:ALA:O	2.07	0.55
12:AL:9:GLN:O	12:AL:10:LEU:C	2.45	0.55
1:CA:817:C:N4	1:CA:1529:G:H1	2.05	0.55
25:CY:15:GLN:CA	25:CY:168:PHE:HZ	2.19	0.55
43:BI:10:GLU:CD	43:BI:11:ASN:H	2.10	0.55
35:DA:848:G:N3	35:DA:933:A:H1'	2.21	0.55
35:BA:81:G:H1	35:BA:105:C:H42	1.55	0.55
22:AV:40:C:O2'	22:AV:41:C:H5'	2.07	0.55
13:AM:93:ARG:HA	13:AM:93:ARG:HE	1.72	0.55
11:CK:58:PRO:HD3	11:CK:89:ALA:CB	2.35	0.55
31:B5:46:CYS:SG	31:B5:48:GLU:HG3	2.47	0.55
9:CI:47:LEU:N	9:CI:47:LEU:HD12	2.22	0.55
33:D7:30:VAL:O	33:D7:31:LEU:C	2.43	0.55
35:BA:493:G:H3'	35:BA:494:G:H5''	1.89	0.55
1:CA:1424:C:C2	1:CA:1425:U:C6	2.95	0.55
1:CA:197:A:N3	1:CA:198:G:H1'	2.22	0.55
35:DA:2345:G:H5''	35:DA:2347:C:O4'	2.07	0.55
16:AP:82:GLN:HE21	16:AP:82:GLN:H	1.38	0.55
1:CA:11:G:C5	1:CA:12:U:C5	2.95	0.55
39:DE:133:LYS:N	39:DE:134:ILE:HD13	2.22	0.55
35:BA:1335:U:H2'	35:BA:1336:A:H8	1.72	0.55
35:BA:863:A:H4'	36:BB:101:G:N2	2.21	0.55
1:AA:666:G:H1'	1:AA:741:G:N2	2.21	0.55
1:AA:853:G:H2'	1:AA:854:G:H8	1.71	0.55
31:B5:29:THR:O	31:B5:42:PRO:HD3	2.07	0.55
35:DA:285:C:H2'	35:DA:286:C:C5'	2.36	0.55
41:DG:166:ASP:OD1	41:DG:170:ARG:HD2	2.07	0.55
41:DG:170:ARG:HG3	41:DG:170:ARG:HH11	1.71	0.55
35:BA:2661:G:H2'	35:BA:2662:A:H8	1.69	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:555:C:H2'	1:CA:556:C:C6	2.42	0.55
44:BN:128:HIS:O	44:BN:130:HIS:N	2.40	0.55
1:CA:498:U:C2'	1:CA:498:U:O2	2.55	0.55
35:DA:1830:C:N4	35:DA:1975:G:H1	2.02	0.55
1:CA:1285:A:H1'	1:CA:1286:A:OP 2	2.07	0.55
1:CA:1031:G:H2'	1:CA:1032:G:C8	2.42	0.55
35:BA:893:C:H5	35:BA:894:C:C2	2.25	0.55
1:AA:1416:G:O2'	1:AA:1417:G:H5'	2.07	0.55
1:AA:363:A:C5	12:AL:31:PRO:HD2	2.40	0.55
35:DA:2785:C:H2'	35:DA:2786:U:C6	2.41	0.55
3:AC:188:LEU:HD22	3:AC:188:LEU:N	2.21	0.55
17:AQ:80:GLY:O	17:AQ:81:ARG:HG2	2.06	0.55
35:DA:1572:A:O2'	35:DA:1573:G:H5'	2.07	0.55
1:CA:128:G:O2'	1:CA:129:U:H5'	2.06	0.55
3:CC:188:LEU:N	3:CC:188:LEU:HD22	2.22	0.55
1:CA:1067:A:H8	1:CA:1067:A:O5'	1.89	0.55
35:DA:2677:G:C4	35:DA:2678:C:C5	2.95	0.55
35:DA:2679:A:O2'	35:DA:2680:C:H5'	2.07	0.55
45:DO:104:ARG:O	45:DO:107:ARG:N	2.38	0.55
50:DT:62:THR:HB	50:DT:74:ARG:O	2.07	0.55
35:BA:2086:U:OP1	38:BD:262:ARG:HG2	2.07	0.55
38:DD:35:LYS:HD3	38:DD:63:ARG:CB	2.23	0.55
16:CP:18:ARG:O	16:CP:20:VAL:HG12	2.07	0.55
41:DG:160:VAL:HG13	41:DG:161:THR:N	2.21	0.55
41:DG:61:ALA:HB1	41:DG:68:PRO:HD3	1.89	0.55
35:DA:2513:G:H1	35:DA:2571:C:H42	1.54	0.55
39:BE:55:ASN:ND2	39:BE:75:VAL:HG13	2.22	0.55
51:BU:99:ALA:HB2	51:BU:106:PHE:CD1	2.42	0.55
51:BU:91:ASP:O	51:BU:92:ARG:O	2.25	0.55
52:BV:96:ILE:HG23	52:BV:97:LYS:N	2.22	0.55
42:DH:153:LYS:N	42:DH:153:LYS:HD3	2.22	0.55
14:AN:53:LEU:HB3	14:AN:56:VAL:HG21	1.89	0.55
34:D8:62:LEU:N	34:D8:63:PRO:HD2	2.21	0.55
35:BA:143(A):C:H2'	35:BA:143(A):C:O2	2.06	0.55
27:B1:87:PRO:HB2	27:B1:91:LYS:CE	2.37	0.55
27:B1:87:PRO:N	27:B1:89:GLU:HG2	2.20	0.55
2:AB:80:ILE:HD11	2:AB:215:LEU:HD12	1.88	0.55
41:BG:115:ARG:NH2	41:BG:136:ARG:HD2	2.19	0.55
41:BG:178:PHE:CB	41:BG:180:PHE:HE1	2.14	0.55
54:DX:70:LEU:HG	54:DX:71:GLY:N	2.20	0.55
35:DA:874:G:H2'	35:DA:875:G:H8	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DZ:143:GLY:O	56:DZ:144:LEU:HD22	2.07	0.55
10:AJ:16:LEU:HD22	10:AJ:19:SER:OG	2.06	0.55
40:BF:24:LEU:HB3	40:BF:25:PRO:HD2	1.88	0.55
34:B8:55:ALA:O	34:B8:59:LYS:NZ	2.36	0.55
40:BF:65:TRP:O	40:BF:67:GLN:N	2.39	0.55
40:DF:114:VAL:CG2	40:DF:115:ALA:H	2.14	0.55
55:BY:86:ARG:HB3	55:BY:88:LYS:NZ	2.20	0.55
39:DE:110:GLY:O	48:DR:2:ARG:CZ	2.55	0.55
35:BA:1277:G:O2'	35:BA:1278:A:H5'	2.06	0.55
35:BA:2718:G:H2'	35:BA:2719:G:C8	2.42	0.55
50:BT:110:ILE:HG22	50:BT:111:ARG:N	2.22	0.55
44:BN:99:LEU:O	44:BN:103:VAL:HG23	2.06	0.55
6:CF:27:GLN:NE2	6:CF:27:GLN:HA	2.21	0.55
15:CO:64:ARG:O	15:CO:65:ARG:C	2.45	0.55
2:CB:16:HIS:HA	2:CB:210:SER:HB2	1.87	0.55
52:DV:72:VAL:CA	52:DV:88:ARG:HH12	2.17	0.55
55:DY:39:VAL:O	55:DY:40:GLU:HG2	2.07	0.55
17:AQ:31:LEU:HG	17:AQ:32:TYR:CE2	2.42	0.55
18:AR:75:ILE:HG22	18:AR:75:ILE:O	2.06	0.55
25:AY:14:MET:CE	25:AY:165:THR:HG23	2.37	0.55
35:BA:1590:U:H2'	35:BA:1591:G:C5'	2.28	0.55
44:BN:78:TYR:CD1	44:BN:79:PRO:HD3	2.42	0.55
35:BA:685:A:C2	35:BA:787:U:H1'	2.42	0.55
35:BA:310:A:OP1	55:BY:17:SER:O	2.25	0.55
13:AM:92:HIS:CE1	13:AM:98:VAL:HG21	2.41	0.55
35:DA:598:G:H5'	46:DP:15:ARG:CB	2.37	0.55
5:AE:131:ILE:H	5:AE:131:ILE:CD1	2.16	0.55
25:CY:40:HIS:O	25:CY:41:LEU:C	2.45	0.55
8:AH:45:ILE:HB	8:AH:62:TYR:O	2.06	0.55
16:AP:8:ARG:NH2	16:AP:15:PRO:HG3	2.22	0.55
9:CI:7:THR:HB	9:CI:83:ARG:HH11	1.72	0.55
33:D7:8:ASN:ND2	33:D7:8:ASN:C	2.60	0.55
6:CF:52:ILE:O	6:CF:86:ARG:NH1	2.40	0.55
35:BA:1417:C:C2'	35:BA:1418:G:H5'	2.37	0.55
17:AQ:67:LYS:CA	17:AQ:70:ARG:HH12	2.19	0.55
35:BA:2781:A:H5'	35:BA:2782:G:H5'	1.87	0.55
56:BZ:104:PHE:HA	56:BZ:139:VAL:HB	1.89	0.55
35:DA:738:G:C6	35:DA:739:G:C2	2.95	0.55
5:CE:15:ARG:HG2	5:CE:26:PHE:CD2	2.42	0.55
25:AY:78:ALA:HA	25:AY:81:LYS:HD2	1.89	0.55
44:BN:75:TYR:O	44:BN:82:LEU:O	2.24	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BN:82:LEU:HD12	44:BN:83:LYS:N	2.21	0.55
34:B8:48:PHE:N	34:B8:48:PHE:CD1	2.73	0.55
4:CD:133:VAL:CG1	4:CD:135:LEU:H	2.20	0.55
35:DA:952:G:C6	35:DA:953:A:N7	2.75	0.55
1:CA:788:U:C4	1:CA:789:U:C5	2.95	0.55
55:DY:47:LYS:HG3	55:DY:60:PHE:CE2	2.41	0.55
50:DT:89:VAL:CG1	50:DT:91:ARG:HE	2.20	0.55
35:DA:782:A:C2	38:DD:226:MET:CG	2.81	0.55
38:DD:65:ILE:O	38:DD:65:ILE:HD12	2.07	0.55
16:CP:19:ILE:HG22	16:CP:36:ILE:CG1	2.36	0.55
23:AW:77:A:C2	35:BA:2421:G:C6	2.95	0.55
39:BE:12:THR:HG23	50:BT:8:LYS:HE2	1.88	0.55
35:BA:906:G:H5'	47:BQ:26:TYR:OH	2.07	0.55
56:BZ:42:VAL:HG13	56:BZ:43:GLU:H	1.70	0.55
56:BZ:56:VAL:CG1	56:BZ:57:ILE:N	2.69	0.55
35:DA:2055:C:H4'	35:DA:2056:G:H5''	1.89	0.55
44:BN:41:ASP:N	51:BU:64:ARG:NH1	2.51	0.55
44:BN:46:VAL:HG21	44:BN:48:MET:HG3	1.89	0.55
35:BA:1160:G:N2	52:BV:10:LYS:HE3	2.22	0.55
42:DH:96:ALA:HB2	42:DH:105:LEU:HB3	1.89	0.55
39:DE:36:ARG:NH2	39:DE:88:GLY:HA3	2.22	0.55
27:B1:18:ILE:O	27:B1:18:ILE:HG22	2.07	0.55
41:BG:36:LYS:HG2	41:BG:37:VAL:N	2.21	0.55
54:DX:52:VAL:O	54:DX:53:LYS:CB	2.55	0.55
47:DQ:32:TYR:HD1	47:DQ:32:TYR:H	1.54	0.55
44:DN:43:THR:O	44:DN:44:PRO:C	2.45	0.55
51:DU:95:LEU:HD12	52:DV:11:GLN:HG3	1.89	0.55
52:DV:61:VAL:HG23	52:DV:100:ARG:N	2.21	0.55
52:DV:14:VAL:HG11	52:DV:98:GLU:HG3	1.88	0.55
44:BN:72:TYR:HB3	44:BN:74:ARG:HG2	1.89	0.55
34:D8:39:LYS:HG2	34:D8:42:ARG:HH11	1.71	0.55
35:DA:1021:A:C8	35:DA:1021:A:H3'	2.41	0.55
35:BA:1196:C:H2'	35:BA:1197:G:H8	1.69	0.55
51:BU:7:GLY:O	51:BU:8:VAL:HG22	2.07	0.55
48:DR:85:PRO:O	48:DR:87:TYR:N	2.40	0.55
35:BA:1275:A:C4	48:BR:16:HIS:CE1	2.95	0.55
2:CB:75:LYS:HE3	2:CB:75:LYS:HA	1.89	0.55
2:AB:54:THR:HG22	2:AB:58:ILE:CD1	2.37	0.55
44:BN:126:PRO:O	44:BN:127:ASP:OD1	2.25	0.55
34:D8:53:PRO:C	34:D8:55:ALA:H	2.10	0.55
4:AD:65:ARG:HB2	4:AD:75:PHE:CZ	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:192:U:H2'	1:CA:193:C:C6	2.41	0.55
1:AA:1018:C:H2'	1:AA:1019:C:C6	2.42	0.55
11:AK:30:VAL:HG21	11:AK:65:ALA:HA	1.87	0.55
35:BA:464:U:H2'	35:BA:465:G:O4'	2.07	0.55
1:AA:872:A:C2	1:AA:874:G:C6	2.95	0.55
12:AL:100:ILE:O	12:AL:102:ARG:N	2.40	0.55
35:BA:627:A:H4'	35:BA:628:G:OP1	2.06	0.55
11:CK:83:ILE:HA	11:CK:109:VAL:O	2.06	0.55
35:DA:2223:G:H2'	35:DA:2224:G:H5'	1.88	0.55
1:AA:965:A:C2	1:AA:969:A:C2	2.95	0.55
42:BH:157:TYR:HD1	42:BH:170:ARG:O	1.88	0.55
1:AA:11:G:C5	1:AA:12:U:C5	2.95	0.55
3:AC:84:ILE:HD11	3:AC:88:ARG:NH2	2.22	0.55
54:BX:12:VAL:HG11	54:BX:27:THR:CG2	2.35	0.55
35:DA:215:G:H4'	35:DA:216:A:O5'	2.06	0.55
35:BA:2202:C:C2'	38:BD:151:LYS:HZ1	2.20	0.55
35:BA:285:C:H2'	35:BA:286:C:C5'	2.36	0.55
56:BZ:61:LEU:O	56:BZ:63:ASP:N	2.35	0.55
1:CA:533:A:H1'	1:CA:534:U:OP1	2.06	0.55
1:CA:769:G:H2'	1:CA:770:C:H6	1.72	0.55
35:DA:271(G):C:O2'	35:DA:271(H):G:H5'	2.07	0.55
35:DA:991:C:H42	35:DA:1163:G:H1	1.54	0.55
35:DA:1668:A:N7	35:DA:1674:G:C6	2.75	0.55
19:CS:64:GLU:HG3	19:CS:65:ASN:N	2.22	0.55
31:B5:22:HIS:N	31:B5:22:HIS:ND1	2.54	0.55
5:AE:133:TYR:HD1	5:AE:133:TYR:H	1.53	0.55
37:DC:73:ARG:HG2	37:DC:92:ASP:OD2	2.06	0.55
11:AK:34:ASP:HB3	11:AK:40:ILE:HD11	1.88	0.55
35:BA:1790:C:H2'	35:BA:1791:A:C8	2.41	0.54
1:CA:17:U:O4'	1:CA:1080:A:H1'	2.07	0.54
35:DA:1789:A:H2'	35:DA:1790:C:C6	2.38	0.54
36:DB:40:U:N3	36:DB:43:C:H5''	2.21	0.54
41:DG:105:LYS:HZ2	41:DG:105:LYS:CB	2.20	0.54
41:DG:57:ALA:HB2	41:DG:90:LEU:CD2	2.33	0.54
35:BA:2284:C:H42	35:BA:2384:G:H1	1.54	0.54
45:BO:40:VAL:HA	45:BO:58:VAL:O	2.07	0.54
50:BT:63:VAL:O	50:BT:73:GLU:HA	2.07	0.54
35:BA:535:C:O2'	35:BA:536:A:H5'	2.07	0.54
51:BU:92:ARG:C	51:BU:94:ASN:N	2.60	0.54
52:BV:15:GLU:HB3	52:BV:16:PRO:CD	2.36	0.54
52:BV:34:GLU:HB3	52:BV:62:LEU:CD1	2.34	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BX:52:VAL:H	54:BX:80:ILE:HG22	1.72	0.54
54:BX:76:ARG:C	54:BX:76:ARG:HD3	2.27	0.54
39:DE:44:TYR:O	39:DE:45:THR:CB	2.55	0.54
39:DE:47:VAL:HG23	39:DE:84:PHE:O	2.07	0.54
2:AB:212:GLN:HG3	2:AB:235:SER:HB2	1.89	0.54
41:BG:4:ASP:HA	41:BG:8:LYS:CD	2.34	0.54
55:DY:86:ARG:HB3	55:DY:88:LYS:NZ	2.20	0.54
35:DA:94:C:H5'	35:DA:94(A):G:OP2	2.07	0.54
42:BH:149:ARG:CG	42:BH:162:ILE:HD11	2.37	0.54
56:DZ:26:GLY:C	56:DZ:37:VAL:H	2.09	0.54
44:DN:10:GLU:CD	44:DN:11:PRO:HD2	2.27	0.54
51:DU:45:TYR:O	51:DU:46:ALA:C	2.45	0.54
1:AA:1203:C:H2'	1:AA:1204:A:C8	2.41	0.54
49:BS:65:VAL:O	49:BS:69:VAL:HG12	2.07	0.54
35:BA:1246:A:OP1	46:BP:18:ARG:HG3	2.07	0.54
35:BA:2513:G:H1	35:BA:2571:C:H42	1.55	0.54
35:BA:2571:C:O2	35:BA:2571:C:H2'	2.06	0.54
35:BA:2052:G:C2	39:BE:149:ARG:HA	2.42	0.54
35:BA:991:C:H42	35:BA:1163:G:H1	1.54	0.54
35:BA:1415:U:O2	35:BA:1415:U:H2'	2.06	0.54
2:AB:159:PRO:C	2:AB:161:ALA:N	2.57	0.54
44:DN:16:ILE:HG23	44:DN:54:VAL:CG2	2.36	0.54
1:CA:666:G:H1'	1:CA:741:G:N2	2.22	0.54
6:CF:58:GLY:O	6:CF:60:PHE:CD1	2.60	0.54
40:DF:51:THR:OG1	40:DF:91:GLY:HA3	2.07	0.54
46:DP:23:PRO:O	46:DP:33:ARG:HG2	2.06	0.54
46:DP:51:PHE:O	46:DP:52:GLU:HB2	2.07	0.54
4:AD:62:GLN:HB3	4:AD:66:ARG:NH1	2.22	0.54
44:DN:77:GLY:O	44:DN:78:TYR:HB3	2.07	0.54
35:DA:15:G:H2'	35:DA:16:G:C8	2.34	0.54
1:CA:955:U:C1'	1:CA:1227:A:H61	2.15	0.54
20:CT:36:LEU:HD22	20:CT:36:LEU:N	2.18	0.54
35:BA:2022:U:O2'	35:BA:2617:C:H5'	2.07	0.54
11:AK:85:ARG:HG2	11:AK:111:ASP:O	2.06	0.54
35:BA:692:C:N3	35:BA:771:G:C2	2.75	0.54
35:BA:2248:C:H3'	35:BA:2249:U:H6	1.72	0.54
8:AH:129:VAL:HG23	8:AH:130:GLY:N	2.16	0.54
1:AA:865:A:H5'	1:AA:1078:U:H5	1.72	0.54
18:AR:56:THR:HG21	18:AR:63:GLN:HE22	1.72	0.54
9:CI:16:ARG:O	9:CI:63:ILE:HG22	2.06	0.54
5:CE:147:ASP:CA	5:CE:150:ARG:HB3	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2834:G:H5'	35:DA:2835:A:OP2	2.07	0.54
1:AA:1053:G:C6	1:AA:1199:U:H2'	2.42	0.54
26:D0:24:LYS:NZ	35:DA:2355:C:O2'	2.41	0.54
5:AE:80:ILE:HD11	5:AE:91:LEU:HB2	1.89	0.54
1:AA:472:A:C4'	16:AP:82:GLN:HE22	2.19	0.54
35:DA:2591:C:H2'	35:DA:2592:G:H8	1.65	0.54
1:AA:78:G:H22	1:AA:91:C:H42	1.53	0.54
3:CC:83:ARG:C	3:CC:87:LEU:HG	2.26	0.54
3:AC:86:VAL:O	3:AC:89:GLU:HB3	2.06	0.54
46:DP:95:VAL:HG23	46:DP:95:VAL:O	2.07	0.54
35:DA:1614:A:N1	53:DW:87:PRO:HB3	2.21	0.54
35:DA:1721:G:H2'	35:DA:1722:A:H2'	1.88	0.54
38:DD:166:GLN:N	38:DD:166:GLN:NE2	2.54	0.54
8:CH:53:VAL:O	8:CH:54:ASP:HB2	2.07	0.54
35:BA:360:G:O2'	35:BA:361:G:H5'	2.07	0.54
35:BA:201:C:O2'	35:BA:202:U:H5'	2.07	0.54
35:DA:1528(A):A:C2'	35:DA:1529:G:H5''	2.37	0.54
46:BP:122:PRO:HB3	46:BP:141:ALA:CB	2.36	0.54
35:DA:920:G:H2'	35:DA:921:G:C8	2.40	0.54
40:DF:32:LEU:O	40:DF:33:LEU:C	2.45	0.54
35:DA:1322:A:O2'	35:DA:1323:U:H5'	2.07	0.54
12:CL:34:ARG:HB3	12:CL:61:THR:CG2	2.36	0.54
1:CA:358:U:H2'	1:CA:359:U:C6	2.42	0.54
35:BA:632:A:N3	35:BA:2403:C:H1'	2.22	0.54
35:DA:409:C:O2'	35:DA:410:G:H5'	2.07	0.54
8:CH:91:ARG:CG	8:CH:91:ARG:HH11	2.20	0.54
29:D3:50:VAL:O	29:D3:51:ALA:C	2.46	0.54
47:DQ:42:ILE:HD13	47:DQ:97:VAL:HG21	1.89	0.54
40:BF:143:ALA:O	40:BF:146:ALA:HB3	2.07	0.54
35:BA:409:C:O2'	35:BA:410:G:H5'	2.06	0.54
35:BA:1490:A:C2	38:BD:75:ILE:HD12	2.41	0.54
37:DC:170:ALA:C	37:DC:172:HIS:H	2.11	0.54
41:DG:80:PHE:O	41:DG:81:LYS:HB2	2.05	0.54
39:DE:69:LYS:HE2	39:DE:69:LYS:N	2.22	0.54
34:D8:11:LYS:O	34:D8:11:LYS:HG2	2.07	0.54
53:BW:59:VAL:HG12	53:BW:60:ASN:N	2.22	0.54
11:CK:92:GLU:O	11:CK:95:ILE:HG12	2.07	0.54
35:DA:2718:G:H2'	35:DA:2719:G:C8	2.42	0.54
50:DT:106:SER:O	50:DT:107:ASP:HB3	2.07	0.54
50:DT:27:THR:O	50:DT:28:VAL:CB	2.55	0.54
35:DA:1567:A:H5'	38:DD:58:HIS:CD2	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2680:C:H5'	39:BE:189:PRO:HA	1.89	0.54
45:BO:20:MET:HE3	45:BO:44:LYS:HG3	1.89	0.54
47:BQ:141:GLN:NE2	56:BZ:72:ARG:HG2	2.21	0.54
35:DA:2512:C:H2'	35:DA:2513:G:O4'	2.07	0.54
39:BE:179:GLU:OE1	39:BE:179:GLU:HA	2.07	0.54
35:DA:1417:C:C2'	35:DA:1418:G:H5'	2.37	0.54
42:DH:128:PRO:HG2	42:DH:129:THR:CG2	2.32	0.54
54:BX:73:ARG:N	54:BX:74:PRO:CD	2.59	0.54
27:B1:47:GLN:NE2	27:B1:64:ALA:CB	2.70	0.54
2:AB:88:ALA:HB2	2:AB:223:ILE:HD11	1.89	0.54
55:DY:7:VAL:CG2	55:DY:8:LYS:HD2	2.37	0.54
54:DX:51:VAL:HG13	54:DX:80:ILE:N	2.22	0.54
42:BH:88:LEU:O	42:BH:89:ILE:HG23	2.07	0.54
36:BB:51:G:H2'	36:BB:52:A:O4'	2.07	0.54
40:BF:39:TRP:CB	40:BF:101:LEU:HD22	2.37	0.54
40:BF:45:ARG:HG2	40:BF:97:TYR:CG	2.42	0.54
27:D1:76:ARG:HA	27:D1:76:ARG:NE	2.20	0.54
46:DP:64:LYS:C	46:DP:66:GLY:N	2.61	0.54
35:BA:1227:G:OP1	51:BU:13:LYS:HE2	2.07	0.54
1:AA:102:G:H2'	1:AA:103:C:H6	1.71	0.54
48:BR:87:TYR:O	48:BR:89:ASP:N	2.40	0.54
50:BT:107:ASP:OD2	50:BT:109:GLU:HG3	2.06	0.54
36:DB:55:U:O2'	36:DB:56:G:H5'	2.07	0.54
2:AB:82:ARG:HG2	2:AB:82:ARG:HH11	1.71	0.54
35:BA:1748:G:H8	35:BA:1748:G:H5'	1.72	0.54
18:CR:36:ASN:O	18:CR:39:VAL:HG23	2.07	0.54
18:CR:35:ARG:C	18:CR:37:VAL:N	2.60	0.54
18:CR:47:THR:HA	18:CR:83:GLU:O	2.07	0.54
35:DA:677:A:N1	35:DA:802:A:C5	2.75	0.54
40:DF:68:LYS:O	40:DF:69:HIS:HB2	2.07	0.54
40:DF:89:VAL:C	40:DF:91:GLY:H	2.10	0.54
4:AD:170:VAL:HG22	4:AD:171:GLY:H	1.71	0.54
55:DY:28:LYS:HA	55:DY:39:VAL:N	2.23	0.54
13:CM:93:ARG:HE	13:CM:93:ARG:HA	1.71	0.54
16:AP:40:ASP:HB3	16:AP:48:TRP:HB3	1.89	0.54
1:CA:261:U:C6	20:CT:79:ARG:NH1	2.75	0.54
12:AL:84:LEU:HB3	12:AL:101:VAL:CG2	2.37	0.54
11:AK:65:ALA:HB1	11:AK:98:LEU:CD2	2.37	0.54
8:CH:124:ALA:O	8:CH:128:GLY:N	2.38	0.54
11:AK:87:THR:HA	11:AK:91:ARG:CG	2.36	0.54
11:CK:102:GLY:O	11:CK:103:LEU:C	2.46	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:920:U:C1'	1:AA:1080:A:C2	2.89	0.54
5:AE:43:LEU:CD2	5:AE:132:ALA:HB1	2.31	0.54
43:DI:13:GLY:O	43:DI:15:VAL:N	2.40	0.54
5:AE:147:ASP:CA	5:AE:150:ARG:HH11	2.14	0.54
1:CA:522:C:H2'	1:CA:523:A:C8	2.42	0.54
54:DX:65:ARG:CA	54:DX:65:ARG:NE	2.69	0.54
35:BA:2834:G:H5'	35:BA:2835:A:OP2	2.07	0.54
29:D3:4:LEU:HD21	29:D3:56:VAL:HG13	1.88	0.54
1:CA:1116:C:H2'	1:CA:1117:G:C4'	2.37	0.54
32:B6:20:ASN:HD22	32:B6:21:TYR:H	1.52	0.54
1:CA:102:G:H2'	1:CA:103:C:H6	1.71	0.54
38:BD:145:VAL:HB	38:BD:155:LEU:CB	2.38	0.54
1:CA:78:G:H22	1:CA:91:C:H42	1.53	0.54
35:BA:469:G:O2'	35:BA:470:A:H5''	2.08	0.54
35:DA:1152:C:H1'	51:DU:77:SER:HB3	1.87	0.54
1:AA:659:U:H2'	1:AA:660:G:H8	1.72	0.54
1:CA:1298:C:C6	7:CG:114:ARG:NH1	2.75	0.54
38:BD:9:TYR:CD2	38:BD:10:THR:HG22	2.43	0.54
24:CX:17:U:O2'	24:CX:18:C:H5'	2.06	0.54
35:BA:202:U:H2'	35:BA:203:C:C6	2.43	0.54
35:BA:1876:A:H2'	35:BA:1877:A:H8	1.68	0.54
31:D5:29:THR:O	31:D5:42:PRO:HD3	2.07	0.54
1:AA:688:G:O2'	1:AA:689:C:H5'	2.06	0.54
56:BZ:105:VAL:O	56:BZ:141:VAL:HG13	2.06	0.54
43:DI:33:ARG:O	43:DI:35:LEU:HG	2.08	0.54
1:AA:76:C:H42	1:AA:93:G:H1	1.56	0.54
35:BA:37:C:H2'	35:BA:38:A:H8	1.73	0.54
1:AA:1417:G:H2'	1:AA:1482:G:N2	2.23	0.54
1:CA:189(F):U:O4	17:CQ:62:SER:HB3	2.06	0.54
38:DD:203:ASN:O	38:DD:204:ILE:O	2.24	0.54
1:CA:159:G:N1	1:CA:163:C:N4	2.56	0.54
2:CB:9:GLU:H	2:CB:9:GLU:CD	2.10	0.54
52:BV:58:VAL:HG12	52:BV:101:GLY:O	2.07	0.54
10:AJ:92:THR:HG23	10:AJ:93:GLY:N	2.22	0.54
35:BA:1596:A:H5'	35:BA:1597:A:OP2	2.07	0.54
35:DA:658:C:H2'	35:DA:659:C:H6	1.73	0.54
51:DU:51:LYS:HE2	51:DU:51:LYS:HA	1.88	0.54
35:BA:785:G:H2'	35:BA:786:C:C6	2.43	0.54
1:CA:971:G:H4'	1:CA:972:C:C5'	2.36	0.54
1:CA:920:U:C1'	1:CA:1080:A:C2	2.87	0.54
35:DA:729:G:HO2'	35:DA:763:G:H4'	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BT:38:ASN:ND2	50:BT:40:THR:OG1	2.40	0.54
56:BZ:126:VAL:HG12	56:BZ:164:ALA:H	1.72	0.54
35:BA:2893:G:C5'	35:BA:2894:G:H5'	2.16	0.54
44:BN:10:GLU:CD	44:BN:11:PRO:HD2	2.27	0.54
51:BU:49:HIS:O	51:BU:52:ARG:HB2	2.07	0.54
28:B2:50:ILE:HG23	28:B2:54:LYS:CD	2.32	0.54
39:DE:47:VAL:HG12	39:DE:49:LEU:HD21	1.89	0.54
39:DE:55:ASN:O	39:DE:57:LYS:N	2.40	0.54
27:B1:14:VAL:HG22	27:B1:15:ALA:N	2.21	0.54
35:DA:70:G:H2'	35:DA:113:G:O2'	2.08	0.54
56:DZ:27:VAL:HG11	56:DZ:85:HIS:HE2	1.72	0.54
49:BS:69:VAL:HG13	49:BS:70:GLY:N	2.21	0.54
4:CD:108:LEU:HD11	4:CD:174:LEU:HD22	1.89	0.54
1:CA:1202:G:H2'	1:CA:1203:C:C5'	2.37	0.54
35:DA:271(Q):G:H2'	35:DA:271(R):G:C8	2.43	0.54
27:D1:69:LYS:HZ2	35:DA:372:G:P	2.31	0.54
44:DN:65:LYS:HA	44:DN:65:LYS:CE	2.28	0.54
40:BF:84:VAL:O	40:BF:85:GLY:C	2.46	0.54
46:BP:23:PRO:O	46:BP:33:ARG:HG2	2.07	0.54
1:AA:1424:C:H2'	1:AA:1425:U:C6	2.40	0.54
20:AT:25:ARG:HH11	20:AT:25:ARG:HG3	1.73	0.54
35:BA:2846:G:H2'	35:BA:2847:U:H6	1.72	0.54
48:BR:13:HIS:O	48:BR:14:SER:O	2.26	0.54
48:BR:73:VAL:HG23	48:BR:74:LYS:CD	2.38	0.54
44:DN:32:THR:HG22	44:DN:37:LYS:HB3	1.88	0.54
35:DA:943:U:OP1	46:DP:38:GLN:HB3	2.08	0.54
35:DA:1202:C:H2'	35:DA:1203:G:H5'	1.88	0.54
35:BA:1884:A:C3'	35:BA:1885:A:H5''	2.37	0.54
4:AD:177:ASP:O	4:AD:180:GLY:N	2.40	0.54
4:AD:15:GLU:C	4:AD:17:VAL:H	2.08	0.54
6:AF:58:GLY:O	6:AF:60:PHE:CD1	2.60	0.54
2:AB:89:GLY:O	2:AB:154:LEU:HD13	2.07	0.54
25:CY:164:ILE:CD1	25:CY:164:ILE:H	2.17	0.54
1:CA:1269:A:H2	1:CA:1312:G:N3	2.04	0.54
13:CM:92:HIS:CE1	13:CM:98:VAL:HG21	2.42	0.54
35:BA:744:G:OP1	39:BE:132:HIS:HB3	2.07	0.54
1:AA:552:U:H4'	12:AL:87:GLY:H	1.72	0.54
11:CK:27:ASN:OD1	11:CK:28:THR:N	2.41	0.54
35:DA:2248:C:H2'	35:DA:2249:U:H5'	1.90	0.54
13:AM:108:ARG:H	13:AM:108:ARG:CD	2.12	0.54
29:B3:51:ALA:O	29:B3:53:LEU:N	2.39	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:527:G:C2'	1:CA:528:C:H5'	2.37	0.54
9:CI:77:ILE:HG23	9:CI:81:ILE:HD11	1.90	0.54
5:CE:150:ARG:HB2	5:CE:150:ARG:HH11	1.69	0.54
35:BA:549:G:C3'	35:BA:551:G:H5''	2.38	0.54
35:BA:549:G:H2'	35:BA:551:G:C4'	2.37	0.54
54:BX:21:PHE:HE1	54:BX:26:TYR:HB3	1.71	0.54
31:B5:12:SER:O	31:B5:13:LYS:C	2.45	0.54
35:DA:768:G:H2'	35:DA:769:G:H8	1.72	0.54
35:DA:322:A:OP2	40:DF:169:ASN:HB2	2.07	0.54
1:CA:1053:G:C3'	1:CA:1054:C:H5'	2.38	0.54
26:D0:29:GLN:HB2	26:D0:67:VAL:CG2	2.37	0.54
35:BA:120:U:H1'	35:BA:149:A:N7	2.22	0.54
35:BA:2097:C:O2'	35:BA:2098:U:H5'	2.08	0.54
3:CC:86:VAL:O	3:CC:89:GLU:HB3	2.08	0.54
39:BE:38:THR:HG23	39:BE:39:PRO:HD2	1.88	0.54
35:DA:635:C:O2'	35:DA:636:G:H5'	2.07	0.54
25:CY:53:ASN:OD1	25:CY:54:GLN:HG3	2.07	0.54
1:AA:1096:C:H5''	2:AB:137:ARG:NH2	2.23	0.54
35:BA:2462:U:O2'	35:BA:2463:C:H5'	2.07	0.54
43:BI:49:ALA:HA	43:BI:52:ARG:CG	2.38	0.54
31:D5:29:THR:HG21	35:DA:2814:C:O2'	2.07	0.54
3:CC:76:VAL:HG23	3:CC:77:ILE:N	2.22	0.54
3:AC:56:ASP:O	3:AC:57:ILE:HG13	2.08	0.54
35:BA:985:C:H2'	35:BA:985:C:O2	2.08	0.54
35:DA:1907:G:O2'	35:DA:1908:C:H5'	2.07	0.54
35:DA:2842:G:O2'	35:DA:2843:G:H5'	2.07	0.54
1:CA:946:A:H2'	1:CA:947:G:H8	1.70	0.54
35:BA:1684:C:H42	35:BA:1704:G:H1	1.55	0.54
3:CC:35:GLU:O	3:CC:39:ILE:HG13	2.07	0.54
35:DA:66:C:H2'	35:DA:67:U:C5'	2.38	0.54
35:DA:66:C:H2'	35:DA:67:U:H5'	1.89	0.54
35:DA:750:A:H2'	35:DA:751:A:H5''	1.90	0.54
15:CO:75:PRO:O	15:CO:79:ARG:HG3	2.08	0.54
26:D0:19:LYS:C	26:D0:20:ARG:HD3	2.27	0.54
35:DA:363(A):A:N3	35:DA:363(A):A:H2'	2.21	0.54
35:DA:271(N):U:H5''	35:DA:271(O):C:H5'	1.89	0.54
35:BA:1685:C:H2'	35:BA:1686:C:H6	1.70	0.54
40:DF:143:ALA:O	40:DF:146:ALA:HB3	2.07	0.54
1:AA:1525:G:O2'	1:AA:1526:G:H5'	2.07	0.54
35:BA:1272:A:OP2	35:BA:1647:G:OP1	2.25	0.54
37:DC:65:PRO:HG2	37:DC:189:ILE:HA	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:532:A:N3	35:BA:532:A:H2'	2.21	0.54
35:DA:2863:C:C3'	35:DA:2864:G:H5''	2.38	0.54
38:DD:208:LYS:O	38:DD:210:GLY:O	2.25	0.54
38:DD:264:LYS:HG3	38:DD:265:PRO:HD2	1.89	0.54
46:BP:64:LYS:C	46:BP:66:GLY:N	2.60	0.54
35:BA:2725:A:O2'	35:BA:2726:U:H2'	2.08	0.54
1:AA:1442(A):G:H21	50:BT:119:LYS:N	2.05	0.54
56:BZ:48:PHE:O	56:BZ:50:GLN:N	2.40	0.54
44:BN:42:TRP:N	51:BU:64:ARG:HH12	2.05	0.54
51:BU:91:ASP:OD2	51:BU:96:ALA:HA	2.07	0.54
54:BX:77:LYS:HD3	54:BX:78:LYS:HG3	1.90	0.54
2:AB:219:VAL:C	2:AB:222:ILE:HG22	2.28	0.54
34:B8:60:LEU:HD23	34:B8:60:LEU:N	2.23	0.54
54:DX:77:LYS:HD3	54:DX:78:LYS:HG3	1.89	0.54
52:DV:22:VAL:O	52:DV:23:GLU:CB	2.55	0.54
3:CC:147:LYS:HB3	3:CC:203:PHE:CE2	2.43	0.54
55:BY:43:ASN:O	55:BY:44:ILE:O	2.26	0.54
3:CC:134:ILE:O	3:CC:137:ALA:HB3	2.06	0.54
40:BF:114:VAL:O	40:BF:117:ARG:N	2.41	0.54
35:DA:422:A:H2'	35:DA:423:A:C8	2.42	0.54
35:BA:1581:G:H2'	35:BA:1582:C:O4'	2.07	0.54
48:BR:37:THR:HG23	48:BR:40:LYS:HE2	1.90	0.54
18:CR:26:LEU:HD21	18:CR:42:ARG:CZ	2.38	0.54
35:DA:2061:G:OP1	40:DF:68:LYS:NZ	2.40	0.54
35:DA:668:G:O6	35:DA:670:A:H2'	2.08	0.54
1:AA:436:C:O2'	1:AA:437:U:P	2.65	0.54
19:AS:36:ARG:HH12	19:AS:75:ALA:CB	2.20	0.54
18:AR:74:ARG:HA	18:AR:79:LEU:HB2	1.89	0.54
12:CL:86:ARG:CG	12:CL:87:GLY:N	2.71	0.54
35:DA:1411:C:O2'	35:DA:1412:A:H8	1.90	0.54
35:DA:2645:G:C3'	35:DA:2646:C:H5'	2.27	0.54
1:AA:865:A:H5'	1:AA:1078:U:C5	2.43	0.54
43:DI:3:VAL:HG12	43:DI:37:VAL:O	2.06	0.54
9:CI:10:ARG:O	9:CI:11:LYS:HB3	2.07	0.54
12:AL:119:LYS:C	12:AL:121:GLY:H	2.09	0.54
9:CI:28:VAL:HG12	9:CI:29:ASN:H	1.69	0.54
46:DP:124:LYS:HA	46:DP:143:GLY:CA	2.38	0.54
1:AA:491:G:H2'	1:AA:492:G:H8	1.73	0.54
31:B5:16:ARG:CG	31:B5:16:ARG:HH11	2.18	0.54
31:B5:20:ARG:O	31:B5:21:SER:C	2.46	0.54
1:AA:591:U:H2'	1:AA:592:G:H8	1.63	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2732:G:H3'	35:DA:2733:A:H5'	1.90	0.54
7:AG:135:VAL:HG12	7:AG:139:GLU:HG3	1.89	0.54
35:DA:1301:A:HO2'	35:DA:1302:A:P	2.30	0.54
20:CT:11:SER:HA	20:CT:13:LEU:HD12	1.90	0.54
35:DA:380:U:H2'	35:DA:381:G:C8	2.41	0.54
13:CM:68:GLY:HA2	13:CM:71:ARG:HB3	1.89	0.54
29:B3:41:PRO:HB3	35:BA:852:G:O2'	2.08	0.54
13:AM:23:TYR:HE1	13:AM:71:ARG:CB	2.20	0.54
1:CA:66:G:N2	1:CA:172:A:H2	2.05	0.54
35:BA:470:A:C2	35:BA:471:A:C4	2.96	0.54
4:CD:129:ASN:HB2	4:CD:131:ARG:NH2	2.22	0.54
19:CS:41:VAL:HB	19:CS:44:MET:CB	2.36	0.54
9:AI:11:LYS:C	9:AI:13:ALA:H	2.10	0.54
9:AI:11:LYS:O	9:AI:13:ALA:N	2.41	0.54
29:D3:59:VAL:CG1	29:D3:60:GLU:N	2.70	0.54
35:BA:1843:C:C1'	38:BD:255:LYS:HZ3	2.20	0.54
41:DG:170:ARG:HG3	41:DG:170:ARG:NH1	2.21	0.54
35:DA:481:G:H1'	35:DA:506:G:H21	1.69	0.54
20:CT:54:LYS:HA	20:CT:57:ARG:NH1	2.22	0.54
1:AA:284:G:H2'	1:AA:285:G:C8	2.40	0.54
35:DA:893:C:H5	35:DA:894:C:C2	2.24	0.54
1:AA:1006:C:O2'	1:AA:1007:C:H5'	2.08	0.54
1:CA:751:U:C2'	1:CA:752:G:H5'	2.37	0.54
35:DA:1014:U:H2'	35:DA:1015:G:C8	2.43	0.54
3:AC:120:VAL:HA	3:AC:123:GLN:NE2	2.22	0.54
53:BW:34:ASN:HA	53:BW:37:ARG:HB3	1.88	0.54
1:AA:882:C:H2'	1:AA:883:C:H6	1.71	0.54
3:AC:20:SER:O	14:AN:54:PRO:HG3	2.07	0.54
50:DT:34:VAL:O	50:DT:34:VAL:HG12	2.07	0.54
2:AB:9:GLU:CD	2:AB:9:GLU:H	2.11	0.54
35:DA:2852:G:H2'	35:DA:2853:C:H6	1.70	0.54
45:DO:6:THR:CG2	45:DO:7:TYR:H	2.19	0.54
1:CA:972:C:H5'	10:CJ:57:LYS:HZ3	1.73	0.54
38:BD:268:ARG:HH12	38:BD:269:PHE:HE1	1.54	0.54
35:DA:1803:A:H4'	38:DD:259:THR:HG23	1.88	0.54
38:DD:35:LYS:HE2	38:DD:104:TYR:CG	2.42	0.54
38:DD:260:ARG:HG2	38:DD:260:ARG:HH11	1.73	0.54
38:DD:35:LYS:NZ	38:DD:104:TYR:HB2	2.22	0.54
10:CJ:36:GLY:O	10:CJ:72:VAL:HG22	2.06	0.54
35:BA:2632:A:H1'	39:BE:61:ARG:HH12	1.72	0.54
44:BN:42:TRP:CD2	44:BN:44:PRO:HD3	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BN:43:THR:O	44:BN:45:ASN:N	2.40	0.54
42:DH:159:GLU:O	42:DH:160:LYS:HG2	2.08	0.54
14:AN:42:ILE:O	14:AN:43:CYS:C	2.44	0.54
28:B2:56:GLN:NE2	28:B2:56:GLN:HA	2.20	0.54
35:DA:1341:U:O3'	54:DX:55:ASN:HB3	2.07	0.54
42:BH:148:ILE:N	42:BH:148:ILE:HD13	2.22	0.54
42:BH:99:VAL:O	42:BH:101:ARG:N	2.40	0.54
52:DV:4:ILE:HA	52:DV:12:TYR:O	2.08	0.54
52:DV:18:LEU:HA	52:DV:97:LYS:HZ1	1.73	0.54
4:CD:30:LYS:HB3	4:CD:35:ARG:HH11	1.71	0.54
4:CD:18:LYS:HE3	4:CD:31:CYS:SG	2.48	0.54
46:DP:65:ARG:HH11	46:DP:65:ARG:HG3	1.72	0.54
35:BA:2059:A:H5'	35:BA:2060:A:OP2	2.07	0.54
35:BA:514:A:H2'	35:BA:515:A:C8	2.42	0.54
35:DA:2821:A:OP2	35:DA:2822:G:OP2	2.25	0.54
1:AA:328:C:C2'	1:AA:328:C:O2	2.56	0.54
1:AA:328:C:H4'	1:AA:329:A:C5'	2.36	0.54
50:BT:109:GLU:HA	50:BT:112:ARG:CD	2.38	0.54
36:DB:117:G:C5'	49:DS:55:ALA:HB1	2.38	0.54
44:BN:32:THR:HG23	44:BN:37:LYS:HB3	1.88	0.54
6:CF:60:PHE:O	6:CF:61:LEU:HD12	2.06	0.54
18:CR:71:LYS:O	18:CR:75:ILE:HG13	2.08	0.54
34:D8:49:VAL:CG1	34:D8:53:PRO:HD3	2.38	0.54
35:DA:251:A:H5''	46:DP:51:PHE:HZ	1.71	0.54
35:DA:666:G:H4'	46:DP:49:ARG:HH21	1.71	0.54
35:DA:833:U:H5''	46:DP:48:PRO:HB2	1.90	0.54
35:BA:1885:A:H3'	35:BA:1886:C:H6	1.72	0.54
18:AR:47:THR:HA	18:AR:83:GLU:O	2.07	0.54
43:BI:6:LEU:O	43:BI:15:VAL:HG12	2.08	0.54
1:CA:192:U:H4'	20:CT:102:GLY:O	2.07	0.54
17:CQ:29:HIS:CE1	17:CQ:31:LEU:HB3	2.43	0.54
51:BU:31:SER:C	51:BU:33:ARG:H	2.09	0.54
12:AL:60:LEU:H	12:AL:60:LEU:HD22	1.71	0.54
12:AL:60:LEU:HD23	12:AL:64:TYR:O	2.08	0.54
8:CH:83:ILE:O	8:CH:83:ILE:HG23	2.07	0.54
35:BA:2260:C:O2'	35:BA:2261:C:H5'	2.07	0.54
8:AH:63:LEU:HB3	8:AH:65:TYR:CE1	2.42	0.54
12:CL:60:LEU:O	12:CL:62:SER:N	2.39	0.54
42:BH:65:HIS:ND1	42:BH:66:GLY:N	2.56	0.54
13:AM:22:ILE:HG21	13:AM:25:ILE:HD12	1.90	0.54
17:CQ:71:PHE:CD2	17:CQ:71:PHE:N	2.76	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:DF:168:ARG:HA	40:DF:175:THR:HG21	1.90	0.54
32:D6:15:GLU:O	32:D6:16:CYS:SG	2.61	0.54
53:DW:17:VAL:O	53:DW:19:LEU:N	2.41	0.54
35:DA:1036:G:O2'	35:DA:1037:G:H5'	2.08	0.54
3:CC:125:GLU:CG	3:CC:189:ALA:HA	2.38	0.54
19:CS:49:ILE:N	19:CS:49:ILE:HD12	2.22	0.54
35:DA:132:G:O2'	35:DA:133:C:H5'	2.08	0.54
1:CA:1253:G:H2'	1:CA:1254:C:H6	1.73	0.54
35:BA:2345:G:H5''	35:BA:2347:C:O4'	2.07	0.54
15:AO:33:THR:HG23	15:AO:63:ARG:NH1	2.23	0.54
15:AO:39:LEU:HD13	15:AO:39:LEU:O	2.08	0.54
35:DA:1717:G:C3'	35:DA:1718:G:H5''	2.34	0.54
1:CA:1089:G:O2'	1:CA:1090:U:H5'	2.08	0.54
45:BO:97:ARG:HH11	45:BO:97:ARG:HG3	1.72	0.54
35:DA:360:G:O2'	35:DA:361:G:H5'	2.08	0.54
38:DD:9:TYR:HD2	38:DD:10:THR:HG22	1.73	0.54
35:DA:648:G:H4'	35:DA:2351:G:H5''	1.89	0.54
1:AA:1523:G:C5	1:AA:1524:C:C5	2.95	0.54
45:DO:87:ILE:CG2	45:DO:88:ASN:N	2.71	0.54
1:CA:1243:C:OP2	21:CU:10:ARG:CZ	2.55	0.54
55:DY:49:VAL:O	55:DY:53:PRO:HG3	2.07	0.54
10:CJ:22:LYS:NZ	10:CJ:23:ILE:HG12	2.22	0.54
1:CA:927:G:H2'	1:CA:928:G:H8	1.71	0.54
35:DA:2111:C:H1'	35:DA:2118:U:O4'	2.08	0.54
51:BU:24:TYR:HB2	51:BU:29:SER:HB3	1.90	0.54
1:CA:519:C:O2'	1:CA:520:A:H5'	2.08	0.54
35:DA:271(J):C:C3'	35:DA:271(K):U:H5''	2.38	0.54
37:DC:76:ALA:H	37:DC:94:VAL:HG13	1.73	0.54
35:DA:1362:C:O2'	35:DA:1363:C:H5'	2.08	0.54
22:AV:36:A:N1	24:AX:16:U:C4	2.75	0.54
1:CA:1043:C:H2'	1:CA:1044:A:H8	1.73	0.54
38:DD:69:ARG:HD3	38:DD:105:ILE:HD12	1.88	0.54
35:DA:2854:G:H2'	35:DA:2855:C:H6	1.68	0.54
50:DT:107:ASP:OD2	50:DT:109:GLU:HG3	2.07	0.54
50:DT:28:VAL:HG11	50:DT:46:GLU:OE1	2.07	0.54
1:CA:973:G:H1'	10:CJ:54:PHE:CE1	2.43	0.54
35:BA:1811:G:O2'	35:BA:1812:A:H5'	2.07	0.54
35:BA:1952:A:C5	45:BO:22:ILE:HD12	2.43	0.54
45:BO:34:THR:O	45:BO:35:VAL:C	2.46	0.54
50:BT:120:ARG:HA	50:BT:123:GLN:HG2	1.90	0.54
50:BT:50:ILE:HD12	50:BT:50:ILE:N	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BT:65:LYS:HA	50:BT:65:LYS:HZ1	1.69	0.54
35:DA:2569:G:O2'	35:DA:2570:G:H5'	2.07	0.54
35:DA:2578:G:H1'	39:DE:139:GLY:O	2.08	0.54
39:BE:64:LYS:C	39:BE:66:HIS:N	2.61	0.54
28:B2:29:LYS:HZ2	54:BX:9:LEU:HA	1.71	0.54
27:B1:10:LYS:HG3	27:B1:11:ARG:H	1.73	0.54
41:BG:172:LEU:HA	41:BG:175:LEU:HD12	1.88	0.54
35:DA:58:G:H1	35:DA:69:C:H42	1.55	0.54
42:BH:151:ILE:N	42:BH:151:ILE:HD13	2.22	0.54
56:DZ:10:ARG:HB2	56:DZ:37:VAL:HA	1.90	0.54
29:D3:32:GLN:HB2	35:DA:1158:C:H4'	1.90	0.54
51:DU:65:ILE:HD12	51:DU:65:ILE:H	1.73	0.54
3:CC:182:ILE:HG23	3:CC:203:PHE:N	2.22	0.54
49:BS:27:SER:N	49:BS:38:GLN:O	2.41	0.54
35:BA:1244:G:O2'	35:BA:1245:G:H5'	2.08	0.54
40:BF:184:TYR:CD2	40:BF:185:ASP:N	2.75	0.54
39:BE:116:VAL:CG2	39:BE:117:MET:N	2.71	0.54
39:BE:141:ILE:HG12	39:BE:142:GLY:H	1.72	0.54
39:BE:119:ARG:NH1	39:BE:159:HIS:O	2.41	0.54
35:BA:668:G:O6	35:BA:670:A:H2'	2.07	0.54
40:DF:20:LEU:HD12	40:DF:199:TRP:CH2	2.42	0.54
55:BY:76:CYS:HB3	55:BY:96:ILE:HD11	1.89	0.54
35:DA:1452:A:O2'	35:DA:1453:U:H2'	2.08	0.54
35:BA:1281:G:H1	35:BA:1286:A:N6	2.06	0.54
50:BT:109:GLU:CB	50:BT:113:LYS:HE3	2.24	0.54
36:DB:56:G:H4'	36:DB:57:A:C8	2.43	0.54
43:BI:68:LEU:HG	43:BI:72:LEU:HD23	1.90	0.54
47:BQ:114:ALA:C	47:BQ:116:GLU:N	2.60	0.54
44:BN:26:LEU:HG	44:BN:30:ILE:HD11	1.89	0.54
45:BO:114:ILE:HD12	45:BO:114:ILE:N	2.04	0.54
2:CB:69:LEU:HB3	2:CB:162:ILE:CG2	2.38	0.54
6:AF:8:ILE:HD13	6:AF:26:ILE:HD13	1.89	0.54
18:AR:32:ARG:HA	18:AR:69:THR:HG21	1.90	0.54
1:CA:1402:C:O2'	1:CA:1403:C:H5'	2.08	0.54
51:DU:26:GLY:C	51:DU:28:ARG:N	2.60	0.54
2:AB:144:ARG:HG3	2:AB:145:LEU:N	2.22	0.54
12:CL:84:LEU:HB3	12:CL:101:VAL:CG2	2.38	0.54
43:BI:4:ILE:O	43:BI:36:ALA:HB1	2.06	0.54
12:CL:9:GLN:O	12:CL:12:ARG:N	2.39	0.54
33:B7:34:ARG:HE	33:B7:39:ARG:NE	2.06	0.54
5:AE:39:GLY:C	5:AE:69:VAL:HB	2.28	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:90:VAL:C	12:AL:92:ASP:H	2.11	0.54
16:CP:48:TRP:CE3	16:CP:49:LEU:HB3	2.42	0.54
40:BF:9:ILE:HG12	40:BF:14:PRO:C	2.28	0.54
38:DD:133:LEU:O	38:DD:134:ARG:C	2.46	0.54
11:CK:34:ASP:HB3	11:CK:40:ILE:HD11	1.90	0.54
1:AA:237:C:H5''	17:AQ:25:ARG:NH1	2.22	0.54
1:AA:237:C:O2'	1:AA:238:G:H5'	2.07	0.54
39:DE:131:ALA:HB1	39:DE:134:ILE:HD11	1.89	0.54
13:CM:3:ARG:HA	13:CM:9:ILE:CG1	2.37	0.54
35:BA:1299:G:H5''	35:BA:1300:U:OP1	2.08	0.54
4:CD:5:ILE:CG2	4:CD:6:GLY:H	2.13	0.54
35:DA:2462:U:O2'	35:DA:2463:C:H5'	2.08	0.54
11:AK:17:GLY:HA3	11:AK:79:SER:O	2.07	0.54
10:AJ:32:ALA:HB1	10:AJ:75:ILE:HG13	1.89	0.54
10:AJ:33:GLN:O	10:AJ:75:ILE:HG23	2.08	0.54
45:DO:13:ASN:HD22	45:DO:97:ARG:CB	2.20	0.54
7:CG:25:ALA:HA	7:CG:28:ASN:HD22	1.72	0.54
1:CA:240:C:H2'	1:CA:241:C:H6	1.73	0.54
3:CC:19:GLU:O	3:CC:56:ASP:HA	2.08	0.54
1:AA:473:G:OP1	16:AP:81:ARG:HB2	2.07	0.54
29:B3:27:GLY:O	29:B3:35:ARG:HD2	2.07	0.54
25:AY:78:ALA:HA	25:AY:81:LYS:CG	2.38	0.54
1:CA:968:A:H4'	1:CA:969:A:OP2	2.07	0.54
35:BA:1490:A:H5'	35:BA:1491:G:OP2	2.07	0.54
18:CR:30:ASP:C	18:CR:32:ARG:H	2.11	0.54
37:BC:170:ALA:C	37:BC:172:HIS:H	2.11	0.54
1:AA:859:A:H2'	1:AA:860:A:O4'	2.06	0.54
1:AA:1131:G:H2'	1:AA:1132:C:C6	2.42	0.54
41:BG:150:ASP:O	41:BG:151:ALA:HB2	2.08	0.54
3:AC:118:GLN:O	3:AC:122:GLU:HG3	2.08	0.54
35:BA:952:G:C6	35:BA:953:A:N7	2.76	0.54
13:AM:61:GLU:O	13:AM:61:GLU:HG2	2.07	0.54
6:AF:100:ASN:H	18:AR:23:LYS:NZ	2.05	0.54
3:CC:118:GLN:O	3:CC:122:GLU:HG3	2.08	0.54
35:BA:2828:C:H2'	35:BA:2829:C:C6	2.42	0.54
1:CA:506:G:H2'	1:CA:507:C:C6	2.42	0.54
1:CA:574:A:N3	1:CA:883:C:H1'	2.22	0.54
45:DO:34:THR:O	45:DO:35:VAL:C	2.46	0.54
1:CA:980:C:H5'	1:CA:981:U:C5	2.43	0.54
14:CN:37:PHE:HE1	14:CN:53:LEU:HD22	1.73	0.54
35:BA:1778:U:H2'	35:BA:1779:U:C6	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1820:U:C2	38:DD:202:LYS:HB3	2.43	0.54
10:CJ:7:LYS:HG2	10:CJ:71:LEU:HD13	1.89	0.54
39:BE:55:ASN:O	39:BE:57:LYS:N	2.41	0.54
35:BA:534:U:H2'	35:BA:535:C:C6	2.43	0.54
52:BV:2:PHE:HB2	52:BV:42:GLY:O	2.07	0.54
14:AN:39:LEU:HD11	14:AN:47:LEU:HD12	1.89	0.54
28:B2:57:ILE:O	28:B2:57:ILE:CG1	2.56	0.54
39:DE:77:ILE:HG22	39:DE:79:ARG:HD2	1.89	0.54
54:DX:7:VAL:HA	54:DX:31:HIS:HB2	1.89	0.54
52:DV:2:PHE:HB3	52:DV:42:GLY:CA	2.30	0.54
52:DV:5:VAL:CG2	52:DV:36:PRO:HB2	2.35	0.54
35:DA:1884:A:C3'	35:DA:1885:A:H5''	2.37	0.54
10:AJ:16:LEU:HD13	10:AJ:16:LEU:O	2.07	0.54
19:CS:9:VAL:HG12	19:CS:9:VAL:O	2.08	0.54
47:BQ:20:ALA:CB	47:BQ:99:PRO:O	2.56	0.54
35:BA:260:G:N2	35:BA:261:G:H1'	2.23	0.54
35:BA:623:G:H2'	35:BA:624:C:C6	2.41	0.54
35:BA:2578:G:H1'	39:BE:139:GLY:O	2.08	0.54
27:D1:51:VAL:O	27:D1:60:PHE:N	2.41	0.54
27:D1:83:GLU:HG3	27:D1:86:SER:HB2	1.90	0.54
48:DR:37:THR:OG1	48:DR:40:LYS:HG3	2.07	0.54
48:BR:74:LYS:HA	48:BR:77:ARG:HD2	1.90	0.54
48:BR:55:ALA:HB1	48:BR:84:ALA:HB2	1.87	0.54
36:DB:7:G:H4'	49:DS:29:PHE:HE2	1.71	0.54
49:DS:69:VAL:HG13	49:DS:70:GLY:N	2.22	0.54
18:CR:75:ILE:C	18:CR:76:LEU:HD22	2.28	0.54
1:AA:428:G:O4'	1:AA:430:A:C8	2.61	0.54
4:AD:104:VAL:O	4:AD:108:LEU:HD13	2.08	0.54
4:AD:105:VAL:CG2	4:AD:126:ILE:HD13	2.36	0.54
1:AA:1220:G:O2'	1:AA:1221:G:H5'	2.08	0.54
1:AA:1320:C:H2'	1:AA:1321:C:O4'	2.08	0.54
27:B1:34:THR:HG21	35:BA:388:G:P	2.48	0.54
35:DA:583:G:OP2	51:DU:10:ARG:NH1	2.40	0.54
1:AA:451:A:N6	1:AA:480:U:H2'	2.23	0.54
11:AK:65:ALA:HB1	11:AK:98:LEU:HD23	1.90	0.54
35:BA:692:C:H2'	35:BA:693:C:H6	1.71	0.54
43:DI:6:LEU:O	43:DI:7:GLU:C	2.46	0.54
8:AH:45:ILE:HA	8:AH:64:LYS:CB	2.37	0.54
8:CH:28:ALA:HA	8:CH:59:LEU:HG	1.88	0.54
5:AE:150:ARG:NH1	5:AE:150:ARG:CB	2.68	0.54
35:BA:354:G:H8	35:BA:354:G:O5'	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:DX:25:LYS:NZ	54:DX:87:GLN:O	2.40	0.54
9:CI:73:GLN:O	9:CI:77:ILE:HG13	2.08	0.54
1:AA:1170:A:H2'	1:AA:1171:G:H5'	1.90	0.54
35:DA:1234:U:O2	35:DA:1234:U:H2'	2.07	0.54
2:AB:175:ARG:O	2:AB:176:GLU:C	2.45	0.54
17:CQ:48:GLU:O	17:CQ:49:GLU:C	2.46	0.54
5:AE:80:ILE:HD11	5:AE:91:LEU:HD22	1.89	0.54
7:CG:50:ILE:CB	7:CG:58:PRO:HD3	2.34	0.54
42:DH:155:SER:OG	42:DH:156:ALA:N	2.40	0.54
42:DH:157:TYR:HD1	42:DH:170:ARG:O	1.90	0.54
5:CE:105:VAL:HB	5:CE:106:PRO:CD	2.38	0.54
3:CC:83:ARG:O	3:CC:86:VAL:HG22	2.08	0.54
5:CE:35:GLY:HA2	5:CE:41:VAL:HG12	1.87	0.54
13:AM:23:TYR:OH	13:AM:71:ARG:HD3	2.07	0.54
35:DA:1685:C:H2'	35:DA:1686:C:H6	1.73	0.54
1:CA:280:C:C4	17:CQ:91:ARG:NH2	2.75	0.54
35:DA:2464:C:O2'	35:DA:2465:C:H6	1.90	0.54
38:DD:9:TYR:O	38:DD:10:THR:HG22	2.07	0.54
55:BY:49:VAL:O	55:BY:50:ARG:HB2	2.08	0.54
55:BY:49:VAL:O	55:BY:53:PRO:HG3	2.07	0.54
35:DA:1405:U:H2'	35:DA:1406:U:H6	1.71	0.54
37:DC:22:ILE:CG2	37:DC:25:ALA:HB2	2.38	0.54
1:AA:1155:G:C2'	1:AA:1156:G:H5'	2.38	0.54
29:B3:3:ARG:HA	29:B3:38:GLU:HA	1.88	0.54
16:AP:80:PHE:HD1	16:AP:80:PHE:H	1.56	0.54
25:CY:57:THR:HG22	25:CY:59:THR:HG23	1.89	0.54
35:BA:1469:A:H2'	35:BA:1470:G:O4'	2.06	0.54
1:CA:831:U:H2'	1:CA:832:C:H6	1.72	0.54
35:BA:271(G):C:O2'	35:BA:271(H):G:H5'	2.08	0.54
35:BA:1184:G:O2'	35:BA:1185:C:H5'	2.08	0.54
3:AC:35:GLU:O	3:AC:39:ILE:HG13	2.06	0.54
1:AA:38:G:C2	1:AA:397:A:C2	2.96	0.54
46:BP:132:LYS:O	46:BP:136:GLU:HG2	2.07	0.54
35:DA:52:A:O2'	35:DA:53:A:H5'	2.08	0.54
1:AA:611:A:O2'	1:AA:612:C:H5'	2.08	0.54
35:DA:1396:U:H2'	35:DA:1396:U:O2	2.07	0.54
35:BA:1396:U:O2	35:BA:1396:U:H2'	2.07	0.54
35:BA:88:G:H2'	35:BA:88:G:N3	2.23	0.54
50:DT:110:ILE:HA	50:DT:113:LYS:HD2	1.89	0.54
14:CN:41:ARG:HG3	14:CN:42:ILE:H	1.72	0.54
35:BA:1828:G:O6	38:BD:222:ARG:HD3	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:229:VAL:HG23	38:BD:230:ASP:N	2.21	0.54
1:CA:865:A:H2'	1:CA:866:C:C6	2.43	0.54
36:DB:42:C:N4	41:DG:91:ARG:NH2	2.55	0.54
32:B6:9:LEU:HD23	32:B6:10:LEU:N	2.23	0.54
35:BA:2682:U:C2	39:BE:22:PRO:HB3	2.43	0.54
50:BT:62:THR:HB	50:BT:74:ARG:O	2.07	0.54
56:BZ:70:LEU:O	56:BZ:88:PHE:HD2	1.91	0.54
35:DA:2632:A:H1'	39:DE:61:ARG:HH12	1.73	0.54
41:BG:41:GLN:HE21	41:BG:153:ARG:HB3	1.72	0.54
41:BG:76:SER:HB3	41:BG:84:LYS:HD2	1.89	0.54
41:BG:31:VAL:HG22	41:BG:32:PRO:HD2	1.90	0.54
42:BH:159:GLU:O	42:BH:160:LYS:HG2	2.08	0.54
51:DU:107:ALA:O	51:DU:111:GLU:HG2	2.08	0.54
10:AJ:7:LYS:HG2	10:AJ:71:LEU:HD13	1.89	0.54
49:BS:40:ILE:HG23	49:BS:46:VAL:O	2.08	0.54
40:BF:20:LEU:HD12	40:BF:199:TRP:CH2	2.42	0.54
40:BF:30:PRO:O	40:BF:33:LEU:HB3	2.08	0.54
35:BA:2512:C:H4'	39:BE:122:PHE:CE2	2.43	0.54
27:D1:62:VAL:CG2	27:D1:63:ALA:N	2.71	0.54
35:BA:575:A:O2'	35:BA:576:U:H5'	2.08	0.54
35:BA:869:G:H1'	47:BQ:8:LYS:HZ2	1.70	0.54
20:AT:36:LEU:N	20:AT:36:LEU:HD22	2.18	0.54
35:BA:1451:C:H4'	35:BA:1452:A:C8	2.43	0.54
36:DB:51:G:H2'	36:DB:52:A:O4'	2.07	0.54
6:CF:100:ASN:O	6:CF:101:ALA:O	2.25	0.54
46:DP:38:GLN:O	46:DP:39:LYS:HB2	2.08	0.54
4:AD:150:GLU:HA	4:AD:153:ARG:CD	2.38	0.54
1:AA:545:C:O2'	1:AA:546:G:H5'	2.08	0.54
4:AD:65:ARG:NH1	4:AD:72:GLU:N	2.56	0.54
1:CA:1521:G:C6	1:CA:1522:U:C4	2.96	0.54
1:AA:939:G:H5''	7:AG:102:ARG:CZ	2.36	0.54
25:CY:113:ASP:O	25:CY:116:ARG:HG3	2.08	0.54
25:CY:24:ASN:HB3	25:CY:121:TYR:CD1	2.43	0.54
43:BI:15:VAL:O	43:BI:16:GLY:C	2.45	0.54
1:CA:191:G:C4	20:CT:105:SER:HB3	2.42	0.54
25:AY:127:VAL:HA	25:AY:130:ARG:HB2	1.89	0.54
35:BA:2020:A:N1	35:BA:2034:U:O4	2.41	0.54
1:AA:706:A:C5	1:AA:707:C:C5	2.94	0.54
3:CC:171:GLY:O	3:CC:172:ARG:O	2.26	0.54
5:AE:129:ILE:O	5:AE:132:ALA:N	2.40	0.54
1:AA:511:C:C2	1:AA:512:U:C5	2.95	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2536:G:C6	35:BA:2537:U:N3	2.76	0.54
12:CL:58:VAL:O	12:CL:60:LEU:HD22	2.08	0.54
35:BA:271(D):G:H1	35:BA:271(T):C:N4	1.80	0.54
29:B3:50:VAL:O	29:B3:51:ALA:C	2.46	0.54
1:CA:512:U:H2'	1:CA:513:C:C6	2.43	0.54
35:BA:1174:A:H5''	35:BA:1175:U:H5''	1.89	0.54
15:CO:11:VAL:HG13	15:CO:15:PHE:HE1	1.73	0.54
46:BP:95:VAL:HG23	46:BP:95:VAL:O	2.08	0.54
1:CA:1413:A:O2'	1:CA:1414:U:H5'	2.07	0.54
1:CA:115:G:O2'	1:CA:116:A:OP2	2.23	0.54
16:CP:28:ARG:NH1	16:CP:28:ARG:HG2	2.22	0.54
32:D6:36:LEU:HD13	32:D6:50:ARG:HH12	1.71	0.54
38:DD:145:VAL:O	38:DD:153:ALA:HB1	2.08	0.54
1:AA:831:U:H2'	1:AA:832:C:H6	1.73	0.54
12:CL:21:LYS:N	12:CL:21:LYS:HD2	2.19	0.54
1:AA:1276:G:H2'	1:AA:1277:C:H5'	1.89	0.54
35:BA:860:U:O2'	35:BA:861:A:H5'	2.08	0.54
35:BA:174:C:H2'	35:BA:174:C:O2	2.08	0.54
35:DA:2643:G:O2'	35:DA:2644:G:H5'	2.08	0.54
35:DA:503:A:C6	35:DA:505:A:C6	2.96	0.54
4:CD:80:GLU:HB3	4:CD:84:LYS:HZ1	1.73	0.54
35:DA:2007:C:H2'	35:DA:2008:C:C6	2.41	0.54
40:BF:197:ASP:OD1	40:BF:198:ALA:N	2.41	0.54
35:BA:7:G:H4'	44:BN:13:TRP:HH2	1.67	0.54
7:AG:20:ASP:HB3	7:AG:23:VAL:HG23	1.89	0.54
35:DA:2037:G:H2'	35:DA:2038:G:H8	1.73	0.54
1:CA:189(H):G:H2'	1:CA:189(I):G:C8	2.40	0.54
40:DF:22:ALA:CA	40:DF:26:ALA:HB2	2.37	0.54
11:CK:125:PHE:N	11:CK:125:PHE:HD1	2.06	0.54
5:AE:15:ARG:HG2	5:AE:26:PHE:CD2	2.42	0.54
35:BA:2870:C:H2'	35:BA:2871:C:H5'	1.90	0.54
35:BA:1744:C:C2'	35:BA:1745:C:H5'	2.38	0.54
35:BA:1918:A:O2'	35:BA:1920:C:N4	2.41	0.54
1:AA:309:G:O2'	1:AA:310:G:H5'	2.08	0.54
1:AA:1043:C:H2'	1:AA:1044:A:C8	2.41	0.54
51:BU:51:LYS:HE2	51:BU:51:LYS:HA	1.89	0.54
35:BA:2780:G:OP1	44:BN:118:LYS:HE2	2.07	0.54
1:AA:272:C:O2'	1:AA:273:A:H5'	2.08	0.54
45:DO:68:GLU:N	45:DO:68:GLU:OE2	2.41	0.54
16:AP:20:VAL:HG22	16:AP:21:VAL:N	2.20	0.54
35:DA:2571:C:O2	35:DA:2571:C:H2'	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1495:A:OP2	35:DA:1495:A:C8	2.61	0.54
42:DH:118:PRO:HG2	42:DH:121:ILE:HD12	1.90	0.54
28:B2:50:ILE:O	28:B2:51:ARG:CB	2.56	0.54
39:DE:32:PRO:O	39:DE:34:VAL:HG13	2.08	0.54
41:BG:85:GLY:C	41:BG:87:PRO:CD	2.77	0.54
28:D2:12:GLU:O	28:D2:12:GLU:CG	2.56	0.54
56:DZ:99:TYR:HA	56:DZ:124:ILE:O	2.07	0.54
10:AJ:34:VAL:HG12	10:AJ:35:SER:N	2.22	0.54
19:CS:36:ARG:CZ	19:CS:72:GLY:HA2	2.38	0.54
4:CD:110:PHE:CD1	4:CD:110:PHE:N	2.75	0.54
4:CD:119:GLN:HG3	4:CD:123:HIS:CD2	2.39	0.54
40:BF:125:LEU:HB3	40:BF:196:LEU:HD21	1.89	0.54
25:AY:76:LEU:HD13	25:AY:97:ASP:O	2.08	0.54
35:BA:2512:C:H2'	35:BA:2513:G:O4'	2.08	0.54
35:BA:2571:C:H5'	35:BA:2572:A:H5'	1.88	0.54
35:BA:671:C:C5	46:BP:36:LYS:NZ	2.75	0.54
46:BP:48:PRO:O	46:BP:51:PHE:N	2.41	0.54
52:BV:82:ARG:NH1	52:BV:84:LYS:HD3	2.22	0.54
40:DF:107:LYS:O	40:DF:110:LEU:N	2.41	0.54
35:BA:1637:A:H2'	35:BA:1638:C:C6	2.43	0.54
36:DB:30:C:H2'	36:DB:31:C:O4'	2.08	0.54
41:DG:20:ILE:CD1	41:DG:25:TYR:HB2	2.38	0.54
49:DS:93:LYS:HD2	49:DS:93:LYS:O	2.08	0.54
35:DA:2079:U:H2'	35:DA:2080:G:C8	2.43	0.54
35:BA:8:A:H5''	44:BN:51:PHE:HZ	1.73	0.54
6:CF:70:ASP:CG	6:CF:71:ARG:H	2.09	0.54
18:CR:25:THR:O	18:CR:25:THR:HG22	2.07	0.54
2:CB:54:THR:HG22	2:CB:58:ILE:CD1	2.36	0.54
2:CB:68:ILE:HG22	2:CB:70:PHE:HD1	1.72	0.54
35:DA:673:C:H5'	40:DF:54:ARG:NH1	2.22	0.54
40:DF:84:VAL:O	40:DF:85:GLY:C	2.46	0.54
35:DA:1225:G:OP1	52:DV:88:ARG:HD2	2.07	0.54
43:DI:109:ILE:HD13	43:DI:111:PRO:HD3	1.89	0.54
6:AF:27:GLN:NE2	6:AF:27:GLN:HA	2.23	0.54
1:CA:1405:G:H1'	1:CA:1518:A:HO2'	1.72	0.54
43:BI:13:GLY:O	43:BI:15:VAL:N	2.41	0.54
1:CA:881:G:P	12:CL:12:ARG:NH2	2.81	0.54
12:AL:32:PHE:HD1	12:AL:86:ARG:HA	1.73	0.54
11:AK:21:ILE:CD1	11:AK:84:VAL:HG12	2.38	0.54
18:AR:87:ARG:HG2	18:AR:88:LYS:N	2.23	0.54
55:BY:16:ALA:HA	55:BY:21:LYS:HD2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:AW:38:A:H2'	23:AW:39:A:C5'	2.38	0.54
5:CE:39:GLY:C	5:CE:69:VAL:HB	2.28	0.54
9:CI:105:ASP:C	9:CI:107:ARG:H	2.10	0.54
8:AH:65:TYR:HA	8:AH:79:VAL:HG23	1.90	0.54
8:AH:7:ALA:O	8:AH:8:ASP:C	2.45	0.54
42:BH:12:PRO:N	42:BH:15:VAL:HG21	2.23	0.54
33:D7:8:ASN:ND2	33:D7:9:ARG:N	2.52	0.54
35:DA:549:G:C3'	35:DA:551:G:H5''	2.37	0.54
38:BD:134:ARG:O	38:BD:136:ILE:N	2.40	0.54
46:BP:83:VAL:HG23	46:BP:105:LEU:HD22	1.88	0.54
40:BF:178:PRO:HG2	40:BF:179:GLU:N	2.16	0.54
1:AA:968:A:H4'	1:AA:969:A:OP2	2.07	0.54
1:CA:385:C:H2'	1:CA:386:C:H6	1.73	0.54
20:CT:26:ASN:HD22	20:CT:27:LYS:H	1.55	0.54
38:DD:146:GLU:CA	38:DD:153:ALA:HA	2.34	0.54
13:CM:28:ALA:C	13:CM:30:ALA:H	2.11	0.54
1:CA:9:G:H2'	1:CA:10:A:C8	2.43	0.54
1:CA:732:C:H2'	1:CA:733:A:H5''	1.89	0.54
13:AM:68:GLY:HA2	13:AM:71:ARG:HB3	1.90	0.54
19:AS:42:PRO:C	19:AS:44:MET:H	2.11	0.54
35:BA:292:C:H2'	35:BA:292:C:O2	2.07	0.54
13:AM:28:ALA:C	13:AM:30:ALA:H	2.09	0.54
1:AA:903:G:H2'	1:AA:904:C:C6	2.39	0.54
1:AA:1242:C:O5'	1:AA:1242:C:H6	1.90	0.54
46:DP:140:ALA:O	46:DP:141:ALA:HB3	2.08	0.54
35:BA:2233:U:H2'	35:BA:2234:G:C8	2.42	0.54
35:DA:265:A:H1'	35:DA:266:G:C1'	2.38	0.54
35:BA:1323:U:H3	35:BA:1331:A:H61	1.54	0.54
55:BY:83:THR:HG22	55:BY:84:ARG:H	1.73	0.54
3:CC:120:VAL:HA	3:CC:123:GLN:NE2	2.23	0.54
1:AA:1043:C:H2'	1:AA:1044:A:H8	1.71	0.54
35:BA:2522:U:H2'	35:BA:2523:G:H5''	1.89	0.54
35:DA:391:G:O2'	35:DA:392:C:H5'	2.08	0.54
41:BG:52:ILE:O	41:BG:54:GLU:N	2.41	0.54
35:DA:1639:U:H2'	35:DA:1640:C:C5'	2.38	0.54
50:DT:110:ILE:HG22	50:DT:111:ARG:N	2.23	0.54
1:CA:963:G:N2	10:CJ:55:LYS:NZ	2.56	0.54
10:CJ:62:HIS:N	10:CJ:62:HIS:CD2	2.74	0.54
35:BA:2286:A:H4'	35:BA:2287:A:O4'	2.07	0.54
1:AA:1442(A):G:H4'	1:AA:1442(B):A:O5'	2.08	0.54
50:BT:91:ARG:HB3	50:BT:115:ARG:O	2.09	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BZ:29:TYR:O	56:BZ:30:ASN:CB	2.56	0.54
39:BE:57:LYS:HD3	39:BE:59:VAL:HG12	1.90	0.54
39:BE:77:ILE:HG23	39:BE:78:LEU:H	1.72	0.54
39:BE:36:ARG:NH2	39:BE:88:GLY:HA3	2.23	0.54
52:BV:5:VAL:HG23	52:BV:37:VAL:H	1.73	0.54
42:DH:164:TYR:O	42:DH:165:ALA:HB2	2.08	0.54
42:DH:99:VAL:O	42:DH:101:ARG:N	2.41	0.54
1:AA:950:U:H2'	1:AA:951:G:H8	1.70	0.54
35:DA:336:C:H4'	55:DY:7:VAL:CG1	2.38	0.54
42:BH:144:VAL:CG1	42:BH:148:ILE:HD11	2.37	0.54
47:DQ:114:ALA:C	47:DQ:116:GLU:N	2.60	0.54
35:BA:1495:A:OP1	35:BA:1495:A:C8	2.61	0.54
1:AA:1208:C:H2'	1:AA:1209:C:C6	2.43	0.54
3:CC:109:PRO:HG2	3:CC:110:ASN:H	1.73	0.54
4:CD:58:LEU:O	4:CD:59:ARG:C	2.44	0.54
27:D1:76:ARG:HB3	27:D1:78:LYS:HZ3	1.71	0.54
27:D1:75:GLU:O	27:D1:76:ARG:NE	2.38	0.54
44:DN:96:GLU:O	44:DN:97:ARG:C	2.45	0.54
35:BA:514:A:O2'	35:BA:515:A:H5'	2.08	0.54
35:BA:776:G:H4'	35:BA:777:A:O5'	2.08	0.54
40:BF:51:THR:OG1	40:BF:91:GLY:HA3	2.07	0.54
40:DF:110:LEU:HD21	40:DF:181:LEU:CD2	2.38	0.54
48:DR:53:HIS:HA	48:DR:56:LYS:HB2	1.88	0.54
48:BR:70:LEU:O	48:BR:71:GLN:HB2	2.08	0.54
50:BT:102:ILE:CB	50:BT:110:ILE:HD11	2.38	0.54
2:CB:215:LEU:O	2:CB:219:VAL:HG23	2.08	0.54
2:AB:193:ASP:OD2	2:AB:196:LEU:HD21	2.08	0.54
35:DA:2078:C:H1'	35:DA:2434:A:N3	2.22	0.54
44:DN:26:LEU:CD1	44:DN:30:ILE:HD11	2.37	0.54
56:BZ:118:GLN:N	56:BZ:173:ALA:O	2.40	0.54
52:DV:71:LEU:O	52:DV:90:PRO:HA	2.07	0.54
1:AA:1104:G:H2'	1:AA:1105:A:H8	1.72	0.54
21:CU:18:TYR:CD2	21:CU:24:ARG:HG3	2.43	0.54
35:BA:1202:C:H2'	35:BA:1203:G:H5'	1.90	0.54
25:AY:92:PRO:CA	25:AY:101:ILE:HG23	2.38	0.54
44:BN:76:SER:O	44:BN:77:GLY:C	2.43	0.54
42:DH:55:PRO:HG2	42:DH:61:HIS:NE2	2.21	0.54
7:AG:148:ASN:C	7:AG:150:ALA:H	2.10	0.54
35:DA:1244:G:O2'	35:DA:1245:G:H5'	2.07	0.54
35:DA:607:U:OP1	40:DF:102:PRO:HA	2.08	0.54
1:AA:601:C:O2'	1:AA:602:A:H5'	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1077:G:N2	1:AA:1079:G:H3'	2.23	0.54
25:CY:80:GLU:C	25:CY:82:ALA:H	2.09	0.54
25:CY:76:LEU:HD21	25:CY:99:LEU:CD2	2.35	0.54
8:CH:4:ASP:OD2	8:CH:7:ALA:N	2.29	0.54
35:DA:272(C):G:H2'	35:DA:272(D):G:C8	2.41	0.54
33:D7:19:ARG:HD3	35:DA:125:G:H5''	1.89	0.54
33:D7:30:VAL:HG12	33:D7:33:ARG:HH12	1.73	0.54
1:AA:1116:C:H2'	1:AA:1117:G:C4'	2.38	0.54
16:CP:48:TRP:HE3	16:CP:49:LEU:HB3	1.73	0.54
16:CP:67:THR:O	16:CP:71:ARG:HB2	2.07	0.54
38:DD:173:VAL:CG1	38:DD:185:VAL:O	2.56	0.54
11:CK:21:ILE:CD1	11:CK:84:VAL:HG12	2.38	0.54
5:AE:72:GLN:O	5:AE:73:ASN:HB3	2.08	0.54
35:BA:271(U):G:O2'	35:BA:271(V):G:H5'	2.08	0.54
2:AB:67:THR:CG2	2:AB:155:LEU:HG	2.34	0.54
35:DA:2801:A:H4'	35:DA:2801(A):A:O5'	2.07	0.54
7:AG:50:ILE:HG22	7:AG:56:GLN:O	2.07	0.54
38:BD:257:LEU:HD23	38:BD:258:LYS:N	2.23	0.54
2:CB:28:PHE:CD1	2:CB:28:PHE:O	2.61	0.54
1:AA:180:U:H2'	1:AA:181:G:H5''	1.89	0.54
52:DV:1:MET:CE	52:DV:45:THR:H	2.20	0.54
1:CA:896:C:O2'	1:CA:897:C:H5'	2.08	0.54
7:CG:145:ALA:O	7:CG:146:GLU:HB2	2.08	0.54
7:AG:27:ILE:HG21	7:AG:40:ALA:HB2	1.90	0.54
35:BA:2410:G:N2	35:BA:2411:A:H1'	2.23	0.54
35:DA:221:A:O2'	35:DA:222:A:OP2	2.25	0.54
35:DA:271(J):C:C2'	35:DA:271(K):U:H5''	2.38	0.54
53:BW:9:TYR:H	53:BW:102:HIS:CD2	2.26	0.54
28:D2:57:ILE:HD11	28:D2:59:ARG:NH1	2.23	0.54
35:DA:402:A:O2'	35:DA:403:U:H5'	2.08	0.54
37:BC:77:ILE:O	37:BC:77:ILE:HG12	2.07	0.54
13:CM:61:GLU:HG2	13:CM:61:GLU:O	2.08	0.54
35:BA:1543:C:O2	35:BA:1543:C:H2'	2.07	0.54
49:DS:12:PHE:O	49:DS:12:PHE:CG	2.61	0.54
3:CC:18:TRP:HE3	3:CC:18:TRP:H	1.53	0.54
36:BB:95:C:O2'	36:BB:96:U:H5'	2.08	0.54
35:BA:1668:A:N7	35:BA:1674:G:C6	2.76	0.54
35:BA:182:A:H2	35:BA:433:C:H1'	1.73	0.54
1:CA:423:G:H2'	1:CA:424:G:O4'	2.08	0.54
55:DY:44:ILE:CG2	55:DY:45:VAL:N	2.70	0.53
50:DT:109:GLU:HA	50:DT:112:ARG:CD	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DT:106:SER:CA	50:DT:110:ILE:HD13	2.33	0.53
50:DT:99:LEU:CD1	50:DT:99:LEU:O	2.56	0.53
10:CJ:50:ILE:CD1	14:CN:41:ARG:HD2	2.36	0.53
38:BD:80:ALA:HB2	38:BD:96:HIS:ND1	2.23	0.53
1:CA:1078:U:H2'	1:CA:1079:G:C8	2.43	0.53
38:DD:211:ARG:HA	38:DD:214:TRP:CD2	2.43	0.53
38:DD:19:ALA:O	38:DD:21:PHE:CE1	2.61	0.53
38:DD:242:ARG:HG3	38:DD:242:ARG:NH1	2.19	0.53
1:CA:607:A:C4	16:CP:31:LYS:HE3	2.43	0.53
36:DB:45:A:H2'	36:DB:45:A:N3	2.23	0.53
34:B8:26:LYS:NZ	34:B8:47:LYS:HD3	2.23	0.53
34:B8:29:LYS:O	34:B8:30:ARG:C	2.47	0.53
35:BA:1952:A:C4	45:BO:22:ILE:HD12	2.43	0.53
39:DE:116:VAL:CG2	39:DE:122:PHE:HB2	2.32	0.53
35:BA:535:C:C2'	35:BA:536:A:H5'	2.39	0.53
35:BA:1152:C:H1'	51:BU:77:SER:HB3	1.89	0.53
52:BV:98:GLU:OE1	52:BV:98:GLU:N	2.40	0.53
42:DH:102:ALA:HB1	42:DH:115:VAL:O	2.07	0.53
10:AJ:50:ILE:CD1	14:AN:41:ARG:HD2	2.33	0.53
14:AN:44:LEU:HD12	14:AN:44:LEU:O	2.08	0.53
35:DA:2810:A:H2'	39:DE:61:ARG:NH2	2.23	0.53
41:BG:130:ASN:ND2	41:BG:161:THR:O	2.41	0.53
35:BA:2773:C:H2'	35:BA:2774:C:C6	2.44	0.53
47:DQ:51:ARG:C	47:DQ:54:MET:HB3	2.27	0.53
19:CS:4:SER:N	19:CS:6:LYS:HZ1	2.07	0.53
35:BA:1862:G:O2'	35:BA:1863:G:H5'	2.08	0.53
1:CA:539:A:H2'	1:CA:540:G:H8	1.73	0.53
40:BF:39:TRP:HA	40:BF:99:TYR:CE1	2.43	0.53
35:DA:1024:G:O5'	35:DA:1024:G:H8	1.91	0.53
34:B8:53:PRO:C	34:B8:55:ALA:N	2.62	0.53
48:DR:49:ASP:O	48:DR:51:LEU:N	2.41	0.53
1:AA:1468:A:H2'	1:AA:1469:G:O4'	2.07	0.53
48:BR:37:THR:HA	48:BR:111:LEU:HA	1.90	0.53
2:AB:164:VAL:O	2:AB:186:ALA:HB1	2.08	0.53
2:AB:187:LEU:HA	2:AB:201:ILE:O	2.07	0.53
2:AB:82:ARG:HB2	2:AB:94:ASN:ND2	2.23	0.53
4:AD:110:PHE:N	4:AD:110:PHE:CD1	2.76	0.53
4:AD:33:MET:HA	4:AD:33:MET:CE	2.39	0.53
35:DA:909:A:H1'	47:DQ:10:ARG:HH22	1.72	0.53
1:AA:674:G:H2'	1:AA:675:A:C8	2.37	0.53
51:DU:21:ALA:CB	51:DU:35:ALA:HB1	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1216:G:O3'	14:CN:5:ALA:HB1	2.08	0.53
20:CT:41:ILE:C	20:CT:43:LEU:N	2.61	0.53
25:AY:26:ALA:C	25:AY:28:LEU:H	2.11	0.53
25:AY:84:ARG:O	25:AY:86:SER:N	2.40	0.53
7:CG:71:PRO:CG	7:CG:103:TRP:HZ3	2.20	0.53
33:B7:34:ARG:HE	33:B7:39:ARG:HE	1.54	0.53
33:B7:5:TRP:HE1	33:B7:7:PRO:HG3	1.72	0.53
35:DA:2282:G:C4	35:DA:2425:A:N6	2.76	0.53
8:CH:83:ILE:HD13	8:CH:137:VAL:CG2	2.35	0.53
8:CH:97:VAL:HG13	8:CH:98:LYS:N	2.17	0.53
22:AV:27:G:H2'	22:AV:28:G:C8	2.43	0.53
25:CY:67:VAL:HA	25:CY:99:LEU:O	2.08	0.53
43:DI:38:LEU:H	43:DI:38:LEU:CD1	2.03	0.53
12:AL:119:LYS:HD3	12:AL:120:TYR:HE1	1.73	0.53
9:AI:28:VAL:HG12	9:AI:29:ASN:H	1.73	0.53
9:AI:16:ARG:O	9:AI:63:ILE:CG2	2.56	0.53
35:DA:2128:C:H5'	35:DA:2173:A:C2	2.43	0.53
1:CA:527:G:H2'	1:CA:528:C:H5'	1.90	0.53
1:CA:528:C:H2'	1:CA:529:G:H8	1.73	0.53
35:BA:2748:A:C2	42:BH:63:SER:HB3	2.43	0.53
1:AA:444:C:H2'	1:AA:445:G:C8	2.41	0.53
40:BF:151:SER:C	40:BF:152:GLU:HG3	2.29	0.53
1:AA:676:A:O2'	1:AA:677:U:H5'	2.08	0.53
35:BA:493:G:C2'	35:BA:494:G:H5''	2.38	0.53
35:DA:376:C:O2'	35:DA:377:C:H5'	2.09	0.53
1:CA:59:A:H2'	1:CA:59:A:N3	2.22	0.53
38:DD:145:VAL:CG1	38:DD:146:GLU:N	2.72	0.53
13:CM:64:TRP:NE1	13:CM:66:LEU:HD12	2.23	0.53
13:CM:68:GLY:O	13:CM:71:ARG:N	2.41	0.53
35:BA:1844:C:C2'	35:BA:1845:G:H5'	2.37	0.53
53:BW:17:VAL:C	53:BW:19:LEU:N	2.61	0.53
7:AG:24:THR:O	7:AG:25:ALA:C	2.44	0.53
23:CW:7:G:H5'	23:CW:8:U:H5	1.72	0.53
1:AA:355:C:O2'	1:AA:356:A:H5'	2.07	0.53
50:DT:3:ARG:O	50:DT:4:GLY:C	2.47	0.53
35:DA:1441:G:O2'	35:DA:1442:G:H5'	2.08	0.53
1:CA:652:U:H1'	1:CA:653:A:C2	2.42	0.53
15:AO:6:GLU:N	15:AO:6:GLU:OE1	2.32	0.53
50:DT:57:PHE:O	50:DT:59:THR:HG22	2.08	0.53
35:DA:2784:C:H2'	35:DA:2785:C:C6	2.44	0.53
1:CA:164:U:O2'	1:CA:165:C:H5'	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:271(N):U:H5''	35:BA:271(O):C:H5'	1.89	0.53
38:BD:152:GLY:O	38:BD:154:LYS:HG3	2.08	0.53
35:BA:2784:C:H2'	35:BA:2785:C:C6	2.43	0.53
35:BA:338:G:H2'	35:BA:339:U:C6	2.43	0.53
50:DT:81:PRO:O	50:DT:82:LEU:HD12	2.08	0.53
1:CA:973:G:C4	10:CJ:55:LYS:NZ	2.68	0.53
1:CA:973:G:O4'	10:CJ:55:LYS:HG2	2.08	0.53
38:BD:260:ARG:NH2	38:BD:264:LYS:HD3	2.23	0.53
1:CA:15:G:H4'	5:CE:24:ARG:HH21	1.73	0.53
35:DA:1779:U:H5	35:DA:1784:A:N7	2.04	0.53
41:DG:59:GLU:OE1	41:DG:60:LEU:HD23	2.08	0.53
34:B8:30:ARG:HH21	46:BP:62:LEU:CB	2.17	0.53
35:BA:2415:G:C3'	46:BP:66:GLY:HA3	2.38	0.53
47:DQ:35:VAL:HG22	47:DQ:101:ARG:O	2.08	0.53
35:BA:1992:G:C6	35:BA:1997:G:N1	2.75	0.53
35:BA:2679:A:O2'	35:BA:2680:C:H5'	2.07	0.53
50:BT:23:ARG:NH2	50:BT:120:ARG:HD3	2.23	0.53
56:BZ:56:VAL:HA	56:BZ:70:LEU:CD2	2.38	0.53
39:BE:81:ILE:O	39:BE:82:ARG:O	2.27	0.53
52:BV:33:VAL:HG13	52:BV:62:LEU:H	1.72	0.53
10:AJ:64:GLU:N	14:AN:59:ALA:HB2	2.23	0.53
39:DE:59:VAL:CG1	39:DE:63:LEU:HG	2.37	0.53
2:AB:12:GLU:C	2:AB:14:GLY:N	2.61	0.53
42:BH:97:ARG:HD2	42:BH:104:GLU:OE1	2.09	0.53
56:DZ:87:ASP:N	56:DZ:87:ASP:OD2	2.40	0.53
35:DA:1160:G:N2	52:DV:10:LYS:HE3	2.24	0.53
35:DA:1856:G:H2'	35:DA:1857:G:H5'	1.89	0.53
4:CD:58:LEU:O	4:CD:60:GLU:N	2.41	0.53
1:CA:995:C:O2	14:CN:4:LYS:HE2	2.09	0.53
35:BA:598:G:H5'	46:BP:15:ARG:CB	2.38	0.53
40:BF:34:TRP:HB3	46:BP:11:GLY:HA3	1.89	0.53
46:BP:16:ARG:HD3	46:BP:18:ARG:N	2.20	0.53
35:BA:1188:U:H2'	35:BA:1189:A:H5'	1.90	0.53
35:BA:2061:G:OP1	40:BF:68:LYS:NZ	2.41	0.53
35:BA:510:C:O2'	35:BA:511:U:H5'	2.09	0.53
52:BV:72:VAL:CA	52:BV:88:ARG:HH12	2.16	0.53
48:DR:12:ARG:HD3	48:DR:16:HIS:CD2	2.43	0.53
48:DR:13:HIS:ND1	48:DR:13:HIS:C	2.62	0.53
48:BR:2:ARG:C	48:BR:2:ARG:HD2	2.29	0.53
35:BA:2845:G:H2'	35:BA:2846:G:H8	1.74	0.53
48:BR:52:ILE:HD12	48:BR:79:LEU:HD21	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:BR:73:VAL:O	48:BR:76:VAL:HG12	2.07	0.53
48:BR:85:PRO:O	48:BR:87:TYR:N	2.42	0.53
36:DB:57:A:O4'	41:DG:30:GLU:HB3	2.08	0.53
49:DS:92:TYR:O	49:DS:93:LYS:HB2	2.09	0.53
27:D1:23:LYS:NZ	27:D1:23:LYS:HA	2.23	0.53
2:CB:72:GLY:HA3	2:CB:165:VAL:CG2	2.38	0.53
34:D8:56:GLU:HA	34:D8:59:LYS:NZ	2.22	0.53
35:DA:2065:C:H2'	35:DA:2066:C:C6	2.43	0.53
55:DY:31:LEU:HD11	55:DY:34:LYS:H	1.72	0.53
55:DY:67:LEU:HD12	55:DY:68:HIS:N	2.23	0.53
35:DA:2277:G:OP1	47:DQ:85:LYS:HB3	2.09	0.53
6:AF:30:LEU:HB3	6:AF:35:ALA:HB3	1.90	0.53
1:CA:1511:G:H2'	1:CA:1512:U:O4'	2.08	0.53
35:DA:2033:A:O2'	35:DA:2034:U:P	2.66	0.53
44:DN:78:TYR:CG	44:DN:79:PRO:HD3	2.43	0.53
35:DA:2019:A:O3'	51:DU:27:LEU:HD12	2.08	0.53
25:CY:127:VAL:O	25:CY:128:ALA:C	2.45	0.53
25:CY:18:LEU:HD12	25:CY:18:LEU:C	2.29	0.53
16:AP:67:THR:O	16:AP:71:ARG:HB2	2.08	0.53
25:AY:63:PRO:HB3	25:AY:64:ARG:HH22	1.73	0.53
47:BQ:81:VAL:HG23	47:BQ:82:ARG:HG2	1.90	0.53
11:AK:65:ALA:HB3	11:AK:97:ALA:CB	2.38	0.53
11:AK:23:ALA:HA	11:AK:28:THR:HG23	1.89	0.53
35:DA:235:U:H2'	35:DA:236:C:H6	1.73	0.53
35:DA:607:U:OP1	40:DF:103:LYS:N	2.41	0.53
5:AE:126:ARG:O	5:AE:127:ASN:C	2.47	0.53
9:AI:50:LEU:O	9:AI:55:ALA:HB3	2.08	0.53
1:CA:1372:U:H5''	9:CI:71:SER:CB	2.36	0.53
9:CI:7:THR:N	9:CI:83:ARG:HD2	2.24	0.53
35:BA:548:A:O2'	35:BA:549:G:OP1	2.26	0.53
35:DA:493:G:C2'	35:DA:494:G:H5''	2.38	0.53
11:CK:85:ARG:HG2	11:CK:111:ASP:O	2.08	0.53
35:BA:614(C):A:N3	40:BF:180:GLY:HA2	2.23	0.53
1:CA:1424:C:O2'	1:CA:1425:U:H5'	2.08	0.53
35:BA:1419:A:H62	35:BA:1578:U:H3	1.56	0.53
1:CA:328:C:H4'	1:CA:329:A:C5'	2.36	0.53
4:AD:128:VAL:C	4:AD:130:GLY:N	2.61	0.53
19:AS:49:ILE:HD12	19:AS:49:ILE:N	2.23	0.53
19:AS:60:VAL:O	19:AS:60:VAL:HG13	2.08	0.53
1:AA:314:C:O2'	1:AA:315:A:H5'	2.08	0.53
46:DP:123:LEU:O	46:DP:125:VAL:HG12	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:CY:119:ARG:HD3	35:DA:1947:C:OP1	2.08	0.53
1:AA:277:C:O2'	1:AA:278:G:H5'	2.07	0.53
11:CK:122:LYS:O	11:CK:126:ARG:CB	2.57	0.53
1:CA:764:C:C2'	1:CA:765:G:H8	2.19	0.53
26:B0:27:GLU:HG3	26:B0:68:GLU:HA	1.90	0.53
41:BG:96:ARG:HA	41:BG:99:MET:HE1	1.90	0.53
7:CG:22:LEU:O	7:CG:25:ALA:HB3	2.08	0.53
29:D3:26:LEU:HD21	29:D3:46:ASN:CB	2.38	0.53
23:AW:65:G:N2	23:AW:66:C:H1'	2.23	0.53
19:CS:22:LEU:C	19:CS:24:ALA:H	2.12	0.53
35:BA:2065:C:H2'	35:BA:2066:C:C6	2.43	0.53
38:BD:125:ILE:CD1	38:BD:125:ILE:N	2.71	0.53
25:CY:176:ALA:O	25:CY:180:GLU:HG3	2.09	0.53
35:BA:644:A:C2	35:BA:2369:A:H1'	2.42	0.53
35:BA:118:A:N3	35:BA:178:G:H1'	2.24	0.53
1:AA:129(A):G:H21	1:AA:189(F):U:H5''	1.73	0.53
1:CA:158:G:O2'	1:CA:159:G:H5'	2.07	0.53
35:DA:118:A:N3	35:DA:178:G:H1'	2.23	0.53
38:BD:169:GLU:O	38:BD:171:ASP:N	2.36	0.53
35:DA:2593:U:H2'	35:DA:2594:C:C6	2.44	0.53
4:AD:91:SER:HA	4:AD:94:LEU:HD12	1.90	0.53
38:DD:40:THR:HG22	38:DD:41:GLY:O	2.09	0.53
45:DO:12:ASP:OD2	45:DO:12:ASP:N	2.39	0.53
38:BD:227:ASN:O	38:BD:229:VAL:N	2.42	0.53
35:DA:1902:C:H5'	38:DD:246:PRO:HD3	1.91	0.53
41:DG:108:ASN:O	41:DG:112:PRO:HB2	2.08	0.53
10:CJ:16:LEU:HD22	10:CJ:19:SER:OG	2.09	0.53
50:BT:81:PRO:C	50:BT:82:LEU:HD12	2.28	0.53
47:BQ:141:GLN:C	56:BZ:53:ILE:HB	2.29	0.53
39:BE:36:ARG:NH2	39:BE:88:GLY:H	2.05	0.53
35:BA:1159:U:C2'	35:BA:1160:G:H5'	2.37	0.53
44:BN:7:LYS:O	44:BN:9:VAL:N	2.41	0.53
14:AN:41:ARG:HG3	14:AN:42:ILE:H	1.73	0.53
28:B2:32:LEU:HA	28:B2:37:PHE:CD2	2.43	0.53
39:DE:179:GLU:OE1	39:DE:179:GLU:HA	2.08	0.53
35:DA:2632:A:H1'	39:DE:61:ARG:NH1	2.23	0.53
27:B1:11:ARG:O	27:B1:13:ILE:N	2.41	0.53
27:B1:18:ILE:HG12	27:B1:43:TYR:CD1	2.43	0.53
41:BG:114:ILE:HB	41:BG:117:PHE:HB2	1.89	0.53
55:DY:98:VAL:HG12	55:DY:98:VAL:O	2.09	0.53
28:D2:25:VAL:O	28:D2:26:ARG:C	2.47	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D2:40:SER:HB3	28:D2:41:ILE:HD12	1.88	0.53
35:DA:62:C:H2'	35:DA:63:U:H5'	1.89	0.53
54:DX:29:TRP:HA	54:DX:29:TRP:CE3	2.43	0.53
35:BA:2773:C:H2'	35:BA:2774:C:H6	1.73	0.53
51:DU:92:ARG:CZ	52:DV:11:GLN:HG2	2.39	0.53
52:DV:34:GLU:C	52:DV:62:LEU:HD12	2.27	0.53
4:CD:176:LEU:HD21	4:CD:178:VAL:HG22	1.90	0.53
43:DI:120:ILE:O	43:DI:121:LYS:HB3	2.08	0.53
44:BN:70:LYS:HB3	44:BN:87:LEU:HB2	1.91	0.53
44:BN:97:ARG:O	44:BN:101:HIS:N	2.36	0.53
25:AY:70:SER:OG	25:AY:76:LEU:HB2	2.08	0.53
35:BA:834:C:H2'	35:BA:835:A:H8	1.72	0.53
35:DA:1414:G:H2'	35:DA:1415:U:C5	2.43	0.53
3:AC:47:LEU:HD21	3:AC:52:LEU:HD13	1.90	0.53
35:BA:2692:C:H2'	35:BA:2693:A:H8	1.73	0.53
48:BR:12:ARG:HD3	48:BR:16:HIS:CD2	2.43	0.53
49:DS:95:HIS:O	49:DS:97:ARG:N	2.41	0.53
2:AB:34:ALA:O	2:AB:41:ILE:HB	2.09	0.53
2:AB:82:ARG:HG3	2:AB:92:TYR:OH	2.07	0.53
15:CO:39:LEU:O	15:CO:39:LEU:HD13	2.09	0.53
2:CB:73:THR:HB	2:CB:94:ASN:O	2.08	0.53
35:DA:2059:A:H5'	35:DA:2060:A:OP2	2.08	0.53
4:AD:92:VAL:O	4:AD:95:GLY:N	2.41	0.53
1:AA:501:C:H2'	1:AA:502:G:C8	2.42	0.53
6:AF:29:ALA:HB1	6:AF:79:LEU:CD2	2.39	0.53
35:DA:2022:U:O2'	35:DA:2617:C:H5'	2.08	0.53
7:AG:105:VAL:HG12	7:AG:109:ASN:HD21	1.72	0.53
25:CY:134:ARG:O	25:CY:135:GLU:C	2.46	0.53
25:CY:166:ASP:O	25:CY:167:GLU:C	2.46	0.53
16:AP:23:ASP:HB3	16:AP:26:ARG:HG3	1.89	0.53
16:AP:72:ARG:O	16:AP:74:LEU:N	2.41	0.53
1:CA:261:U:H3'	20:CT:79:ARG:HH12	1.74	0.53
35:BA:1591:G:O2'	35:BA:1592:C:H5'	2.08	0.53
35:BA:2620:C:OP1	39:BE:152:LYS:O	2.27	0.53
11:AK:109:VAL:HG13	18:AR:85:LEU:O	2.09	0.53
35:DA:2752:C:H5'	35:DA:2753:A:OP2	2.07	0.53
8:CH:83:ILE:HD12	8:CH:136:GLU:O	2.08	0.53
2:CB:171:ALA:O	2:CB:174:VAL:N	2.41	0.53
1:AA:693:G:H22	23:AW:38:A:H2	1.55	0.53
13:AM:108:ARG:CZ	13:AM:114:ARG:HG2	2.39	0.53
35:DA:1245:G:H3'	46:DP:16:ARG:NH2	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:847:U:C2'	35:BA:848:G:H5''	2.30	0.53
8:AH:119:LEU:N	8:AH:119:LEU:CD2	2.63	0.53
42:BH:19:VAL:HG11	42:BH:44:VAL:HG22	1.91	0.53
5:AE:12:LEU:O	5:AE:12:LEU:HD22	2.08	0.53
5:AE:147:ASP:CA	5:AE:150:ARG:HB3	2.37	0.53
1:AA:625:G:O2'	1:AA:626:U:H5'	2.08	0.53
1:AA:1347:G:C2	1:AA:1373:G:H2'	2.43	0.53
18:CR:59:SER:OG	18:CR:60:ALA:N	2.40	0.53
35:DA:1174:A:H5''	35:DA:1175:U:H5''	1.90	0.53
46:BP:101:VAL:HG13	46:BP:102:ARG:N	2.21	0.53
46:BP:124:LYS:HA	46:BP:143:GLY:CA	2.38	0.53
1:CA:451:A:N6	1:CA:480:U:H2'	2.23	0.53
38:DD:130:ALA:CB	38:DD:192:THR:HA	2.38	0.53
14:AN:6:LEU:O	14:AN:8:GLU:N	2.42	0.53
11:CK:99:GLN:NE2	11:CK:105:VAL:HG11	2.23	0.53
38:DD:118:VAL:CG2	38:DD:119:ALA:N	2.71	0.53
17:AQ:92:ARG:O	17:AQ:95:TYR:N	2.35	0.53
1:AA:967:C:H2'	1:AA:968:A:C8	2.43	0.53
17:AQ:48:GLU:O	17:AQ:49:GLU:C	2.47	0.53
35:BA:2114:A:H2'	35:BA:2114:A:N3	2.24	0.53
4:AD:131:ARG:O	4:AD:132:ARG:C	2.46	0.53
26:D0:43:THR:N	35:DA:2331:G:H4'	2.23	0.53
53:DW:86:LEU:HD12	53:DW:87:PRO:HD2	1.90	0.53
35:BA:468:G:H2'	35:BA:469:G:O4'	2.07	0.53
13:CM:35:GLU:HG3	13:CM:36:LYS:N	2.23	0.53
1:AA:1118:C:H1'	1:AA:1179:A:C4	2.42	0.53
1:AA:1089:G:O2'	1:AA:1090:U:H5'	2.08	0.53
23:AW:12:G:H1	23:AW:24:C:H42	1.57	0.53
35:BA:204:A:H5'	35:BA:206:U:O4'	2.07	0.53
35:DA:1386:C:O2'	35:DA:1387:C:H5'	2.08	0.53
2:AB:28:PHE:O	2:AB:28:PHE:CD1	2.61	0.53
1:AA:1511:G:O2'	1:AA:1512:U:H5'	2.09	0.53
56:DZ:131:ARG:C	56:DZ:133:ILE:HD12	2.28	0.53
1:AA:1243:C:OP2	21:AU:10:ARG:CZ	2.56	0.53
27:D1:16:ASN:N	27:D1:16:ASN:HD22	1.98	0.53
53:DW:64:MET:HE2	53:DW:109:GLU:HG3	1.90	0.53
1:AA:1154:G:H2'	1:AA:1155:G:H8	1.73	0.53
1:CA:357:G:OP1	1:CA:366:C:O2'	2.25	0.53
47:BQ:42:ILE:HD13	47:BQ:97:VAL:HG21	1.89	0.53
1:AA:1527:C:H2'	1:AA:1528:U:C6	2.44	0.53
1:CA:882:C:H2'	1:CA:883:C:H6	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:64:GLU:HG3	19:AS:65:ASN:N	2.22	0.53
35:BA:477:A:H2'	35:BA:478:A:C8	2.43	0.53
43:DI:41:GLU:HA	43:DI:44:LEU:HB3	1.90	0.53
38:DD:5:LYS:N	38:DD:5:LYS:HD2	2.23	0.53
1:AA:998:G:H2'	1:AA:999:C:C6	2.43	0.53
51:BU:90:VAL:HG13	52:BV:39:LEU:CB	2.34	0.53
52:BV:4:ILE:HA	52:BV:12:TYR:O	2.08	0.53
28:B2:49:LYS:O	28:B2:53:LEU:O	2.25	0.53
35:DA:2807:G:C3'	35:DA:2808:U:H5''	2.38	0.53
34:B8:62:LEU:HD13	35:BA:242:G:C5'	2.20	0.53
54:DX:31:HIS:ND1	54:DX:32:PRO:HD2	2.23	0.53
28:D2:23:LYS:HA	54:DX:5:TYR:CE1	2.38	0.53
34:D8:31:HIS:O	34:D8:32:LEU:C	2.47	0.53
42:BH:87:LEU:HD23	42:BH:164:TYR:HA	1.91	0.53
35:BA:2642:G:N2	35:BA:2773:C:C2	2.77	0.53
35:DA:2039:C:H2'	35:DA:2040:C:H6	1.72	0.53
52:DV:15:GLU:HB3	52:DV:16:PRO:CD	2.37	0.53
1:AA:1057:G:H5''	3:AC:154:SER:OG	2.07	0.53
32:D6:30:THR:HG21	35:DA:2286:A:OP1	2.08	0.53
40:BF:110:LEU:HA	40:BF:183:VAL:CG1	2.36	0.53
35:DA:2406:U:C4	46:DP:72:PRO:HD2	2.43	0.53
35:DA:2406:U:N3	46:DP:72:PRO:HD2	2.22	0.53
39:BE:117:MET:CE	39:BE:124:GLY:HA3	2.38	0.53
27:D1:89:GLU:HG2	27:D1:90:ILE:HD13	1.91	0.53
34:D8:39:LYS:HD3	34:D8:39:LYS:C	2.28	0.53
35:BA:1190:G:O3'	46:BP:35:HIS:HB3	2.08	0.53
35:BA:2442:C:O2'	35:BA:2443:C:H5'	2.08	0.53
35:BA:587:C:C6	35:BA:671:C:H1'	2.44	0.53
35:BA:590:A:H2'	35:BA:591:C:H6	1.73	0.53
35:BA:668:G:H2'	35:BA:670:A:H62	1.74	0.53
47:BQ:76:LYS:H	47:BQ:88:GLY:HA3	1.72	0.53
47:BQ:8:LYS:CG	47:BQ:9:TYR:N	2.64	0.53
20:AT:38:LYS:O	20:AT:41:ILE:N	2.41	0.53
48:BR:16:HIS:O	48:BR:17:ARG:C	2.47	0.53
49:DS:42:ASP:O	49:DS:44:LYS:N	2.42	0.53
49:DS:65:VAL:CG1	49:DS:69:VAL:HB	2.39	0.53
2:CB:208:ILE:O	2:CB:208:ILE:HG22	2.07	0.53
2:CB:80:ILE:HD13	2:CB:212:GLN:HA	1.89	0.53
2:CB:61:LEU:O	2:CB:64:ARG:HG2	2.09	0.53
35:DA:590:A:H2'	35:DA:591:C:H6	1.74	0.53
40:DF:53:THR:O	40:DF:54:ARG:C	2.46	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DP:50:ARG:HD2	46:DP:51:PHE:CG	2.43	0.53
19:AS:9:VAL:O	19:AS:11:VAL:N	2.41	0.53
19:AS:16:LEU:N	19:AS:16:LEU:HD12	2.24	0.53
4:AD:8:VAL:O	4:AD:9:CYS:C	2.46	0.53
51:DU:31:SER:C	51:DU:33:ARG:N	2.62	0.53
25:CY:162:GLN:O	25:CY:165:THR:HB	2.07	0.53
16:AP:67:THR:HB	16:AP:70:ALA:H	1.74	0.53
20:CT:38:LYS:O	20:CT:41:ILE:N	2.41	0.53
1:CA:582:U:H2'	1:CA:583:A:H8	1.73	0.53
42:BH:27:LYS:HG2	42:BH:32:GLU:OE1	2.08	0.53
35:DA:848:G:H2'	35:DA:849:A:C8	2.44	0.53
33:B7:34:ARG:C	33:B7:36:GLN:N	2.62	0.53
35:BA:685:A:N1	35:BA:787:U:H1'	2.24	0.53
35:DA:2248:C:O2'	35:DA:2249:U:H5'	2.08	0.53
35:DA:2748:A:C2	42:DH:63:SER:HB3	2.44	0.53
1:CA:1072:G:H2'	1:CA:1073:U:H6	1.70	0.53
8:AH:83:ILE:HD12	8:AH:136:GLU:O	2.07	0.53
20:AT:63:ILE:O	20:AT:66:ALA:N	2.42	0.53
42:BH:67:LEU:O	42:BH:71:LEU:HD22	2.07	0.53
31:D5:11:THR:HB	35:DA:1263:U:O3'	2.09	0.53
15:CO:12:ILE:C	15:CO:14:GLU:H	2.11	0.53
38:DD:130:ALA:HB2	38:DD:192:THR:HA	1.91	0.53
31:B5:11:THR:O	31:B5:12:SER:C	2.46	0.53
1:CA:397:A:H5'	1:CA:398:C:OP1	2.08	0.53
1:CA:102:G:H2'	1:CA:103:C:C6	2.43	0.53
4:AD:129:ASN:HB2	4:AD:131:ARG:NH2	2.24	0.53
35:DA:1786:A:N1	35:DA:2606:C:H1'	2.24	0.53
1:CA:1112:C:C4	3:CC:178:LEU:HD23	2.43	0.53
27:D1:43:TYR:OH	35:DA:1365:A:H5'	2.09	0.53
29:D3:21:ALA:O	29:D3:24:LYS:N	2.39	0.53
46:DP:58:THR:O	46:DP:61:ARG:NE	2.42	0.53
19:CS:42:PRO:C	19:CS:44:MET:H	2.10	0.53
29:D3:41:PRO:HD3	29:D3:44:ARG:NH1	2.23	0.53
35:DA:1289:C:H2'	35:DA:1290:C:H6	1.74	0.53
35:DA:1469:A:H2'	35:DA:1470:G:O4'	2.09	0.53
36:DB:65:C:H2'	36:DB:66:A:H5'	1.90	0.53
1:AA:1244:C:H2'	1:AA:1245:A:H8	1.71	0.53
38:DD:9:TYR:CD2	38:DD:10:THR:HG22	2.43	0.53
35:DA:921:G:H2'	35:DA:922:U:H6	1.72	0.53
1:CA:1242:C:O5'	1:CA:1242:C:H6	1.92	0.53
19:CS:43:GLU:O	19:CS:45:VAL:N	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:10:VAL:HG21	17:AQ:55:ASP:HB2	1.90	0.53
23:AW:53:G:N2	23:AW:64:G:N1	2.57	0.53
37:BC:23:ASP:C	37:BC:25:ALA:H	2.12	0.53
56:BZ:33:LEU:HD11	56:BZ:35:ARG:CG	2.39	0.53
35:BA:301:G:C4	35:BA:302:C:C5	2.96	0.53
35:DA:2839:G:H2'	35:DA:2840:C:C6	2.43	0.53
1:CA:1006:C:O2'	1:CA:1007:C:H5'	2.08	0.53
37:BC:82:LYS:O	37:BC:86:ALA:HB3	2.08	0.53
29:D3:3:ARG:HG2	29:D3:38:GLU:OE2	2.08	0.53
35:BA:221:A:O2'	35:BA:222:A:OP2	2.23	0.53
1:CA:1043:C:H2'	1:CA:1044:A:C8	2.43	0.53
1:AA:486:U:O2'	1:AA:487:A:H5'	2.08	0.53
11:AK:49:GLY:O	11:AK:50:TYR:HD2	1.91	0.53
35:BA:1380:G:C2	35:BA:1381:G:C8	2.97	0.53
27:B1:24:ALA:HA	27:B1:36:GLY:HA2	1.89	0.53
2:CB:114:ARG:HA	2:CB:117:GLU:OE1	2.09	0.53
43:BI:76:THR:HB	43:BI:139:GLN:O	2.08	0.53
35:DA:1475:G:N3	35:DA:1475:G:H2'	2.23	0.53
39:BE:69:LYS:N	39:BE:69:LYS:HE2	2.23	0.53
35:DA:1678:G:N2	35:DA:1989:G:H22	2.05	0.53
35:DA:2683:C:H5''	50:DT:53:ARG:NH2	2.22	0.53
50:DT:101:PHE:CD2	50:DT:102:ILE:N	2.71	0.53
50:DT:38:ASN:ND2	50:DT:40:THR:OG1	2.42	0.53
35:BA:1812:A:H1'	38:BD:46:GLN:HE22	1.74	0.53
35:DA:782:A:H2	38:DD:226:MET:HG2	1.66	0.53
41:DG:43:LEU:HD21	41:DG:88:ILE:HG22	1.91	0.53
56:BZ:7:ALA:O	56:BZ:8:TYR:O	2.26	0.53
35:DA:2574:G:H2'	35:DA:2575:C:C6	2.42	0.53
35:BA:1153:C:N4	35:BA:1154:G:C2	2.76	0.53
44:BN:42:TRP:CE3	44:BN:42:TRP:HA	2.44	0.53
52:BV:22:VAL:HG21	52:BV:96:ILE:HB	1.91	0.53
27:B1:67:ILE:N	27:B1:68:PRO:HD2	2.23	0.53
27:B1:75:GLU:O	27:B1:76:ARG:NH2	2.41	0.53
2:AB:75:LYS:HA	2:AB:75:LYS:HE3	1.91	0.53
32:D6:9:LEU:HD23	32:D6:10:LEU:O	2.08	0.53
42:BH:118:PRO:HG2	42:BH:121:ILE:HD12	1.90	0.53
47:DQ:28:ALA:HB1	47:DQ:29:PHE:CD1	2.44	0.53
56:DZ:53:ILE:HG22	56:DZ:71:VAL:CB	2.38	0.53
35:DA:2781:A:H5'	35:DA:2782:G:H5'	1.87	0.53
51:DU:64:ARG:HA	51:DU:64:ARG:NH2	2.23	0.53
1:CA:1221:G:OP1	19:CS:36:ARG:HD3	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:8:VAL:O	4:CD:9:CYS:C	2.47	0.53
40:BF:183:VAL:O	40:BF:187:VAL:HG23	2.08	0.53
35:DA:1019:U:H3	35:DA:1142(A):A:N6	1.98	0.53
40:BF:57:VAL:CG1	40:BF:58:ALA:N	2.71	0.53
46:BP:46:LYS:CB	46:BP:52:GLU:HG2	2.38	0.53
35:DA:1453:U:H5'	48:DR:63:ARG:HE	1.72	0.53
35:BA:1452:A:O2'	35:BA:1453:U:H2'	2.07	0.53
48:BR:87:TYR:OH	48:BR:116:LEU:HD22	2.09	0.53
50:BT:96:ARG:HG2	50:BT:96:ARG:NH1	2.20	0.53
1:CA:908:A:C4	1:CA:909:A:N7	2.76	0.53
49:DS:26:LEU:HD13	49:DS:87:PHE:HD1	1.74	0.53
2:CB:87:ARG:O	2:CB:88:ALA:HB2	2.08	0.53
44:DN:26:LEU:HG	44:DN:30:ILE:CD1	2.39	0.53
1:CA:738:C:H5''	6:CF:69:GLU:CB	2.39	0.53
2:CB:187:LEU:HA	2:CB:201:ILE:O	2.08	0.53
35:DA:589:C:H42	35:DA:668:G:H1	1.56	0.53
35:DA:815:C:OP2	52:DV:84:LYS:HE3	2.09	0.53
3:AC:16:ARG:NH1	3:AC:16:ARG:CB	2.69	0.53
47:DQ:17:LEU:HD21	47:DQ:41:TRP:HE1	1.73	0.53
35:DA:2619:C:H5''	39:DE:152:LYS:HA	1.90	0.53
25:CY:165:THR:O	25:CY:166:ASP:C	2.47	0.53
16:AP:49:LEU:HD11	16:AP:51:VAL:CG2	2.35	0.53
25:AY:66:LEU:O	25:AY:101:ILE:HD12	2.08	0.53
7:CG:103:TRP:O	7:CG:104:LEU:C	2.46	0.53
12:AL:24:VAL:O	12:AL:24:VAL:HG12	2.08	0.53
8:CH:83:ILE:CB	8:CH:137:VAL:HG13	2.36	0.53
11:CK:62:GLN:C	11:CK:64:ALA:N	2.61	0.53
43:DI:17:GLN:HG2	43:DI:18:VAL:N	2.21	0.53
9:CI:11:LYS:O	9:CI:13:ALA:N	2.42	0.53
9:CI:65:VAL:HG22	9:CI:66:ARG:H	1.73	0.53
9:AI:26:VAL:HG13	9:AI:63:ILE:HD11	1.90	0.53
56:DZ:76:LEU:HD22	56:DZ:76:LEU:N	2.23	0.53
1:AA:1347:G:O2'	1:AA:1348:U:OP2	2.27	0.53
1:CA:511:C:C2	1:CA:512:U:C5	2.96	0.53
31:B5:31:VAL:HB	31:B5:32:PRO:CD	2.32	0.53
9:CI:16:ARG:O	9:CI:63:ILE:CG2	2.56	0.53
46:DP:127:ALA:HB3	46:DP:130:PHE:HE2	1.64	0.53
16:CP:67:THR:HB	16:CP:70:ALA:H	1.73	0.53
7:CG:120:ILE:C	7:CG:124:LEU:HD12	2.29	0.53
11:CK:18:ARG:HG2	11:CK:33:THR:OG1	2.08	0.53
11:CK:21:ILE:HD13	11:CK:84:VAL:CG1	2.39	0.53

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:58:PRO:HA	7:CG:61:VAL:HG23	1.91	0.53
19:AS:33:THR:HG21	19:AS:51:VAL:HG22	1.90	0.53
1:CA:236:G:H2'	1:CA:237:C:H6	1.72	0.53
13:CM:74:VAL:O	13:CM:78:ILE:HG13	2.08	0.53
35:BA:524:U:O2	35:BA:524:U:C2'	2.53	0.53
35:DA:967:C:C2'	35:DA:968:G:H5'	2.39	0.53
1:AA:280:C:O2	17:AQ:38:ARG:HG3	2.09	0.53
1:CA:645:C:O2'	1:CA:646:U:H5'	2.09	0.53
24:CX:12:G:H3'	24:CX:13:A:H5''	1.90	0.53
35:BA:2009:G:C6	35:BA:2010:G:N7	2.76	0.53
35:DA:2545:G:N3	35:DA:2565:A:H2	2.07	0.53
23:CW:25:U:H2'	23:CW:26:C:C6	2.43	0.53
35:BA:519:U:H4'	53:BW:25:ARG:HH22	1.74	0.53
6:AF:37:VAL:HA	6:AF:65:VAL:CG1	2.38	0.53
35:BA:1830:C:N4	35:BA:1975:G:H1	2.07	0.53
5:CE:15:ARG:HG2	5:CE:26:PHE:HD2	1.74	0.53
1:AA:176:C:H2'	1:AA:177:C:C6	2.43	0.53
1:AA:1419:G:N2	1:AA:1482:G:C4	2.76	0.53
35:DA:1553:A:H2'	35:DA:1554:A:H5''	1.89	0.53
1:CA:856:C:H2'	1:CA:857:C:H6	1.74	0.53
1:CA:1132:C:N4	1:CA:1133:G:C6	2.76	0.53
35:BA:1021:A:C8	35:BA:1021:A:H3'	2.43	0.53
1:AA:1132:C:N4	1:AA:1133:G:C6	2.77	0.53
35:BA:1917:U:H2'	35:BA:1918:A:C8	2.44	0.53
35:DA:2547:U:O2'	35:DA:2548:G:H5'	2.09	0.53
1:CA:1023:G:H2'	1:CA:1024:G:H5'	1.91	0.53
35:DA:88:G:H2'	35:DA:88:G:N3	2.23	0.53
50:DT:43:GLN:HG2	50:DT:44:ASP:O	2.09	0.53
10:CJ:45:ARG:HG3	10:CJ:45:ARG:HH11	1.74	0.53
10:CJ:62:HIS:H	10:CJ:62:HIS:HD2	1.53	0.53
38:BD:182:LEU:O	38:BD:271:ILE:HD12	2.09	0.53
35:DA:1826:G:H4'	38:DD:242:ARG:NH2	2.24	0.53
38:DD:65:ILE:HD11	38:DD:67:PHE:CE1	2.43	0.53
41:DG:48:GLU:CG	41:DG:49:ASP:H	2.22	0.53
41:DG:57:ALA:O	41:DG:68:PRO:HG3	2.09	0.53
47:DQ:101:ARG:HG2	47:DQ:102:VAL:N	2.23	0.53
35:BA:1993:U:O2'	35:BA:1994:C:H5'	2.08	0.53
50:BT:32:TYR:O	50:BT:33:LYS:CB	2.57	0.53
39:BE:44:TYR:O	39:BE:45:THR:CB	2.55	0.53
39:BE:59:VAL:O	39:BE:62:PRO:HD2	2.09	0.53
39:BE:6:GLY:HA2	39:BE:51:PHE:HE2	1.71	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:137:ASP:O	42:DH:138:LYS:CB	2.57	0.53
42:DH:92:ILE:HG22	42:DH:93:GLY:H	1.74	0.53
1:AA:963:G:N2	10:AJ:55:LYS:NZ	2.57	0.53
14:AN:51:GLY:O	14:AN:53:LEU:N	2.39	0.53
54:BX:32:PRO:HD3	54:BX:72:LYS:HZ2	1.71	0.53
54:BX:9:LEU:HG	54:BX:29:TRP:O	2.09	0.53
39:DE:59:VAL:HG13	39:DE:60:ASN:N	2.24	0.53
27:B1:56:GLN:O	27:B1:57:GLU:CG	2.53	0.53
41:BG:85:GLY:O	41:BG:86:MET:CB	2.57	0.53
56:DZ:8:TYR:O	56:DZ:37:VAL:HB	2.09	0.53
19:CS:36:ARG:NH1	19:CS:75:ALA:HB3	2.23	0.53
1:CA:1320:C:H5'	19:CS:70:LYS:CE	2.39	0.53
4:CD:8:VAL:O	4:CD:10:ARG:HB3	2.08	0.53
4:CD:150:GLU:HA	4:CD:153:ARG:CD	2.38	0.53
46:BP:5:ASP:OD2	46:BP:6:LEU:HD22	2.09	0.53
46:DP:70:GLN:HA	46:DP:70:GLN:OE1	2.08	0.53
27:D1:72:GLU:O	27:D1:76:ARG:CZ	2.57	0.53
35:BA:1257:C:C2	35:BA:1258:C:C5	2.96	0.53
35:BA:2079:U:H3	35:BA:2241:A:N6	2.05	0.53
35:BA:513:A:H1'	51:BU:11:ARG:NH1	2.23	0.53
35:BA:674:G:O2'	40:BF:74:ARG:HB2	2.09	0.53
35:DA:1655:A:H4'	39:DE:115:GLY:H	1.74	0.53
35:BA:2821:A:OP2	48:BR:2:ARG:NH1	2.42	0.53
35:BA:2694:G:O2'	35:BA:2695:C:H5'	2.09	0.53
23:CW:76:C:H5'	27:D1:27:GLU:OE1	2.08	0.53
6:CF:26:ILE:O	6:CF:29:ALA:HB3	2.09	0.53
35:DA:1186:G:H2'	35:DA:1187:G:H5'	1.91	0.53
35:DA:668:G:H2'	35:DA:670:A:H62	1.73	0.53
1:AA:405:U:H5''	1:AA:406:G:O4'	2.09	0.53
4:AD:119:GLN:HE21	4:AD:123:HIS:CD2	2.27	0.53
19:AS:36:ARG:CZ	19:AS:72:GLY:HA2	2.38	0.53
47:DQ:73:PRO:HA	47:DQ:93:TYR:CD2	2.43	0.53
6:AF:69:GLU:CD	6:AF:69:GLU:H	2.11	0.53
35:DA:1918:A:O2'	35:DA:1920:C:N4	2.42	0.53
1:AA:1104:G:H2'	1:AA:1105:A:C8	2.44	0.53
1:AA:939:G:H5''	7:AG:102:ARG:NH1	2.23	0.53
25:AY:3:LEU:N	25:AY:3:LEU:HD12	2.16	0.53
33:B7:30:VAL:O	33:B7:34:ARG:N	2.38	0.53
8:AH:83:ILE:HB	8:AH:137:VAL:CG1	2.37	0.53
20:AT:54:LYS:HA	20:AT:57:ARG:NH1	2.24	0.53
5:AE:130:ASN:O	5:AE:131:ILE:C	2.47	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DI:10:GLU:CD	43:DI:11:ASN:N	2.62	0.53
9:AI:24:GLY:HA2	9:AI:59:PHE:O	2.08	0.53
35:DA:1038:C:H42	35:DA:1117:G:H1	1.57	0.53
18:CR:59:SER:N	18:CR:62:GLU:OE1	2.42	0.53
1:CA:511:C:HO2'	1:CA:512:U:H6	1.54	0.53
16:CP:1:MET:SD	16:CP:1:MET:N	2.77	0.53
7:CG:121:ALA:CA	7:CG:124:LEU:HD12	2.38	0.53
7:CG:69:VAL:HG22	7:CG:135:VAL:HG22	1.90	0.53
15:AO:11:VAL:HG13	15:AO:15:PHE:HE1	1.74	0.53
18:CR:87:ARG:HG2	18:CR:88:LYS:N	2.23	0.53
35:BA:2012:G:OP1	53:BW:98:LYS:HA	2.08	0.53
3:AC:70:VAL:O	3:AC:105:GLU:HA	2.09	0.53
23:AW:16:C:H6	23:AW:60:A:C2	2.27	0.53
54:DX:62:LYS:CB	54:DX:69:TYR:H	2.22	0.53
54:DX:62:LYS:CD	54:DX:68:ARG:HD2	2.39	0.53
40:DF:151:SER:C	40:DF:152:GLU:HG3	2.28	0.53
40:DF:169:ASN:O	40:DF:169:ASN:ND2	2.42	0.53
51:BU:3:ARG:HG3	51:BU:3:ARG:O	2.08	0.53
20:CT:14:LYS:HE3	20:CT:18:GLN:NE2	2.23	0.53
53:DW:74:ALA:O	53:DW:75:TYR:CB	2.57	0.53
1:AA:727:G:N1	1:AA:731:G:C6	2.77	0.53
35:DA:1684:C:H42	35:DA:1704:G:H1	1.56	0.53
7:AG:58:PRO:HA	7:AG:61:VAL:HG23	1.89	0.53
1:AA:1305:G:H5''	21:AU:5:ASP:N	2.24	0.53
35:DA:1714:G:H2'	35:DA:1717:G:H8	1.72	0.53
7:CG:24:THR:O	7:CG:25:ALA:C	2.46	0.53
1:CA:1046:A:H3'	1:CA:1047:G:C8	2.42	0.53
1:AA:119:A:O2'	1:AA:120:A:OP2	2.25	0.53
35:DA:2875:C:O2'	50:DT:5:ALA:HB3	2.09	0.53
27:D1:56:GLN:O	27:D1:57:GLU:CB	2.56	0.53
23:CW:43:G:H2'	23:CW:44:A:O4'	2.08	0.53
35:BA:304:G:H1	35:BA:313:C:H42	1.54	0.53
35:DA:840:C:O2'	35:DA:841:A:H5'	2.08	0.53
35:BA:363(A):A:C2	35:BA:363(B):G:C8	2.97	0.53
35:DA:2870:C:O2'	35:DA:2871:C:H5'	2.07	0.53
1:AA:1526:G:H2'	1:AA:1527:C:C6	2.44	0.53
1:AA:1526:G:H2'	1:AA:1527:C:H6	1.74	0.53
35:DA:2090:G:C6	35:DA:2091:U:C4	2.97	0.53
37:BC:65:PRO:HG2	37:BC:189:ILE:HA	1.90	0.53
35:DA:1374:G:H2'	35:DA:1375:C:C6	2.43	0.53
1:CA:509:A:H4'	1:CA:510:A:OP1	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1754:C:H2'	35:DA:1755:A:O4'	2.09	0.53
50:DT:53:ARG:CG	50:DT:53:ARG:NH1	2.72	0.53
43:BI:123:LEU:HG	43:BI:142:VAL:HB	1.89	0.53
43:BI:89:TYR:O	43:BI:121:LYS:HE2	2.08	0.53
14:CN:42:ILE:O	14:CN:43:CYS:C	2.47	0.53
14:CN:44:LEU:O	14:CN:44:LEU:HD12	2.09	0.53
38:DD:182:LEU:O	38:DD:271:ILE:HD12	2.08	0.53
45:BO:87:ILE:HD12	45:BO:92:GLU:N	2.24	0.53
50:BT:81:PRO:O	50:BT:82:LEU:HD12	2.09	0.53
47:BQ:134:ARG:CG	47:BQ:135:ASP:H	2.13	0.53
47:BQ:28:ALA:HB1	47:BQ:29:PHE:CD1	2.44	0.53
35:BA:558:G:OP1	44:BN:111:PRO:HD2	2.09	0.53
52:BV:19:LYS:C	52:BV:20:LEU:HD12	2.29	0.53
1:AA:979:C:OP1	1:AA:1223:C:N4	2.42	0.53
14:AN:34:TYR:C	14:AN:36:PHE:N	2.62	0.53
27:B1:58:ILE:CD1	27:B1:59:THR:N	2.64	0.53
27:B1:86:SER:N	27:B1:87:PRO:CD	2.72	0.53
2:AB:80:ILE:HD13	2:AB:212:GLN:HA	1.91	0.53
41:BG:55:LYS:C	41:BG:57:ALA:N	2.62	0.53
41:BG:67:LYS:O	41:BG:92:VAL:HG23	2.09	0.53
54:DX:39:ILE:C	54:DX:39:ILE:HD12	2.29	0.53
54:DX:83:VAL:O	54:DX:84:ALA:CB	2.56	0.53
32:D6:10:LEU:H	32:D6:10:LEU:HD22	1.73	0.53
51:DU:68:ALA:O	51:DU:71:GLN:N	2.41	0.53
51:DU:90:VAL:CG1	52:DV:39:LEU:HB3	2.35	0.53
1:AA:1207:G:O2'	1:AA:1208:C:H5'	2.09	0.53
19:CS:16:LEU:HB3	19:CS:20:LEU:HD11	1.91	0.53
36:BB:28:C:N4	36:BB:56:G:H1	2.07	0.53
49:BS:92:TYR:HB3	49:BS:97:ARG:HH11	1.74	0.53
4:CD:59:ARG:HH11	4:CD:59:ARG:HG2	1.73	0.53
35:BA:237:C:H2'	35:BA:238:C:C6	2.42	0.53
40:BF:45:ARG:HG3	40:BF:46:ARG:H	1.74	0.53
35:BA:2574:G:H2'	35:BA:2575:C:C6	2.44	0.53
35:DA:2415:G:C3'	46:DP:66:GLY:HA3	2.37	0.53
35:DA:1142(A):A:C5	35:DA:1144:G:C5	2.96	0.53
35:BA:251:A:H5''	46:BP:51:PHE:HZ	1.66	0.53
52:BV:89:GLN:HA	52:BV:89:GLN:NE2	2.24	0.53
48:BR:35:THR:HG23	48:BR:112:ALA:O	2.09	0.53
49:DS:26:LEU:HD23	49:DS:28:VAL:HG22	1.91	0.53
2:CB:74:LYS:CG	2:CB:77:ALA:HB3	2.39	0.53
35:DA:684:G:H22	35:DA:787:U:H2'	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1238:G:H2'	35:DA:1239:G:H8	1.74	0.53
1:AA:985:C:H2'	1:AA:986:A:H8	1.73	0.53
44:DN:76:SER:O	44:DN:77:GLY:C	2.47	0.53
1:AA:1108:G:OP2	3:AC:174:PRO:HA	2.09	0.53
43:BI:5:LEU:O	43:BI:6:LEU:HG	2.08	0.53
25:AY:84:ARG:HE	25:AY:92:PRO:CD	2.19	0.53
18:AR:85:LEU:HG	18:AR:86:VAL:N	2.17	0.53
33:B7:30:VAL:CG1	33:B7:33:ARG:HH22	2.22	0.53
43:BI:114:LEU:O	43:BI:115:ALA:HB3	2.09	0.53
20:AT:56:MET:O	20:AT:60:GLU:HB2	2.07	0.53
2:CB:144:ARG:HG3	2:CB:145:LEU:N	2.24	0.53
8:CH:27:PRO:HG3	8:CH:58:TYR:CE2	2.44	0.53
8:CH:7:ALA:O	8:CH:8:ASP:C	2.47	0.53
5:AE:145:LYS:HG2	5:AE:149:GLU:OE1	2.09	0.53
35:DA:2119:A:H3'	35:DA:2120:G:H5''	1.91	0.53
35:BA:272(B):G:H2'	35:BA:272(C):G:H8	1.73	0.53
35:DA:543:C:H6	35:DA:547:A:C8	2.26	0.53
46:BP:96:THR:HB	46:BP:97:PRO:CD	2.38	0.53
16:CP:49:LEU:HD22	16:CP:73:LEU:HD13	1.90	0.53
16:CP:48:TRP:HE3	16:CP:49:LEU:N	2.06	0.53
17:AQ:95:TYR:C	17:AQ:97:SER:N	2.61	0.53
17:AQ:71:PHE:N	17:AQ:71:PHE:CD2	2.76	0.53
17:AQ:71:PHE:N	17:AQ:71:PHE:HD2	2.07	0.53
5:AE:78:HIS:HD2	8:AH:104:ARG:HE	1.56	0.53
5:CE:80:ILE:CG1	5:CE:91:LEU:HB2	2.38	0.53
1:AA:1253:G:H2'	1:AA:1254:C:H6	1.74	0.53
3:CC:84:ILE:O	3:CC:88:ARG:HG3	2.09	0.53
3:AC:84:ILE:O	3:AC:88:ARG:HG3	2.09	0.53
35:BA:1312:U:OP2	54:BX:62:LYS:HE2	2.08	0.53
29:B3:21:ALA:O	29:B3:24:LYS:N	2.38	0.53
1:AA:1298:C:C6	7:AG:114:ARG:NH1	2.76	0.53
1:AA:340:U:H2'	1:AA:341:C:C6	2.43	0.53
54:DX:12:VAL:HG11	54:DX:27:THR:CG2	2.37	0.53
11:AK:122:LYS:O	11:AK:126:ARG:CB	2.57	0.53
53:BW:18:ARG:HG2	53:BW:18:ARG:HH11	1.74	0.53
1:CA:1238:A:H62	1:CA:1301:U:H3	1.56	0.53
35:DA:2351:G:HO2'	35:DA:2352:A:H8	1.57	0.53
45:DO:97:ARG:HG3	45:DO:97:ARG:HH11	1.74	0.53
35:BA:1407:C:O2	35:BA:1407:C:H2'	2.08	0.53
3:AC:57:ILE:HG23	3:AC:64:VAL:CG1	2.39	0.53
44:BN:3:THR:C	44:BN:5:VAL:H	2.12	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2843:G:H1	35:DA:2874:C:N4	2.06	0.53
1:CA:1155:G:C2'	1:CA:1156:G:H5'	2.39	0.53
38:DD:125:ILE:CD1	38:DD:125:ILE:N	2.72	0.53
1:AA:702:A:H3'	1:AA:703:G:C5'	2.38	0.53
35:DA:1014:U:H2'	35:DA:1015:G:O4'	2.08	0.53
4:CD:196:LEU:HD12	4:CD:196:LEU:H	1.74	0.53
1:AA:745:C:H2'	1:AA:746:A:C8	2.44	0.53
35:BA:2380:C:H2'	35:BA:2381:C:H6	1.73	0.53
35:BA:845:G:H8	35:BA:845:G:OP2	1.92	0.53
19:CS:18:LYS:HA	19:CS:21:GLU:HG2	1.90	0.53
1:AA:1023:G:H2'	1:AA:1024:G:H5'	1.91	0.53
49:DS:11:LYS:N	49:DS:11:LYS:HD3	2.24	0.53
35:DA:1543:C:O2	35:DA:1543:C:H2'	2.08	0.53
35:BA:2790:A:H2'	35:BA:2790:A:N3	2.23	0.53
35:BA:2658:C:H41	35:BA:2664:G:N2	2.06	0.53
35:DA:1665:A:H1'	45:DO:1:MET:HE3	1.91	0.53
50:DT:63:VAL:O	50:DT:73:GLU:HA	2.09	0.53
14:CN:34:TYR:C	14:CN:36:PHE:N	2.62	0.53
41:DG:115:ARG:HH12	41:DG:136:ARG:HD2	1.74	0.53
34:B8:30:ARG:HE	46:BP:62:LEU:CB	2.22	0.53
39:BE:24:THR:OG1	39:BE:188:VAL:HG11	2.08	0.53
50:BT:28:VAL:O	50:BT:29:ARG:HD3	2.09	0.53
47:BQ:141:GLN:HG2	56:BZ:72:ARG:HE	1.73	0.53
56:BZ:103:ARG:CB	56:BZ:138:GLU:HA	2.32	0.53
3:AC:5:ILE:HD13	3:AC:5:ILE:O	2.08	0.53
51:BU:65:ILE:HD12	51:BU:65:ILE:N	2.24	0.53
51:BU:95:LEU:HA	51:BU:97:ASP:OD1	2.09	0.53
54:BX:57:LEU:HD12	54:BX:76:ARG:CD	2.39	0.53
39:DE:55:ASN:CG	39:DE:75:VAL:HG13	2.29	0.53
39:DE:77:ILE:HG23	39:DE:78:LEU:H	1.73	0.53
27:B1:66:HIS:C	27:B1:68:PRO:HD2	2.29	0.53
27:B1:64:ALA:C	27:B1:67:ILE:HG13	2.27	0.53
41:BG:94:LEU:HD13	41:BG:102:PHE:CD1	2.44	0.53
35:DA:300:A:H5''	55:DY:97:ARG:HH12	1.73	0.53
28:D2:15:LYS:O	28:D2:19:VAL:HG23	2.09	0.53
35:DA:71:A:H5'	35:DA:71:A:H8	1.73	0.53
35:BA:2639:A:C3'	35:BA:2640:G:C5'	2.86	0.53
56:DZ:48:PHE:HA	56:DZ:52:SER:H	1.73	0.53
44:DN:42:TRP:N	51:DU:64:ARG:HH12	2.06	0.53
52:DV:19:LYS:C	52:DV:20:LEU:HD12	2.29	0.53
52:DV:32:THR:CG2	52:DV:33:VAL:H	2.18	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DV:37:VAL:HG11	52:DV:53:GLU:OE2	2.09	0.53
52:DV:36:PRO:HG2	52:DV:60:GLU:OE1	2.09	0.53
36:BB:56:G:H4'	36:BB:57:A:C8	2.43	0.53
49:BS:83:LYS:O	49:BS:85:VAL:HG22	2.09	0.53
49:BS:92:TYR:O	49:BS:93:LYS:HB2	2.07	0.53
35:DA:1024:G:C8	35:DA:1025:G:H2'	2.43	0.53
44:DN:74:ARG:NH2	44:DN:101:HIS:O	2.39	0.53
35:BA:252:G:OP2	46:BP:50:ARG:NH1	2.42	0.53
35:BA:807:U:O2'	35:BA:808:G:H5'	2.09	0.53
40:BF:68:LYS:O	40:BF:69:HIS:HB2	2.09	0.53
35:DA:443:A:H1'	35:DA:1201:C:O4'	2.08	0.53
1:AA:102:G:H2'	1:AA:103:C:C6	2.44	0.53
56:BZ:149:SER:HB2	56:BZ:172:ALA:O	2.09	0.53
2:CB:193:ASP:OD2	2:CB:196:LEU:HD21	2.08	0.53
35:BA:1856:G:H2'	35:BA:1857:G:H5'	1.91	0.53
1:AA:544:G:H2'	1:AA:545:C:H6	1.74	0.53
25:CY:173:ASP:O	25:CY:175:LEU:N	2.42	0.53
35:BA:1215:G:H2'	35:BA:1216:G:C8	2.44	0.53
43:BI:10:GLU:CD	43:BI:11:ASN:N	2.63	0.53
16:AP:48:TRP:CE3	16:AP:49:LEU:HB3	2.44	0.53
1:AA:1217:C:H2'	1:AA:1218:C:C6	2.44	0.53
1:CA:940:C:H2'	1:CA:941:G:H8	1.74	0.53
35:BA:1430:C:H2'	35:BA:1431:U:C6	2.44	0.53
35:DA:2260:C:H2'	35:DA:2261:C:H6	1.74	0.53
1:AA:599:C:O3'	8:AH:96:GLY:HA2	2.09	0.53
2:CB:89:GLY:O	2:CB:154:LEU:HD13	2.08	0.53
12:AL:89:ARG:NH1	12:AL:90:VAL:N	2.57	0.53
8:AH:29:SER:O	8:AH:32:LYS:HB2	2.08	0.53
35:DA:2528:U:H2'	35:DA:2530:A:O5'	2.09	0.53
12:CL:89:ARG:C	12:CL:89:ARG:HD3	2.29	0.53
9:CI:28:VAL:HG13	9:CI:63:ILE:C	2.29	0.53
46:DP:96:THR:O	46:DP:99:LEU:HB3	2.09	0.53
38:BD:133:LEU:O	38:BD:134:ARG:C	2.47	0.53
46:DP:74:GLU:OE2	46:DP:74:GLU:HA	2.08	0.53
1:AA:678:U:H2'	1:AA:679:C:H6	1.66	0.53
29:D3:7:LYS:C	29:D3:54:VAL:HG13	2.28	0.53
40:DF:9:ILE:O	40:DF:128:ALA:HB2	2.09	0.53
32:B6:36:LEU:HD13	32:B6:50:ARG:HH12	1.71	0.53
35:BA:1485:G:H2'	35:BA:1486:A:H8	1.73	0.53
32:D6:47:THR:HG22	32:D6:48:VAL:N	2.24	0.53
3:CC:70:VAL:O	3:CC:105:GLU:HA	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:193:VAL:O	38:BD:193:VAL:HG13	2.09	0.53
13:CM:69:GLU:CB	13:CM:72:ALA:HB3	2.38	0.53
35:DA:1952:A:C5	45:DO:22:ILE:HD12	2.44	0.53
1:AA:1256:A:N6	1:AA:1278:U:H1'	2.24	0.53
7:AG:47:CYS:HB3	7:AG:58:PRO:HG3	1.90	0.53
15:AO:17:ARG:NH1	15:AO:17:ARG:HG3	2.23	0.53
29:D3:40:THR:HG23	29:D3:43:ILE:H	1.72	0.53
1:CA:1096:C:H5'	2:CB:137:ARG:NH2	2.24	0.53
35:DA:524:U:H4'	35:DA:555:U:H4'	1.91	0.53
6:AF:19:LEU:HD23	6:AF:19:LEU:C	2.28	0.53
1:CA:340:U:H2'	1:CA:341:C:C6	2.41	0.53
35:DA:2380:C:H2'	35:DA:2381:C:H6	1.74	0.53
5:CE:57:LYS:HE2	5:CE:61:TYR:CE2	2.42	0.53
46:DP:122:PRO:HA	46:DP:141:ALA:O	2.08	0.53
56:DZ:55:HIS:CE1	56:DZ:135:GLU:HA	2.44	0.53
1:AA:1155:G:O2'	1:AA:1156:G:H5'	2.09	0.53
35:DA:1518:U:H2'	35:DA:1519:G:C8	2.43	0.53
50:BT:58:ASN:ND2	50:BT:58:ASN:N	2.56	0.53
35:BA:35:G:O2'	35:BA:36:G:H5'	2.08	0.53
51:DU:24:TYR:HB2	51:DU:29:SER:CB	2.39	0.53
35:BA:2768:C:O2'	35:BA:2769:C:H5'	2.09	0.53
1:AA:1067:A:O5'	1:AA:1067:A:H8	1.91	0.53
35:DA:210:C:O2'	35:DA:211:A:H5'	2.09	0.53
1:CA:231:G:O2'	1:CA:232:G:H5'	2.09	0.53
35:BA:1630:G:H2'	35:BA:1631:C:H6	1.74	0.53
35:DA:2711:A:OP1	35:DA:2712(A):A:P	2.67	0.53
45:DO:24:VAL:HG21	45:DO:32:TYR:O	2.09	0.53
14:CN:39:LEU:HD11	14:CN:47:LEU:HD12	1.91	0.53
35:DA:1799:G:O3'	38:DD:264:LYS:NZ	2.42	0.53
35:BA:2383:G:O2'	35:BA:2384:G:H5'	2.09	0.53
35:BA:631:A:H4'	46:BP:65:ARG:HA	1.91	0.53
46:BP:65:ARG:HH11	46:BP:65:ARG:HG3	1.74	0.53
35:BA:2685:G:C2	35:BA:2686:G:N7	2.76	0.53
50:BT:28:VAL:CG2	50:BT:46:GLU:HA	2.39	0.53
50:BT:80:SER:O	50:BT:82:LEU:N	2.41	0.53
47:BQ:26:TYR:O	47:BQ:27:VAL:C	2.48	0.53
56:BZ:150:LEU:CD2	56:BZ:150:LEU:H	2.11	0.53
56:BZ:166:SER:HB2	56:BZ:168:GLU:H	1.74	0.53
39:BE:49:LEU:HD23	39:BE:81:ILE:HG12	1.91	0.53
52:BV:36:PRO:HG2	52:BV:60:GLU:OE1	2.07	0.53
52:BV:5:VAL:HG22	52:BV:6:LYS:N	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:89:ILE:CG1	42:DH:90:LYS:H	2.22	0.53
35:BA:1348:G:C3'	35:BA:1349:A:H5''	2.39	0.53
54:BX:52:VAL:O	54:BX:53:LYS:HB3	2.09	0.53
39:DE:34:VAL:O	39:DE:35:GLN:HB2	2.09	0.53
27:B1:54:ALA:HB2	27:B1:57:GLU:OE1	2.09	0.53
35:BA:2314:C:O2'	35:BA:2315:G:H5'	2.09	0.53
41:BG:6:ALA:O	41:BG:10:LYS:N	2.31	0.53
42:BH:164:TYR:O	42:BH:165:ALA:HB2	2.08	0.53
36:DB:104:U:H2'	36:DB:105:A:H8	1.74	0.53
56:DZ:26:GLY:O	56:DZ:37:VAL:N	2.42	0.53
49:BS:42:ASP:O	49:BS:44:LYS:N	2.42	0.53
49:BS:53:SER:OG	49:BS:54:LEU:N	2.42	0.53
35:BA:235:U:H2'	35:BA:236:C:H6	1.73	0.53
35:DA:443:A:P	35:DA:614(B):G:H22	2.32	0.53
48:DR:38:VAL:HB	48:DR:39:PRO:CD	2.29	0.53
48:DR:44:LEU:HD13	48:DR:48:VAL:HG23	1.91	0.53
48:DR:73:VAL:HG23	48:DR:74:LYS:HD2	1.90	0.53
35:BA:2821:A:OP2	48:BR:2:ARG:NH2	2.41	0.53
2:AB:72:GLY:HA3	2:AB:165:VAL:CG2	2.38	0.53
35:DA:1188:U:H2'	35:DA:1189:A:H5'	1.91	0.53
19:AS:9:VAL:HG12	19:AS:9:VAL:O	2.09	0.53
55:DY:37:VAL:CG2	55:DY:67:LEU:HG	2.39	0.53
6:AF:60:PHE:O	6:AF:61:LEU:HD12	2.09	0.53
1:CA:792:A:H4'	1:CA:793:U:O5'	2.08	0.53
25:CY:164:ILE:HD12	25:CY:164:ILE:N	2.22	0.53
43:BI:17:GLN:HG2	43:BI:18:VAL:N	2.21	0.53
1:CA:223:U:H2'	1:CA:224:C:H6	1.74	0.53
35:BA:2248:C:H2'	35:BA:2249:U:H5'	1.91	0.53
55:BY:29:GLU:N	55:BY:29:GLU:OE1	2.42	0.53
11:AK:43:SER:CA	11:AK:47:VAL:HG21	2.37	0.53
20:AT:63:ILE:HD12	20:AT:81:LYS:CG	2.39	0.53
1:CA:527:G:O2'	1:CA:528:C:H5'	2.09	0.53
46:DP:124:LYS:HA	46:DP:143:GLY:HA3	1.91	0.53
5:CE:145:LYS:HG2	5:CE:149:GLU:OE1	2.08	0.53
11:CK:33:THR:C	11:CK:40:ILE:HG12	2.30	0.53
35:BA:1614:A:N1	53:BW:87:PRO:HB3	2.23	0.53
53:BW:14:PRO:HG3	53:BW:101:SER:OG	2.09	0.53
1:CA:1116:C:H3'	1:CA:1117:G:H5''	1.91	0.53
13:CM:22:ILE:HG21	13:CM:25:ILE:HD12	1.90	0.53
35:DA:2114:A:N3	35:DA:2114:A:H2'	2.23	0.53
51:BU:3:ARG:NH1	51:BU:3:ARG:CG	2.71	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:50:ILE:HG13	7:CG:58:PRO:HB3	1.91	0.53
31:B5:2:ALA:HB2	35:BA:2014:A:HO2'	1.72	0.53
13:AM:2:ALA:O	13:AM:9:ILE:HG13	2.09	0.53
35:BA:1297:C:H2'	35:BA:1298:C:H6	1.74	0.53
35:BA:1835:G:C5'	35:BA:1836:C:OP2	2.56	0.53
9:AI:105:ASP:C	9:AI:107:ARG:H	2.11	0.53
35:DA:1569:A:O2'	38:DD:38:LYS:HE2	2.09	0.53
7:AG:47:CYS:O	7:AG:58:PRO:HG3	2.09	0.53
12:CL:119:LYS:C	12:CL:121:GLY:H	2.11	0.53
35:BA:1721:G:H2'	35:BA:1722:A:H2'	1.90	0.53
36:DB:78:A:O2'	36:DB:79:C:H5'	2.09	0.53
1:CA:1090:U:O2'	1:CA:1091:U:H5'	2.09	0.53
27:B1:20:ARG:CZ	27:B1:41:ARG:HE	2.20	0.53
53:DW:51:LEU:O	53:DW:51:LEU:HD22	2.09	0.53
39:BE:171:GLU:O	39:BE:173:VAL:HG23	2.08	0.53
40:DF:31:HIS:HB2	46:DP:13:ASN:OD1	2.09	0.53
1:CA:969:A:H2'	1:CA:970:C:O4'	2.09	0.53
1:CA:76:C:H42	1:CA:93:G:H1	1.57	0.53
1:AA:788:U:O2'	1:AA:789:U:H5'	2.08	0.53
1:AA:164:U:O2'	1:AA:165:C:H5'	2.08	0.53
1:CA:176:C:H2'	1:CA:177:C:C6	2.44	0.53
35:BA:1487:G:N2	35:BA:1488:G:H1'	2.24	0.53
1:CA:788:U:C5	1:CA:789:U:H5	2.26	0.53
36:DB:95:C:O2'	36:DB:96:U:H5'	2.08	0.53
35:BA:858:U:O2	35:BA:2268:A:H2'	2.09	0.53
37:BC:203:GLY:O	37:BC:204:ALA:HB2	2.09	0.53
37:BC:49:ILE:C	37:BC:51:PRO:HD3	2.29	0.53
15:CO:6:GLU:CD	15:CO:6:GLU:H	2.10	0.53
1:AA:1444:C:H2'	1:AA:1445:C:C6	2.43	0.53
23:CW:39:A:H2'	23:CW:40:C:H5'	1.90	0.53
35:DA:1960:A:O2'	35:DA:1961:C:H5'	2.09	0.53
31:B5:7:PRO:HA	35:BA:2615:U:C2	2.44	0.53
53:DW:40:ASN:O	53:DW:41:LYS:HG2	2.09	0.53
35:DA:1666:G:O3'	45:DO:6:THR:HG23	2.09	0.52
50:DT:36:GLU:HB3	50:DT:38:ASN:OD1	2.09	0.52
53:DW:29:LEU:HD23	53:DW:29:LEU:C	2.30	0.52
38:BD:83:GLU:HB2	38:BD:92:ILE:HD11	1.91	0.52
35:DA:1824:G:H2'	35:DA:1825:A:H8	1.73	0.52
41:DG:125:PHE:CE2	41:DG:173:LEU:HD12	2.43	0.52
32:B6:9:LEU:HD23	32:B6:10:LEU:O	2.09	0.52
45:BO:34:THR:O	45:BO:37:ASP:OD2	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BO:63:VAL:HG22	45:BO:84:ALA:CA	2.25	0.52
50:BT:22:PHE:O	50:BT:23:ARG:HB3	2.09	0.52
50:BT:53:ARG:HH11	50:BT:53:ARG:CG	2.21	0.52
56:BZ:80:ARG:O	56:BZ:82:ARG:N	2.42	0.52
51:BU:78:THR:O	51:BU:80:ILE:N	2.42	0.52
52:BV:19:LYS:HG3	52:BV:20:LEU:H	1.74	0.52
52:BV:96:ILE:HG23	52:BV:97:LYS:H	1.73	0.52
41:BG:107:LEU:HD23	41:BG:111:LEU:HD12	1.90	0.52
55:DY:87:LYS:C	55:DY:88:LYS:HD2	2.29	0.52
42:BH:128:PRO:HG2	42:BH:129:THR:CG2	2.35	0.52
55:BY:47:LYS:HG3	55:BY:60:PHE:CE2	2.44	0.52
56:DZ:144:LEU:HD21	56:DZ:150:LEU:CD1	2.38	0.52
43:DI:83:ALA:HB2	43:DI:88:ILE:HG23	1.91	0.52
40:BF:34:TRP:O	40:BF:37:VAL:N	2.41	0.52
46:DP:71:VAL:HG22	46:DP:72:PRO:N	2.24	0.52
25:AY:37:LEU:HD12	25:AY:38:LEU:HG	1.91	0.52
27:D1:9:GLY:N	27:D1:48:LYS:HZ3	1.97	0.52
27:D1:76:ARG:C	27:D1:78:LYS:HZ2	2.13	0.52
34:D8:29:LYS:O	34:D8:30:ARG:C	2.47	0.52
34:D8:30:ARG:HE	46:DP:62:LEU:CB	2.21	0.52
46:BP:70:GLN:HG3	46:BP:71:VAL:N	2.21	0.52
35:BA:818:G:N2	35:BA:1190:G:C6	2.77	0.52
36:DB:55:U:H4'	41:DG:27:ASN:HD21	1.72	0.52
49:DS:65:VAL:HG12	49:DS:69:VAL:HB	1.91	0.52
35:DA:247:G:H4'	35:DA:386:G:C5	2.45	0.52
35:DA:668:G:C2	35:DA:670:A:C6	2.97	0.52
35:DA:587:C:C6	35:DA:671:C:H1'	2.44	0.52
35:DA:818:G:OP2	35:DA:1187:G:O6	2.27	0.52
40:DF:68:LYS:O	40:DF:69:HIS:CB	2.57	0.52
19:AS:16:LEU:HB3	19:AS:20:LEU:HD11	1.92	0.52
12:AL:8:ASN:O	12:AL:11:VAL:HB	2.09	0.52
43:DI:130:TYR:CB	43:DI:136:VAL:HG13	2.38	0.52
6:AF:75:LEU:HD22	6:AF:79:LEU:HD11	1.91	0.52
1:CA:1496:C:H2'	1:CA:1497:G:C8	2.43	0.52
53:DW:73:ALA:HB3	53:DW:106:ILE:CD1	2.26	0.52
35:DA:26:G:H1'	35:DA:515:A:N6	2.15	0.52
35:DA:27:G:H1'	35:DA:513:A:H62	1.75	0.52
25:CY:114:LEU:O	25:CY:117:ALA:HB3	2.09	0.52
16:AP:1:MET:SD	16:AP:1:MET:N	2.74	0.52
37:BC:44:HIS:HD2	37:BC:175:VAL:N	2.06	0.52
22:AV:40:C:H2'	22:AV:41:C:H6	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:82:MET:HB3	13:AM:93:ARG:NH1	2.24	0.52
13:AM:91:ARG:HD3	19:AS:81:ARG:NH2	2.24	0.52
35:DA:224:G:O2'	35:DA:225:A:H5'	2.09	0.52
8:AH:124:ALA:O	8:AH:128:GLY:N	2.40	0.52
8:AH:6:ILE:CG2	8:AH:10:LEU:HD11	2.38	0.52
35:BA:1038:C:H42	35:BA:1117:G:H1	1.57	0.52
35:BA:1175:U:H4'	35:BA:1176:G:C3'	2.38	0.52
38:BD:132:PRO:HD3	38:BD:190:TYR:CZ	2.44	0.52
35:DA:516:C:O2'	35:DA:517:C:H5'	2.09	0.52
46:BP:97:PRO:C	46:BP:99:LEU:H	2.11	0.52
11:CK:20:TYR:C	11:CK:21:ILE:HD12	2.29	0.52
40:DF:9:ILE:HG12	40:DF:14:PRO:C	2.29	0.52
1:AA:1053:G:C3'	1:AA:1054:C:H5'	2.38	0.52
1:CA:1053:G:C6	1:CA:1199:U:H2'	2.42	0.52
51:BU:3:ARG:HG2	51:BU:3:ARG:NH1	2.19	0.52
35:DA:463:G:N1	35:DA:467:G:C6	2.77	0.52
1:AA:1404:C:H6	1:AA:1404:C:O5'	1.92	0.52
15:AO:67:LEU:HD22	15:AO:78:TYR:CE1	2.44	0.52
17:AQ:86:GLU:O	17:AQ:88:TYR:N	2.41	0.52
35:BA:188:G:H1'	35:BA:1365:A:N1	2.23	0.52
35:DA:1744:C:C2'	35:DA:1745:C:H5'	2.38	0.52
27:B1:20:ARG:HH12	27:B1:41:ARG:NE	2.06	0.52
35:DA:1836:C:O2'	35:DA:1837:C:H5'	2.09	0.52
5:AE:57:LYS:HE2	5:AE:61:TYR:CE2	2.44	0.52
35:DA:154(A):C:C5	35:DA:171:G:N1	2.75	0.52
3:CC:73:PRO:O	3:CC:75:VAL:N	2.42	0.52
45:DO:13:ASN:HD22	45:DO:97:ARG:HB2	1.74	0.52
35:DA:2009:G:H1'	48:DR:107:ASP:C	2.29	0.52
1:AA:358:U:O2'	1:AA:359:U:H5'	2.09	0.52
53:BW:66:GLU:HG2	53:BW:66:GLU:O	2.08	0.52
2:CB:158:LEU:H	2:CB:158:LEU:HD12	1.72	0.52
43:BI:29:TYR:HD1	43:BI:33:ARG:HE	1.57	0.52
11:CK:125:PHE:N	11:CK:125:PHE:CD1	2.77	0.52
3:CC:57:ILE:HG23	3:CC:64:VAL:CG1	2.39	0.52
35:BA:2881:C:C2	35:BA:2882:A:C8	2.97	0.52
35:BA:66:C:H2'	35:BA:67:U:C5'	2.39	0.52
37:BC:99:ILE:HG23	37:BC:103:ILE:CB	2.38	0.52
45:DO:31:LYS:HD2	45:DO:32:TYR:CE1	2.44	0.52
45:DO:62:VAL:HG11	45:DO:65:THR:HG22	1.91	0.52
1:CA:1442(A):G:N2	50:DT:119:LYS:HB2	2.22	0.52
1:CA:1051:C:O2'	1:CA:1052:U:H5'	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1827:C:OP2	38:BD:222:ARG:NH1	2.42	0.52
16:CP:19:ILE:HB	16:CP:37:GLY:CA	2.39	0.52
41:DG:171:ALA:O	41:DG:174:GLU:N	2.42	0.52
41:DG:44:GLY:C	41:DG:46:ALA:N	2.63	0.52
35:BA:2865:U:H3'	35:BA:2866:U:O2	2.09	0.52
50:BT:25:GLY:HA2	50:BT:92:GLY:HA3	1.91	0.52
47:BQ:132:VAL:HG12	47:BQ:133:ARG:N	2.25	0.52
47:BQ:141:GLN:HG2	56:BZ:72:ARG:NE	2.24	0.52
56:BZ:99:TYR:O	56:BZ:100:VAL:HB	2.08	0.52
39:BE:55:ASN:CG	39:BE:75:VAL:HG13	2.29	0.52
35:DA:1419:A:H62	35:DA:1578:U:H3	1.58	0.52
44:BN:40:PRO:CB	51:BU:64:ARG:HH22	2.22	0.52
10:AJ:62:HIS:H	10:AJ:62:HIS:HD2	1.54	0.52
28:B2:51:ARG:HD3	28:B2:51:ARG:O	2.09	0.52
54:BX:82:GLN:OE1	54:BX:83:VAL:N	2.38	0.52
35:DA:1341:U:OP1	35:DA:1397:U:N3	2.41	0.52
35:DA:874:G:H2'	35:DA:875:G:C8	2.44	0.52
56:DZ:125:LEU:HD23	56:DZ:126:VAL:N	2.24	0.52
56:DZ:53:ILE:HG22	56:DZ:71:VAL:CG2	2.39	0.52
35:DA:535:C:C2'	35:DA:536:A:H5'	2.39	0.52
51:DU:61:TRP:O	51:DU:63:VAL:N	2.42	0.52
52:DV:5:VAL:HG22	52:DV:6:LYS:N	2.24	0.52
49:BS:83:LYS:O	49:BS:85:VAL:HG13	2.09	0.52
4:CD:96:LEU:O	4:CD:98:GLU:N	2.43	0.52
46:BP:70:GLN:HG3	46:BP:71:VAL:HG12	1.91	0.52
35:BA:793:A:OP2	35:BA:2071:A:O2'	2.25	0.52
40:DF:114:VAL:HG21	40:DF:202:PHE:CE2	2.44	0.52
48:DR:87:TYR:O	48:DR:89:ASP:N	2.41	0.52
20:AT:48:LYS:HB2	20:AT:52:ALA:HB2	1.91	0.52
2:AB:36:ARG:N	2:AB:41:ILE:HD13	2.23	0.52
44:BN:56:ASN:HA	44:BN:125:GLY:N	2.23	0.52
1:CA:833:U:H2'	1:CA:834:C:C6	2.45	0.52
35:DA:993:G:OP1	51:DU:50:ARG:NH2	2.42	0.52
1:CA:1234:C:H4'	1:CA:1364:U:H1'	1.91	0.52
55:DY:18:GLY:C	55:DY:20:TYR:H	2.12	0.52
4:AD:65:ARG:HH11	4:AD:72:GLU:CA	2.22	0.52
35:DA:910:A:H2'	35:DA:911:A:C8	2.44	0.52
42:DH:45:VAL:HG12	42:DH:45:VAL:O	2.08	0.52
2:AB:115:LEU:HD21	2:AB:153:ARG:HE	1.74	0.52
7:AG:105:VAL:O	7:AG:108:ALA:HB3	2.10	0.52
25:CY:28:LEU:O	25:CY:37:LEU:HD13	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:CS:62:ILE:HD12	19:CS:63:THR:N	2.24	0.52
16:AP:1:MET:SD	16:AP:3:LYS:HE3	2.49	0.52
16:AP:72:ARG:C	16:AP:74:LEU:N	2.61	0.52
20:CT:48:LYS:HB2	20:CT:52:ALA:HB2	1.91	0.52
11:CK:87:THR:HA	11:CK:91:ARG:CG	2.39	0.52
11:AK:21:ILE:CG1	11:AK:84:VAL:HG12	2.39	0.52
35:BA:109:G:H2'	35:BA:110:G:H8	1.75	0.52
35:DA:262:A:H2'	35:DA:263:C:O4'	2.08	0.52
1:AA:184:G:O2'	1:AA:185:A:H5'	2.09	0.52
43:DI:37:VAL:CG1	43:DI:38:LEU:N	2.72	0.52
9:AI:7:THR:N	9:AI:83:ARG:HD2	2.23	0.52
12:CL:60:LEU:HD22	12:CL:60:LEU:N	2.24	0.52
29:B3:7:LYS:C	29:B3:54:VAL:HG13	2.29	0.52
35:DA:494:G:H21	53:DW:57:ASN:HD21	1.55	0.52
19:CS:53:ASN:N	19:CS:53:ASN:HD22	2.07	0.52
35:DA:680:G:H2'	35:DA:681:G:C8	2.44	0.52
32:D6:20:ASN:HD22	32:D6:21:TYR:H	1.53	0.52
38:BD:130:ALA:HB2	38:BD:192:THR:HB	1.91	0.52
53:BW:74:ALA:O	53:BW:75:TYR:HB3	2.09	0.52
1:AA:644:G:O2'	1:AA:645:C:H5'	2.09	0.52
35:BA:32:C:H42	35:BA:473:G:H1	1.57	0.52
1:AA:1418:A:C2	1:AA:1483:A:C2	2.97	0.52
35:BA:1297:C:H2'	35:BA:1298:C:C6	2.43	0.52
9:AI:10:ARG:O	9:AI:11:LYS:HB3	2.09	0.52
1:AA:1366:C:H2'	1:AA:1367:C:H6	1.70	0.52
1:CA:1096:C:O2'	1:CA:1097:C:H5'	2.09	0.52
26:B0:27:GLU:N	26:B0:69:PHE:CE1	2.74	0.52
38:DD:9:TYR:C	38:DD:10:THR:HG22	2.29	0.52
35:DA:2290:G:H2'	35:DA:2291:U:C6	2.44	0.52
3:CC:76:VAL:HG23	3:CC:77:ILE:HG13	1.90	0.52
53:DW:48:ALA:O	53:DW:51:LEU:N	2.43	0.52
46:DP:13:ASN:HD22	46:DP:13:ASN:N	2.03	0.52
25:CY:78:ALA:HA	25:CY:81:LYS:HB2	1.91	0.52
17:CQ:10:VAL:HG21	17:CQ:55:ASP:HB2	1.90	0.52
35:DA:1434:A:H2'	35:DA:1435:G:H8	1.68	0.52
1:CA:1287:A:C6	1:CA:1288:A:N6	2.76	0.52
10:CJ:85:LEU:O	10:CJ:87:THR:N	2.43	0.52
19:CS:27:GLU:O	19:CS:28:LYS:HD2	2.07	0.52
35:BA:1518:U:H2'	35:BA:1519:G:C8	2.44	0.52
35:DA:1197:G:H2'	35:DA:1198:U:C6	2.44	0.52
35:BA:1434:A:H2'	35:BA:1435:G:H8	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1210:A:O2'	35:DA:1211:U:OP2	2.26	0.52
1:CA:967:C:H2'	1:CA:968:A:C8	2.44	0.52
5:AE:15:ARG:HG2	5:AE:26:PHE:HD2	1.74	0.52
1:CA:745:C:H2'	1:CA:746:A:C8	2.44	0.52
37:DC:73:ARG:HA	37:DC:92:ASP:OD1	2.09	0.52
1:AA:624:C:H4'	16:AP:10:GLY:HA2	1.91	0.52
36:BB:87:G:H2'	36:BB:88:C:H5''	1.90	0.52
1:AA:139:G:O2'	1:AA:140:A:H5'	2.09	0.52
10:CJ:92:THR:HG23	10:CJ:93:GLY:N	2.24	0.52
35:DA:2729:G:H2'	35:DA:2730:C:C6	2.44	0.52
50:DT:51:ARG:HH11	50:DT:51:ARG:HG3	1.74	0.52
30:D4:14:ILE:CB	41:DG:5:VAL:HG13	2.39	0.52
5:CE:129:ILE:O	5:CE:130:ASN:C	2.48	0.52
35:DA:2313:C:P	41:DG:71:THR:HG21	2.49	0.52
34:B8:39:LYS:NZ	34:B8:43:GLN:HG3	2.24	0.52
56:BZ:28:MET:HA	56:BZ:88:PHE:O	2.10	0.52
35:BA:2809:A:C2	35:BA:2892:A:N3	2.77	0.52
51:BU:74:LEU:CD1	51:BU:79:PHE:HB2	2.39	0.52
52:BV:37:VAL:HG11	52:BV:53:GLU:OE2	2.10	0.52
52:BV:93:GLU:HG2	52:BV:94:LEU:N	2.24	0.52
28:B2:47:ASN:HA	28:B2:50:ILE:O	2.09	0.52
54:BX:73:ARG:HG3	54:BX:73:ARG:O	2.09	0.52
54:BX:55:ASN:HB2	54:BX:77:LYS:CD	2.40	0.52
39:DE:50:GLY:CA	39:DE:74:PRO:HG3	2.40	0.52
35:DA:1860:G:H2'	35:DA:1861:G:H8	1.74	0.52
27:B1:17:SER:O	27:B1:44:PRO:HD2	2.08	0.52
41:BG:116:ASP:CG	41:BG:117:PHE:H	2.12	0.52
36:BB:45:A:C8	41:BG:95:ARG:NE	2.78	0.52
35:DA:1348:G:C3'	35:DA:1349:A:H5''	2.40	0.52
42:BH:89:ILE:H	42:BH:89:ILE:HD13	1.75	0.52
1:CA:1320:C:H2'	1:CA:1321:C:O4'	2.09	0.52
1:CA:429:U:C1'	1:CA:430:A:H5''	2.39	0.52
4:CD:153:ARG:HB3	4:CD:153:ARG:HH11	1.73	0.52
4:CD:156:GLU:O	4:CD:159:ARG:HB2	2.10	0.52
35:BA:443:A:P	35:BA:614(B):G:H22	2.32	0.52
46:BP:71:VAL:HG22	46:BP:72:PRO:N	2.24	0.52
34:B8:61:LEU:O	34:B8:64:TYR:HD1	1.93	0.52
35:BA:1197:G:H2'	35:BA:1198:U:C6	2.45	0.52
35:BA:589:C:O2'	35:BA:590:A:H5'	2.10	0.52
35:DA:442:G:C4'	40:DF:46:ARG:HD3	2.39	0.52
35:BA:1652:A:H62	48:BR:11:ASN:ND2	2.07	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:DB:114:C:O2'	49:DS:47:THR:HB	2.08	0.52
35:DA:189:G:C4	35:DA:205:G:N2	2.77	0.52
2:CB:41:ILE:N	2:CB:41:ILE:HD12	2.24	0.52
35:DA:1259:G:O2'	35:DA:1260:G:H5'	2.09	0.52
35:DA:819:A:OP2	35:DA:1187:G:N2	2.31	0.52
40:DF:57:VAL:CG1	40:DF:58:ALA:N	2.72	0.52
43:DI:109:ILE:HD12	43:DI:109:ILE:O	2.09	0.52
43:DI:94:ALA:HA	43:DI:97:ILE:HB	1.90	0.52
35:DA:579:G:H2'	35:DA:580:C:C6	2.45	0.52
12:CL:24:VAL:HG12	12:CL:24:VAL:O	2.08	0.52
21:AU:18:TYR:CD2	21:AU:24:ARG:HG3	2.44	0.52
17:CQ:29:HIS:HA	17:CQ:36:ILE:HD11	1.90	0.52
51:BU:31:SER:O	51:BU:33:ARG:N	2.43	0.52
35:BA:2262:U:H4'	35:BA:2328:A:H2	1.74	0.52
35:DA:927:G:O6	35:DA:928:G:C2	2.62	0.52
1:CA:1108:G:OP2	3:CC:174:PRO:HA	2.08	0.52
52:DV:78:LYS:HD3	52:DV:79:VAL:CA	2.40	0.52
9:CI:11:LYS:C	9:CI:13:ALA:H	2.12	0.52
9:CI:65:VAL:CG2	9:CI:66:ARG:N	2.73	0.52
1:AA:527:G:C2'	1:AA:528:C:H5'	2.39	0.52
18:AR:59:SER:N	18:AR:62:GLU:OE1	2.42	0.52
35:BA:2537:U:H2'	35:BA:2538:C:C6	2.43	0.52
31:B5:40:LYS:HZ2	31:B5:45:VAL:HA	1.72	0.52
19:AS:53:ASN:N	19:AS:53:ASN:ND2	2.55	0.52
15:CO:9:GLN:HB3	15:CO:13:GLN:NE2	2.17	0.52
1:AA:269:C:H2'	1:AA:270:A:H8	1.74	0.52
50:BT:13:ARG:NH1	50:BT:15:VAL:HG12	2.24	0.52
35:BA:494:G:H21	53:BW:57:ASN:HD21	1.55	0.52
35:BA:2171:A:HO2'	35:BA:2172:U:H6	1.55	0.52
35:BA:149:A:C2	35:BA:150:C:C2	2.98	0.52
1:CA:237:C:O2'	1:CA:238:G:H5'	2.08	0.52
25:CY:73:GLN:O	25:CY:77:LYS:HE3	2.09	0.52
53:DW:20:VAL:HG21	53:DW:47:VAL:HG21	1.92	0.52
46:DP:19:VAL:HG23	46:DP:19:VAL:O	2.10	0.52
4:CD:131:ARG:O	4:CD:132:ARG:C	2.46	0.52
41:BG:139:LEU:HD22	41:BG:146:TYR:HE1	1.74	0.52
35:BA:705:A:O2'	35:BA:706:A:H5'	2.10	0.52
35:DA:1469:A:O2'	35:DA:1470:G:H5'	2.08	0.52
35:BA:1006:C:N3	35:BA:1138:G:C2	2.77	0.52
43:BI:58:LEU:C	43:BI:58:LEU:HD23	2.30	0.52
1:CA:1367:C:OP1	9:CI:115:GLY:N	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DN:13:TRP:O	44:DN:135:PRO:HD2	2.09	0.52
7:CG:49:ILE:HG22	7:CG:53:LYS:HG3	1.92	0.52
35:BA:1841:U:H2'	35:BA:1842:G:H8	1.72	0.52
12:AL:34:ARG:HB3	12:AL:61:THR:CG2	2.38	0.52
25:CY:35:PRO:HA	25:CY:66:LEU:HD21	1.92	0.52
1:CA:475:G:H2'	1:CA:476:G:H8	1.74	0.52
35:DA:271(H):G:HO2'	35:DA:271(I):G:H8	1.57	0.52
38:BD:201:HIS:C	38:BD:203:ASN:H	2.13	0.52
1:AA:364:A:H2'	1:AA:365:U:O2	2.09	0.52
35:DA:701:G:O2'	35:DA:702:G:H5'	2.09	0.52
1:CA:129(A):G:H21	1:CA:189(F):U:H5''	1.74	0.52
35:DA:1430:C:H2'	35:DA:1431:U:H6	1.72	0.52
2:CB:9:GLU:O	2:CB:13:ALA:HB2	2.10	0.52
1:AA:1037:C:H2'	1:AA:1038:C:C6	2.44	0.52
7:CG:126:ASP:HB3	7:CG:132:GLY:CA	2.39	0.52
35:DA:477:A:H2'	35:DA:478:A:C8	2.45	0.52
1:AA:622:A:C8	1:AA:623:C:C5	2.97	0.52
45:DO:98:VAL:HG22	45:DO:99:PHE:N	2.25	0.52
50:DT:25:GLY:HA2	50:DT:92:GLY:HA3	1.91	0.52
1:CA:1208:C:H2'	1:CA:1209:C:H6	1.73	0.52
38:BD:160:GLY:N	38:BD:196:VAL:HB	2.24	0.52
38:BD:39:LYS:HB2	38:BD:62:TYR:HB2	1.90	0.52
5:CE:31:LEU:CD1	5:CE:129:ILE:HA	2.39	0.52
41:DG:156:ASP:O	41:DG:157:ILE:O	2.26	0.52
35:BA:1999:C:H4'	35:BA:2723:C:O2	2.08	0.52
39:BE:128:SER:O	39:BE:129:HIS:CB	2.55	0.52
45:BO:16:ALA:CB	45:BO:43:VAL:HG13	2.36	0.52
39:DE:116:VAL:CG2	39:DE:122:PHE:CG	2.92	0.52
35:BA:2807:G:C3'	35:BA:2808:U:H5''	2.40	0.52
51:BU:64:ARG:NH2	51:BU:64:ARG:HA	2.25	0.52
52:BV:34:GLU:C	52:BV:62:LEU:HD12	2.29	0.52
1:AA:973:G:H1'	10:AJ:54:PHE:CE1	2.44	0.52
35:DA:2805:G:H22	35:DA:2893:G:H1	1.57	0.52
39:DE:52:LEU:HB2	39:DE:76:ARG:CB	2.34	0.52
39:DE:59:VAL:O	39:DE:62:PRO:HD2	2.09	0.52
27:B1:64:ALA:O	27:B1:67:ILE:CG1	2.50	0.52
41:BG:138:GLN:HB3	41:BG:153:ARG:O	2.10	0.52
41:BG:98:ARG:O	41:BG:101:ILE:HG23	2.10	0.52
28:D2:22:GLU:C	28:D2:24:LEU:N	2.63	0.52
47:DQ:119:ARG:HG2	47:DQ:120:ILE:CD1	2.36	0.52
35:DA:2040:C:H2'	35:DA:2041:U:H6	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:109:PRO:O	3:CC:115:LEU:HD12	2.08	0.52
1:CA:1321:C:H5''	1:CA:1322:C:H5''	1.89	0.52
4:CD:119:GLN:HE21	4:CD:123:HIS:CD2	2.27	0.52
4:CD:65:ARG:NH1	4:CD:72:GLU:N	2.57	0.52
35:DA:271(Q):G:H2'	35:DA:271(R):G:H8	1.74	0.52
46:BP:71:VAL:CB	46:BP:72:PRO:HD3	2.38	0.52
5:AE:50:GLU:OE2	5:AE:51:VAL:HG23	2.10	0.52
49:DS:24:LEU:O	49:DS:86:ALA:HB3	2.10	0.52
1:AA:402:G:H4'	1:AA:620:C:N3	2.24	0.52
35:DA:111:A:O2'	35:DA:112:U:H5'	2.08	0.52
1:AA:425:G:H2'	1:AA:426:G:C8	2.43	0.52
4:AD:18:LYS:CE	4:AD:31:CYS:SG	2.98	0.52
1:AA:539:A:OP1	12:AL:114:LYS:HE2	2.09	0.52
35:DA:959:A:H2'	35:DA:960:A:C8	2.45	0.52
35:DA:1132:A:H2'	35:DA:1133:U:C6	2.44	0.52
27:B1:33:LYS:HG2	27:B1:34:THR:N	2.21	0.52
21:AU:21:TYR:CD1	21:AU:21:TYR:N	2.75	0.52
1:AA:376:G:H2'	1:AA:377:G:C8	2.45	0.52
17:CQ:31:LEU:HG	17:CQ:32:TYR:CE2	2.44	0.52
35:BA:2619:C:O2'	35:BA:2620:C:H5'	2.09	0.52
35:BA:2250:G:C6	47:BQ:82:ARG:HD2	2.44	0.52
35:BA:1431:U:O2'	35:BA:1432:C:H5'	2.10	0.52
19:AS:63:THR:HG22	19:AS:66:MET:HE2	1.91	0.52
12:AL:60:LEU:HD22	12:AL:60:LEU:N	2.24	0.52
35:BA:79:G:O2'	35:BA:80:G:H5'	2.09	0.52
11:CK:69:ALA:O	11:CK:70:LYS:C	2.48	0.52
1:AA:527:G:H2'	1:AA:528:C:H5'	1.91	0.52
8:AH:28:ALA:HA	8:AH:59:LEU:HG	1.92	0.52
1:AA:1372:U:H5''	9:AI:71:SER:CB	2.35	0.52
35:BA:1039:G:H3'	35:BA:1040:C:C6	2.44	0.52
38:BD:73:VAL:HG13	38:BD:120:GLY:CA	2.39	0.52
15:CO:9:GLN:O	15:CO:10:LYS:C	2.48	0.52
16:CP:1:MET:SD	16:CP:3:LYS:HE3	2.50	0.52
16:CP:49:LEU:CD1	16:CP:51:VAL:HG23	2.35	0.52
18:CR:85:LEU:HG	18:CR:86:VAL:N	2.16	0.52
1:AA:643:C:H5'	8:AH:31:PHE:CE1	2.44	0.52
36:DB:20:C:H2'	36:DB:21:G:C5'	2.38	0.52
37:BC:59:ARG:HH21	37:BC:199:HIS:CB	2.22	0.52
42:BH:138:LYS:HA	42:BH:141:VAL:HB	1.92	0.52
1:AA:393:A:O2'	1:AA:394:G:H5'	2.10	0.52
38:BD:127:VAL:HA	38:BD:193:VAL:HG13	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1707:G:H1'	35:BA:1756:G:N3	2.24	0.52
1:AA:280:C:C4	17:AQ:91:ARG:NH2	2.78	0.52
35:DA:1720:U:H2'	35:DA:1721:G:O4'	2.10	0.52
38:DD:248:SER:HB2	38:DD:249:PRO:HD2	1.92	0.52
16:CP:14:ASN:H	16:CP:15:PRO:HD3	1.73	0.52
23:AW:24:C:H2'	23:AW:25:U:O4'	2.09	0.52
17:CQ:86:GLU:O	17:CQ:88:TYR:N	2.42	0.52
35:DA:2465:C:O2'	35:DA:2466:C:H5'	2.10	0.52
35:DA:172:C:O2	35:DA:172:C:H2'	2.09	0.52
1:CA:297:G:H2'	1:CA:299:G:OP2	2.09	0.52
53:BW:70:TYR:O	53:BW:107:LEU:HG	2.09	0.52
7:CG:20:ASP:HB3	7:CG:23:VAL:HG23	1.91	0.52
1:AA:286:G:H2'	1:AA:287:U:C6	2.44	0.52
37:BC:22:ILE:CG2	37:BC:25:ALA:HB2	2.40	0.52
31:B5:15:ARG:HA	31:B5:18:ALA:CB	2.39	0.52
35:BA:1516:C:H2'	35:BA:1517:G:H8	1.73	0.52
26:B0:72:ARG:HB3	26:B0:75:LEU:HB3	1.92	0.52
35:DA:301:G:C4	35:DA:302:C:C5	2.97	0.52
50:DT:54:ARG:HA	50:DT:59:THR:OG1	2.09	0.52
37:BC:214:VAL:C	37:BC:216:THR:N	2.62	0.52
35:BA:2828:C:O2'	35:BA:2829:C:H5'	2.09	0.52
35:DA:2064:C:H1'	35:DA:2450:A:C6	2.45	0.52
2:AB:124:SER:OG	2:AB:125:PRO:HD2	2.08	0.52
4:AD:138:TYR:HD2	4:AD:139:ARG:N	2.07	0.52
35:BA:435:C:H2'	35:BA:436:C:H5'	1.92	0.52
1:AA:814:A:H2'	1:AA:816:A:H5''	1.91	0.52
35:BA:1628:G:O2'	35:BA:1629:U:H5'	2.10	0.52
35:DA:2684:U:H2'	35:DA:2685:G:O4'	2.09	0.52
35:DA:2728:U:H2'	35:DA:2728:U:O2	2.09	0.52
50:DT:102:ILE:HB	50:DT:110:ILE:HD11	1.91	0.52
45:DO:80:ASP:HB2	50:DT:71:GLY:O	2.10	0.52
50:DT:94:ALA:CB	50:DT:99:LEU:HD23	2.40	0.52
35:BA:1791:A:N6	35:BA:1828:G:O2'	2.43	0.52
38:BD:264:LYS:HE3	38:BD:266:SER:HB2	1.91	0.52
35:DA:729:G:N7	38:DD:208:LYS:HB2	2.24	0.52
35:DA:1902:C:O2'	38:DD:244:ARG:HB2	2.09	0.52
10:CJ:34:VAL:HG12	10:CJ:35:SER:N	2.24	0.52
35:BA:2676:C:O2'	35:BA:2677:G:H5'	2.10	0.52
56:BZ:5:LEU:N	56:BZ:59:LEU:HD23	2.25	0.52
52:BV:14:VAL:HG11	52:BV:98:GLU:HG3	1.91	0.52
1:AA:1229:A:H2'	1:AA:1230:C:H6	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:48:THR:HG23	10:AJ:62:HIS:N	2.24	0.52
35:BA:58:G:OP1	54:BX:72:LYS:CB	2.56	0.52
39:DE:68:ALA:C	39:DE:70:ALA:H	2.12	0.52
2:AB:212:GLN:HE22	2:AB:216:SER:CB	2.22	0.52
41:BG:112:PRO:O	41:BG:113:ARG:HA	2.09	0.52
28:D2:20:GLU:C	28:D2:22:GLU:N	2.61	0.52
54:DX:53:LYS:NZ	54:DX:55:ASN:ND2	2.58	0.52
54:DX:54:VAL:HG13	54:DX:78:LYS:O	2.09	0.52
42:BH:105:LEU:CD2	42:BH:113:VAL:HB	2.38	0.52
35:BA:2643:G:O2'	35:BA:2644:G:H5'	2.08	0.52
56:DZ:168:GLU:O	56:DZ:169:GLU:O	2.28	0.52
44:DN:42:TRP:HA	44:DN:42:TRP:CE3	2.44	0.52
3:CC:5:ILE:O	3:CC:5:ILE:HD13	2.09	0.52
19:CS:16:LEU:N	19:CS:16:LEU:HD12	2.25	0.52
49:BS:72:ALA:O	49:BS:73:LEU:C	2.47	0.52
1:CA:406:G:C2	1:CA:407:G:C8	2.97	0.52
4:CD:172:PRO:HD2	4:CD:173:TRP:CZ3	2.45	0.52
4:CD:61:LYS:HG2	4:CD:75:PHE:HE2	1.74	0.52
44:BN:62:VAL:CG2	44:BN:66:LYS:HB2	2.40	0.52
44:BN:72:TYR:N	44:BN:85:ILE:O	2.42	0.52
40:BF:41:LEU:HA	40:BF:44:ARG:HD3	1.92	0.52
34:B8:49:VAL:HG12	34:B8:53:PRO:HD3	1.91	0.52
35:BA:2078:C:O2'	35:BA:2079:U:H5'	2.09	0.52
35:BA:251:A:H2'	35:BA:252:G:O4'	2.09	0.52
35:BA:818:G:OP2	35:BA:1187:G:O6	2.27	0.52
40:DF:45:ARG:HG3	40:DF:46:ARG:H	1.75	0.52
36:DB:31:C:H42	36:DB:51:G:H1	1.56	0.52
49:DS:36:TYR:HA	49:DS:52:SER:CB	2.39	0.52
45:BO:112:MET:O	45:BO:113:LYS:C	2.48	0.52
15:CO:70:LEU:HG	15:CO:78:TYR:HB2	1.90	0.52
1:CA:835:U:OP1	18:CR:61:LYS:HB2	2.10	0.52
18:CR:75:ILE:O	18:CR:75:ILE:HG22	2.08	0.52
2:CB:167:PRO:O	2:CB:168:THR:C	2.48	0.52
19:AS:36:ARG:HH22	19:AS:75:ALA:CB	2.12	0.52
35:DA:81:G:H1	35:DA:105:C:H42	1.55	0.52
1:CA:960:U:O2	1:CA:960:U:H2'	2.09	0.52
16:AP:49:LEU:HD22	16:AP:73:LEU:HD13	1.90	0.52
20:CT:63:ILE:O	20:CT:66:ALA:N	2.43	0.52
33:B7:9:ARG:NH1	35:BA:1310:G:OP2	2.43	0.52
1:CA:601:C:H2'	1:CA:602:A:C8	2.42	0.52
26:B0:16:SER:HB3	35:BA:2262:U:OP2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:140:ASP:OD1	7:AG:143:ARG:NH2	2.40	0.52
11:CK:69:ALA:O	11:CK:73:MET:N	2.31	0.52
35:BA:848:G:N3	35:BA:933:A:H1'	2.24	0.52
1:AA:261:U:H3'	20:AT:79:ARG:HH12	1.75	0.52
8:CH:21:LYS:CG	8:CH:22:GLU:N	2.73	0.52
8:CH:7:ALA:O	8:CH:11:THR:N	2.38	0.52
35:BA:17:G:HO2'	51:BU:25:TRP:HZ3	1.55	0.52
1:CA:277:C:O2'	1:CA:278:G:H5'	2.10	0.52
17:CQ:47:PRO:HG2	17:CQ:48:GLU:OE1	2.08	0.52
40:DF:153:SER:HA	40:DF:172:TRP:O	2.09	0.52
1:CA:324:G:N2	1:CA:326:G:H3'	2.24	0.52
20:CT:25:ARG:HH11	20:CT:25:ARG:HG3	1.75	0.52
3:AC:125:GLU:CG	3:AC:189:ALA:HA	2.38	0.52
5:CE:101:ILE:CD1	5:CE:118:ILE:O	2.57	0.52
5:CE:80:ILE:HG13	5:CE:91:LEU:HB2	1.92	0.52
13:CM:67:GLU:O	13:CM:69:GLU:N	2.42	0.52
1:CA:727:G:N1	1:CA:731:G:C6	2.77	0.52
15:AO:82:ILE:HD13	15:AO:82:ILE:C	2.30	0.52
1:CA:764:C:H2'	1:CA:765:G:O4'	2.08	0.52
35:BA:172:C:O2	35:BA:172:C:H2'	2.09	0.52
35:DA:1644:C:HO2'	35:DA:1645:G:H5'	1.73	0.52
17:CQ:85:VAL:O	17:CQ:89:LEU:HB2	2.10	0.52
36:DB:90:A:C8	36:DB:91:C:H1'	2.44	0.52
1:CA:853:G:H2'	1:CA:854:G:H8	1.73	0.52
10:AJ:85:LEU:O	10:AJ:87:THR:N	2.42	0.52
46:BP:122:PRO:HA	46:BP:141:ALA:O	2.10	0.52
1:CA:1365:G:C2'	1:CA:1366:C:H5'	2.39	0.52
7:AG:15:ASP:OD2	7:AG:16:LEU:N	2.43	0.52
35:BA:921:G:H2'	35:BA:922:U:H6	1.74	0.52
1:AA:627:G:O2'	1:AA:628:G:H5'	2.09	0.52
36:BB:15:A:C3'	36:BB:16:G:H5'	2.40	0.52
39:BE:2:LYS:CD	39:BE:95:ILE:HG22	2.39	0.52
5:CE:15:ARG:O	5:CE:15:ARG:HG2	2.10	0.52
29:B3:35:ARG:HG2	29:B3:37:LEU:HD21	1.90	0.52
35:DA:2649:U:O2'	35:DA:2650:U:H5'	2.09	0.52
1:AA:189(F):U:O4	17:AQ:62:SER:HB3	2.09	0.52
35:BA:419:C:O2'	35:BA:420:C:H5'	2.10	0.52
1:CA:998:G:H2'	1:CA:999:C:C6	2.43	0.52
7:AG:126:ASP:HB3	7:AG:132:GLY:CA	2.40	0.52
35:BA:1922:G:O2'	35:BA:1923:U:H5'	2.10	0.52
35:BA:325:G:H2'	35:BA:326:G:H8	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2790:A:N3	35:DA:2790:A:H2'	2.24	0.52
35:DA:2522:U:H2'	35:DA:2523:G:H5''	1.91	0.52
35:DA:2713:A:C3'	35:DA:2714:G:H5'	2.38	0.52
50:DT:23:ARG:C	50:DT:25:GLY:H	2.05	0.52
1:CA:346:G:H5''	50:DT:35:LYS:HZ1	1.75	0.52
14:CN:53:LEU:HB3	14:CN:56:VAL:HG21	1.90	0.52
35:BA:1776:G:C2	35:BA:1777:U:C6	2.96	0.52
35:BA:1814:G:H2'	35:BA:1815:A:N7	2.24	0.52
35:BA:1827:C:O2'	35:BA:1828:G:H5'	2.10	0.52
1:CA:865:A:C2	1:CA:918:A:H4'	2.44	0.52
41:DG:106:LEU:C	41:DG:108:ASN:N	2.63	0.52
41:DG:132:ASN:ND2	41:DG:157:ILE:O	2.42	0.52
35:BA:1665:A:H1'	45:BO:1:MET:HE3	1.90	0.52
39:BE:56:PRO:O	39:BE:57:LYS:O	2.27	0.52
44:BN:42:TRP:HE3	44:BN:42:TRP:HA	1.73	0.52
1:AA:973:G:C4	10:AJ:55:LYS:NZ	2.68	0.52
39:DE:5:LEU:CD2	39:DE:197:ILE:HG22	2.40	0.52
27:B1:87:PRO:CG	27:B1:88:LYS:N	2.73	0.52
41:BG:167:GLU:H	41:BG:167:GLU:CD	2.13	0.52
55:DY:86:ARG:NH2	55:DY:95:LYS:HZ3	2.08	0.52
28:D2:48:HIS:O	28:D2:52:ASP:HB3	2.09	0.52
54:DX:76:ARG:C	54:DX:76:ARG:HD3	2.30	0.52
54:DX:82:GLN:OE1	54:DX:83:VAL:N	2.41	0.52
42:BH:149:ARG:CA	42:BH:162:ILE:HD11	2.38	0.52
56:DZ:144:LEU:HD12	56:DZ:149:SER:HA	1.91	0.52
52:DV:23:GLU:O	52:DV:24:LYS:O	2.27	0.52
1:CA:501:C:H2'	1:CA:502:G:C8	2.44	0.52
1:CA:503:C:O2'	1:CA:504:C:H5'	2.10	0.52
4:CD:65:ARG:HB2	4:CD:75:PHE:CE2	2.44	0.52
4:CD:92:VAL:O	4:CD:95:GLY:N	2.43	0.52
40:BF:123:LEU:HD12	40:BF:124:LEU:H	1.74	0.52
27:B1:23:LYS:O	27:B1:37:ILE:HD12	2.09	0.52
35:BA:1186:G:C2'	35:BA:1187:G:H5'	2.39	0.52
35:BA:2069:G:C2'	35:BA:2070:G:H5'	2.39	0.52
35:BA:813:U:H2'	35:BA:814:C:H6	1.72	0.52
40:DF:155:LEU:CD1	40:DF:174:VAL:HB	2.40	0.52
55:BY:98:VAL:O	55:BY:98:VAL:HG12	2.10	0.52
35:BA:869:G:O2'	35:BA:870:A:H5'	2.09	0.52
35:BA:955:C:H5'	35:BA:956:G:OP2	2.09	0.52
3:AC:147:LYS:HB3	3:AC:203:PHE:CE2	2.45	0.52
1:AA:59:A:N3	1:AA:59:A:H2'	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:26:ASN:ND2	20:AT:26:ASN:N	2.56	0.52
35:BA:1279:G:H2'	35:BA:1280:G:H8	1.74	0.52
48:BR:117:VAL:O	48:BR:118:GLU:HB2	2.10	0.52
48:BR:52:ILE:CD1	48:BR:79:LEU:HD21	2.40	0.52
43:BI:68:LEU:CD2	43:BI:136:VAL:HG11	2.40	0.52
27:D1:37:ILE:HD12	35:DA:2080:G:P	2.50	0.52
1:CA:741:G:H5'	15:CO:39:LEU:HD21	1.91	0.52
15:CO:66:LEU:H	15:CO:66:LEU:HD12	1.73	0.52
2:CB:69:LEU:HB2	2:CB:159:PRO:CG	2.39	0.52
35:DA:811:U:H1'	35:DA:1251:C:H5''	1.91	0.52
35:DA:2066:C:O2'	35:DA:2067:G:H5'	2.10	0.52
35:DA:196:A:C5'	46:DP:46:LYS:HZ1	2.22	0.52
1:AA:1221:G:OP1	19:AS:36:ARG:HD3	2.08	0.52
1:AA:569:C:N4	1:AA:881:G:H1	2.07	0.52
12:AL:7:ILE:O	12:AL:10:LEU:HB2	2.10	0.52
4:AD:58:LEU:O	4:AD:60:GLU:N	2.43	0.52
4:AD:61:LYS:HA	4:AD:203:VAL:CG2	2.32	0.52
43:DI:98:ALA:O	43:DI:109:ILE:HG21	2.10	0.52
35:DA:1917:U:H2'	35:DA:1918:A:C8	2.44	0.52
1:CA:185:A:H61	1:CA:192:U:H3	1.58	0.52
20:CT:81:LYS:O	20:CT:85:MET:HG2	2.10	0.52
1:CA:569:C:N4	1:CA:881:G:H1	2.07	0.52
12:AL:86:ARG:CG	12:AL:87:GLY:N	2.73	0.52
35:BA:2250:G:C8	35:BA:2496:C:H5''	2.44	0.52
8:CH:129:VAL:HG23	8:CH:130:GLY:N	2.15	0.52
1:AA:640:A:O2'	1:AA:641:U:H5'	2.10	0.52
1:AA:197:A:N3	1:AA:198:G:H1'	2.25	0.52
12:AL:46:LYS:CG	12:AL:47:LYS:H	2.08	0.52
1:AA:875:C:O2'	8:AH:14:ARG:NH1	2.43	0.52
33:D7:29:LYS:O	33:D7:33:ARG:N	2.39	0.52
38:DD:44:ASN:ND2	38:DD:47:GLY:O	2.42	0.52
40:BF:9:ILE:O	40:BF:128:ALA:HB2	2.10	0.52
15:AO:12:ILE:C	15:AO:14:GLU:H	2.13	0.52
3:AC:106:VAL:HG12	3:AC:108:ASN:H	1.74	0.52
35:DA:149:A:C2	35:DA:150:C:C2	2.97	0.52
54:DX:62:LYS:HD2	54:DX:68:ARG:HD2	1.92	0.52
17:CQ:71:PHE:N	17:CQ:71:PHE:HD2	2.07	0.52
38:BD:142:VAL:HG22	38:BD:143:HIS:N	2.25	0.52
5:CE:92:LYS:HB2	5:CE:119:LEU:HB2	1.91	0.52
35:BA:554:U:C2'	35:BA:555:U:H5'	2.40	0.52
19:CS:33:THR:HG21	19:CS:51:VAL:HG22	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:745:G:H2'	35:DA:746:A:H5'	1.90	0.52
35:BA:1300:U:O2	35:BA:1626:G:C4	2.63	0.52
35:BA:1301:A:H2	35:BA:1626:G:H21	1.57	0.52
2:CB:136:VAL:O	2:CB:140:HIS:HB2	2.09	0.52
35:DA:1424:G:O2'	35:DA:1425:G:H5'	2.09	0.52
1:AA:337:C:O2'	1:AA:338:A:H5'	2.10	0.52
12:CL:38:THR:HG23	12:CL:39:VAL:N	2.24	0.52
35:BA:268:C:C2'	35:BA:268:C:O2	2.55	0.52
35:BA:1720:U:H2'	35:BA:1721:G:H5'	1.91	0.52
1:AA:1365:G:C2'	1:AA:1366:C:H5'	2.40	0.52
46:BP:58:THR:O	46:BP:61:ARG:NE	2.43	0.52
43:DI:49:ALA:HA	43:DI:52:ARG:CG	2.37	0.52
1:AA:1521:G:H2'	1:AA:1522:U:H6	1.74	0.52
37:DC:23:ASP:C	37:DC:25:ALA:H	2.13	0.52
1:CA:1155:G:O2'	1:CA:1156:G:H5'	2.09	0.52
19:AS:22:LEU:C	19:AS:24:ALA:H	2.11	0.52
35:DA:2839:G:H21	48:DR:92:GLY:HA3	1.74	0.52
1:CA:355:C:C4	1:CA:356:A:N7	2.77	0.52
1:CA:486:U:O2'	1:CA:487:A:H5'	2.09	0.52
35:BA:840:C:O2'	35:BA:841:A:H5'	2.09	0.52
35:DA:407:G:H2'	35:DA:408:G:C8	2.45	0.52
35:BA:2181:G:H2'	35:BA:2182:G:C8	2.45	0.52
35:DA:1668:A:N3	35:DA:1670:C:C4	2.78	0.52
25:CY:63:PRO:O	25:CY:65:THR:N	2.36	0.52
35:BA:2593:U:H2'	35:BA:2594:C:C6	2.44	0.52
1:CA:1037:C:H2'	1:CA:1038:C:C6	2.45	0.52
2:AB:221:LEU:O	2:AB:221:LEU:HD13	2.09	0.52
1:AA:423:G:H2'	1:AA:424:G:O4'	2.09	0.52
35:DA:785:G:C4	35:DA:786:C:C5	2.97	0.52
37:DC:77:ILE:O	37:DC:77:ILE:HG12	2.08	0.52
45:DO:104:ARG:CZ	50:DT:33:LYS:HD2	2.39	0.52
1:CA:950:U:H1'	1:CA:971:G:N7	2.24	0.52
35:DA:1791:A:N6	35:DA:1828:G:O2'	2.42	0.52
35:DA:2304:G:O2'	41:DG:133:LEU:HA	2.10	0.52
41:DG:132:ASN:HD22	41:DG:133:LEU:N	2.08	0.52
41:DG:35:GLU:OE2	41:DG:160:VAL:HG11	2.09	0.52
34:B8:29:LYS:HZ3	34:B8:44:LYS:HB2	1.74	0.52
45:BO:85:VAL:HG12	45:BO:86:ILE:N	2.25	0.52
56:BZ:4:ARG:HB3	56:BZ:60:GLU:HG3	1.92	0.52
39:DE:142:GLY:C	39:DE:143:ASN:HD22	2.13	0.52
29:B3:32:GLN:HB2	35:BA:1158:C:H4'	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1151:G:H5''	51:BU:81:HIS:CE1	2.45	0.52
42:DH:102:ALA:HB2	42:DH:117:PRO:CD	2.21	0.52
42:DH:130:ARG:HB2	42:DH:130:ARG:NH1	2.25	0.52
35:DA:2809:A:C2	35:DA:2892:A:N3	2.77	0.52
39:DE:47:VAL:CG2	39:DE:84:PHE:O	2.57	0.52
35:DA:1860:G:H5''	37:DC:204:ALA:O	2.10	0.52
27:B1:73:LEU:HD21	27:B1:94:LEU:CD2	2.36	0.52
35:BA:2313:C:H5'	35:BA:2313:C:C6	2.44	0.52
41:BG:170:ARG:HH22	41:BG:182:LYS:NZ	2.07	0.52
28:D2:27:GLU:C	28:D2:29:LYS:N	2.56	0.52
54:DX:49:VAL:CG1	54:DX:50:LYS:N	2.70	0.52
56:DZ:102:LEU:HB2	56:DZ:122:ARG:O	2.10	0.52
35:DA:1150:C:C2'	35:DA:1151:G:H5'	2.39	0.52
44:DN:42:TRP:HA	44:DN:42:TRP:HE3	1.74	0.52
10:AJ:7:LYS:O	10:AJ:96:ILE:HA	2.09	0.52
1:CA:1062:U:H2'	1:CA:1063:C:C5	2.44	0.52
19:CS:70:LYS:H	19:CS:70:LYS:HD2	1.74	0.52
35:DA:2383:G:O2'	35:DA:2384:G:H5'	2.10	0.52
4:CD:170:VAL:HG22	4:CD:171:GLY:H	1.75	0.52
4:CD:170:VAL:HG13	4:CD:174:LEU:HB2	1.90	0.52
4:CD:62:GLN:O	4:CD:63:LYS:C	2.48	0.52
47:BQ:35:VAL:HG22	47:BQ:100:GLY:O	2.09	0.52
40:BF:192:LEU:HD21	40:BF:194:MET:HE2	1.91	0.52
40:BF:2:LYS:CG	40:BF:25:PRO:HB2	2.22	0.52
27:D1:46:LEU:HA	35:DA:396:G:O3'	2.10	0.52
35:DA:1141:U:H5''	35:DA:1142(A):A:O4'	2.10	0.52
35:BA:2413:G:H21	46:BP:70:GLN:NE2	2.07	0.52
35:BA:991:C:N4	35:BA:1163:G:H1	2.07	0.52
35:BA:796:C:O2'	35:BA:797:C:H5'	2.09	0.52
40:DF:123:LEU:HD12	40:DF:124:LEU:H	1.75	0.52
1:AA:1427:U:O2'	1:AA:1428:A:H5'	2.10	0.52
50:BT:113:LYS:C	50:BT:114:LEU:HD23	2.30	0.52
49:DS:32:LEU:O	49:DS:33:LYS:HB2	2.09	0.52
2:CB:212:GLN:HE22	2:CB:216:SER:HB2	1.75	0.52
40:DF:89:VAL:HG12	40:DF:90:PHE:H	1.75	0.52
17:AQ:29:HIS:HA	17:AQ:36:ILE:HD11	1.91	0.52
39:DE:152:LYS:HZ3	44:DN:78:TYR:CB	2.22	0.52
16:AP:4:ILE:HB	16:AP:66:PRO:CB	2.32	0.52
43:BI:9:LEU:H	43:BI:13:GLY:HA2	1.74	0.52
1:CA:184:G:O2'	1:CA:185:A:H5'	2.09	0.52
25:AY:126:ARG:O	25:AY:129:ILE:HB	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BI:94:ALA:HA	43:BI:97:ILE:HB	1.91	0.52
40:DF:34:TRP:HB3	46:DP:11:GLY:HA3	1.91	0.52
9:AI:4:TYR:CB	9:AI:19:LEU:HB2	2.37	0.52
29:B3:54:VAL:HG12	29:B3:55:ARG:N	2.24	0.52
35:BA:1036:G:O2'	35:BA:1037:G:H5'	2.09	0.52
35:BA:2298:A:H62	35:BA:2318:G:H8	1.54	0.52
56:BZ:112:ARG:O	56:BZ:113:ALA:HB2	2.09	0.52
38:DD:130:ALA:HB2	38:DD:192:THR:HB	1.91	0.52
35:DA:1986:A:C2'	35:DA:1987:G:H5''	2.40	0.52
39:DE:201:THR:CG2	39:DE:202:LYS:N	2.72	0.52
17:CQ:43:LEU:HD12	17:CQ:68:ARG:HG3	1.92	0.52
35:BA:445:C:H5''	51:BU:3:ARG:HB3	1.90	0.52
35:DA:1612:C:H2'	35:DA:1613:G:O5'	2.09	0.52
1:CA:814:A:H2'	1:CA:816:A:H5''	1.92	0.52
13:AM:64:TRP:HE1	13:AM:66:LEU:HD12	1.75	0.52
26:B0:53:MET:HG3	26:B0:59:LEU:HD23	1.91	0.52
35:BA:738:G:C6	35:BA:739:G:C2	2.98	0.52
41:BG:139:LEU:HD22	41:BG:146:TYR:CE1	2.44	0.52
8:AH:53:VAL:O	8:AH:54:ASP:HB2	2.09	0.52
38:BD:9:TYR:HD2	38:BD:10:THR:HG22	1.73	0.52
35:BA:1720:U:H2'	35:BA:1721:G:O4'	2.09	0.52
35:BA:1445(A):C:H2'	35:BA:1446:C:H6	1.74	0.52
35:DA:154:G:H2'	35:DA:154(A):C:O2	2.08	0.52
45:DO:88:ASN:O	45:DO:91:LEU:N	2.42	0.52
35:BA:265:A:H1'	35:BA:266:G:C1'	2.38	0.52
1:AA:885:G:H1	1:AA:912:C:H42	1.57	0.52
1:CA:1354:C:O2'	1:CA:1355:G:H5'	2.10	0.52
45:DO:26:LYS:HB2	45:DO:30:ALA:CB	2.40	0.52
45:BO:26:LYS:HB2	45:BO:30:ALA:CB	2.39	0.52
28:D2:57:ILE:HD11	28:D2:59:ARG:HH11	1.73	0.52
35:BA:1181:C:H2'	35:BA:1182:A:C8	2.45	0.52
46:BP:138:LEU:HD23	46:BP:142:GLY:HA3	1.92	0.52
6:AF:100:ASN:HB3	18:AR:28:GLU:HA	1.92	0.52
1:CA:509:A:H2'	1:CA:510:A:C8	2.45	0.52
2:AB:114:ARG:HA	2:AB:117:GLU:OE1	2.10	0.52
20:CT:58:LYS:O	20:CT:62:LEU:HB2	2.09	0.52
1:CA:401:C:H6	1:CA:401:C:O5'	1.93	0.52
1:CA:1332:A:H2'	1:CA:1333:A:C8	2.45	0.52
1:CA:1333:A:C2	1:CA:1334:G:H1'	2.45	0.52
1:AA:914:A:O2'	1:AA:915:A:H5'	2.10	0.52
23:CW:64:G:H2'	23:CW:65:G:O4'	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:B0:19:LYS:C	26:B0:20:ARG:HD3	2.30	0.52
35:DA:2845:G:H2'	35:DA:2846:G:H8	1.75	0.52
45:DO:1:MET:CG	45:DO:32:TYR:HD2	2.23	0.52
1:CA:1207:G:O2'	1:CA:1208:C:H5'	2.10	0.52
9:CI:114:TYR:HE1	10:CJ:60:ARG:H	1.56	0.52
38:BD:54:ARG:H	38:BD:218:ARG:HG3	1.74	0.52
38:BD:65:ILE:HD11	38:BD:67:PHE:CE1	2.44	0.52
38:BD:92:ILE:HA	38:BD:107:ALA:CB	2.40	0.52
35:DA:1899:G:O2'	35:DA:1900:A:H5''	2.10	0.52
35:DA:782:A:C2	38:DD:226:MET:HE2	2.44	0.52
38:DD:24:ILE:O	38:DD:26:LYS:N	2.43	0.52
35:DA:2312:U:OP1	41:DG:74:LYS:N	2.43	0.52
41:DG:125:PHE:HE2	41:DG:173:LEU:CD1	2.23	0.52
38:BD:14:ARG:CG	38:BD:14:ARG:HH11	2.23	0.52
50:BT:51:ARG:HH11	50:BT:51:ARG:HG3	1.74	0.52
16:AP:22:THR:CG2	16:AP:32:TYR:HA	2.40	0.52
51:BU:88:ILE:HA	51:BU:90:VAL:HG23	1.92	0.52
51:BU:92:ARG:NH2	52:BV:10:LYS:HA	2.25	0.52
52:BV:3:ALA:O	52:BV:13:ARG:HA	2.10	0.52
28:B2:12:GLU:O	28:B2:12:GLU:CD	2.48	0.52
28:B2:16:LEU:O	28:B2:20:GLU:HG3	2.10	0.52
28:B2:51:ARG:CD	28:B2:51:ARG:O	2.58	0.52
39:DE:36:ARG:HA	39:DE:46:ALA:O	2.10	0.52
27:B1:19:GLN:O	27:B1:42:GLN:HB3	2.09	0.52
41:BG:114:ILE:HG22	41:BG:115:ARG:H	1.74	0.52
41:BG:133:LEU:HD13	41:BG:134:GLY:O	2.10	0.52
41:BG:83:ARG:O	41:BG:85:GLY:O	2.28	0.52
54:DX:29:TRP:HA	54:DX:29:TRP:HE3	1.75	0.52
54:DX:53:LYS:HZ2	54:DX:55:ASN:ND2	2.08	0.52
35:DA:58:G:OP1	54:DX:72:LYS:CB	2.58	0.52
34:D8:34:TRP:CZ3	34:D8:41:ILE:HG23	2.44	0.52
41:BG:29:TRP:C	41:BG:31:VAL:H	2.12	0.52
49:BS:26:LEU:CD2	49:BS:26:LEU:O	2.57	0.52
49:BS:36:TYR:HA	49:BS:52:SER:CB	2.40	0.52
36:BB:50:G:OP2	49:BS:62:LYS:HG3	2.09	0.52
1:CA:437:U:C2'	1:CA:438:G:H5'	2.40	0.52
4:CD:15:GLU:C	4:CD:17:VAL:H	2.11	0.52
4:CD:60:GLU:O	4:CD:61:LYS:C	2.47	0.52
47:BQ:35:VAL:HG22	47:BQ:101:ARG:O	2.09	0.52
35:BA:236:C:O2'	35:BA:237:C:H5'	2.09	0.52
40:BF:125:LEU:HB3	40:BF:196:LEU:CD2	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BP:6:LEU:O	46:BP:6:LEU:HD23	2.10	0.52
35:DA:1022:G:O2'	35:DA:1023:U:P	2.67	0.52
34:B8:49:VAL:CB	34:B8:53:PRO:HD3	2.39	0.52
34:B8:56:GLU:C	34:B8:58:ILE:N	2.62	0.52
40:DF:125:LEU:HD11	40:DF:199:TRP:CG	2.45	0.52
35:BA:911:A:H5''	35:BA:912:C:H5''	1.90	0.52
3:AC:182:ILE:HG23	3:AC:203:PHE:N	2.25	0.52
20:AT:26:ASN:CB	20:AT:71:THR:HG23	2.36	0.52
50:BT:100:TYR:C	50:BT:102:ILE:N	2.63	0.52
49:DS:107:GLU:HG3	49:DS:108:GLY:N	2.25	0.52
2:AB:167:PRO:HD2	2:AB:188:ALA:HB2	1.90	0.52
44:DN:58:ASP:C	44:DN:60:ILE:N	2.56	0.52
34:D8:56:GLU:O	34:D8:57:ARG:C	2.47	0.52
46:DP:40:SER:C	46:DP:41:ARG:HD2	2.30	0.52
1:AA:437:U:C2'	1:AA:438:G:H5'	2.40	0.52
19:AS:70:LYS:H	19:AS:70:LYS:HD2	1.74	0.52
35:DA:1748:G:H8	35:DA:1748:G:H5'	1.73	0.52
25:CY:14:MET:HE3	25:CY:132:ILE:HB	1.92	0.52
25:CY:155:LYS:O	25:CY:158:GLU:HB3	2.10	0.52
25:AY:133:ARG:HD3	25:AY:165:THR:CG2	2.28	0.52
1:CA:939:G:H5''	7:CG:102:ARG:HH12	1.74	0.52
35:BA:2259:G:H1'	35:BA:2427:C:O2	2.10	0.52
35:BA:2260:C:H2'	35:BA:2261:C:H6	1.74	0.52
22:AV:27:G:H2'	22:AV:28:G:H8	1.74	0.52
35:DA:237:C:O2'	35:DA:238:C:H5'	2.09	0.52
7:CG:153:HIS:CE1	11:CK:57:THR:HG23	2.44	0.52
1:AA:261:U:C6	20:AT:79:ARG:NH1	2.78	0.52
35:DA:1658:C:H2'	35:DA:1659:U:C6	2.44	0.52
35:BA:2536:G:C6	35:BA:2537:U:C4	2.97	0.52
8:CH:40:ALA:HB2	8:CH:45:ILE:CD1	2.39	0.52
12:AL:70:ILE:CD1	12:AL:70:ILE:N	2.66	0.52
35:DA:354:G:H8	35:DA:354:G:O5'	1.93	0.52
9:CI:50:LEU:O	9:CI:55:ALA:HB3	2.10	0.52
46:DP:107:LYS:O	46:DP:109:GLY:N	2.40	0.52
56:BZ:108:PRO:CB	56:BZ:142:SER:O	2.58	0.52
35:BA:1980:G:C2	35:BA:1982:C:C4	2.97	0.52
35:BA:2119:A:H3'	35:BA:2120:G:H5''	1.91	0.52
39:DE:103:ASP:CG	39:DE:201:THR:HA	2.29	0.52
29:D3:56:VAL:CG1	29:D3:57:GLU:H	2.05	0.52
40:DF:170:LEU:HD23	40:DF:173:VAL:CG2	2.39	0.52
35:BA:2115:G:O2'	35:BA:2116:G:H5''	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:137:ASP:O	42:BH:138:LYS:CB	2.57	0.52
44:DN:107:LEU:HD12	44:DN:108:PRO:C	2.30	0.52
19:CS:60:VAL:O	19:CS:60:VAL:HG13	2.09	0.52
35:DA:1614:A:C6	53:DW:93:ALA:HB2	2.45	0.52
1:CA:577:G:C4	1:CA:816:A:C2	2.98	0.52
17:CQ:95:TYR:C	17:CQ:97:SER:N	2.63	0.52
44:BN:107:LEU:HD12	44:BN:108:PRO:C	2.30	0.52
35:BA:2290:G:H2'	35:BA:2291:U:O4'	2.10	0.52
6:AF:14:LEU:HD13	6:AF:15:ASP:O	2.10	0.52
7:AG:21:VAL:HG23	7:AG:22:LEU:N	2.24	0.52
11:AK:125:PHE:N	11:AK:125:PHE:CD1	2.78	0.52
55:DY:49:VAL:O	55:DY:50:ARG:HB2	2.09	0.52
53:DW:70:TYR:O	53:DW:107:LEU:HG	2.10	0.52
56:DZ:100:VAL:HG22	56:DZ:136:PHE:HA	1.91	0.52
1:AA:240:C:H2'	1:AA:241:C:H6	1.74	0.52
18:AR:19:LYS:O	18:AR:20:ALA:CB	2.58	0.52
56:DZ:61:LEU:O	56:DZ:63:ASP:N	2.39	0.52
19:AS:27:GLU:O	19:AS:28:LYS:HD2	2.09	0.52
50:BT:3:ARG:O	50:BT:4:GLY:C	2.48	0.52
35:DA:2840:C:H2'	35:DA:2841:C:C6	2.44	0.52
38:BD:166:GLN:N	38:BD:166:GLN:NE2	2.58	0.52
35:BA:271(F):C:H2'	35:BA:271(G):C:H6	1.75	0.52
37:DC:44:HIS:HD2	37:DC:175:VAL:N	2.08	0.52
35:BA:271(L):U:H4'	35:BA:271(M):G:N7	2.24	0.52
35:BA:2368:C:H2'	35:BA:2369:A:C8	2.44	0.52
35:BA:1014:U:H2'	35:BA:1015:G:C8	2.45	0.52
35:DA:991:C:N4	35:DA:1163:G:H1	2.07	0.52
35:BA:474:G:H4'	35:BA:475:U:OP1	2.10	0.52
27:B1:31:GLY:O	35:BA:2397:G:H5'	2.09	0.52
43:BI:127:VAL:O	43:BI:127:VAL:HG12	2.09	0.52
35:BA:711:G:O2'	35:BA:712:G:H5'	2.10	0.52
1:CA:70:G:H2'	1:CA:71:C:C6	2.45	0.52
53:BW:29:LEU:HD23	53:BW:30:GLU:N	2.25	0.52
45:DO:34:THR:O	45:DO:37:ASP:OD2	2.27	0.52
45:DO:77:ILE:HD11	50:DT:72:VAL:HG13	1.92	0.52
50:DT:50:ILE:H	50:DT:50:ILE:HD12	1.74	0.52
38:BD:211:ARG:O	38:BD:212:SER:C	2.48	0.52
35:DA:782:A:C2	38:DD:226:MET:CE	2.93	0.52
35:DA:1819:A:H5''	38:DD:161:THR:CG2	2.40	0.52
35:BA:2850:A:C2'	35:BA:2851:A:H8	2.16	0.52
36:BB:104:U:H2'	36:BB:105:A:H8	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BZ:3:TYR:O	56:BZ:57:ILE:HG23	2.09	0.52
56:BZ:27:VAL:O	56:BZ:87:ASP:HA	2.10	0.52
39:DE:119:ARG:NH1	39:DE:159:HIS:O	2.42	0.52
35:BA:2632:A:N3	39:BE:61:ARG:NH1	2.57	0.52
39:BE:50:GLY:CA	39:BE:74:PRO:HG3	2.40	0.52
51:BU:74:LEU:HD11	51:BU:79:PHE:HB2	1.92	0.52
42:DH:130:ARG:HH11	42:DH:130:ARG:HB2	1.75	0.52
35:BA:1341:U:OP1	35:BA:1397:U:N3	2.41	0.52
35:BA:139:G:H1	35:BA:142(A):C:H42	1.55	0.52
35:DA:2632:A:N3	39:DE:61:ARG:NH1	2.58	0.52
39:DE:60:ASN:O	39:DE:63:LEU:N	2.43	0.52
27:B1:48:LYS:HD2	27:B1:61:ARG:HG2	1.91	0.52
2:AB:74:LYS:CG	2:AB:77:ALA:HB3	2.39	0.52
41:BG:125:PHE:CD2	41:BG:131:TYR:HB2	2.45	0.52
41:BG:171:ALA:O	41:BG:172:LEU:C	2.48	0.52
55:DY:96:ILE:HG13	55:DY:99:CYS:HB2	1.90	0.52
35:DA:60:G:N2	35:DA:74:A:H2'	2.25	0.52
52:DV:5:VAL:HG23	52:DV:37:VAL:H	1.75	0.52
3:CC:47:LEU:CD2	3:CC:52:LEU:HD13	2.40	0.52
47:BQ:101:ARG:HG2	47:BQ:102:VAL:N	2.25	0.52
35:DA:2639:A:H3'	35:DA:2640:G:H5'	1.92	0.52
35:BA:1142(A):A:C5	35:BA:1144:G:C5	2.98	0.52
44:BN:97:ARG:HB3	44:BN:101:HIS:HD2	1.75	0.52
35:BA:199:A:N3	35:BA:2433:A:C2	2.77	0.52
35:BA:815:C:OP2	52:BV:84:LYS:HE3	2.09	0.52
40:BF:89:VAL:C	40:BF:91:GLY:H	2.13	0.52
46:BP:47:ASP:HB2	46:BP:51:PHE:CD2	2.44	0.52
40:DF:108:LYS:O	40:DF:112:MET:SD	2.68	0.52
40:DF:185:ASP:O	40:DF:189:THR:HG23	2.09	0.52
48:DR:2:ARG:HE	48:DR:5:LYS:HZ2	1.57	0.52
35:DA:2821:A:OP2	48:DR:2:ARG:NH2	2.42	0.52
20:AT:30:LYS:HZ3	20:AT:72:LEU:HD21	1.75	0.52
2:CB:212:GLN:HE22	2:CB:216:SER:CB	2.22	0.52
44:BN:26:LEU:HD21	44:BN:99:LEU:HD11	1.91	0.52
15:CO:17:ARG:NH1	15:CO:77:ARG:NH1	2.57	0.52
35:DA:309:G:H4'	55:DY:18:GLY:HA3	1.92	0.52
4:AD:202:LEU:C	4:AD:204:ILE:N	2.62	0.52
4:AD:62:GLN:HB3	4:AD:66:ARG:CZ	2.40	0.52
18:AR:22:VAL:HA	18:AR:25:THR:HG1	1.73	0.52
1:CA:1495:U:H2'	1:CA:1496:C:H6	1.74	0.52
51:DU:18:LEU:HD21	51:DU:22:LYS:HE2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:108:ARG:NH2	13:CM:114:ARG:HG2	2.24	0.52
7:AG:88:PRO:O	7:AG:89:MET:HB3	2.09	0.52
12:CL:8:ASN:O	12:CL:11:VAL:HB	2.09	0.52
35:BA:1604:C:O2'	35:BA:1605:C:H5'	2.10	0.52
55:BY:13:VAL:HG12	55:BY:14:LEU:N	2.24	0.52
35:BA:85:G:O5'	55:BY:30:VAL:HB	2.08	0.52
2:CB:175:ARG:O	2:CB:176:GLU:C	2.47	0.52
23:AW:41:C:H2'	23:AW:42:C:C6	2.45	0.52
1:AA:960:U:O2	1:AA:960:U:H2'	2.10	0.52
8:AH:122:ARG:NH1	8:AH:122:ARG:HB2	2.25	0.52
42:BH:45:VAL:O	42:BH:45:VAL:HG12	2.09	0.52
1:CA:1343:G:H4'	9:CI:122:ALA:O	2.10	0.52
12:CL:90:VAL:C	12:CL:92:ASP:H	2.13	0.52
1:AA:380:G:N1	1:AA:384:G:C6	2.78	0.52
40:BF:171:PRO:HG2	40:BF:172:TRP:H	1.74	0.52
35:BA:1982:C:C2	35:BA:1983:C:C5	2.98	0.52
1:CA:269:C:H2'	1:CA:270:A:H8	1.75	0.52
1:CA:491:G:H2'	1:CA:492:G:H8	1.74	0.52
1:CA:237:C:C4'	17:CQ:25:ARG:HH12	2.18	0.52
3:CC:178:LEU:HD22	3:CC:178:LEU:N	2.25	0.52
1:AA:1253:G:O2'	1:AA:1254:C:H5'	2.10	0.52
12:CL:119:LYS:C	12:CL:120:TYR:CD1	2.83	0.52
35:BA:2464:C:O2'	35:BA:2465:C:H6	1.93	0.52
35:DA:2774:C:H2'	35:DA:2775:A:H8	1.75	0.52
35:BA:1907:G:O2'	35:BA:1908:C:H5'	2.09	0.52
39:DE:128:SER:O	39:DE:129:HIS:CB	2.56	0.52
25:AY:80:GLU:C	25:AY:82:ALA:N	2.63	0.52
10:AJ:33:GLN:O	10:AJ:75:ILE:HG12	2.10	0.52
1:CA:167:G:O2'	1:CA:168:G:H5'	2.10	0.52
26:D0:72:ARG:CD	26:D0:75:LEU:HD13	2.38	0.52
7:CG:143:ARG:HB2	7:CG:143:ARG:NH1	2.23	0.52
35:BA:920:G:H2'	35:BA:921:G:C8	2.42	0.52
36:DB:60:C:C2	36:DB:61:G:C8	2.98	0.52
35:BA:1766:U:O2'	35:BA:1767:C:H5'	2.09	0.52
35:BA:2889:C:O2	35:BA:2889:C:H2'	2.09	0.52
51:BU:24:TYR:HB2	51:BU:29:SER:CB	2.40	0.52
37:BC:76:ALA:H	37:BC:94:VAL:HG13	1.74	0.52
37:BC:73:ARG:HA	37:BC:92:ASP:OD1	2.10	0.52
2:AB:9:GLU:O	2:AB:13:ALA:HB2	2.10	0.52
23:CW:38:A:H5'	23:CW:39:A:OP2	2.10	0.52
35:DA:338:G:H2'	35:DA:339:U:C6	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:711:G:O2'	35:DA:712:G:H5'	2.10	0.52
45:DO:37:ASP:O	45:DO:61:VAL:HA	2.10	0.52
35:DA:1667:G:OP1	45:DO:7:TYR:HB2	2.10	0.52
41:DG:16:ARG:HB3	41:DG:17:PRO:CD	2.40	0.52
1:AA:806:C:O2'	1:AA:807:A:H5'	2.11	0.52
35:BA:1779:U:C2	35:BA:1783:A:N7	2.78	0.52
35:DA:1803:A:C8	35:DA:1804:C:C5	2.98	0.52
38:DD:65:ILE:HD11	38:DD:67:PHE:CD1	2.44	0.52
41:DG:114:ILE:HD12	41:DG:117:PHE:CD1	2.45	0.52
41:DG:46:ALA:HA	41:DG:51:ARG:CD	2.40	0.52
41:DG:86:MET:N	41:DG:87:PRO:CD	2.73	0.52
10:CJ:7:LYS:O	10:CJ:96:ILE:HA	2.10	0.52
47:DQ:20:ALA:HB2	47:DQ:99:PRO:CD	2.40	0.52
35:BA:1990:C:H2'	35:BA:1991:U:O4'	2.10	0.52
45:BO:87:ILE:CG2	45:BO:88:ASN:N	2.72	0.52
39:BE:59:VAL:CG1	39:BE:63:LEU:HG	2.40	0.52
35:BA:2810:A:H2'	39:BE:61:ARG:NH2	2.25	0.52
51:BU:112:ARG:HG2	51:BU:112:ARG:HH11	1.75	0.52
34:D8:60:LEU:N	34:D8:60:LEU:CD2	2.72	0.52
54:BX:29:TRP:HE3	54:BX:29:TRP:HA	1.75	0.52
54:BX:85:PRO:O	54:BX:86:GLY:C	2.48	0.52
2:AB:74:LYS:HG3	2:AB:77:ALA:HB3	1.92	0.52
36:BB:45:A:N3	36:BB:45:A:H2'	2.23	0.52
28:D2:22:GLU:C	28:D2:24:LEU:H	2.13	0.52
42:BH:147:ASN:O	42:BH:150:ALA:HB3	2.09	0.52
51:DU:59:ARG:O	51:DU:60:LEU:C	2.48	0.52
1:AA:1208:C:H2'	1:AA:1209:C:H6	1.75	0.52
47:DQ:59:ARG:HG3	47:DQ:59:ARG:HH11	1.75	0.52
3:CC:141:VAL:HG11	3:CC:202:ILE:HD12	1.91	0.52
49:BS:13:ARG:H	49:BS:13:ARG:CD	1.99	0.52
27:D1:59:THR:HG23	27:D1:59:THR:O	2.09	0.52
35:BA:1195:G:H2'	35:BA:1196:C:H6	1.74	0.52
35:BA:1227:G:OP2	51:BU:16:LYS:HE3	2.10	0.52
35:BA:836:G:H2'	35:BA:837:C:H6	1.72	0.52
40:DF:7:TYR:HB3	40:DF:16:GLY:O	2.09	0.52
35:BA:910:A:H2'	35:BA:911:A:C8	2.44	0.52
39:BE:110:GLY:O	48:BR:2:ARG:NH2	2.43	0.52
3:AC:141:VAL:HG11	3:AC:202:ILE:HD12	1.92	0.52
20:AT:14:LYS:HE3	20:AT:18:GLN:NE2	2.25	0.52
20:AT:41:ILE:O	20:AT:43:LEU:N	2.43	0.52
48:BR:28:LEU:C	48:BR:30:THR:H	2.13	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D1:23:LYS:C	27:D1:37:ILE:HG12	2.30	0.52
56:BZ:146:ILE:O	56:BZ:148:ASP:N	2.43	0.52
15:CO:81:LEU:O	15:CO:84:LYS:HB2	2.09	0.52
2:CB:163:PHE:O	2:CB:164:VAL:HG23	2.10	0.52
2:CB:82:ARG:HB2	2:CB:94:ASN:ND2	2.24	0.52
35:DA:251:A:H2'	35:DA:252:G:O4'	2.09	0.52
35:DA:587:C:C5	35:DA:671:C:H1'	2.44	0.52
19:AS:36:ARG:CZ	19:AS:75:ALA:HB3	2.39	0.52
35:DA:109:G:O2'	35:DA:110:G:H5'	2.10	0.52
55:DY:14:LEU:CD1	55:DY:15:VAL:H	2.19	0.52
4:AD:13:ARG:HD3	4:AD:39:PRO:C	2.30	0.52
4:AD:61:LYS:HG2	4:AD:75:PHE:HE2	1.75	0.52
25:CY:117:ALA:O	25:CY:120:GLN:HB3	2.09	0.52
12:AL:85:ILE:HD11	12:AL:98:TYR:HB2	1.90	0.52
33:B7:8:ASN:HD22	33:B7:8:ASN:C	2.12	0.52
35:BA:104:U:O5'	35:BA:104:U:H6	1.92	0.52
1:AA:692:U:H5	11:AK:26:ASN:ND2	2.08	0.52
11:CK:60:ALA:O	11:CK:61:ALA:C	2.49	0.52
1:AA:1504:G:OP1	1:AA:1507:A:H4'	2.09	0.52
1:CA:806:C:O2'	1:CA:807:A:H5'	2.09	0.52
54:DX:25:LYS:O	54:DX:26:TYR:O	2.28	0.52
42:BH:35:VAL:HG12	42:BH:35:VAL:O	2.10	0.52
42:BH:40:GLU:O	42:BH:41:MET:HB2	2.10	0.52
19:AS:53:ASN:N	19:AS:53:ASN:HD22	2.06	0.52
16:CP:72:ARG:C	16:CP:74:LEU:N	2.63	0.52
46:BP:74:GLU:HA	46:BP:74:GLU:OE2	2.10	0.52
29:D3:54:VAL:HG12	29:D3:55:ARG:N	2.24	0.52
1:CA:444:C:H2'	1:CA:445:G:C8	2.41	0.52
40:DF:154:VAL:HB	40:DF:173:VAL:HG22	1.90	0.52
5:AE:79:GLU:N	5:AE:79:GLU:OE1	2.40	0.52
1:CA:328:C:C2'	1:CA:328:C:O2	2.58	0.52
1:CA:237:C:H5''	17:CQ:25:ARG:NH1	2.25	0.52
35:DA:188:G:H1'	35:DA:1365:A:N1	2.25	0.52
38:BD:112:GLN:N	38:BD:112:GLN:OE1	2.43	0.52
12:AL:21:LYS:CD	12:AL:21:LYS:H	2.10	0.52
33:B7:11:LYS:O	33:B7:14:LYS:N	2.41	0.52
1:AA:894:G:H2'	1:AA:895:G:H8	1.75	0.52
35:BA:970:C:H2'	35:BA:971:C:C6	2.44	0.52
46:DP:56:SER:C	46:DP:58:THR:H	2.13	0.52
9:AI:65:VAL:CG2	9:AI:66:ARG:N	2.72	0.52
35:BA:1289:C:H2'	35:BA:1290:C:H6	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:39:LEU:HD12	15:AO:56:LEU:CD1	2.40	0.52
35:DA:1335:U:H2'	35:DA:1336:A:H8	1.74	0.52
29:D3:41:PRO:HD3	29:D3:44:ARG:CZ	2.40	0.52
27:B1:8:SER:HA	35:BA:1365:A:OP2	2.10	0.52
1:CA:1300:G:O2'	1:CA:1301:U:O5'	2.26	0.52
35:DA:174:C:O2	35:DA:174:C:H2'	2.09	0.52
55:DY:101:LYS:CG	55:DY:102:CYS:N	2.72	0.52
4:CD:190:ASP:O	4:CD:191:ARG:C	2.48	0.52
7:AG:25:ALA:HA	7:AG:28:ASN:HD22	1.75	0.52
35:DA:2875:C:C4'	50:DT:5:ALA:HB2	2.39	0.52
7:AG:49:ILE:HG22	7:AG:53:LYS:HG3	1.92	0.52
1:AA:764:C:H2'	1:AA:765:G:O4'	2.10	0.52
39:BE:2:LYS:CE	39:BE:95:ILE:HG22	2.39	0.52
1:CA:358:U:O2'	1:CA:359:U:H5'	2.10	0.52
1:AA:1354:C:O2'	1:AA:1355:G:H5'	2.10	0.52
46:DP:100:LEU:H	46:DP:100:LEU:CD2	2.23	0.52
35:BA:1014:U:H2'	35:BA:1015:G:O4'	2.09	0.52
35:DA:1695:G:H2'	35:DA:1696:G:C5'	2.40	0.52
22:CV:35:A:H2'	22:CV:36:A:O4'	2.10	0.52
35:BA:2785:C:H2'	35:BA:2786:U:C6	2.45	0.52
1:AA:44:G:C2	1:AA:45:U:H1'	2.44	0.52
35:DA:2768:C:O2'	35:DA:2769:C:H5'	2.10	0.52
12:AL:20:LYS:H	12:AL:20:LYS:HD3	1.75	0.52
35:DA:197:A:H5'	35:DA:197:A:C8	2.45	0.52
35:BA:335:C:H4'	55:BY:73:ARG:CZ	2.40	0.52
35:DA:2846:G:H2'	35:DA:2847:U:C6	2.44	0.51
50:DT:108:ARG:O	50:DT:112:ARG:HG3	2.10	0.51
50:DT:32:TYR:O	50:DT:33:LYS:CB	2.57	0.51
50:DT:40:THR:O	50:DT:41:ARG:CB	2.48	0.51
50:DT:28:VAL:HB	50:DT:88:ILE:HG12	1.91	0.51
50:DT:91:ARG:HB3	50:DT:115:ARG:O	2.10	0.51
1:CA:972:C:C5'	10:CJ:57:LYS:HG3	2.40	0.51
5:CE:127:ASN:O	5:CE:131:ILE:HG12	2.10	0.51
38:DD:209:ALA:O	38:DD:210:GLY:O	2.28	0.51
16:CP:22:THR:CG2	16:CP:32:TYR:HA	2.39	0.51
10:CJ:34:VAL:HG12	10:CJ:35:SER:H	1.75	0.51
42:DH:117:PRO:HB3	42:DH:123:PHE:HD1	1.75	0.51
42:DH:148:ILE:N	42:DH:148:ILE:HD13	2.25	0.51
54:BX:55:ASN:C	54:BX:77:LYS:CG	2.75	0.51
54:BX:83:VAL:O	54:BX:84:ALA:CB	2.58	0.51
41:BG:16:ARG:HH11	41:BG:16:ARG:HG3	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:163:TYR:CD1	42:BH:163:TYR:N	2.78	0.51
35:DA:2467:C:O2'	35:DA:2468:G:H5'	2.11	0.51
56:DZ:18:LEU:HG	56:DZ:23:LYS:CB	2.40	0.51
52:DV:69:LYS:HB2	52:DV:93:GLU:OE2	2.10	0.51
3:CC:3:ASN:O	3:CC:4:LYS:C	2.48	0.51
36:BB:52:A:HO2'	36:BB:53:A:H8	1.52	0.51
4:CD:110:PHE:HD1	4:CD:110:PHE:H	1.58	0.51
4:CD:110:PHE:HD1	4:CD:110:PHE:N	2.08	0.51
27:D1:72:GLU:O	27:D1:76:ARG:NH2	2.43	0.51
35:DA:2393:A:O2'	35:DA:2394:C:H5'	2.11	0.51
35:BA:1190:G:C4'	46:BP:35:HIS:HB3	2.40	0.51
48:DR:16:HIS:O	48:DR:17:ARG:C	2.49	0.51
3:AC:109:PRO:O	3:AC:115:LEU:HD12	2.10	0.51
1:AA:385:C:H2'	1:AA:386:C:H6	1.75	0.51
49:DS:83:LYS:O	49:DS:85:VAL:HG22	2.10	0.51
44:BN:17:ASP:OD2	44:BN:55:VAL:O	2.27	0.51
34:D8:49:VAL:CB	34:D8:53:PRO:HD3	2.40	0.51
55:DY:68:HIS:HB3	55:DY:71:LYS:HZ3	1.75	0.51
6:AF:39:LYS:HG2	6:AF:40:VAL:N	2.23	0.51
18:AR:25:THR:O	18:AR:26:LEU:HG	2.10	0.51
16:AP:60:LEU:C	16:AP:62:VAL:N	2.64	0.51
25:CY:16:LYS:C	25:CY:18:LEU:N	2.63	0.51
11:AK:102:GLY:O	11:AK:103:LEU:C	2.47	0.51
11:AK:21:ILE:CB	11:AK:84:VAL:HG12	2.39	0.51
11:AK:58:PRO:HD3	11:AK:89:ALA:CB	2.40	0.51
33:B7:16:HIS:CE1	35:BA:684:G:OP1	2.63	0.51
35:DA:2425:A:O4'	35:DA:2427:C:C6	2.63	0.51
35:BA:2280:G:N3	35:BA:2388:A:H2	2.08	0.51
55:BY:10:GLY:HA2	55:BY:27:VAL:CG1	2.31	0.51
55:BY:39:VAL:O	55:BY:40:GLU:HG2	2.10	0.51
13:AM:86:CYS:O	13:AM:89:GLY:N	2.44	0.51
11:CK:103:LEU:CD2	11:CK:103:LEU:N	2.69	0.51
5:AE:31:LEU:CD1	5:AE:129:ILE:HA	2.40	0.51
5:AE:127:ASN:O	5:AE:131:ILE:HG12	2.10	0.51
35:DA:1658:C:OP1	39:DE:132:HIS:O	2.28	0.51
31:B5:30:LEU:HD23	31:B5:41:PRO:CA	2.40	0.51
33:D7:29:LYS:NZ	33:D7:32:LYS:HZ2	2.08	0.51
46:DP:97:PRO:C	46:DP:99:LEU:H	2.13	0.51
1:CA:376:G:H2'	1:CA:377:G:C8	2.46	0.51
35:DA:1301:A:O2'	35:DA:1302:A:C2'	2.56	0.51
17:AQ:43:LEU:HD12	17:AQ:68:ARG:HG3	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DW:17:VAL:C	53:DW:19:LEU:N	2.63	0.51
1:AA:1112:C:C4	3:AC:178:LEU:HD23	2.45	0.51
35:BA:1710:C:O2'	35:BA:1711:C:H5'	2.10	0.51
35:DA:290:G:C2'	35:DA:291:C:H5'	2.40	0.51
13:AM:3:ARG:HA	13:AM:9:ILE:CG1	2.37	0.51
35:BA:1300:U:O2'	35:BA:1301:A:P	2.68	0.51
15:AO:81:LEU:O	15:AO:84:LYS:HB2	2.11	0.51
35:DA:554:U:C2'	35:DA:555:U:H5'	2.41	0.51
1:AA:498:U:C2'	1:AA:499:A:H5'	2.40	0.51
10:AJ:78:ASN:C	10:AJ:80:LYS:N	2.63	0.51
35:DA:1531:C:H3'	35:DA:1532:C:O4'	2.10	0.51
35:BA:2875:C:C4'	50:BT:5:ALA:HB2	2.39	0.51
35:BA:2870:C:O2'	35:BA:2871:C:H5'	2.10	0.51
1:CA:1261:A:H62	1:CA:1274:G:N2	2.07	0.51
53:BW:59:VAL:O	53:BW:61:ASN:N	2.43	0.51
1:CA:1332:A:H2'	1:CA:1333:A:H8	1.75	0.51
35:DA:2359:C:H6	35:DA:2359:C:O5'	1.93	0.51
34:D8:51:ALA:HA	34:D8:54:GLU:OE1	2.10	0.51
51:DU:38:THR:O	51:DU:41:ALA:HB3	2.09	0.51
1:AA:594:G:O2'	1:AA:595:G:H5'	2.09	0.51
1:AA:1333:A:C2	1:AA:1334:G:H1'	2.45	0.51
48:DR:104:ARG:O	48:DR:106:GLY:N	2.43	0.51
49:BS:11:LYS:N	49:BS:11:LYS:HD3	2.24	0.51
35:DA:2511:U:O3'	39:DE:123:ALA:HB3	2.10	0.51
25:AY:105:PRO:O	25:AY:106:LEU:HD23	2.10	0.51
35:BA:2553:G:H2'	35:BA:2554:U:H4'	1.92	0.51
15:AO:75:PRO:O	15:AO:79:ARG:HG3	2.10	0.51
17:AQ:23:VAL:O	17:AQ:39:SER:HB2	2.09	0.51
35:DA:2759:G:H5'	35:DA:2759:G:C8	2.45	0.51
35:DA:2562:U:H2'	35:DA:2563:U:C5'	2.40	0.51
39:DE:9:VAL:HG23	50:DT:8:LYS:HB2	1.92	0.51
50:DT:100:TYR:C	50:DT:102:ILE:N	2.63	0.51
50:DT:28:VAL:CG2	50:DT:46:GLU:HA	2.40	0.51
38:BD:92:ILE:HA	38:BD:107:ALA:HB2	1.92	0.51
47:DQ:20:ALA:O	47:DQ:23:GLY:N	2.34	0.51
50:BT:43:GLN:HG2	50:BT:44:ASP:O	2.11	0.51
56:BZ:156:LYS:O	56:BZ:156:LYS:HG2	2.10	0.51
35:DA:2056:G:N2	35:DA:2057:A:C1'	2.72	0.51
35:BA:998:C:N4	35:BA:1158:C:H42	2.07	0.51
51:BU:92:ARG:NH1	52:BV:11:GLN:O	2.42	0.51
42:DH:147:ASN:O	42:DH:150:ALA:HB3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:24:ALA:HB1	3:AC:28:GLN:O	2.10	0.51
54:BX:29:TRP:HA	54:BX:29:TRP:CE3	2.44	0.51
27:B1:10:LYS:C	27:B1:13:ILE:HG22	2.28	0.51
27:B1:47:GLN:HE21	27:B1:64:ALA:HB2	1.74	0.51
27:B1:87:PRO:HG2	27:B1:88:LYS:N	2.26	0.51
28:D2:48:HIS:CE1	35:DA:75:G:H4'	2.45	0.51
35:DA:1600:C:C2'	35:DA:1601:G:H5'	2.40	0.51
54:DX:7:VAL:HB	54:DX:8:ILE:HD12	1.92	0.51
41:BG:24:GLY:O	41:BG:25:TYR:C	2.48	0.51
42:BH:117:PRO:HB3	42:BH:123:PHE:HD1	1.75	0.51
42:BH:85:LYS:HZ3	42:BH:145:ALA:HA	1.74	0.51
42:BH:89:ILE:CG1	42:BH:90:LYS:H	2.22	0.51
47:DQ:66:ILE:HG22	47:DQ:104:PHE:HE2	1.73	0.51
56:DZ:45:ASP:O	56:DZ:46:LYS:C	2.49	0.51
51:DU:92:ARG:NH2	52:DV:10:LYS:HA	2.25	0.51
3:CC:141:VAL:HG11	3:CC:202:ILE:CD1	2.40	0.51
4:CD:10:ARG:C	4:CD:13:ARG:HB3	2.30	0.51
47:BQ:34:LEU:HD22	47:BQ:121:ALA:HB3	1.92	0.51
35:DA:2413:G:H21	46:DP:70:GLN:NE2	2.08	0.51
44:DN:97:ARG:HB3	44:DN:101:HIS:HD2	1.76	0.51
35:BA:244:A:O2'	46:BP:73:GLY:HA3	2.10	0.51
35:BA:959:A:H2'	35:BA:960:A:C8	2.44	0.51
48:DR:10:LEU:HB3	48:DR:17:ARG:NE	2.24	0.51
3:AC:109:PRO:HG2	3:AC:110:ASN:H	1.73	0.51
20:AT:32:ALA:C	20:AT:36:LEU:HD23	2.31	0.51
2:AB:41:ILE:HD12	2:AB:41:ILE:N	2.24	0.51
44:BN:52:VAL:O	44:BN:120:LEU:HD22	2.10	0.51
35:DA:589:C:O2'	35:DA:590:A:H5'	2.10	0.51
4:AD:202:LEU:O	4:AD:205:GLU:N	2.42	0.51
1:CA:1530:G:OP1	1:CA:1530:G:H4'	2.10	0.51
17:CQ:29:HIS:CA	17:CQ:36:ILE:HD11	2.40	0.51
44:BN:78:TYR:CG	44:BN:79:PRO:HD3	2.45	0.51
26:D0:41:ARG:HH21	35:DA:2387:U:H1'	1.73	0.51
12:AL:60:LEU:O	12:AL:62:SER:N	2.44	0.51
8:CH:114:THR:HG23	8:CH:116:LYS:O	2.10	0.51
35:BA:2248:C:O2'	35:BA:2249:U:H5'	2.11	0.51
55:BY:28:LYS:CD	55:BY:37:VAL:HG12	2.40	0.51
11:AK:22:HIS:C	11:AK:28:THR:HG23	2.30	0.51
35:DA:1246:A:OP1	46:DP:18:ARG:HG3	2.11	0.51
1:AA:199:G:H2'	1:AA:200:G:H8	1.75	0.51
1:AA:1392:G:O2'	1:AA:1393:U:H5'	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:DI:4:ILE:O	43:DI:36:ALA:HB1	2.10	0.51
43:DI:5:LEU:O	43:DI:6:LEU:HG	2.11	0.51
1:AA:1148:U:OP1	9:AI:7:THR:HG21	2.10	0.51
1:CA:1170:A:H2'	1:CA:1171:G:H5'	1.91	0.51
38:BD:131:LEU:N	38:BD:131:LEU:HD12	2.26	0.51
2:AB:175:ARG:O	2:AB:177:ALA:N	2.43	0.51
35:DA:149:A:H2'	35:DA:150:C:O4'	2.09	0.51
35:DA:271(U):G:O2'	35:DA:271(V):G:H5'	2.10	0.51
1:CA:235:C:H5'	17:CQ:70:ARG:HG2	1.92	0.51
1:AA:267:C:P	17:AQ:67:LYS:HB2	2.50	0.51
35:BA:1248:G:H2'	51:BU:2:PRO:O	2.11	0.51
1:CA:325:A:N6	1:CA:326:G:C6	2.78	0.51
35:DA:1771:C:H1'	35:DA:1786:A:H8	1.74	0.51
19:CS:50:ALA:HB1	19:CS:57:HIS:HB3	1.91	0.51
13:AM:35:GLU:HG3	13:AM:36:LYS:N	2.24	0.51
1:AA:895:G:H2'	1:AA:896:C:C6	2.45	0.51
35:DA:289:A:H3'	35:DA:290:G:H8	1.75	0.51
35:DA:1153:C:N4	35:DA:1154:G:C2	2.79	0.51
28:D2:30:ARG:O	28:D2:34:GLU:HB3	2.10	0.51
2:CB:28:PHE:HD1	2:CB:28:PHE:O	1.94	0.51
35:BA:1112:G:C1'	35:BA:1113:U:OP1	2.57	0.51
6:AF:12:PRO:HG3	6:AF:57:GLN:O	2.10	0.51
1:CA:1388:C:H2'	1:CA:1389:C:H6	1.70	0.51
35:BA:2007:C:H6	35:BA:2007:C:O5'	1.93	0.51
29:D3:22:ALA:CB	29:D3:46:ASN:HD22	2.23	0.51
35:BA:1531:C:H3'	35:BA:1532:C:O4'	2.10	0.51
45:BO:47:ILE:HG23	45:BO:48:PRO:CD	2.40	0.51
35:BA:1434:A:O2'	35:BA:1435:G:H5'	2.10	0.51
1:CA:702:A:H3'	1:CA:703:G:C5'	2.39	0.51
17:AQ:56:VAL:CG2	17:AQ:78:GLU:HG3	2.41	0.51
35:DA:271(F):C:H2'	35:DA:271(G):C:H6	1.74	0.51
35:BA:52:A:C2'	35:BA:53:A:H5'	2.40	0.51
1:CA:788:U:O2'	1:CA:789:U:H5'	2.10	0.51
6:AF:100:ASN:O	6:AF:101:ALA:O	2.27	0.51
35:BA:824:A:H2'	35:BA:825:C:C6	2.45	0.51
35:BA:1931:U:O2'	35:BA:1932:A:H5'	2.11	0.51
3:CC:40:ARG:HB3	3:CC:44:GLU:OE2	2.10	0.51
4:AD:87:GLY:C	4:AD:89:THR:H	2.12	0.51
1:AA:23:C:O2'	1:AA:24:U:H5'	2.10	0.51
36:DB:87:G:H2'	36:DB:88:C:H5''	1.91	0.51
35:DA:2692:C:H2'	35:DA:2693:A:H8	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DO:104:ARG:C	45:DO:106:LEU:N	2.61	0.51
45:DO:35:VAL:CG2	45:DO:69:ILE:HG12	2.39	0.51
41:DG:21:ARG:HD3	41:DG:21:ARG:C	2.31	0.51
1:CA:1397:C:H5'	1:CA:1398:A:O5'	2.10	0.51
1:CA:865:A:H2'	1:CA:866:C:H6	1.75	0.51
1:CA:922:G:H4'	5:CE:20:GLN:HG2	1.91	0.51
38:DD:158:ALA:O	38:DD:159:ALA:C	2.49	0.51
41:DG:108:ASN:C	41:DG:112:PRO:HD2	2.31	0.51
41:DG:130:ASN:HA	41:DG:161:THR:OG1	2.10	0.51
32:B6:10:LEU:HD22	32:B6:10:LEU:H	1.76	0.51
45:BO:105:GLU:HA	45:BO:108:GLU:HG3	1.92	0.51
42:DH:85:LYS:NZ	42:DH:145:ALA:HA	2.25	0.51
14:AN:37:PHE:HE1	14:AN:53:LEU:HD22	1.75	0.51
14:AN:40:CYS:SG	14:AN:43:CYS:N	2.75	0.51
39:DE:78:LEU:O	39:DE:79:ARG:HD2	2.10	0.51
39:DE:49:LEU:HD23	39:DE:81:ILE:HG12	1.91	0.51
28:D2:23:LYS:HB2	54:DX:5:TYR:CE1	2.46	0.51
56:DZ:59:LEU:H	56:DZ:59:LEU:CD2	2.23	0.51
1:AA:1051:C:O2'	1:AA:1052:U:H5'	2.11	0.51
1:AA:994:A:H2	14:AN:4:LYS:HG3	1.74	0.51
38:DD:14:ARG:CG	38:DD:14:ARG:HH11	2.23	0.51
4:CD:120:LEU:HA	4:CD:125:HIS:CD2	2.45	0.51
14:CN:3:ARG:NH1	14:CN:3:ARG:HB3	2.26	0.51
46:BP:21:ARG:NH1	46:BP:21:ARG:HG3	2.24	0.51
27:D1:47:GLN:HA	27:D1:47:GLN:OE1	2.10	0.51
46:BP:70:GLN:HA	46:BP:70:GLN:OE1	2.10	0.51
35:BA:2079:U:H2'	35:BA:2080:G:C8	2.45	0.51
35:BA:27:G:H1'	35:BA:513:A:H62	1.76	0.51
35:BA:675:A:O2'	35:BA:676:A:H5'	2.09	0.51
55:BY:74:PRO:HG2	55:BY:80:GLY:O	2.10	0.51
35:DA:1277:G:O2'	35:DA:1278:A:H5'	2.11	0.51
35:BA:2821:A:OP2	35:BA:2822:G:OP2	2.28	0.51
48:BR:2:ARG:NE	48:BR:5:LYS:HE3	2.25	0.51
3:AC:141:VAL:HG11	3:AC:202:ILE:CD1	2.41	0.51
49:DS:62:LYS:O	49:DS:65:VAL:N	2.43	0.51
4:AD:196:LEU:HD12	4:AD:196:LEU:H	1.75	0.51
34:D8:55:ALA:O	34:D8:59:LYS:NZ	2.36	0.51
34:D8:56:GLU:O	34:D8:58:ILE:N	2.43	0.51
40:DF:65:TRP:O	40:DF:67:GLN:N	2.44	0.51
35:BA:402:A:O2'	35:BA:403:U:H5'	2.10	0.51
47:BQ:53:ALA:O	47:BQ:56:ARG:HB3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:794:A:H2'	1:CA:795:C:C6	2.45	0.51
3:AC:172:ARG:HH11	3:AC:172:ARG:HB3	1.74	0.51
35:DA:514:A:H2'	35:DA:515:A:H8	1.74	0.51
25:CY:129:ILE:O	25:CY:132:ILE:HG13	2.10	0.51
25:CY:2:THR:O	25:CY:3:LEU:C	2.49	0.51
35:BA:1213:A:N3	35:BA:1238:G:H1'	2.25	0.51
7:CG:106:GLN:HA	7:CG:109:ASN:HD22	1.76	0.51
7:CG:104:LEU:O	7:CG:107:ALA:HB3	2.10	0.51
12:AL:38:THR:HG23	12:AL:39:VAL:N	2.26	0.51
7:AG:145:ALA:O	7:AG:146:GLU:HB2	2.09	0.51
40:DF:39:TRP:HA	40:DF:99:TYR:CE1	2.45	0.51
8:AH:83:ILE:HD13	8:AH:137:VAL:CG2	2.34	0.51
5:AE:71:LEU:HD11	5:AE:114:GLY:C	2.30	0.51
25:CY:38:LEU:C	25:CY:40:HIS:H	2.14	0.51
8:AH:64:LYS:O	8:AH:79:VAL:CG2	2.59	0.51
35:DA:2886:G:N2	35:DA:2887:U:C2	2.79	0.51
9:CI:24:GLY:HA2	9:CI:59:PHE:O	2.11	0.51
54:DX:65:ARG:CZ	54:DX:66:LEU:N	2.68	0.51
38:BD:132:PRO:O	38:BD:136:ILE:HG13	2.10	0.51
35:BA:1612:C:H2'	35:BA:1613:G:O5'	2.11	0.51
1:CA:390:C:O3'	16:CP:28:ARG:NH2	2.43	0.51
5:AE:102:ALA:HB1	5:AE:106:PRO:HG2	1.92	0.51
1:AA:835:U:OP1	18:AR:61:LYS:HB2	2.10	0.51
35:DA:1772:G:N2	35:DA:1979:C:O2	2.38	0.51
38:BD:111:LEU:HD13	38:BD:112:GLN:N	2.25	0.51
13:CM:23:TYR:HE1	13:CM:71:ARG:CB	2.19	0.51
25:CY:108:GLU:HG2	25:CY:111:ARG:NH2	2.25	0.51
13:AM:68:GLY:O	13:AM:71:ARG:N	2.43	0.51
15:AO:66:LEU:H	15:AO:66:LEU:HD12	1.75	0.51
53:BW:48:ALA:O	53:BW:51:LEU:N	2.43	0.51
10:AJ:22:LYS:NZ	10:AJ:23:ILE:HG12	2.25	0.51
43:DI:58:LEU:HD23	43:DI:58:LEU:C	2.30	0.51
53:DW:66:GLU:HG2	53:DW:66:GLU:O	2.10	0.51
35:BA:1515:G:O2'	35:BA:1516:C:H5'	2.11	0.51
30:B4:29:PRO:C	30:B4:31:ILE:N	2.63	0.51
1:CA:651:C:H2'	1:CA:652:U:C6	2.45	0.51
29:B3:22:ALA:CB	29:B3:46:ASN:HD22	2.23	0.51
1:CA:119:A:H4'	1:CA:120:A:O5'	2.10	0.51
23:AW:29:C:H2'	23:AW:30:G:C8	2.43	0.51
18:CR:32:ARG:HA	18:CR:69:THR:HG21	1.92	0.51
1:AA:1332:A:H2'	1:AA:1333:A:H8	1.75	0.51

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DZ:9:TYR:HE1	56:DZ:61:LEU:HD13	1.76	0.51
6:CF:38:GLU:HG3	6:CF:65:VAL:HA	1.92	0.51
43:DI:29:TYR:HD1	43:DI:33:ARG:HE	1.56	0.51
35:DA:1227:G:O2'	35:DA:1228:G:H5'	2.10	0.51
37:DC:86:ALA:O	37:DC:94:VAL:HG21	2.11	0.51
35:BA:2379:G:H2'	35:BA:2380:C:C6	2.46	0.51
37:BC:214:VAL:O	37:BC:216:THR:N	2.43	0.51
35:BA:391:G:O2'	35:BA:392:C:H5'	2.11	0.51
1:CA:997:U:H2'	1:CA:998:G:C8	2.45	0.51
35:DA:2553:G:H2'	35:DA:2554:U:H4'	1.91	0.51
35:DA:1166:C:H2'	35:DA:1167:U:H6	1.75	0.51
6:AF:42:GLU:C	6:AF:44:GLY:N	2.64	0.51
1:CA:139:G:O2'	1:CA:140:A:H5'	2.11	0.51
1:CA:1442(A):G:C3'	1:CA:1442(B):A:C5'	2.81	0.51
45:DO:20:MET:HE3	45:DO:44:LYS:HG3	1.91	0.51
45:DO:63:VAL:HG11	45:DO:85:VAL:HG23	1.92	0.51
50:DT:96:ARG:CZ	50:DT:96:ARG:HB3	2.40	0.51
38:BD:158:ALA:O	38:BD:159:ALA:C	2.49	0.51
38:BD:35:LYS:CG	38:BD:64:ILE:H	2.13	0.51
35:DA:1788:C:O5'	35:DA:1788:C:H6	1.93	0.51
35:DA:1568:G:H4'	38:DD:59:LYS:CG	2.41	0.51
34:B8:34:TRP:CZ3	34:B8:41:ILE:HG23	2.46	0.51
56:BZ:94:GLU:OE2	56:BZ:95:PRO:HG2	2.10	0.51
39:BE:197:ILE:CG1	39:BE:199:ARG:HH12	2.23	0.51
39:BE:1:MET:HB3	39:BE:200:GLU:OE1	2.10	0.51
39:BE:68:ALA:C	39:BE:70:ALA:H	2.14	0.51
44:BN:46:VAL:CG1	44:BN:48:MET:HG3	2.40	0.51
52:BV:4:ILE:CG1	52:BV:40:LEU:HD11	2.40	0.51
42:DH:98:LEU:HD12	42:DH:102:ALA:O	2.10	0.51
10:AJ:50:ILE:HD11	14:AN:41:ARG:CD	2.35	0.51
54:BX:55:ASN:ND2	54:BX:55:ASN:N	2.57	0.51
54:BX:77:LYS:CD	54:BX:78:LYS:H	2.24	0.51
28:D2:12:GLU:O	28:D2:14:ARG:NH1	2.43	0.51
47:DQ:119:ARG:HG3	47:DQ:119:ARG:HH11	1.76	0.51
1:CA:1220:G:O2'	1:CA:1221:G:H5'	2.10	0.51
4:CD:163:GLU:C	4:CD:165:MET:N	2.61	0.51
40:BF:114:VAL:O	40:BF:115:ALA:C	2.48	0.51
34:B8:58:ILE:HG22	34:B8:58:ILE:O	2.11	0.51
40:BF:65:TRP:CZ3	40:BF:72:ARG:HB3	2.46	0.51
47:BQ:17:LEU:HD21	47:BQ:41:TRP:HE1	1.76	0.51
20:AT:38:LYS:O	20:AT:39:LYS:C	2.49	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:41:ILE:C	20:AT:43:LEU:N	2.63	0.51
35:BA:1755:A:H2	35:BA:2716:U:C1'	2.20	0.51
50:BT:100:TYR:O	50:BT:103:ARG:N	2.43	0.51
2:CB:80:ILE:HD11	2:CB:215:LEU:HD12	1.92	0.51
2:AB:69:LEU:HB3	2:AB:162:ILE:CG2	2.40	0.51
27:D1:37:ILE:O	27:D1:38:SER:HB2	2.11	0.51
44:BN:24:GLY:HA2	44:BN:27:ALA:HB3	1.92	0.51
44:BN:34:LEU:CD2	44:BN:120:LEU:HD23	2.41	0.51
15:CO:82:ILE:C	15:CO:82:ILE:HD13	2.31	0.51
2:CB:165:VAL:O	2:CB:187:LEU:O	2.28	0.51
34:D8:53:PRO:C	34:D8:55:ALA:N	2.64	0.51
4:AD:176:LEU:CG	4:AD:177:ASP:N	2.63	0.51
6:AF:26:ILE:O	6:AF:29:ALA:HB3	2.11	0.51
6:AF:61:LEU:O	6:AF:62:TRP:CB	2.58	0.51
18:AR:36:ASN:O	18:AR:39:VAL:HG23	2.10	0.51
1:CA:1516:G:H22	1:CA:1518:A:H3'	1.76	0.51
35:DA:2617:C:O2'	35:DA:2618:G:H5'	2.11	0.51
25:CY:142:LYS:O	25:CY:145:LYS:HB3	2.10	0.51
1:CA:551:U:C2	1:CA:552:U:C5	2.99	0.51
1:CA:552:U:H4'	12:CL:87:GLY:H	1.75	0.51
16:AP:74:LEU:O	16:AP:79:VAL:HG23	2.11	0.51
1:CA:880:C:OP2	12:CL:6:THR:HG21	2.11	0.51
1:CA:691:G:H1	11:CK:52:GLY:HA2	1.75	0.51
35:BA:1569:A:O2'	38:BD:38:LYS:HE2	2.11	0.51
35:DA:261:G:C2	35:DA:262:A:C8	2.98	0.51
1:AA:223:U:H2'	1:AA:224:C:H6	1.76	0.51
5:AE:8:GLU:N	5:AE:34:VAL:HG13	2.25	0.51
52:DV:78:LYS:CD	52:DV:79:VAL:N	2.66	0.51
8:CH:11:THR:HG23	8:CH:14:ARG:NH1	2.21	0.51
54:BX:65:ARG:NE	54:BX:66:LEU:N	2.58	0.51
1:AA:1116:C:H3'	1:AA:1117:G:H5''	1.90	0.51
56:BZ:109:ALA:C	56:BZ:110:GLY:O	2.46	0.51
1:CA:707:C:O2'	1:CA:708:C:H5'	2.10	0.51
1:CA:1409:C:H2'	1:CA:1410:G:H8	1.76	0.51
35:DA:2200:C:N4	35:DA:2223:G:H1	2.07	0.51
7:CG:47:CYS:O	7:CG:58:PRO:HG3	2.10	0.51
35:DA:2097:C:O2'	35:DA:2098:U:H5'	2.09	0.51
31:D5:25:LEU:HD12	53:DW:23:LEU:CD1	2.41	0.51
5:CE:102:ALA:HB1	5:CE:106:PRO:HG2	1.91	0.51
1:AA:1255:G:H2'	1:AA:1255:G:N3	2.24	0.51
1:AA:1418:A:H2	35:BA:1948:G:N3	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:70:LEU:HG	15:AO:78:TYR:HB2	1.93	0.51
38:BD:165:ILE:CD1	38:BD:165:ILE:N	2.70	0.51
35:DA:1112:G:C1'	35:DA:1113:U:OP2	2.56	0.51
35:BA:481:G:C2'	35:BA:482:A:OP2	2.59	0.51
11:AK:123:LYS:O	11:AK:124:LYS:C	2.49	0.51
35:DA:1829:A:H2'	35:DA:1830:C:O4'	2.10	0.51
35:BA:921:G:H2'	35:BA:922:U:C6	2.45	0.51
7:CG:21:VAL:HG23	7:CG:22:LEU:N	2.25	0.51
35:BA:2839:G:H2'	35:BA:2840:C:C6	2.45	0.51
45:DO:47:ILE:HG23	45:DO:48:PRO:CD	2.39	0.51
35:BA:2875:C:O2'	50:BT:5:ALA:HB3	2.10	0.51
35:BA:1829:A:H2'	35:BA:1830:C:O4'	2.10	0.51
38:BD:203:ASN:O	38:BD:204:ILE:O	2.29	0.51
37:DC:89:ALA:HA	37:DC:153:ILE:CB	2.41	0.51
35:BA:644:A:O2'	35:BA:645:C:H5''	2.10	0.51
38:DD:201:HIS:C	38:DD:203:ASN:H	2.13	0.51
35:BA:2552:U:C2	35:BA:2554:U:H5'	2.46	0.51
35:DA:2663:G:O2'	35:DA:2664:G:H5'	2.10	0.51
35:DA:453:C:H1'	35:DA:457:A:C2	2.45	0.51
50:BT:54:ARG:HA	50:BT:59:THR:OG1	2.09	0.51
35:DA:1272:A:OP2	35:DA:1647:G:OP1	2.28	0.51
42:DH:60:ARG:O	42:DH:64:LEU:HG	2.10	0.51
25:AY:20:VAL:O	25:AY:23:HIS:HB3	2.11	0.51
1:AA:509:A:H2'	1:AA:510:A:C8	2.46	0.51
35:DA:2441:C:H2'	35:DA:2441:C:O2	2.10	0.51
35:BA:516:C:O2'	35:BA:517:C:H5'	2.11	0.51
1:AA:1178:G:N2	1:AA:1180:A:H3'	2.26	0.51
45:DO:1:MET:CE	45:DO:1:MET:H3	2.21	0.51
45:DO:44:LYS:O	45:DO:45:GLU:HB3	2.09	0.51
50:DT:27:THR:HG1	50:DT:87:ASP:HA	1.74	0.51
43:BI:92:VAL:HG12	43:BI:119:PRO:O	2.11	0.51
38:DD:213:ARG:O	38:DD:215:LEU:N	2.43	0.51
41:DG:106:LEU:O	41:DG:108:ASN:N	2.44	0.51
10:CJ:16:LEU:HA	10:CJ:19:SER:OG	2.10	0.51
34:B8:31:HIS:O	34:B8:32:LEU:C	2.48	0.51
47:DQ:20:ALA:CB	47:DQ:98:LYS:HB3	2.40	0.51
1:AA:1440:C:O2'	1:AA:1441:G:H5'	2.10	0.51
39:BE:8:LYS:HD2	39:BE:189:PRO:O	2.10	0.51
50:BT:28:VAL:HG11	50:BT:46:GLU:OE1	2.11	0.51
16:AP:19:ILE:CG2	16:AP:36:ILE:HG13	2.39	0.51
16:AP:9:PHE:HE2	16:AP:18:ARG:NE	2.08	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:47:VAL:HG23	39:BE:84:PHE:O	2.09	0.51
35:BA:528:A:OP2	44:BN:114:ARG:HD2	2.10	0.51
52:BV:61:VAL:HG23	52:BV:100:ARG:HG2	1.91	0.51
1:AA:950:U:H1'	1:AA:971:G:N7	2.26	0.51
54:BX:7:VAL:HA	54:BX:31:HIS:HB2	1.92	0.51
27:B1:10:LYS:HG3	27:B1:11:ARG:N	2.25	0.51
27:B1:87:PRO:HA	27:B1:90:ILE:HG12	1.93	0.51
41:BG:57:ALA:O	41:BG:60:LEU:HB3	2.10	0.51
41:BG:93:THR:CG2	41:BG:95:ARG:HG3	2.39	0.51
54:DX:77:LYS:CD	54:DX:78:LYS:H	2.23	0.51
42:BH:85:LYS:O	42:BH:132:ARG:CA	2.56	0.51
56:DZ:141:VAL:O	56:DZ:144:LEU:HD23	2.11	0.51
56:DZ:96:VAL:CG2	56:DZ:97:GLU:N	2.74	0.51
49:BS:29:PHE:CD1	49:BS:29:PHE:C	2.84	0.51
4:CD:68:TYR:CZ	4:CD:97:LEU:HD22	2.46	0.51
40:BF:43:LYS:HA	40:BF:98:SER:HA	1.92	0.51
1:AA:324:G:N2	1:AA:327:A:C8	2.79	0.51
35:BA:2692:C:O2'	35:BA:2693:A:H5'	2.11	0.51
50:BT:96:ARG:CG	50:BT:96:ARG:NH1	2.71	0.51
49:DS:29:PHE:HB3	49:DS:36:TYR:HB2	1.92	0.51
2:AB:167:PRO:O	2:AB:168:THR:C	2.48	0.51
44:DN:126:PRO:O	44:DN:127:ASP:CB	2.58	0.51
6:CF:67:MET:CE	6:CF:72:VAL:H	2.24	0.51
8:CH:69:ARG:HB2	8:CH:74:PRO:HA	1.93	0.51
1:AA:410:G:N1	1:AA:429:U:O2	2.44	0.51
17:AQ:29:HIS:HE1	17:AQ:31:LEU:HB3	1.74	0.51
17:AQ:31:LEU:HG	17:AQ:32:TYR:CD2	2.46	0.51
1:AA:908:A:C4	1:AA:909:A:N7	2.79	0.51
35:DA:1131:G:H1'	35:DA:1132:A:C8	2.46	0.51
1:CA:1325:C:H4'	21:CU:17:THR:HG21	1.93	0.51
1:CA:1307:U:H2'	1:CA:1308:U:H6	1.71	0.51
25:AY:64:ARG:CZ	25:AY:64:ARG:N	2.74	0.51
12:AL:32:PHE:HE1	12:AL:86:ARG:HG3	1.76	0.51
25:AY:3:LEU:HB3	25:AY:7:TYR:CE1	2.45	0.51
1:AA:707:C:O2'	1:AA:708:C:H5'	2.11	0.51
7:CG:88:PRO:O	7:CG:89:MET:HB3	2.09	0.51
35:DA:1410:G:C6	35:DA:1411:C:N4	2.79	0.51
55:BY:37:VAL:O	55:BY:38:ILE:CB	2.59	0.51
1:AA:601:C:H2'	1:AA:602:A:C8	2.43	0.51
8:AH:114:THR:HG23	8:AH:116:LYS:O	2.11	0.51
1:AA:192:U:H4'	20:AT:102:GLY:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:9:MET:O	8:AH:12:ARG:N	2.42	0.51
46:DP:90:ARG:HH11	46:DP:91:PHE:HB3	1.75	0.51
1:CA:874:G:H2'	1:CA:875:C:H6	1.76	0.51
35:BA:272(C):G:H2'	35:BA:272(D):G:C8	2.40	0.51
35:BA:1050:A:C4	35:BA:2751:G:C2	2.99	0.51
9:CI:4:TYR:HD1	9:CI:4:TYR:N	2.08	0.51
35:DA:1604:C:O2'	35:DA:1605:C:H5'	2.10	0.51
5:CE:146:ALA:C	5:CE:148:VAL:N	2.61	0.51
38:BD:173:VAL:HG12	38:BD:185:VAL:O	2.11	0.51
16:CP:72:ARG:O	16:CP:74:LEU:N	2.43	0.51
38:DD:132:PRO:O	38:DD:136:ILE:HG13	2.10	0.51
35:BA:2590:A:O3'	38:BD:239:ARG:HG3	2.10	0.51
35:BA:2119:A:C2'	35:BA:2120:G:H5''	2.40	0.51
39:BE:103:ASP:OD1	39:BE:168:MET:HG2	2.11	0.51
35:DA:323:G:O2'	35:DA:1205:U:N3	2.44	0.51
1:AA:1054:C:H2'	1:AA:1054:C:O2	2.11	0.51
1:AA:1054:C:P	1:AA:1197:G:OP2	2.68	0.51
35:BA:1486:A:N6	35:BA:1504:C:H42	2.09	0.51
1:CA:59:A:C5'	1:CA:60:A:C5'	2.86	0.51
5:CE:72:GLN:HE22	5:CE:77:PRO:CD	2.22	0.51
35:DA:2187:G:O2'	35:DA:2188:C:H5'	2.11	0.51
1:CA:1253:G:O2'	1:CA:1254:C:H5'	2.10	0.51
13:AM:74:VAL:HA	13:AM:77:ASN:HD22	1.75	0.51
35:BA:1338:G:H5'	35:BA:1339:G:OP2	2.10	0.51
53:BW:17:VAL:O	53:BW:18:ARG:C	2.49	0.51
35:BA:1367:A:H3'	35:BA:1368:G:O4'	2.11	0.51
6:AF:83:ASP:O	6:AF:85:VAL:N	2.43	0.51
22:CV:31:U:H2'	22:CV:31:U:O2	2.09	0.51
7:CG:15:ASP:OD2	7:CG:16:LEU:N	2.43	0.51
30:D4:43:TYR:C	30:D4:45:GLY:H	2.14	0.51
35:BA:2842:G:O2'	35:BA:2843:G:H5'	2.11	0.51
1:AA:525:C:H2'	1:AA:526:C:H6	1.76	0.51
35:DA:1015:G:H2'	35:DA:1015:G:N3	2.24	0.51
35:BA:838:C:O2'	35:BA:839:U:H5'	2.11	0.51
1:AA:1416:G:H2'	1:AA:1417:G:C8	2.45	0.51
1:CA:1131:G:H2'	1:CA:1132:C:C5	2.45	0.51
1:AA:651:C:H2'	1:AA:652:U:C6	2.46	0.51
35:DA:179:G:O2'	35:DA:180:G:H5'	2.11	0.51
17:AQ:99:SER:C	17:AQ:100:LYS:HE2	2.31	0.51
8:CH:112:LEU:C	8:CH:112:LEU:HD12	2.30	0.51
34:D8:48:PHE:HD1	34:D8:48:PHE:H	1.54	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:30:ARG:HD2	14:CN:38:GLY:HA3	1.93	0.51
1:CA:1430:C:H2'	1:CA:1431:C:C6	2.45	0.51
35:BA:1904:G:N2	35:BA:1905:C:H1'	2.25	0.51
38:BD:24:ILE:O	38:BD:26:LYS:N	2.43	0.51
1:CA:19:C:P	5:CE:127:ASN:HD22	2.34	0.51
1:CA:774:G:OP1	38:DD:202:LYS:NZ	2.40	0.51
35:DA:2315:G:H2'	35:DA:2316:C:H6	1.69	0.51
36:DB:41:U:N3	41:DG:70:VAL:O	2.43	0.51
56:BZ:129:SER:O	56:BZ:131:ARG:N	2.42	0.51
39:BE:47:VAL:HG12	39:BE:49:LEU:CD2	2.40	0.51
51:BU:98:LEU:O	51:BU:101:ARG:O	2.28	0.51
10:AJ:45:ARG:HH11	10:AJ:45:ARG:HG3	1.75	0.51
39:DE:4:ILE:HD12	39:DE:31:CYS:SG	2.51	0.51
37:DC:49:ILE:C	37:DC:51:PRO:HD3	2.31	0.51
27:B1:11:ARG:NE	27:B1:61:ARG:H	2.09	0.51
27:B1:76:ARG:HA	27:B1:78:LYS:HZ3	1.75	0.51
27:B1:83:GLU:HG2	27:B1:86:SER:H	1.76	0.51
28:D2:53:LEU:HB2	35:DA:76:C:O3'	2.10	0.51
54:DX:31:HIS:CG	54:DX:32:PRO:HD2	2.46	0.51
54:DX:35:THR:HG23	54:DX:36:LYS:H	1.74	0.51
54:DX:52:VAL:O	54:DX:53:LYS:HB3	2.11	0.51
56:DZ:144:LEU:CD1	56:DZ:149:SER:HA	2.40	0.51
51:DU:90:VAL:HG13	52:DV:39:LEU:CB	2.36	0.51
1:CA:985:C:H2'	1:CA:986:A:H8	1.74	0.51
49:BS:65:VAL:CG1	49:BS:69:VAL:HB	2.41	0.51
4:CD:13:ARG:CG	4:CD:14:ARG:H	2.24	0.51
14:CN:4:LYS:HA	14:CN:7:ILE:CD1	2.40	0.51
35:BA:1245:G:H3'	46:BP:16:ARG:NH2	2.22	0.51
39:BE:142:GLY:C	39:BE:143:ASN:HD22	2.14	0.51
27:D1:10:LYS:O	27:D1:13:ILE:CG2	2.53	0.51
1:AA:1478:C:H2'	1:AA:1479:C:H6	1.72	0.51
35:BA:2713:A:C2'	35:BA:2714:G:H5'	2.41	0.51
48:BR:17:ARG:CG	48:BR:17:ARG:HH11	2.17	0.51
49:DS:99:LYS:O	49:DS:100:ALA:C	2.49	0.51
27:D1:25:LYS:CG	27:D1:37:ILE:HG21	2.32	0.51
47:BQ:110:THR:OG1	47:BQ:113:GLN:HG3	2.10	0.51
47:BQ:119:ARG:HH11	47:BQ:119:ARG:HG3	1.76	0.51
6:CF:61:LEU:O	6:CF:62:TRP:CB	2.59	0.51
6:CF:66:GLU:O	6:CF:67:MET:HB3	2.11	0.51
15:CO:78:TYR:C	15:CO:80:ALA:N	2.64	0.51
2:CB:58:ILE:O	2:CB:61:LEU:HB3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DV:72:VAL:HG13	52:DV:88:ARG:HH22	1.75	0.51
1:AA:406:G:C2	1:AA:407:G:C8	2.99	0.51
4:AD:25:ARG:C	4:AD:27:TYR:H	2.13	0.51
19:AS:16:LEU:N	19:AS:16:LEU:CD1	2.74	0.51
35:DA:104:U:H6	35:DA:104:U:O5'	1.94	0.51
35:DA:911:A:C4	47:DQ:9:TYR:OH	2.61	0.51
35:DA:871:U:H4'	47:DQ:69:PHE:CE2	2.46	0.51
18:AR:44:LEU:O	18:AR:45:SER:CB	2.59	0.51
35:DA:1131:G:H1'	35:DA:1132:A:H8	1.75	0.51
25:CY:25:LEU:O	25:CY:179:LYS:HE2	2.11	0.51
1:AA:1325:C:H4'	21:AU:17:THR:HG21	1.93	0.51
35:BA:2128:C:H5'	35:BA:2173:A:C2	2.45	0.51
25:AY:137:LEU:O	25:AY:140:LEU:HB3	2.11	0.51
11:AK:20:TYR:C	11:AK:21:ILE:HD12	2.31	0.51
35:BA:1378:A:C4'	35:BA:1379:A:OP1	2.55	0.51
35:DA:598:G:C5'	46:DP:15:ARG:HD2	2.37	0.51
1:AA:185:A:H61	1:AA:192:U:H3	1.58	0.51
12:AL:117:ARG:O	12:AL:119:LYS:O	2.29	0.51
8:AH:40:ALA:HB2	8:AH:45:ILE:CD1	2.41	0.51
9:AI:82:ALA:O	9:AI:96:LEU:HD21	2.11	0.51
8:CH:10:LEU:H	8:CH:10:LEU:CD2	2.18	0.51
5:AE:146:ALA:C	5:AE:148:VAL:N	2.64	0.51
35:DA:272(C):G:O2'	35:DA:272(D):G:H5'	2.10	0.51
46:DP:79:ARG:O	46:DP:111:ARG:HB2	2.10	0.51
42:DH:12:PRO:N	42:DH:15:VAL:HG21	2.26	0.51
31:D5:16:ARG:CG	31:D5:16:ARG:NH1	2.74	0.51
35:DA:2012:G:O3'	53:DW:96:ILE:HD11	2.10	0.51
1:CA:378:G:P	16:CP:3:LYS:HZ1	2.33	0.51
35:BA:1612:C:C2'	35:BA:1613:G:O5'	2.59	0.51
29:D3:4:LEU:HD12	29:D3:39:ASP:OD1	2.10	0.51
1:CA:309:G:O2'	1:CA:310:G:H5'	2.10	0.51
1:CA:309:G:H2'	1:CA:310:G:H8	1.76	0.51
14:CN:8:GLU:C	14:CN:12:ARG:HD3	2.31	0.51
47:DQ:81:VAL:CG2	47:DQ:82:ARG:HG2	2.41	0.51
35:BA:17:G:O2'	51:BU:25:TRP:HZ3	1.93	0.51
1:CA:199:G:H2'	1:CA:200:G:C8	2.46	0.51
3:CC:106:VAL:HG12	3:CC:108:ASN:H	1.75	0.51
16:AP:82:GLN:NE2	16:AP:82:GLN:N	2.44	0.51
8:CH:107:LEU:HD23	8:CH:107:LEU:C	2.31	0.51
1:CA:1277:C:O2'	1:CA:1278:U:H5'	2.10	0.51
35:BA:460:A:C6	35:BA:470:A:C8	2.98	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1686:C:H42	35:DA:1702:G:H1	1.59	0.51
25:AY:73:GLN:O	25:AY:77:LYS:HG2	2.10	0.51
15:AO:17:ARG:NH1	15:AO:77:ARG:NH1	2.58	0.51
35:DA:863:A:H4'	36:DB:101:G:N2	2.25	0.51
35:BA:876:C:H2'	35:BA:877:U:C6	2.46	0.51
35:BA:154(A):C:C5	35:BA:171:G:N1	2.78	0.51
27:B1:20:ARG:CD	27:B1:20:ARG:N	2.71	0.51
43:BI:48:GLU:O	43:BI:51:ILE:HB	2.10	0.51
1:AA:70:G:H2'	1:AA:71:C:C6	2.45	0.51
4:AD:192:GLU:OE2	4:AD:192:GLU:N	2.44	0.51
1:AA:1046:A:H3'	1:AA:1047:G:C8	2.44	0.51
41:BG:13:GLU:O	41:BG:14:GLU:HB3	2.10	0.51
38:DD:125:ILE:H	38:DD:125:ILE:HD12	1.76	0.51
35:BA:305:U:O2'	35:BA:306:U:H5'	2.11	0.51
24:CX:19:U:C2'	24:CX:19:U:O2	2.59	0.51
1:CA:859:A:O2'	1:CA:860:A:H5'	2.10	0.51
35:DA:1766:U:O2'	35:DA:1767:C:H5'	2.11	0.51
5:AE:26:PHE:O	5:AE:27:ARG:HB2	2.11	0.51
37:DC:214:VAL:C	37:DC:216:THR:N	2.63	0.51
55:DY:83:THR:HG22	55:DY:84:ARG:H	1.76	0.51
1:AA:1261:A:H62	1:AA:1274:G:N2	2.09	0.51
35:BA:785:G:H2'	35:BA:786:C:H6	1.75	0.51
1:CA:914:A:O2'	1:CA:915:A:H5'	2.11	0.51
35:DA:2712(A):A:OP2	35:DA:2714:G:OP2	2.28	0.51
35:DA:2850:A:H5'	35:DA:2868:A:H2	1.75	0.51
43:BI:91:SER:H	43:BI:121:LYS:HE3	1.75	0.51
38:BD:35:LYS:HG2	38:BD:64:ILE:HG22	1.92	0.51
38:BD:65:ILE:C	38:BD:65:ILE:CD1	2.77	0.51
41:DG:142:PRO:C	41:DG:144:ILE:H	2.14	0.51
35:BA:2393:A:O2'	35:BA:2394:C:H5'	2.10	0.51
45:BO:76:ALA:HB3	50:BT:75:ILE:HD13	1.92	0.51
56:BZ:52:SER:HB3	56:BZ:54:HIS:CD2	2.45	0.51
35:BA:2892:A:C4	35:BA:2893:G:H1'	2.46	0.51
39:BE:5:LEU:CD2	39:BE:197:ILE:HG22	2.41	0.51
35:BA:2039:C:C2	35:BA:2040:C:C5	2.99	0.51
52:BV:32:THR:CG2	52:BV:33:VAL:N	2.73	0.51
42:DH:88:LEU:O	42:DH:89:ILE:CG2	2.59	0.51
35:BA:61:G:C2'	35:BA:62:C:H5'	2.41	0.51
2:AB:234:PRO:O	2:AB:236:TYR:N	2.44	0.51
41:BG:16:ARG:NH1	41:BG:16:ARG:HG3	2.26	0.51
41:BG:57:ALA:HB2	41:BG:90:LEU:CD2	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D2:12:GLU:O	28:D2:12:GLU:CD	2.49	0.51
54:DX:33:LYS:O	54:DX:35:THR:N	2.44	0.51
54:DX:55:ASN:HB2	54:DX:77:LYS:CD	2.41	0.51
42:BH:97:ARG:O	42:BH:125:VAL:HG21	2.11	0.51
56:DZ:27:VAL:CG1	56:DZ:85:HIS:HE2	2.23	0.51
40:BF:155:LEU:CD1	40:BF:174:VAL:HB	2.40	0.51
27:D1:87:PRO:C	27:D1:89:GLU:OE2	2.50	0.51
27:D1:87:PRO:C	27:D1:90:ILE:HG12	2.30	0.51
44:DN:62:VAL:CG2	44:DN:66:LYS:HB2	2.41	0.51
44:DN:70:LYS:HB3	44:DN:87:LEU:HB2	1.91	0.51
3:CC:8:ILE:O	3:CC:10:PHE:N	2.44	0.51
35:BA:1259:G:H2'	35:BA:1260:G:H8	1.75	0.51
35:BA:2431:U:H2'	35:BA:2433:A:OP2	2.10	0.51
35:BA:563:G:C6	35:BA:564:C:N4	2.79	0.51
35:BA:587:C:H3'	46:BP:33:ARG:NH1	2.20	0.51
47:BQ:74:TYR:HB3	47:BQ:91:GLU:CD	2.32	0.51
35:DA:2821:A:P	48:DR:2:ARG:NH2	2.63	0.51
39:DE:110:GLY:O	48:DR:2:ARG:NH2	2.44	0.51
1:AA:328:C:O2'	1:AA:329:A:OP2	2.28	0.51
50:BT:108:ARG:O	50:BT:112:ARG:HG3	2.09	0.51
2:AB:70:PHE:O	2:AB:92:TYR:HA	2.11	0.51
35:DA:201:C:C2'	35:DA:202:U:H5'	2.39	0.51
44:BN:26:LEU:CD1	44:BN:30:ILE:HD11	2.41	0.51
15:CO:87:ILE:HG22	15:CO:88:ARG:N	2.26	0.51
18:CR:29:PHE:HD1	18:CR:39:VAL:HG11	1.76	0.51
18:CR:44:LEU:O	18:CR:45:SER:CB	2.58	0.51
35:DA:587:C:O2'	35:DA:588:U:OP2	2.24	0.51
35:DA:675:A:C8	35:DA:804:A:C6	2.98	0.51
35:DA:1202:C:C2'	35:DA:1203:G:H5'	2.41	0.51
4:AD:119:GLN:HB3	4:AD:120:LEU:HD12	1.91	0.51
18:AR:65:ILE:HD12	18:AR:66:LEU:H	1.75	0.51
2:AB:111:ARG:O	2:AB:115:LEU:N	2.44	0.51
25:CY:116:ARG:O	25:CY:117:ALA:C	2.49	0.51
35:DA:2699:C:O2'	35:DA:2700:C:H5'	2.11	0.51
1:CA:939:G:H5''	7:CG:102:ARG:NH1	2.25	0.51
25:AY:143:LEU:HD23	25:AY:143:LEU:C	2.31	0.51
11:AK:21:ILE:HD13	11:AK:84:VAL:CG1	2.38	0.51
43:BI:94:ALA:HA	43:BI:97:ILE:CB	2.41	0.51
1:CA:603:U:H2'	1:CA:604:G:H8	1.76	0.51
8:CH:119:LEU:HD12	8:CH:123:GLU:C	2.31	0.51
13:AM:91:ARG:NH1	19:AS:81:ARG:HH22	1.90	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:114:THR:HG22	8:AH:117:GLY:O	2.11	0.51
2:CB:115:LEU:HD21	2:CB:153:ARG:HE	1.76	0.51
5:AE:129:ILE:O	5:AE:130:ASN:C	2.49	0.51
35:DA:2889:C:H2'	35:DA:2889:C:O2	2.09	0.51
1:CA:1166:G:H2'	1:CA:1169:A:OP2	2.11	0.51
33:D7:29:LYS:NZ	33:D7:32:LYS:NZ	2.59	0.51
46:DP:106:LEU:C	46:DP:107:LYS:HG2	2.31	0.51
46:DP:80:TYR:CZ	46:DP:111:ARG:HG2	2.45	0.51
1:CA:626:U:H5''	16:CP:38:TYR:CD2	2.46	0.51
35:DA:494:G:O2'	35:DA:495:G:H5'	2.11	0.51
38:DD:127:VAL:HA	38:DD:193:VAL:HG13	1.93	0.51
1:CA:705:U:C5	1:CA:706:A:C5	2.98	0.51
35:BA:1268:A:C6	35:BA:2013:A:C8	2.99	0.51
35:BA:1615:C:O2	53:BW:87:PRO:HG2	2.10	0.51
32:B6:47:THR:HG22	32:B6:48:VAL:N	2.25	0.51
35:DA:1485:G:H2'	35:DA:1486:A:C8	2.45	0.51
3:AC:180:ALA:O	3:AC:205:GLY:O	2.28	0.51
29:B3:45:GLY:HA3	35:BA:852:G:H5'	1.93	0.51
5:CE:79:GLU:OE1	5:CE:79:GLU:N	2.39	0.51
35:BA:1914:C:H3'	35:BA:1914:C:O2	2.10	0.51
1:AA:645:C:H2'	1:AA:646:U:H6	1.76	0.51
26:B0:23:VAL:HG12	26:B0:24:LYS:N	2.24	0.51
1:CA:1256:A:N6	1:CA:1278:U:H1'	2.26	0.51
31:B5:25:LEU:HD12	53:BW:23:LEU:CD1	2.41	0.51
35:DA:1707:G:H1'	35:DA:1756:G:N3	2.25	0.51
35:DA:1387:C:H4'	35:DA:1469:A:O4'	2.11	0.51
35:BA:132:G:O2'	35:BA:133:C:H5'	2.11	0.51
1:CA:1264:C:H2'	1:CA:1265:G:C8	2.39	0.51
1:CA:556:C:C2'	1:CA:557:G:H5'	2.41	0.51
26:D0:72:ARG:HB3	26:D0:75:LEU:HB3	1.91	0.51
4:CD:80:GLU:C	4:CD:84:LYS:HZ3	2.14	0.51
15:CO:43:LEU:C	15:CO:45:VAL:H	2.14	0.51
40:DF:62:ARG:NH2	40:DF:64:ILE:HA	2.26	0.51
11:AK:125:PHE:N	11:AK:125:PHE:HD1	2.08	0.51
1:CA:627:G:O2'	1:CA:628:G:H5'	2.10	0.51
43:DI:29:TYR:CE1	43:DI:33:ARG:NE	2.79	0.51
36:DB:15:A:C3'	36:DB:16:G:H5'	2.40	0.51
35:BA:1387:C:H4'	35:BA:1469:A:O4'	2.11	0.51
54:BX:88:LYS:C	54:BX:90:GLU:N	2.63	0.51
3:CC:60:ALA:CB	3:CC:63:ASN:HD21	2.24	0.51
37:DC:214:VAL:O	37:DC:216:THR:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:950:G:O2'	35:BA:951:C:H5'	2.11	0.51
50:BT:57:PHE:O	50:BT:59:THR:HG22	2.10	0.51
39:DE:73:GLU:OE2	39:DE:73:GLU:N	2.36	0.51
3:CC:186:PHE:HD1	3:CC:198:VAL:O	1.93	0.51
35:BA:2251:G:N3	35:BA:2450:A:H1'	2.25	0.51
43:DI:127:VAL:O	43:DI:127:VAL:HG12	2.11	0.51
53:BW:80:PRO:HD2	53:BW:100:THR:HG21	1.93	0.51
20:AT:90:GLN:C	20:AT:93:GLU:OE2	2.49	0.51
35:DA:483:A:H3'	35:DA:484:C:H6	1.76	0.51
35:DA:2678:C:O2'	35:DA:2679:A:H5'	2.11	0.51
35:DA:2696:U:H2'	35:DA:2697:G:H8	1.74	0.51
50:DT:109:GLU:CB	50:DT:113:LYS:HE3	2.24	0.51
50:DT:66:VAL:HG13	50:DT:71:GLY:N	2.26	0.51
43:BI:87:LYS:HZ3	43:BI:121:LYS:HG2	1.76	0.51
41:DG:9:ARG:HG2	41:DG:13:GLU:OE1	2.11	0.51
38:BD:21:PHE:O	38:BD:23:GLU:N	2.44	0.51
38:BD:271:ILE:N	38:BD:271:ILE:HD12	2.25	0.51
1:CA:922:G:O2'	1:CA:1398:A:N1	2.42	0.51
41:DG:101:ILE:HG23	41:DG:102:PHE:N	2.26	0.51
41:DG:45:GLU:C	41:DG:47:LYS:N	2.64	0.51
35:BA:2415:G:O3'	46:BP:66:GLY:CA	2.49	0.51
35:BA:631:A:C4'	46:BP:65:ARG:HA	2.41	0.51
50:BT:26:ASP:O	50:BT:88:ILE:HB	2.11	0.51
16:AP:18:ARG:O	16:AP:20:VAL:HG12	2.11	0.51
56:BZ:44:PHE:HE1	56:BZ:48:PHE:CG	2.28	0.51
35:DA:1496:A:H8	35:DA:1577:C:HO2'	1.57	0.51
52:BV:38:LEU:O	52:BV:39:LEU:HD22	2.11	0.51
42:DH:84:SER:O	42:DH:85:LYS:CB	2.59	0.51
14:AN:33:VAL:HG12	14:AN:34:TYR:N	2.26	0.51
39:DE:199:ARG:HB3	39:DE:200:GLU:OE2	2.11	0.51
27:B1:47:GLN:NE2	27:B1:64:ALA:HB2	2.25	0.51
2:AB:77:ALA:O	2:AB:80:ILE:HG23	2.11	0.51
41:BG:31:VAL:CG2	41:BG:32:PRO:HD2	2.41	0.51
56:DZ:122:ARG:HG3	56:DZ:123:ASP:OD2	2.11	0.51
56:DZ:48:PHE:CZ	56:DZ:52:SER:HA	2.45	0.51
56:DZ:48:PHE:O	56:DZ:52:SER:N	2.44	0.51
35:DA:534:U:H2'	35:DA:535:C:C6	2.46	0.51
52:DV:22:VAL:HG21	52:DV:96:ILE:HB	1.93	0.51
52:DV:39:LEU:HD11	52:DV:53:GLU:CA	2.41	0.51
52:DV:38:LEU:O	52:DV:53:GLU:O	2.28	0.51
35:DA:2598:A:H5''	38:DD:236:GLY:CA	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:428:G:O4'	1:CA:430:A:C8	2.64	0.51
4:CD:64:LEU:HD23	4:CD:203:VAL:HG21	1.93	0.51
43:DI:92:VAL:CG1	43:DI:120:ILE:HD12	2.36	0.51
43:DI:92:VAL:O	43:DI:92:VAL:HG13	2.11	0.51
35:BA:1141:U:H5''	35:BA:1142(A):A:O4'	2.11	0.51
40:BF:125:LEU:HD12	40:BF:196:LEU:CD2	2.41	0.51
35:BA:2579:C:H4'	39:BE:134:ILE:HG13	1.92	0.51
27:D1:11:ARG:HG3	27:D1:61:ARG:O	2.11	0.51
35:BA:1250:G:H3'	35:BA:1251:C:H5'	1.92	0.51
46:BP:40:SER:C	46:BP:41:ARG:HD2	2.32	0.51
51:BU:47:TYR:HA	51:BU:50:ARG:NH2	2.26	0.51
40:DF:7:TYR:HB3	40:DF:16:GLY:C	2.31	0.51
40:DF:25:PRO:HG3	40:DF:119:ARG:HA	1.91	0.51
48:DR:55:ALA:CB	48:DR:79:LEU:HD12	2.41	0.51
48:BR:34:ILE:HG22	48:BR:35:THR:N	2.26	0.51
41:DG:27:ASN:O	41:DG:30:GLU:HG2	2.11	0.51
49:DS:92:TYR:HB3	49:DS:97:ARG:HH11	1.75	0.51
2:CB:12:GLU:C	2:CB:14:GLY:N	2.61	0.51
35:DA:203:C:H2'	35:DA:204:A:C8	2.46	0.51
6:CF:7:ASN:C	6:CF:8:ILE:HG13	2.31	0.51
18:CR:40:LEU:O	18:CR:42:ARG:N	2.44	0.51
18:CR:74:ARG:HH11	18:CR:74:ARG:HG3	1.76	0.51
35:DA:1186:G:C2'	35:DA:1187:G:H5'	2.40	0.51
4:AD:110:PHE:N	4:AD:110:PHE:HD1	2.09	0.51
4:AD:121:VAL:HA	4:AD:126:ILE:HD12	1.91	0.51
19:AS:72:GLY:C	19:AS:74:PHE:H	2.14	0.51
43:DI:71:ILE:HG13	43:DI:72:LEU:HD22	1.92	0.51
1:CA:1404:C:H2'	1:CA:1405:G:H8	1.73	0.51
1:CA:777:A:H2'	1:CA:778:G:C8	2.45	0.51
35:DA:2018:G:C6	35:DA:2019:A:C5	2.99	0.51
35:DA:570:G:H2'	35:DA:2030:A:C5	2.46	0.51
35:DA:2735:G:H2'	35:DA:2736:G:H8	1.76	0.51
25:CY:124:GLU:O	25:CY:125:GLY:C	2.50	0.51
25:CY:12:SER:O	25:CY:13:HIS:C	2.49	0.51
25:CY:30:THR:OG1	25:CY:34:ASN:HB2	2.10	0.51
25:AY:61:PRO:HG3	25:AY:67:VAL:HG13	1.92	0.51
7:CG:105:VAL:HG12	7:CG:109:ASN:HD21	1.73	0.51
1:CA:693:G:H2'	1:CA:694:A:O4'	2.11	0.51
25:AY:144:ALA:C	25:AY:147:LEU:O	2.49	0.51
35:DA:848:G:C2	35:DA:933:A:H1'	2.46	0.51
43:BI:111:PRO:HA	43:BI:114:LEU:HD11	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BY:28:LYS:NZ	55:BY:37:VAL:HG12	2.24	0.51
35:BA:926:A:H2'	35:BA:927:G:C8	2.43	0.51
35:DA:256:A:H2'	35:DA:257:A:C8	2.46	0.51
40:DF:34:TRP:O	40:DF:37:VAL:N	2.43	0.51
3:CC:172:ARG:HH11	3:CC:172:ARG:HB3	1.76	0.51
42:BH:19:VAL:CG2	42:BH:44:VAL:HA	2.33	0.51
46:DP:85:LEU:HD23	46:DP:85:LEU:N	2.12	0.51
8:CH:40:ALA:HB2	8:CH:45:ILE:HD11	1.92	0.51
8:CH:28:ALA:CB	8:CH:57:PRO:O	2.59	0.51
35:DA:2175:C:C3'	35:DA:2176:A:H5''	2.41	0.51
35:BA:272(C):G:O2'	35:BA:272(D):G:H5'	2.11	0.51
5:CE:146:ALA:O	5:CE:148:VAL:N	2.44	0.51
54:BX:25:LYS:HZ1	54:BX:87:GLN:H	1.56	0.51
35:DA:1298:C:H3'	35:DA:1299:G:H8	1.76	0.51
35:DA:1688:U:H2'	35:DA:1688:U:O2	2.11	0.51
45:DO:40:VAL:HA	45:DO:58:VAL:O	2.11	0.51
35:BA:1947:C:O2'	35:BA:1948:G:H5'	2.10	0.51
13:CM:48:LEU:HD11	13:CM:53:VAL:HG22	1.93	0.51
35:BA:862:G:H2'	35:BA:863:A:O4'	2.11	0.51
1:AA:666:G:H2'	1:AA:667:G:H8	1.76	0.51
1:AA:740:U:O2'	1:AA:741:G:H5'	2.11	0.51
53:BW:17:VAL:O	53:BW:20:VAL:HG23	2.10	0.51
35:BA:1643:G:H2'	35:BA:1644:C:C6	2.46	0.51
53:BW:51:LEU:O	53:BW:51:LEU:HD22	2.11	0.51
1:AA:355:C:C2	1:AA:356:A:C8	2.99	0.51
35:BA:1532:C:O2	35:BA:1532:C:H2'	2.10	0.51
11:CK:123:LYS:O	11:CK:124:LYS:C	2.50	0.51
29:B3:3:ARG:HG2	29:B3:38:GLU:OE2	2.11	0.51
25:CY:55:ILE:CD1	25:CY:55:ILE:N	2.74	0.51
37:BC:86:ALA:O	37:BC:94:VAL:HG21	2.10	0.51
3:CC:35:GLU:HA	3:CC:38:ARG:HG2	1.93	0.51
35:DA:271(L):U:H4'	35:DA:271(M):G:N7	2.26	0.51
35:BA:179:G:O2'	35:BA:180:G:H5'	2.11	0.51
1:AA:751:U:C2'	1:AA:752:G:H5'	2.40	0.51
35:DA:2870:C:H2'	35:DA:2871:C:H5'	1.93	0.51
5:AE:93:PRO:HA	5:AE:118:ILE:HD12	1.92	0.51
35:DA:2090:G:H2'	35:DA:2091:U:O4'	2.10	0.51
1:AA:1332:A:H2'	1:AA:1333:A:C8	2.45	0.51
37:BC:40:THR:HG21	37:BC:215:THR:CB	2.40	0.51
1:CA:594:G:O2'	1:CA:595:G:H5'	2.11	0.51
3:AC:18:TRP:HE3	3:AC:18:TRP:H	1.54	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DO:105:GLU:HA	45:DO:108:GLU:HG3	1.93	0.51
50:DT:120:ARG:HA	50:DT:123:GLN:HG2	1.92	0.51
50:DT:81:PRO:C	50:DT:82:LEU:HD12	2.31	0.51
35:BA:1800:C:OP1	38:BD:264:LYS:NZ	2.44	0.51
38:BD:25:THR:HG23	38:BD:27:THR:HB	1.93	0.51
38:BD:43:ARG:CB	38:BD:54:ARG:HB2	2.40	0.51
1:CA:18:C:C5'	5:CE:127:ASN:HD21	2.24	0.51
35:DA:1827:C:OP2	38:DD:222:ARG:NH1	2.44	0.51
38:DD:21:PHE:O	38:DD:23:GLU:N	2.43	0.51
35:DA:2303:G:H2'	35:DA:2304:G:O4'	2.11	0.51
35:DA:2313:C:H5'	35:DA:2313:C:C6	2.46	0.51
41:DG:104:GLU:C	41:DG:106:LEU:N	2.64	0.51
41:DG:44:GLY:O	41:DG:46:ALA:N	2.44	0.51
32:B6:30:THR:O	32:B6:31:PRO:C	2.49	0.51
45:BO:77:ILE:HD13	50:BT:74:ARG:HG3	1.92	0.51
56:BZ:54:HIS:HB3	56:BZ:101:PRO:HD3	1.93	0.51
35:BA:2811:G:H8	35:BA:2811:G:H5''	1.76	0.51
51:BU:55:ARG:HA	51:BU:58:ARG:CG	2.40	0.51
52:BV:61:VAL:CG2	52:BV:99:ILE:HB	2.39	0.51
35:DA:1863:G:H1	35:DA:1879:C:N4	2.09	0.51
27:B1:10:LYS:HB2	27:B1:13:ILE:C	2.31	0.51
35:BA:394:A:H2'	35:BA:395:U:H5'	1.91	0.51
34:B8:62:LEU:N	34:B8:63:PRO:HD2	2.26	0.51
42:BH:98:LEU:HD12	42:BH:102:ALA:O	2.11	0.51
42:BH:125:VAL:HG12	42:BH:125:VAL:O	2.11	0.51
35:DA:558:G:OP1	44:DN:111:PRO:HD2	2.10	0.51
35:BA:1495:A:H2'	35:BA:1495:A:N3	2.26	0.51
35:DA:1885:A:H3'	35:DA:1886:C:H6	1.74	0.51
35:DA:2481:G:HO2'	35:DA:2482:G:P	2.33	0.51
19:CS:6:LYS:CD	19:CS:6:LYS:H	2.22	0.51
19:CS:9:VAL:O	19:CS:11:VAL:N	2.44	0.51
32:D6:12:GLU:HB2	32:D6:23:THR:HG22	1.92	0.51
43:DI:83:ALA:HA	43:DI:89:TYR:CD1	2.46	0.51
40:BF:117:ARG:CZ	46:BP:5:ASP:N	2.74	0.51
46:BP:21:ARG:HG2	46:BP:21:ARG:O	2.11	0.51
35:DA:631:A:H4'	46:DP:65:ARG:HA	1.93	0.51
35:BA:2241:A:H2'	35:BA:2242:G:H8	1.73	0.51
46:BP:48:PRO:CD	46:BP:49:ARG:H	2.24	0.51
40:DF:114:VAL:O	40:DF:117:ARG:N	2.44	0.51
55:BY:99:CYS:O	55:BY:100:ALA:HB2	2.11	0.51
1:AA:1433:A:N7	1:AA:1468:A:C6	2.78	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1479:C:H2'	1:AA:1480:G:O4'	2.10	0.51
36:DB:28:C:O2'	36:DB:29:A:H5'	2.11	0.51
2:CB:234:PRO:O	2:CB:236:TYR:N	2.44	0.51
2:AB:92:TYR:CD2	2:AB:151:GLY:HA3	2.45	0.51
35:DA:2534:A:H2'	35:DA:2535:G:O4'	2.11	0.51
44:DN:27:ALA:O	44:DN:28:THR:C	2.48	0.51
6:CF:30:LEU:HB3	6:CF:35:ALA:HB3	1.92	0.51
18:CR:37:VAL:O	18:CR:38:GLU:C	2.48	0.51
18:CR:66:LEU:HG	18:CR:70:ILE:HD11	1.92	0.51
35:DA:585:G:H2'	35:DA:586:A:N7	2.26	0.51
46:DP:34:GLY:O	46:DP:35:HIS:C	2.49	0.51
1:AA:503:C:O2'	1:AA:504:C:H5'	2.11	0.51
1:AA:542:G:C4	1:AA:543:C:C5	2.99	0.51
47:DQ:9:TYR:C	47:DQ:9:TYR:CD2	2.84	0.51
18:AR:74:ARG:HE	18:AR:81:PHE:CA	2.21	0.51
47:BQ:59:ARG:HG3	47:BQ:59:ARG:HH11	1.74	0.51
1:CA:819:A:N7	1:CA:1529:G:C6	2.79	0.51
13:CM:82:MET:HB3	13:CM:93:ARG:NH1	2.26	0.51
1:AA:1268:A:H4'	21:AU:20:LYS:N	2.25	0.51
1:AA:376:G:H5''	16:AP:5:ARG:CD	2.41	0.51
20:CT:32:ALA:C	20:CT:36:LEU:HD23	2.31	0.51
1:AA:1216:G:O3'	14:AN:5:ALA:HB1	2.11	0.51
7:AG:92:SER:OG	7:AG:93:PRO:HD2	2.11	0.51
11:AK:62:GLN:C	11:AK:64:ALA:H	2.14	0.51
35:BA:1424:G:OP1	38:BD:33:LEU:HD21	2.11	0.51
1:CA:638:G:O2'	1:CA:639:G:H5'	2.11	0.51
1:CA:640:A:O2'	1:CA:641:U:H5'	2.10	0.51
42:BH:44:VAL:CG1	42:BH:45:VAL:H	2.23	0.51
1:AA:18:C:H4'	1:AA:1078:U:O2	2.11	0.51
1:AA:522:C:N4	1:AA:528:C:N4	2.57	0.51
5:AE:149:GLU:C	5:AE:151:LEU:H	2.12	0.51
5:CE:95:ALA:O	5:CE:96:PRO:C	2.50	0.51
31:D5:11:THR:O	31:D5:12:SER:C	2.49	0.51
46:BP:135:LEU:CD1	46:BP:139:LYS:HD2	2.42	0.51
7:CG:119:ARG:O	7:CG:120:ILE:C	2.50	0.51
35:BA:1771:C:H1'	35:BA:1786:A:C8	2.45	0.51
5:AE:95:ALA:O	5:AE:96:PRO:C	2.50	0.51
17:AQ:92:ARG:O	17:AQ:94:ASN:N	2.44	0.51
38:DD:54:ARG:H	38:DD:218:ARG:HG3	1.76	0.51
35:BA:17:G:H2'	35:BA:18:C:C6	2.45	0.51
17:CQ:15:MET:HG2	17:CQ:16:GLN:H	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:679:C:O2	35:BA:680:G:C8	2.64	0.51
20:CT:72:LEU:HB3	20:CT:76:ALA:HB1	1.91	0.51
35:DA:1952:A:C4	45:DO:22:ILE:HD12	2.46	0.51
8:CH:104:ARG:O	8:CH:107:LEU:HB3	2.10	0.51
35:BA:290:G:C2'	35:BA:291:C:H5'	2.41	0.51
13:CM:2:ALA:O	13:CM:9:ILE:HG13	2.11	0.51
1:AA:66:G:N2	1:AA:172:A:H2	2.08	0.51
15:AO:82:ILE:HG12	15:AO:87:ILE:HB	1.92	0.51
35:DA:1465:G:C4'	35:DA:1528:A:H8	2.24	0.51
35:BA:132:G:C8	35:BA:132:G:H5'	2.41	0.51
2:AB:28:PHE:O	2:AB:28:PHE:HD1	1.92	0.51
36:BB:65:C:H2'	36:BB:66:A:H5'	1.92	0.51
38:DD:247:ALA:CA	38:DD:254:THR:HG22	2.39	0.51
27:D1:16:ASN:N	27:D1:16:ASN:ND2	2.51	0.51
1:AA:285:G:O2'	1:AA:286:G:H5'	2.11	0.51
35:BA:2840:C:H2'	35:BA:2841:C:H6	1.76	0.51
35:BA:2056:G:N2	35:BA:2057:A:C1'	2.74	0.51
53:BW:69:LEU:HA	53:BW:109:GLU:HA	1.93	0.51
35:DA:519:U:H4'	53:DW:25:ARG:HH22	1.75	0.51
35:BA:2886:G:N2	35:BA:2887:U:C2	2.79	0.51
3:AC:91:LEU:HB2	3:AC:99:VAL:HG21	1.93	0.51
35:DA:1181:C:H2'	35:DA:1182:A:C8	2.46	0.51
1:CA:882:C:O2'	1:CA:883:C:H5'	2.10	0.51
35:DA:178:G:O2'	35:DA:179:G:H5'	2.11	0.51
35:BA:1382:G:O2'	35:BA:1383:C:H5'	2.10	0.51
35:BA:823:G:H2'	35:BA:824:A:C8	2.46	0.51
35:BA:2064:C:H1'	35:BA:2450:A:C6	2.46	0.51
40:BF:80:ALA:HB3	40:BF:83:PHE:CD1	2.46	0.51
1:CA:1419:G:N2	1:CA:1482:G:C1'	2.74	0.51
1:AA:1146:A:H2'	1:AA:1147:C:O5'	2.11	0.51
1:AA:1420:C:H3'	1:AA:1420:C:H6	1.76	0.51
35:DA:2758:A:C3'	35:DA:2759:G:H5''	2.41	0.50
35:DA:1678:G:OP2	35:DA:1678:G:C8	2.64	0.50
1:CA:346:G:P	45:DO:107:ARG:HH22	2.33	0.50
50:DT:22:PHE:O	50:DT:23:ARG:HB3	2.11	0.50
9:CI:126:SER:C	9:CI:128:ARG:H	2.14	0.50
38:BD:24:ILE:HD13	38:BD:24:ILE:O	2.11	0.50
35:DA:1828:G:O6	38:DD:222:ARG:HD3	2.10	0.50
38:DD:12:SER:HB2	38:DD:208:LYS:HB3	1.94	0.50
16:CP:20:VAL:HG22	16:CP:21:VAL:N	2.26	0.50
35:BA:2850:A:H5'	35:BA:2868:A:H2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BO:104:ARG:C	45:BO:106:LEU:N	2.59	0.50
45:BO:104:ARG:HG2	45:BO:105:GLU:OE1	2.12	0.50
39:BE:34:VAL:O	39:BE:35:GLN:HB2	2.11	0.50
35:DA:1578:U:C2'	35:DA:1579:A:H5''	2.41	0.50
35:BA:996:A:O4'	51:BU:92:ARG:NH2	2.44	0.50
52:BV:22:VAL:CG2	52:BV:96:ILE:HB	2.42	0.50
42:DH:85:LYS:O	42:DH:132:ARG:CA	2.58	0.50
9:AI:126:SER:C	9:AI:128:ARG:H	2.14	0.50
34:D8:60:LEU:HD23	34:D8:60:LEU:N	2.26	0.50
28:B2:22:GLU:HB3	54:BX:5:TYR:CD1	2.46	0.50
28:B2:51:ARG:O	28:B2:52:ASP:HB2	2.11	0.50
54:BX:51:VAL:CG1	54:BX:80:ILE:N	2.75	0.50
27:B1:93:GLU:N	27:B1:93:GLU:CD	2.65	0.50
2:AB:81:VAL:HG22	2:AB:215:LEU:HG	1.92	0.50
41:BG:55:LYS:C	41:BG:57:ALA:H	2.14	0.50
54:DX:52:VAL:H	54:DX:80:ILE:CG2	2.23	0.50
54:DX:85:PRO:O	54:DX:86:GLY:C	2.47	0.50
42:BH:130:ARG:NH1	42:BH:130:ARG:HB2	2.27	0.50
47:DQ:132:VAL:HG12	47:DQ:133:ARG:N	2.25	0.50
56:DZ:89:PHE:HE1	56:DZ:96:VAL:HG21	1.75	0.50
35:DA:2777:G:H4'	35:DA:2778:A:H5'	1.92	0.50
44:DN:46:VAL:CG1	44:DN:48:MET:HG3	2.40	0.50
51:DU:66:ASN:OD1	51:DU:76:TYR:HB2	2.11	0.50
51:DU:91:ASP:OD2	51:DU:96:ALA:HB2	2.11	0.50
45:DO:119:PRO:HB2	50:DT:68:TYR:HE1	1.72	0.50
4:CD:153:ARG:CB	4:CD:153:ARG:HH11	2.24	0.50
4:CD:14:ARG:C	4:CD:16:GLY:H	2.15	0.50
47:BQ:20:ALA:HB2	47:BQ:99:PRO:CD	2.41	0.50
35:BA:619:G:O5'	35:BA:620:G:N2	2.44	0.50
35:BA:662:G:H2'	35:BA:663:G:H8	1.74	0.50
40:BF:3:GLU:HG3	40:BF:19:GLU:HB2	1.92	0.50
35:DA:1024:G:N2	35:DA:1142(A):A:H2	2.09	0.50
46:BP:48:PRO:O	46:BP:49:ARG:C	2.49	0.50
35:DA:442:G:O4'	40:DF:46:ARG:HG2	2.11	0.50
55:BY:87:LYS:CG	55:BY:88:LYS:N	2.73	0.50
36:DB:56:G:H4'	36:DB:57:A:H8	1.75	0.50
27:D1:23:LYS:O	27:D1:37:ILE:HG12	2.11	0.50
56:BZ:146:ILE:HG13	56:BZ:147:GLY:N	2.26	0.50
1:CA:740:U:O3'	15:CO:39:LEU:HD23	2.11	0.50
6:CF:88:VAL:HG12	6:CF:89:MET:N	2.25	0.50
35:DA:576:U:OP1	35:DA:2503:A:OP1	2.30	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:587:C:H3'	46:DP:33:ARG:NH1	2.23	0.50
35:DA:669:G:O2'	35:DA:670:A:OP1	2.27	0.50
35:BA:1885:A:H3'	35:BA:1886:C:C6	2.46	0.50
47:DQ:74:TYR:HB3	47:DQ:91:GLU:CD	2.31	0.50
18:AR:30:ASP:C	18:AR:32:ARG:H	2.13	0.50
7:AG:26:PHE:CE1	7:AG:105:VAL:HG22	2.46	0.50
1:CA:552:U:H4'	12:CL:86:ARG:HG2	1.92	0.50
43:BI:6:LEU:O	43:BI:8:PRO:N	2.44	0.50
11:AK:57:THR:O	11:AK:60:ALA:HB3	2.11	0.50
55:BY:37:VAL:CG2	55:BY:38:ILE:N	2.71	0.50
40:DF:99:TYR:CG	40:DF:99:TYR:O	2.64	0.50
46:DP:21:ARG:HG2	46:DP:21:ARG:O	2.09	0.50
11:CK:32:ILE:HD12	11:CK:72:ALA:HB2	1.92	0.50
1:AA:599:C:H2'	1:AA:600:C:C6	2.47	0.50
1:AA:512:U:H2'	1:AA:513:C:H6	1.76	0.50
12:AL:89:ARG:HD3	12:AL:89:ARG:C	2.31	0.50
8:AH:85:ARG:HG3	8:AH:85:ARG:HH11	1.76	0.50
18:AR:59:SER:OG	18:AR:60:ALA:N	2.44	0.50
9:AI:47:LEU:N	9:AI:47:LEU:HD12	2.24	0.50
12:AL:54:LYS:O	12:AL:70:ILE:HD13	2.11	0.50
35:DA:1177:A:H3'	35:DA:1177:A:P	2.50	0.50
9:CI:3:GLN:CG	9:CI:20:ARG:HH21	2.24	0.50
33:D7:34:ARG:HE	33:D7:39:ARG:HE	1.58	0.50
38:BD:118:VAL:CG2	38:BD:119:ALA:N	2.73	0.50
31:D5:20:ARG:O	31:D5:23:HIS:CD2	2.65	0.50
38:DD:112:GLN:N	38:DD:112:GLN:OE1	2.44	0.50
11:CK:96:ARG:HA	11:CK:99:GLN:CG	2.40	0.50
1:CA:1409:C:H2'	1:CA:1410:G:C8	2.46	0.50
51:DU:3:ARG:CG	51:DU:3:ARG:NH1	2.69	0.50
35:DA:681:G:H2'	35:DA:682:G:O4'	2.11	0.50
1:CA:390:C:H2'	1:CA:391:G:H8	1.76	0.50
35:DA:2830:G:H5'	39:DE:58:ARG:CZ	2.40	0.50
17:AQ:15:MET:HG2	17:AQ:16:GLN:H	1.76	0.50
1:AA:665:A:C2'	1:AA:725:G:N2	2.73	0.50
15:AO:87:ILE:HG22	15:AO:88:ARG:N	2.26	0.50
35:BA:1390:U:H6	35:BA:1390:U:OP2	1.93	0.50
7:CG:145:ALA:O	7:CG:147:ALA:N	2.36	0.50
1:CA:227:G:H2'	1:CA:228:A:C8	2.46	0.50
1:AA:819:A:N7	1:AA:1529:G:N1	2.58	0.50
44:DN:13:TRP:O	44:DN:135:PRO:HG2	2.11	0.50
35:BA:604:G:H2'	35:BA:605:C:H6	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BI:33:ARG:O	43:BI:35:LEU:HG	2.11	0.50
35:DA:305:U:O2'	35:DA:306:U:H5'	2.10	0.50
35:BA:426:C:C2'	35:BA:427:U:H5'	2.41	0.50
25:AY:78:ALA:HA	25:AY:81:LYS:HG3	1.93	0.50
35:BA:2264:C:H2'	35:BA:2265:U:H6	1.77	0.50
1:CA:1251:A:H2'	1:CA:1252:A:C8	2.46	0.50
50:DT:130:ALA:O	50:DT:131:ALA:C	2.49	0.50
35:DA:1487:G:N2	35:DA:1488:G:H1'	2.25	0.50
1:AA:397:A:H5'	1:AA:398:C:OP1	2.11	0.50
35:BA:1669:A:H5''	35:BA:2550:G:OP1	2.10	0.50
13:AM:87:TYR:N	19:AS:73:GLU:O	2.34	0.50
51:BU:38:THR:O	51:BU:41:ALA:HB3	2.12	0.50
35:DA:1357:U:O2'	35:DA:1358:G:H5'	2.11	0.50
2:CB:221:LEU:HD13	2:CB:221:LEU:O	2.10	0.50
34:B8:5:LYS:N	34:B8:5:LYS:HD2	2.27	0.50
35:DA:1676:A:H2'	35:DA:1677:A:O4'	2.12	0.50
50:DT:23:ARG:HB2	50:DT:24:PRO:HD2	1.93	0.50
39:DE:12:THR:HG23	50:DT:8:LYS:HE2	1.92	0.50
1:CA:979:C:OP1	1:CA:1223:C:N4	2.44	0.50
3:CC:24:ALA:HB1	3:CC:28:GLN:O	2.10	0.50
35:BA:1825:A:H2'	35:BA:1826:G:C8	2.47	0.50
38:BD:211:ARG:HG2	38:BD:211:ARG:HH11	1.75	0.50
1:CA:1077:G:N2	1:CA:1079:G:H3'	2.26	0.50
5:CE:33:VAL:CG2	5:CE:43:LEU:HD13	2.38	0.50
35:DA:1804:C:O2'	35:DA:1805:U:H5'	2.11	0.50
38:DD:245:PRO:O	38:DD:246:PRO:C	2.48	0.50
41:DG:120:LEU:H	41:DG:179:PRO:HG2	1.75	0.50
45:BO:80:ASP:HB2	50:BT:71:GLY:O	2.10	0.50
56:BZ:137:ILE:HD11	56:BZ:156:LYS:O	2.11	0.50
39:DE:117:MET:SD	39:DE:136:ARG:NH1	2.85	0.50
39:BE:32:PRO:O	39:BE:34:VAL:HG13	2.11	0.50
35:DA:1576:U:H2'	35:DA:1577:C:H6	1.76	0.50
51:BU:68:ALA:O	51:BU:71:GLN:N	2.44	0.50
42:DH:85:LYS:HZ1	42:DH:144:VAL:C	2.13	0.50
35:DA:2810:A:O2'	39:DE:61:ARG:NE	2.43	0.50
27:B1:18:ILE:CG2	27:B1:42:GLN:O	2.58	0.50
55:DY:98:VAL:O	55:DY:99:CYS:SG	2.68	0.50
42:BH:89:ILE:CG1	42:BH:90:LYS:N	2.74	0.50
44:DN:42:TRP:CD2	44:DN:44:PRO:HD3	2.45	0.50
19:CS:72:GLY:C	19:CS:74:PHE:H	2.15	0.50
49:BS:92:TYR:CD2	49:BS:97:ARG:NH1	2.79	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:D1:68:PRO:O	27:D1:70:VAL:HG23	2.12	0.50
46:BP:39:LYS:C	46:BP:41:ARG:N	2.65	0.50
40:DF:184:TYR:HD2	40:DF:185:ASP:N	2.09	0.50
48:DR:116:LEU:O	48:DR:117:VAL:CB	2.58	0.50
20:AT:24:LEU:O	20:AT:27:LYS:HB3	2.11	0.50
48:BR:21:TYR:OH	48:BR:43:GLU:HG2	2.11	0.50
48:BR:73:VAL:HG23	48:BR:74:LYS:HD2	1.93	0.50
36:DB:28:C:N4	36:DB:56:G:H1	2.10	0.50
43:BI:72:LEU:O	43:BI:138:ILE:HG12	2.10	0.50
2:CB:92:TYR:CD2	2:CB:151:GLY:HA3	2.46	0.50
19:AS:12:ASP:CB	19:AS:15:LEU:HD23	2.41	0.50
1:AA:540:G:C2	1:AA:541:G:C4	2.99	0.50
47:DQ:88:GLY:C	47:DQ:90:VAL:H	2.12	0.50
6:AF:21:LEU:C	6:AF:25:ILE:HG12	2.31	0.50
3:AC:171:GLY:O	3:AC:172:ARG:O	2.29	0.50
16:AP:58:TYR:O	16:AP:61:SER:OG	2.22	0.50
13:CM:91:ARG:HD3	19:CS:81:ARG:NH2	2.26	0.50
11:CK:28:THR:CG2	11:CK:29:ILE:N	2.73	0.50
43:BI:109:ILE:O	43:BI:109:ILE:HD12	2.10	0.50
26:B0:41:ARG:HH21	35:BA:2387:U:H1'	1.76	0.50
7:AG:86:GLN:HG2	23:AW:33:C:C4'	2.41	0.50
1:AA:957:U:H1'	1:AA:960:U:C4	2.45	0.50
3:CC:172:ARG:HB3	3:CC:174:PRO:HD3	1.94	0.50
42:BH:17:VAL:HB	42:BH:45:VAL:HG22	1.92	0.50
1:AA:1505:G:H4'	1:AA:1506:U:C5'	2.34	0.50
1:AA:1501:C:OP1	1:AA:1508:G:H4'	2.12	0.50
12:AL:89:ARG:HH11	12:AL:89:ARG:CB	2.24	0.50
9:AI:4:TYR:CE1	9:AI:21:PRO:HD3	2.47	0.50
31:D5:30:LEU:HD23	31:D5:41:PRO:CA	2.41	0.50
46:DP:96:THR:HB	46:DP:97:PRO:CD	2.41	0.50
46:BP:106:LEU:C	46:BP:107:LYS:HG2	2.32	0.50
15:AO:10:LYS:HG3	15:AO:11:VAL:N	2.26	0.50
35:BA:1269:A:H2'	35:BA:1270:C:C6	2.46	0.50
53:BW:10:VAL:HB	53:BW:101:SER:O	2.11	0.50
38:DD:117:VAL:CG2	38:DD:118:VAL:N	2.74	0.50
32:B6:20:ASN:ND2	32:B6:21:TYR:N	2.51	0.50
38:BD:113:VAL:O	38:BD:115:GLN:N	2.32	0.50
35:BA:1707:G:H2'	35:BA:1708:C:H6	1.76	0.50
13:AM:49:THR:HB	13:AM:52:GLU:CG	2.37	0.50
13:AM:69:GLU:HA	13:AM:70:LEU:N	2.25	0.50
1:AA:1277:C:O2'	1:AA:1278:U:H5'	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:277:C:P	17:AQ:41:LYS:HZ1	2.33	0.50
17:CQ:86:GLU:HA	17:CQ:89:LEU:HB3	1.93	0.50
23:CW:9:G:H3'	23:CW:10:G:C8	2.47	0.50
35:DA:2545:G:N2	35:DA:2546:U:H1'	2.26	0.50
35:DA:184:C:O2'	35:DA:185:U:H5'	2.10	0.50
23:CW:55:5MU:H73	23:CW:56:U:O4	2.11	0.50
38:BD:167:GLY:O	38:BD:168:ARG:HG2	2.12	0.50
2:CB:157:ARG:CG	2:CB:158:LEU:H	2.24	0.50
3:CC:56:ASP:O	3:CC:57:ILE:HG13	2.10	0.50
40:BF:22:ALA:HA	40:BF:26:ALA:HB2	1.92	0.50
35:DA:38:A:H2'	35:DA:39:C:C6	2.46	0.50
1:CA:622:A:C8	1:CA:623:C:C6	3.00	0.50
11:CK:48:ILE:N	11:CK:48:ILE:HD13	2.26	0.50
35:BA:948:G:H2'	35:BA:949:C:H6	1.75	0.50
2:CB:118:LEU:HD11	2:CB:141:GLU:OE1	2.10	0.50
1:AA:838:G:O2'	1:AA:839:U:H5''	2.11	0.50
28:B2:38:GLN:O	28:B2:39:ALA:C	2.49	0.50
35:DA:1910:G:C6	35:DA:1921:G:C6	2.98	0.50
17:CQ:80:GLY:O	17:CQ:81:ARG:HG2	2.11	0.50
15:AO:4:THR:OG1	15:AO:7:GLU:HB2	2.12	0.50
12:CL:20:LYS:H	12:CL:20:LYS:HD3	1.76	0.50
25:AY:184:LEU:C	25:AY:184:LEU:HD23	2.31	0.50
56:DZ:137:ILE:CD1	56:DZ:157:LEU:HD23	2.41	0.50
35:DA:1991:U:C2'	35:DA:1992:G:C5'	2.90	0.50
35:BA:779:U:H2'	35:BA:780:G:H8	1.76	0.50
38:DD:223:GLY:HA2	38:DD:226:MET:SD	2.52	0.50
38:DD:35:LYS:CG	38:DD:64:ILE:H	2.10	0.50
35:BA:2759:G:H5'	35:BA:2759:G:C8	2.46	0.50
41:DG:114:ILE:CG2	41:DG:115:ARG:H	2.17	0.50
41:DG:46:ALA:HA	41:DG:51:ARG:HD3	1.93	0.50
46:BP:68:GLN:HG3	46:BP:68:GLN:O	2.11	0.50
45:BO:104:ARG:NH2	50:BT:33:LYS:HE3	2.26	0.50
45:BO:68:GLU:OE2	45:BO:68:GLU:N	2.44	0.50
56:BZ:3:TYR:O	56:BZ:58:VAL:N	2.44	0.50
56:BZ:58:VAL:HA	56:BZ:68:PRO:CA	2.41	0.50
47:BQ:141:GLN:HG2	56:BZ:72:ARG:HG2	1.93	0.50
35:DA:1495:A:N3	35:DA:1495:A:H2'	2.26	0.50
42:DH:140:LYS:O	42:DH:144:VAL:HG23	2.11	0.50
14:AN:36:PHE:CD1	14:AN:36:PHE:O	2.64	0.50
28:B2:55:ARG:C	28:B2:57:ILE:H	2.14	0.50
54:BX:31:HIS:ND1	54:BX:32:PRO:HD2	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DE:197:ILE:CG1	39:DE:199:ARG:HH12	2.22	0.50
35:BA:2221:G:H5'	35:BA:2222:G:OP2	2.12	0.50
35:DA:1348:G:H2'	35:DA:1349:A:C5'	2.28	0.50
35:BA:2597:G:H2'	35:BA:2598:A:C8	2.47	0.50
56:DZ:47:VAL:HG12	56:DZ:51:ALA:HB2	1.93	0.50
51:DU:88:ILE:O	51:DU:90:VAL:N	2.44	0.50
51:DU:98:LEU:C	51:DU:100:VAL:H	2.14	0.50
52:DV:18:LEU:CD2	52:DV:19:LYS:H	2.11	0.50
52:DV:98:GLU:N	52:DV:98:GLU:OE1	2.44	0.50
10:AJ:96:ILE:HD13	10:AJ:96:ILE:N	2.26	0.50
47:DQ:57:HIS:C	47:DQ:57:HIS:ND1	2.64	0.50
35:DA:2639:A:C2'	35:DA:2640:G:C5'	2.82	0.50
35:BA:261:G:C1'	35:BA:609:A:H2	2.24	0.50
35:BA:1195:G:H2'	35:BA:1196:C:C6	2.46	0.50
40:DF:185:ASP:HA	40:DF:188:ARG:CB	2.40	0.50
40:DF:125:LEU:HD12	40:DF:196:LEU:CD2	2.41	0.50
48:DR:35:THR:HG23	48:DR:112:ALA:O	2.11	0.50
35:BA:1278:A:C5'	48:BR:36:THR:HG22	2.42	0.50
50:BT:100:TYR:CD1	50:BT:100:TYR:N	2.79	0.50
50:BT:108:ARG:NH1	50:BT:108:ARG:HB3	2.27	0.50
49:DS:66:ALA:HA	49:DS:69:VAL:CG1	2.41	0.50
49:DS:90:GLY:HA2	49:DS:92:TYR:CE2	2.47	0.50
44:BN:126:PRO:O	44:BN:127:ASP:CB	2.60	0.50
35:DA:818:G:N2	35:DA:1190:G:C6	2.80	0.50
46:DP:34:GLY:O	46:DP:36:LYS:HG3	2.11	0.50
46:DP:48:PRO:O	46:DP:49:ARG:C	2.49	0.50
52:DV:88:ARG:HG3	52:DV:88:ARG:NH1	2.26	0.50
35:DA:1215:G:H2'	35:DA:1216:G:O4'	2.11	0.50
19:AS:20:LEU:O	19:AS:23:ASN:HB3	2.11	0.50
43:DI:102:SER:HB2	43:DI:109:ILE:CG2	2.40	0.50
35:DA:956:G:H22	35:DA:959:A:H3'	1.75	0.50
18:AR:26:LEU:HD21	18:AR:42:ARG:CZ	2.41	0.50
35:DA:566:U:H2'	35:DA:567:A:C8	2.46	0.50
7:AG:103:TRP:O	7:AG:104:LEU:C	2.49	0.50
25:CY:64:ARG:HA	25:CY:103:ILE:HG13	1.91	0.50
43:BI:2:LYS:O	43:BI:3:VAL:HG13	2.11	0.50
1:CA:989:C:O2'	1:CA:990:C:H5'	2.11	0.50
16:AP:6:LEU:HD23	16:AP:17:TYR:CD2	2.47	0.50
39:BE:132:HIS:O	39:BE:135:HIS:CD2	2.64	0.50
25:AY:63:PRO:HB2	25:AY:64:ARG:NH2	2.27	0.50
1:CA:940:C:H2'	1:CA:941:G:C8	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:69:ALA:O	11:AK:70:LYS:C	2.50	0.50
55:BY:2:ARG:N	55:BY:5:MET:CE	2.74	0.50
1:AA:15:G:H4'	5:AE:24:ARG:HH21	1.77	0.50
9:CI:102:LEU:O	9:CI:103:THR:OG1	2.22	0.50
1:AA:1368:G:OP2	9:AI:112:LYS:HE3	2.11	0.50
12:CL:89:ARG:NE	12:CL:91:LYS:HE2	2.27	0.50
35:DA:456:C:N3	54:DX:66:LEU:HD22	2.26	0.50
7:CG:122:HIS:O	7:CG:125:MET:N	2.44	0.50
38:DD:111:LEU:HD13	38:DD:112:GLN:N	2.26	0.50
38:DD:111:LEU:HD22	38:DD:115:GLN:OE1	2.12	0.50
35:BA:614:U:H4'	35:BA:614(C):A:H62	1.76	0.50
1:CA:1486:G:H2'	1:CA:1487:G:C8	2.47	0.50
39:DE:167:VAL:CG2	39:DE:168:MET:H	2.21	0.50
1:AA:255:G:H2'	1:AA:256:U:C6	2.45	0.50
5:AE:121:LYS:HD2	5:AE:122:GLU:H	1.77	0.50
16:AP:28:ARG:HG2	16:AP:28:ARG:NH1	2.24	0.50
16:AP:82:GLN:O	16:AP:84:ALA:N	2.45	0.50
35:DA:2591:C:P	38:DD:239:ARG:HG3	2.51	0.50
3:CC:84:ILE:CA	3:CC:87:LEU:HD12	2.38	0.50
13:AM:74:VAL:O	13:AM:78:ILE:HG13	2.11	0.50
35:BA:447:A:C4	35:BA:473:G:N7	2.80	0.50
4:CD:128:VAL:CG1	4:CD:129:ASN:H	2.14	0.50
17:AQ:40:LYS:HG2	17:AQ:41:LYS:N	2.26	0.50
35:DA:1682:G:O2'	35:DA:1683:C:H5'	2.11	0.50
35:BA:1714:G:H2'	35:BA:1717:G:H8	1.75	0.50
7:AG:50:ILE:HG13	7:AG:58:PRO:HB3	1.94	0.50
1:AA:740:U:O3'	15:AO:39:LEU:HD23	2.11	0.50
38:BD:176:ARG:HG2	38:BD:176:ARG:NH1	2.26	0.50
43:DI:45:LYS:O	43:DI:48:GLU:HB3	2.12	0.50
6:CF:85:VAL:HG12	6:CF:85:VAL:O	2.11	0.50
52:DV:1:MET:HE1	52:DV:46:VAL:HG23	1.93	0.50
52:BV:1:MET:CE	52:BV:45:THR:H	2.24	0.50
1:AA:167:G:O2'	1:AA:168:G:H5'	2.11	0.50
7:CG:152:ALA:C	7:CG:154:TYR:N	2.65	0.50
12:CL:76:ASN:O	12:CL:77:LEU:HD23	2.10	0.50
39:BE:173:VAL:O	39:BE:174:ASP:C	2.49	0.50
3:CC:127:ARG:NH1	3:CC:127:ARG:HG2	2.23	0.50
15:AO:64:ARG:O	15:AO:65:ARG:C	2.49	0.50
6:AF:43:LEU:N	6:AF:43:LEU:HD12	2.26	0.50
35:DA:939:G:O2'	35:DA:940:G:H5'	2.11	0.50
35:BA:2065:C:H2'	35:BA:2066:C:H6	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:7:TYR:HB3	40:BF:16:GLY:O	2.11	0.50
35:DA:2368:C:H2'	35:DA:2369:A:C8	2.43	0.50
37:BC:89:ALA:HA	37:BC:153:ILE:CB	2.40	0.50
35:BA:2025:C:H2'	35:BA:2026:C:C6	2.46	0.50
35:BA:382:G:H1	35:BA:392:C:H42	1.58	0.50
35:BA:501:A:H2'	35:BA:502:A:C8	2.46	0.50
35:DA:1649:G:O2'	35:DA:1650:G:H5'	2.11	0.50
1:AA:189(B):C:H2'	1:AA:189(C):C:C6	2.46	0.50
15:CO:4:THR:OG1	15:CO:7:GLU:HB2	2.12	0.50
35:DA:1990:C:H2'	35:DA:1991:U:O4'	2.12	0.50
39:DE:8:LYS:HE3	39:DE:188:VAL:HG13	1.93	0.50
39:DE:9:VAL:CG1	39:DE:25:VAL:HG12	2.40	0.50
35:DA:2726:U:H6	45:DO:67:LYS:HZ3	1.58	0.50
45:DO:86:ILE:O	45:DO:93:PRO:HA	2.11	0.50
1:CA:972:C:C2'	10:CJ:55:LYS:HD3	2.42	0.50
38:BD:267:SER:O	38:BD:269:PHE:CD1	2.65	0.50
35:DA:1778:U:H5	35:DA:1784:A:N3	2.09	0.50
35:DA:1792:G:OP2	38:DD:206:LEU:HD12	2.11	0.50
38:DD:260:ARG:HG2	38:DD:260:ARG:NH1	2.26	0.50
38:DD:27:THR:O	38:DD:29:PRO:HD2	2.11	0.50
50:BT:53:ARG:NE	50:BT:60:THR:OG1	2.44	0.50
47:BQ:28:ALA:HB3	47:BQ:105:GLU:OE2	2.11	0.50
56:BZ:67:LEU:O	56:BZ:69:THR:N	2.43	0.50
35:BA:2805:G:H22	35:BA:2893:G:H1	1.59	0.50
44:BN:42:TRP:CH2	44:BN:44:PRO:HA	2.46	0.50
52:BV:4:ILE:HB	52:BV:40:LEU:HD11	1.93	0.50
52:BV:5:VAL:HB	52:BV:37:VAL:O	2.11	0.50
1:AA:973:G:O4'	10:AJ:55:LYS:HG2	2.11	0.50
39:DE:52:LEU:HB3	39:DE:76:ARG:H	1.76	0.50
37:DC:203:GLY:O	37:DC:204:ALA:HB2	2.12	0.50
54:DX:73:ARG:O	54:DX:73:ARG:HG3	2.11	0.50
42:BH:103:LEU:HD22	42:BH:123:PHE:CE2	2.46	0.50
42:BH:103:LEU:HG	42:BH:105:LEU:CD1	2.42	0.50
42:BH:85:LYS:HB3	42:BH:133:VAL:O	2.12	0.50
42:BH:149:ARG:CB	42:BH:162:ILE:HD11	2.41	0.50
51:DU:98:LEU:O	51:DU:100:VAL:N	2.44	0.50
3:CC:182:ILE:HG23	3:CC:202:ILE:O	2.11	0.50
49:BS:79:ALA:C	49:BS:80:LEU:HD12	2.31	0.50
49:BS:90:GLY:HA2	49:BS:92:TYR:CE2	2.46	0.50
46:DP:70:GLN:CG	46:DP:71:VAL:H	2.24	0.50
44:DN:70:LYS:HG3	44:DN:72:TYR:HE1	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:992:C:O3'	52:BV:75:PHE:CE2	2.64	0.50
48:DR:16:HIS:O	48:DR:19:ALA:N	2.45	0.50
48:DR:82:GLU:OE1	48:DR:83:ILE:HD13	2.11	0.50
35:BA:2821:A:P	48:BR:2:ARG:NH2	2.62	0.50
50:BT:114:LEU:N	50:BT:114:LEU:HD23	2.26	0.50
49:DS:92:TYR:HD2	49:DS:97:ARG:CZ	2.25	0.50
2:AB:196:LEU:O	2:AB:196:LEU:HD12	2.11	0.50
2:AB:58:ILE:O	2:AB:61:LEU:HB3	2.11	0.50
6:CF:72:VAL:CG1	6:CF:73:ASN:H	2.21	0.50
6:CF:75:LEU:HD23	6:CF:79:LEU:HD21	1.93	0.50
15:CO:67:LEU:HD22	15:CO:78:TYR:HE1	1.76	0.50
35:DA:990:A:C6	35:DA:1186:G:H1'	2.46	0.50
52:DV:85:LYS:O	52:DV:87:HIS:N	2.41	0.50
1:AA:429:U:C1'	1:AA:430:A:H5''	2.41	0.50
4:AD:101:LEU:HD23	4:AD:121:VAL:CG1	2.40	0.50
4:AD:119:GLN:NE2	4:AD:123:HIS:NE2	2.59	0.50
4:AD:96:LEU:HD13	4:AD:96:LEU:N	2.27	0.50
4:AD:29:PRO:C	4:AD:30:LYS:HG2	2.32	0.50
43:DI:94:ALA:HA	43:DI:97:ILE:CB	2.42	0.50
51:DU:40:PHE:HD2	51:DU:40:PHE:N	2.10	0.50
25:CY:171:LYS:O	25:CY:175:LEU:HB2	2.11	0.50
1:CA:1226:C:OP1	19:CS:81:ARG:NH1	2.45	0.50
12:CL:9:GLN:O	12:CL:10:LEU:C	2.48	0.50
35:BA:1411:C:O2'	35:BA:1412:A:H8	1.93	0.50
35:DA:2247:A:H2'	35:DA:2248:C:H6	1.76	0.50
35:DA:2280:G:N3	35:DA:2388:A:H2	2.08	0.50
40:DF:132:VAL:HG13	40:DF:133:ASN:N	2.27	0.50
35:BA:2425:A:O4'	35:BA:2427:C:C6	2.65	0.50
55:BY:16:ALA:CA	55:BY:21:LYS:HD2	2.42	0.50
55:BY:28:LYS:HA	55:BY:38:ILE:HG22	1.93	0.50
7:AG:152:ALA:C	7:AG:154:TYR:N	2.65	0.50
23:AW:32:G:N3	23:AW:32:G:H2'	2.26	0.50
1:AA:199:G:H2'	1:AA:200:G:C8	2.45	0.50
12:AL:46:LYS:CG	12:AL:47:LYS:N	2.70	0.50
8:AH:4:ASP:OD2	8:AH:7:ALA:N	2.33	0.50
8:AH:63:LEU:HG	8:AH:65:TYR:OH	2.11	0.50
9:AI:4:TYR:HD1	9:AI:4:TYR:N	2.09	0.50
35:DA:778:G:C5	35:DA:779:U:C4	3.00	0.50
35:BA:1986:A:C2'	35:BA:1987:G:H5''	2.41	0.50
46:BP:124:LYS:HA	46:BP:143:GLY:HA3	1.92	0.50
15:AO:9:GLN:O	15:AO:10:LYS:C	2.50	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2119:A:C3'	35:BA:2120:G:H5''	2.42	0.50
1:CA:932:C:H5''	7:CG:3:ARG:CD	2.35	0.50
35:DA:2298:A:H62	35:DA:2318:G:H8	1.57	0.50
7:AG:66:VAL:O	7:AG:69:VAL:N	2.39	0.50
1:CA:678:U:H2'	1:CA:679:C:H6	1.72	0.50
1:AA:251:G:N2	1:AA:253:U:C4	2.80	0.50
35:DA:1006:C:N3	35:DA:1138:G:C2	2.79	0.50
38:BD:130:ALA:CB	38:BD:192:THR:HA	2.42	0.50
35:DA:1613:G:C6	35:DA:1619:G:C6	2.99	0.50
7:AG:50:ILE:HG21	7:AG:61:VAL:HG21	1.93	0.50
1:AA:658:G:O2'	1:AA:659:U:H5'	2.10	0.50
1:CA:279:A:OP2	17:CQ:95:TYR:OH	2.30	0.50
25:AY:118:VAL:C	25:AY:120:GLN:N	2.64	0.50
1:CA:1483:A:H3'	1:CA:1484:C:H6	1.75	0.50
7:CG:27:ILE:HD11	7:CG:43:PHE:CD2	2.46	0.50
30:B4:43:TYR:C	30:B4:45:GLY:H	2.14	0.50
23:AW:8:U:O2'	23:AW:47:G:N2	2.45	0.50
35:BA:1964:G:H3'	35:BA:1965:C:C5'	2.42	0.50
53:BW:66:GLU:HA	53:BW:69:LEU:HD21	1.94	0.50
42:BH:30:LYS:NZ	42:BH:81:GLU:HA	2.27	0.50
35:DA:426:C:C2'	35:DA:427:U:H5'	2.41	0.50
29:B3:23:LEU:O	29:B3:28:LEU:HB2	2.10	0.50
29:B3:28:LEU:HA	29:B3:33:GLN:OE1	2.12	0.50
50:BT:130:ALA:O	50:BT:131:ALA:C	2.49	0.50
35:DA:948:G:H2'	35:DA:949:C:H6	1.77	0.50
1:AA:1251:A:O2'	1:AA:1252:A:H5'	2.12	0.50
2:CB:9:GLU:O	2:CB:13:ALA:CB	2.60	0.50
35:DA:1433:U:H3	35:DA:1560:G:H1	1.59	0.50
35:DA:435:C:H2'	35:DA:436:C:H5'	1.94	0.50
37:DC:74:VAL:H	37:DC:91:ALA:HB1	1.77	0.50
35:BA:1563:G:O2'	35:BA:1564:C:H5'	2.12	0.50
1:AA:1029:C:H1'	1:AA:1033:G:N1	2.26	0.50
2:CB:21:ARG:O	2:CB:23:ARG:N	2.44	0.50
35:BA:1848:A:H2'	35:BA:1849:G:H8	1.75	0.50
35:BA:1267:U:H2'	35:BA:1267:U:O2	2.11	0.50
1:AA:90:U:H6	1:AA:90:U:O5'	1.94	0.50
46:DP:138:LEU:CD2	46:DP:142:GLY:HA3	2.41	0.50
45:DO:104:ARG:NH2	50:DT:33:LYS:HE3	2.27	0.50
43:BI:88:ILE:HG13	43:BI:122:GLU:HA	1.94	0.50
38:BD:94:LEU:HD12	38:BD:94:LEU:N	2.14	0.50
35:DA:1819:A:O2'	35:DA:1820:U:OP2	2.24	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BQ:141:GLN:HE21	56:BZ:72:ARG:HG2	1.76	0.50
35:DA:2050:C:H2'	35:DA:2051:A:O4'	2.12	0.50
35:DA:2574:G:O2'	39:DE:143:ASN:HB3	2.12	0.50
51:BU:76:TYR:CZ	51:BU:80:ILE:HG13	2.46	0.50
1:AA:1222:G:H5''	19:AS:78:ARG:HH11	1.74	0.50
1:AA:963:G:H2'	1:AA:964:A:H8	1.75	0.50
39:DE:199:ARG:NH1	39:DE:199:ARG:HG3	2.26	0.50
39:DE:31:CYS:HB3	39:DE:49:LEU:HB3	1.94	0.50
28:D2:56:GLN:HE21	28:D2:56:GLN:HA	1.72	0.50
54:DX:57:LEU:O	54:DX:58:HIS:CG	2.64	0.50
42:BH:92:ILE:HG22	42:BH:93:GLY:H	1.76	0.50
56:DZ:141:VAL:HG22	56:DZ:141:VAL:O	2.12	0.50
56:DZ:169:GLU:HG2	56:DZ:170:THR:H	1.76	0.50
52:DV:2:PHE:HB2	52:DV:42:GLY:O	2.12	0.50
14:AN:4:LYS:HA	14:AN:7:ILE:CD1	2.42	0.50
47:DQ:50:ALA:O	47:DQ:54:MET:HB2	2.11	0.50
35:BA:1860:G:H2'	35:BA:1861:G:H8	1.77	0.50
49:BS:17:ARG:NE	49:BS:89:ARG:NH2	2.60	0.50
49:BS:17:ARG:HG3	49:BS:18:ILE:HD13	1.92	0.50
49:BS:26:LEU:HD23	49:BS:28:VAL:HG22	1.92	0.50
49:BS:34:HIS:CE1	49:BS:55:ALA:HB2	2.45	0.50
49:BS:92:TYR:HD2	49:BS:97:ARG:CZ	2.24	0.50
4:CD:173:TRP:O	4:CD:186:LEU:HB2	2.12	0.50
4:CD:56:VAL:C	4:CD:58:LEU:N	2.64	0.50
39:BE:116:VAL:HG22	39:BE:117:MET:H	1.74	0.50
34:D8:29:LYS:HZ3	34:D8:44:LYS:HB2	1.76	0.50
44:DN:72:TYR:N	44:DN:85:ILE:O	2.41	0.50
44:DN:87:LEU:O	44:DN:88:GLU:C	2.50	0.50
40:DF:28:ILE:HA	40:DF:112:MET:HG2	1.94	0.50
55:BY:96:ILE:HG13	55:BY:100:ALA:H	1.75	0.50
35:BA:869:G:H1'	47:BQ:8:LYS:HZ3	1.74	0.50
39:BE:113:PHE:CE2	39:BE:158:GLY:HA2	2.47	0.50
44:DN:54:VAL:HB	44:DN:122:VAL:HG22	1.94	0.50
1:CA:658:G:H1'	15:CO:22:THR:CB	2.38	0.50
1:CA:740:U:O2'	1:CA:741:G:H5'	2.10	0.50
2:CB:196:LEU:HD12	2:CB:196:LEU:O	2.11	0.50
46:DP:48:PRO:CD	46:DP:49:ARG:H	2.24	0.50
4:AD:100:ARG:O	4:AD:103:ASN:HB3	2.12	0.50
55:DY:29:GLU:N	55:DY:29:GLU:OE1	2.43	0.50
55:DY:37:VAL:CG2	55:DY:38:ILE:H	2.04	0.50
35:BA:366:C:H5''	35:BA:403:U:H3	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BQ:57:HIS:C	47:BQ:57:HIS:ND1	2.64	0.50
51:DU:7:GLY:O	51:DU:8:VAL:HG22	2.11	0.50
20:CT:29:LYS:O	20:CT:32:ALA:HB3	2.10	0.50
26:B0:32:ARG:N	26:B0:35:ASN:HD22	1.89	0.50
11:AK:30:VAL:CG2	11:AK:68:ALA:HB2	2.42	0.50
35:BA:1430:C:H2'	35:BA:1431:U:H6	1.77	0.50
35:DA:2745:C:H1'	42:DH:143:GLN:HG2	1.93	0.50
35:BA:307:G:H21	35:BA:330:A:H62	1.59	0.50
1:AA:183:G:H1	1:AA:194:C:H42	1.59	0.50
1:AA:865:A:H2'	1:AA:866:C:H6	1.74	0.50
1:CA:380:G:N1	1:CA:384:G:C6	2.79	0.50
9:AI:28:VAL:HA	9:AI:63:ILE:O	2.11	0.50
9:CI:82:ALA:O	9:CI:96:LEU:HD21	2.12	0.50
35:DA:272(B):G:H2'	35:DA:272(C):G:H8	1.77	0.50
33:D7:9:ARG:NH1	35:DA:1310:G:OP2	2.44	0.50
35:BA:2321:G:H2'	35:BA:2321:G:N3	2.26	0.50
46:BP:128:HIS:O	46:BP:129:ALA:HB2	2.11	0.50
23:AW:27:G:H2'	23:AW:28:U:C6	2.46	0.50
38:DD:186:HIS:CD2	38:DD:188:GLU:HG2	2.46	0.50
35:BA:1786:A:C6	35:BA:1938:A:N7	2.79	0.50
38:BD:239:ARG:NH2	38:BD:239:ARG:HG3	2.21	0.50
1:AA:714:G:H2'	1:AA:715:A:C8	2.47	0.50
50:DT:13:ARG:NH1	50:DT:15:VAL:HG12	2.26	0.50
35:DA:1233:C:C2'	35:DA:1234:U:H5'	2.42	0.50
1:CA:1409:C:H4'	35:DA:1915:U:O4	2.11	0.50
35:DA:1299:G:H5''	35:DA:1300:U:OP1	2.11	0.50
17:AQ:48:GLU:O	17:AQ:50:LYS:N	2.44	0.50
1:AA:112:G:C2'	1:AA:113:G:H5'	2.41	0.50
5:CE:80:ILE:HD11	5:CE:91:LEU:HB2	1.94	0.50
5:CE:41:VAL:HG13	5:CE:113:ALA:HA	1.94	0.50
26:B0:43:THR:HG23	26:B0:43:THR:O	2.12	0.50
46:DP:59:LEU:CA	46:DP:61:ARG:CZ	2.88	0.50
1:AA:1497:G:C2'	1:AA:1498:U:H5'	2.41	0.50
54:DX:12:VAL:HG13	54:DX:17:ALA:HB1	1.94	0.50
35:DA:1720:U:H2'	35:DA:1721:G:H5'	1.92	0.50
35:BA:2545:G:N3	35:BA:2565:A:H2	2.09	0.50
35:DA:694:U:C2'	35:DA:695:G:O5'	2.59	0.50
35:DA:694:U:H2'	35:DA:695:G:O5'	2.11	0.50
35:BA:2559:C:H2'	35:BA:2559:C:O2	2.12	0.50
1:CA:300:A:H2	1:CA:566:G:O6	1.94	0.50
40:DF:32:LEU:C	40:DF:32:LEU:CD2	2.80	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BY:101:LYS:CG	55:BY:102:CYS:N	2.72	0.50
35:BA:215:G:H4'	35:BA:216:A:O5'	2.11	0.50
3:AC:19:GLU:O	3:AC:56:ASP:HA	2.11	0.50
1:CA:1287:A:H2	1:CA:1353:G:N3	2.10	0.50
1:AA:119:A:H4'	1:AA:120:A:O5'	2.12	0.50
1:AA:358:U:H2'	1:AA:359:U:H6	1.76	0.50
1:CA:441:A:C6	1:CA:494:U:C2	2.99	0.50
35:BA:703:U:H2'	35:BA:704:G:C5'	2.41	0.50
52:BV:52:VAL:C	52:BV:54:GLY:N	2.64	0.50
56:DZ:115:GLY:N	56:DZ:177:PRO:HD3	2.26	0.50
2:AB:135:GLN:O	2:AB:139:LYS:HB2	2.12	0.50
6:AF:28:ARG:NH1	6:AF:28:ARG:HG3	2.27	0.50
1:CA:473:G:H2'	1:CA:474:G:C8	2.45	0.50
35:DA:271(H):G:O2'	35:DA:271(I):G:H8	1.94	0.50
1:AA:1132:C:O2'	1:AA:1133:G:H5'	2.11	0.50
1:AA:1517:G:H1'	35:BA:1919:A:O3'	2.12	0.50
1:CA:1333:A:H3'	1:CA:1334:G:H8	1.76	0.50
52:DV:66:ARG:HB2	52:DV:95:LEU:H	1.76	0.50
37:BC:64:LEU:HD12	37:BC:66:HIS:HB2	1.94	0.50
31:D5:7:PRO:HA	35:DA:2615:U:C2	2.47	0.50
35:BA:1956:U:H2'	35:BA:1957:C:H5'	1.93	0.50
35:BA:2441:C:H2'	35:BA:2441:C:O2	2.10	0.50
5:CE:47:LYS:HD3	5:CE:47:LYS:N	2.26	0.50
9:CI:97:LYS:HB3	9:CI:98:PRO:HD3	1.94	0.50
30:D4:17:GLY:O	30:D4:19:GLY:N	2.41	0.50
1:AA:25:C:O2'	1:AA:26:A:H5'	2.11	0.50
19:AS:18:LYS:HA	19:AS:21:GLU:HG2	1.92	0.50
2:AB:17:PHE:C	2:AB:17:PHE:CD2	2.83	0.50
1:CA:963:G:H2'	1:CA:964:A:H8	1.75	0.50
19:CS:77:THR:OG1	19:CS:78:ARG:HD2	2.12	0.50
38:DD:39:LYS:HB2	38:DD:62:TYR:HB2	1.94	0.50
38:DD:94:LEU:N	38:DD:94:LEU:CD1	2.72	0.50
41:DG:114:ILE:CG1	41:DG:117:PHE:HB2	2.42	0.50
32:B6:12:GLU:HB2	32:B6:23:THR:HG22	1.94	0.50
45:BO:1:MET:CG	45:BO:32:TYR:HD2	2.23	0.50
45:BO:104:ARG:CZ	50:BT:33:LYS:HD2	2.42	0.50
47:BQ:32:TYR:CD1	47:BQ:32:TYR:N	2.80	0.50
56:BZ:166:SER:CB	56:BZ:167:PRO:CA	2.86	0.50
56:BZ:42:VAL:HG13	56:BZ:43:GLU:N	2.26	0.50
39:BE:60:ASN:O	39:BE:61:ARG:C	2.50	0.50
42:DH:97:ARG:O	42:DH:125:VAL:HG21	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BX:37:THR:C	54:BX:39:ILE:H	2.14	0.50
42:BH:85:LYS:HZ1	42:BH:144:VAL:C	2.15	0.50
35:BA:2639:A:H3'	35:BA:2640:G:H5'	1.93	0.50
47:DQ:25:ASP:CB	47:DQ:67:ARG:HH22	2.24	0.50
56:DZ:24:LEU:HD21	56:DZ:86:VAL:HG21	1.93	0.50
35:DA:528:A:C2	35:DA:2043:C:H5'	2.30	0.50
35:DA:528:A:OP2	44:DN:114:ARG:HD2	2.12	0.50
51:DU:78:THR:O	51:DU:80:ILE:N	2.44	0.50
52:DV:8:GLY:C	52:DV:10:LYS:H	2.15	0.50
52:DV:96:ILE:HG23	52:DV:97:LYS:H	1.76	0.50
36:BB:29:A:H2'	36:BB:30:C:C6	2.47	0.50
35:BA:224:G:O2'	35:BA:225:A:H5'	2.11	0.50
40:BF:32:LEU:O	40:BF:33:LEU:C	2.50	0.50
46:BP:19:VAL:HG23	46:BP:19:VAL:O	2.11	0.50
35:BA:577:G:H2'	35:BA:578:A:H8	1.76	0.50
35:BA:587:C:C5	35:BA:671:C:H1'	2.47	0.50
47:BQ:73:PRO:HG3	47:BQ:93:TYR:CD2	2.47	0.50
35:DA:2820:A:H8	39:DE:191:PRO:CB	2.24	0.50
48:DR:9:LYS:HZ1	48:DR:42:LYS:HB3	1.76	0.50
3:AC:182:ILE:HG23	3:AC:202:ILE:O	2.12	0.50
3:AC:52:LEU:CD2	3:AC:52:LEU:H	2.20	0.50
1:AA:324:G:N2	1:AA:326:G:H3'	2.27	0.50
35:BA:1652:A:N6	35:BA:1653:G:N2	2.60	0.50
35:BA:2697:G:C2	35:BA:2711:A:C2	2.99	0.50
48:BR:10:LEU:HB3	48:BR:17:ARG:NE	2.27	0.50
48:BR:26:LYS:NZ	48:BR:71:GLN:HB3	2.27	0.50
49:DS:24:LEU:HD22	49:DS:24:LEU:H	1.77	0.50
2:CB:80:ILE:HG12	2:CB:211:ILE:HG21	1.93	0.50
2:CB:74:LYS:HG3	2:CB:77:ALA:HB3	1.93	0.50
27:D1:32:LYS:O	27:D1:33:LYS:O	2.30	0.50
44:DN:34:LEU:HD11	44:DN:116:LEU:O	2.11	0.50
15:CO:67:LEU:HD22	15:CO:78:TYR:CE1	2.47	0.50
35:DA:1186:G:H2'	35:DA:1187:G:C5'	2.41	0.50
4:AD:170:VAL:HG13	4:AD:174:LEU:HB2	1.94	0.50
18:AR:25:THR:HG22	18:AR:25:THR:O	2.11	0.50
7:AG:29:LYS:HG3	7:AG:101:LEU:HB3	1.93	0.50
25:CY:136:ALA:O	25:CY:139:LYS:HB2	2.12	0.50
1:CA:939:G:H2'	1:CA:940:C:H6	1.76	0.50
39:BE:152:LYS:HZ3	44:BN:78:TYR:CB	2.24	0.50
11:AK:32:ILE:HD12	11:AK:72:ALA:HB2	1.94	0.50
35:DA:1590:U:H2'	35:DA:1591:G:C5'	2.30	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:143:ARG:NH1	7:AG:143:ARG:HB2	2.27	0.50
13:AM:108:ARG:NH2	13:AM:114:ARG:HG2	2.27	0.50
46:DP:16:ARG:HD3	46:DP:18:ARG:N	2.21	0.50
5:AE:41:VAL:O	5:AE:67:VAL:N	2.44	0.50
1:CA:1250:A:H4'	9:CI:68:GLY:O	2.12	0.50
8:CH:4:ASP:OD1	8:CH:6:ILE:HB	2.11	0.50
9:AI:118:LYS:H	9:AI:121:ARG:HB3	1.76	0.50
46:DP:126:VAL:HG22	46:DP:145:PRO:HB3	1.94	0.50
35:BA:1177:A:H3'	35:BA:1177:A:P	2.51	0.50
40:BF:168:ARG:HA	40:BF:175:THR:HG21	1.92	0.50
54:BX:25:LYS:O	54:BX:26:TYR:O	2.29	0.50
1:AA:677:U:H2'	1:AA:678:U:C6	2.46	0.50
1:CA:706:A:C5	1:CA:707:C:C5	2.94	0.50
31:B5:20:ARG:NH1	53:BW:15:ARG:NH2	2.53	0.50
35:DA:2732:G:C3'	35:DA:2733:A:C5'	2.90	0.50
39:BE:201:THR:CG2	39:BE:202:LYS:N	2.75	0.50
2:AB:101:MET:O	2:AB:105:PHE:CA	2.57	0.50
1:AA:1379:G:C4	1:AA:1380:U:H5	2.30	0.50
8:AH:107:LEU:C	8:AH:107:LEU:HD23	2.31	0.50
35:DA:1486:A:N6	35:DA:1504:C:H42	2.08	0.50
4:AD:128:VAL:O	4:AD:130:GLY:N	2.41	0.50
3:CC:180:ALA:O	3:CC:205:GLY:O	2.29	0.50
53:DW:18:ARG:HG2	53:DW:18:ARG:HH11	1.75	0.50
11:AK:96:ARG:HA	11:AK:99:GLN:CG	2.36	0.50
32:D6:32:ASN:CG	32:D6:33:LYS:N	2.64	0.50
35:BA:1948:G:H2'	35:BA:1949:G:H8	1.76	0.50
35:BA:289:A:H3'	35:BA:290:G:H8	1.75	0.50
1:AA:728:A:C2	1:AA:729:A:C5	2.99	0.50
13:CM:49:THR:HB	13:CM:52:GLU:CG	2.37	0.50
13:AM:13:LYS:HB2	13:AM:18:ALA:HB2	1.93	0.50
15:AO:85:LEU:HB2	15:AO:87:ILE:HD11	1.93	0.50
53:BW:20:VAL:O	53:BW:23:LEU:N	2.45	0.50
1:AA:1090:U:O2'	1:AA:1091:U:H5'	2.10	0.50
35:DA:182:A:H2	35:DA:433:C:H1'	1.77	0.50
1:CA:854:G:OP2	1:CA:871:U:C5	2.65	0.50
44:BN:13:TRP:O	44:BN:135:PRO:HG2	2.12	0.50
1:CA:439:A:C4	1:CA:496:A:C2	3.00	0.50
1:CA:285:G:O2'	1:CA:286:G:H5'	2.11	0.50
50:DT:3:ARG:O	50:DT:5:ALA:N	2.45	0.50
36:DB:60:C:O2'	36:DB:61:G:H5'	2.12	0.50
16:CP:80:PHE:H	16:CP:80:PHE:HD1	1.57	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DT:122:ASP:O	50:DT:126:ALA:HB2	2.12	0.50
51:DU:15:LYS:O	51:DU:19:LYS:HG3	2.12	0.50
35:DA:845:G:HO2'	35:DA:846:C:H5	1.56	0.50
35:DA:2828:C:O2'	35:DA:2829:C:H5'	2.12	0.50
35:BA:1543:C:O2	35:BA:1543:C:C2'	2.60	0.50
35:BA:2699:C:O2'	35:BA:2700:C:H5'	2.10	0.50
39:BE:16:ARG:O	39:BE:17:ASP:HB3	2.11	0.50
45:BO:12:ASP:N	45:BO:12:ASP:OD2	2.43	0.50
38:BD:40:THR:HG22	38:BD:41:GLY:O	2.12	0.50
13:AM:112:GLY:C	13:AM:113:PRO:HG2	2.32	0.50
3:CC:69:HIS:CD2	3:CC:69:HIS:N	2.78	0.50
8:CH:50:ARG:HH11	8:CH:50:ARG:HG2	1.77	0.50
35:DA:1267:U:H2'	35:DA:1267:U:O2	2.10	0.50
5:AE:47:LYS:HD3	5:AE:47:LYS:N	2.26	0.50
1:CA:1069:C:O2'	1:CA:1192:C:H1'	2.11	0.50
35:DA:2678:C:C2	35:DA:2679:A:C8	3.00	0.50
50:DT:108:ARG:NH1	50:DT:108:ARG:HB3	2.27	0.50
50:DT:53:ARG:CG	50:DT:53:ARG:HH11	2.19	0.50
35:DA:2683:C:H5''	50:DT:53:ARG:HH22	1.77	0.50
14:CN:33:VAL:HG12	14:CN:34:TYR:N	2.27	0.50
35:BA:729:G:N7	38:BD:208:LYS:HB2	2.25	0.50
38:BD:106:ILE:O	38:BD:106:ILE:HG23	2.11	0.50
35:DA:2313:C:H5'	35:DA:2313:C:H6	1.77	0.50
41:DG:181:ARG:O	41:DG:182:LYS:C	2.50	0.50
50:BT:23:ARG:HB2	50:BT:24:PRO:HD2	1.93	0.50
50:BT:50:ILE:H	50:BT:50:ILE:HD12	1.76	0.50
56:BZ:137:ILE:O	56:BZ:137:ILE:HG23	2.12	0.50
56:BZ:136:PHE:HD1	56:BZ:137:ILE:N	2.10	0.50
51:BU:95:LEU:O	51:BU:98:LEU:HG	2.11	0.50
52:BV:60:GLU:HA	52:BV:100:ARG:O	2.12	0.50
42:DH:92:ILE:C	42:DH:94:TYR:H	2.15	0.50
54:BX:46:ALA:C	54:BX:47:PHE:CD1	2.85	0.50
54:BX:47:PHE:CD1	54:BX:47:PHE:N	2.80	0.50
54:BX:56:THR:O	54:BX:57:LEU:HG	2.11	0.50
39:DE:52:LEU:HD12	39:DE:53:PRO:CD	2.40	0.50
27:B1:47:GLN:NE2	27:B1:47:GLN:O	2.44	0.50
27:B1:83:GLU:C	27:B1:85:LEU:H	2.13	0.50
2:AB:87:ARG:O	2:AB:88:ALA:HB2	2.12	0.50
35:BA:2313:C:H5'	35:BA:2313:C:H6	1.75	0.50
41:BG:132:ASN:ND2	41:BG:158:ALA:HB1	2.27	0.50
34:D8:34:TRP:HZ3	34:D8:41:ILE:HG23	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DZ:56:VAL:C	56:DZ:57:ILE:HD12	2.32	0.50
44:DN:46:VAL:CG1	44:DN:47:ALA:N	2.64	0.50
51:DU:65:ILE:HD12	51:DU:65:ILE:N	2.26	0.50
32:D6:30:THR:O	32:D6:31:PRO:C	2.50	0.50
36:BB:4:C:H2'	36:BB:5:C:O4'	2.12	0.50
36:BB:56:G:H4'	36:BB:57:A:H8	1.76	0.50
49:BS:89:ARG:NE	49:BS:89:ARG:CA	2.73	0.50
4:CD:154:ASN:CA	4:CD:159:ARG:HH21	2.24	0.50
44:BN:97:ARG:O	44:BN:98:VAL:C	2.50	0.50
35:BA:442:G:O4'	40:BF:46:ARG:HG2	2.11	0.50
40:BF:185:ASP:O	40:BF:189:THR:HG23	2.11	0.50
40:BF:25:PRO:HG3	40:BF:119:ARG:HA	1.93	0.50
25:AY:37:LEU:CD1	25:AY:38:LEU:HG	2.42	0.50
35:DA:631:A:C4'	46:DP:65:ARG:HA	2.42	0.50
35:BA:2030:A:H5''	35:BA:2031:A:OP1	2.10	0.50
40:BF:89:VAL:HG12	40:BF:90:PHE:H	1.77	0.50
52:BV:72:VAL:HG13	52:BV:88:ARG:HH22	1.76	0.50
55:BY:96:ILE:HG13	55:BY:99:CYS:HB2	1.93	0.50
1:AA:1428:A:H61	1:AA:1473:A:N6	2.10	0.50
49:DS:95:HIS:O	49:DS:96:GLY:C	2.49	0.50
35:DA:199:A:C6	35:DA:2434:A:C6	3.00	0.50
44:BN:34:LEU:HD11	44:BN:116:LEU:O	2.12	0.50
44:BN:126:PRO:O	44:BN:127:ASP:HB2	2.12	0.50
18:CR:72:ARG:O	18:CR:75:ILE:N	2.44	0.50
35:DA:1251:C:H2'	35:DA:1251:C:OP2	2.12	0.50
40:DF:80:ALA:HB3	40:DF:83:PHE:CD1	2.47	0.50
33:D7:11:LYS:HE2	35:DA:686:G:H5''	1.94	0.50
4:AD:153:ARG:CB	4:AD:153:ARG:HH11	2.24	0.50
55:DY:13:VAL:HG12	55:DY:14:LEU:N	2.27	0.50
1:AA:582:U:H2'	1:AA:583:A:C8	2.46	0.50
16:AP:65:GLN:N	16:AP:65:GLN:OE1	2.45	0.50
25:AY:15:GLN:OE1	25:AY:168:PHE:HZ	1.95	0.50
42:BH:18:GLU:CB	42:BH:25:LYS:HD2	2.42	0.50
16:CP:65:GLN:N	16:CP:65:GLN:OE1	2.45	0.50
35:DA:2246:G:H2'	35:DA:2247:A:C8	2.47	0.50
1:CA:640:A:H4'	8:CH:116:LYS:HZ1	1.76	0.50
8:CH:128:GLY:O	8:CH:129:VAL:HG13	2.12	0.50
55:BY:28:LYS:CE	55:BY:37:VAL:HA	2.42	0.50
11:AK:23:ALA:HA	11:AK:28:THR:CG2	2.42	0.50
1:AA:1226:C:OP1	13:AM:96:LEU:HD13	2.10	0.50
35:DA:260:G:N2	35:DA:261:G:H1'	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:132:VAL:HG13	40:BF:133:ASN:N	2.26	0.50
40:BF:132:VAL:CG2	40:BF:133:ASN:H	2.04	0.50
20:AT:53:LEU:O	20:AT:54:LYS:C	2.50	0.50
43:DI:9:LEU:H	43:DI:13:GLY:HA2	1.76	0.50
8:CH:6:ILE:O	8:CH:10:LEU:HG	2.11	0.50
35:BA:363(F):A:O2'	35:BA:364:C:H5	1.94	0.50
35:DA:2536:G:C6	35:DA:2537:U:N3	2.80	0.50
35:DA:758:C:O2'	35:DA:759:G:H5'	2.12	0.50
15:CO:16:ALA:HB1	15:CO:21:ASP:HB3	1.94	0.50
40:BF:170:LEU:HD23	40:BF:173:VAL:CG2	2.42	0.50
1:CA:33:A:H2'	1:CA:34:C:C6	2.47	0.50
7:AG:121:ALA:N	7:AG:124:LEU:HD12	2.27	0.50
1:AA:267:C:OP1	17:AQ:67:LYS:HB2	2.10	0.50
35:DA:1937:A:N7	35:DA:1939:U:H2'	2.27	0.50
38:BD:111:LEU:HD22	38:BD:115:GLN:OE1	2.11	0.50
13:AM:70:LEU:O	13:AM:74:VAL:HG23	2.11	0.50
13:AM:69:GLU:CB	13:AM:72:ALA:HB3	2.41	0.50
26:B0:29:GLN:HB2	26:B0:67:VAL:CG2	2.41	0.50
26:B0:24:LYS:NZ	35:BA:2355:C:O2'	2.45	0.50
36:BB:78:A:O2'	36:BB:79:C:H5'	2.12	0.50
15:AO:78:TYR:C	15:AO:80:ALA:N	2.65	0.50
35:DA:2009:G:C6	35:DA:2010:G:N7	2.80	0.50
1:CA:668:G:O2'	1:CA:669:U:H5'	2.12	0.50
35:BA:1221:C:H2'	35:BA:1221(A):C:C6	2.45	0.50
35:BA:2841:C:C2	35:BA:2877:G:C2	3.00	0.50
32:D6:40:CYS:HB2	32:D6:46:HIS:CE1	2.43	0.50
35:BA:1681:G:O2'	35:BA:1762:A:H2'	2.12	0.50
1:AA:1030(A):G:H2'	1:AA:1030(C):G:OP2	2.11	0.50
35:DA:304:G:H2'	35:DA:305:U:C6	2.47	0.50
35:DA:304:G:H1	35:DA:313:C:N4	2.10	0.50
35:DA:1628:G:O2'	35:DA:1629:U:H5'	2.12	0.50
1:AA:789:U:O2	1:AA:789:U:H2'	2.12	0.50
1:AA:1518:A:C2	1:AA:1519:A:C2	2.99	0.50
35:DA:2460:U:H2'	35:DA:2461:C:O4'	2.11	0.50
35:BA:419:C:C2	35:BA:420:C:C6	2.99	0.50
35:DA:52:A:C2'	35:DA:53:A:H5'	2.42	0.50
7:AG:126:ASP:O	7:AG:130:GLY:N	2.34	0.50
35:BA:451:C:H41	35:BA:453:C:H3'	1.77	0.50
3:AC:40:ARG:HH11	3:AC:40:ARG:HG3	1.77	0.50
33:D7:37:LYS:HG3	35:DA:458:G:C8	2.46	0.50
35:BA:830:G:C4	35:BA:2448:A:C5	3.00	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2447:G:O6	35:DA:2504:U:O4	2.30	0.50
3:AC:69:HIS:N	3:AC:69:HIS:CD2	2.79	0.50
35:DA:822:U:H2'	35:DA:822:U:O2	2.12	0.50
7:AG:115:ARG:HB2	7:AG:118:VAL:HG21	1.93	0.50
1:CA:1420:C:H2'	1:CA:1421:G:H8	1.76	0.50
53:BW:76:VAL:HB	53:BW:103:ILE:HG22	1.93	0.50
1:CA:516:U:O2'	1:CA:517:G:H5'	2.12	0.50
35:DA:501:A:H2'	35:DA:502:A:C8	2.47	0.50
38:DD:24:ILE:HD13	38:DD:24:ILE:O	2.12	0.50
38:DD:260:ARG:CZ	38:DD:264:LYS:HD3	2.42	0.50
41:DG:132:ASN:CG	41:DG:158:ALA:HA	2.31	0.50
35:BA:2854:G:H1	35:BA:2863:C:H42	1.59	0.50
36:BB:75:G:N7	36:BB:76:G:N7	2.59	0.50
52:BV:3:ALA:O	52:BV:14:VAL:N	2.45	0.50
1:AA:1230:C:O2'	1:AA:1231:G:H5'	2.11	0.50
35:BA:70:G:H21	35:BA:71:A:H62	1.60	0.50
54:BX:35:THR:HG23	54:BX:36:LYS:H	1.76	0.50
54:BX:7:VAL:O	54:BX:31:HIS:N	2.43	0.50
27:B1:92:LYS:N	27:B1:93:GLU:OE2	2.45	0.50
2:AB:215:LEU:O	2:AB:219:VAL:HG23	2.12	0.50
2:AB:80:ILE:HG13	2:AB:81:VAL:HG23	1.93	0.50
41:BG:82:LEU:CD2	41:BG:86:MET:HB2	2.41	0.50
28:D2:41:ILE:C	28:D2:43:GLN:N	2.65	0.50
35:DA:141:A:H8	35:DA:1408:C:O2'	1.91	0.50
35:DA:71:A:H4'	35:DA:72:U:C5'	2.41	0.50
28:D2:41:ILE:HD13	35:DA:94(A):G:O2'	2.11	0.50
54:DX:32:PRO:HD3	54:DX:72:LYS:HZ2	1.76	0.50
52:DV:60:GLU:HA	52:DV:100:ARG:O	2.12	0.50
3:AC:150:LYS:HA	3:AC:169:ALA:HB2	1.94	0.50
1:CA:1065:U:O2'	1:CA:1066:C:OP2	2.25	0.50
4:CD:119:GLN:NE2	4:CD:123:HIS:NE2	2.60	0.50
4:CD:177:ASP:O	4:CD:180:GLY:N	2.43	0.50
4:CD:62:GLN:HB3	4:CD:66:ARG:HH22	1.77	0.50
43:DI:123:LEU:HG	43:DI:142:VAL:HB	1.93	0.50
43:DI:79:ILE:CG2	43:DI:81:VAL:HG23	2.42	0.50
35:BA:1246:A:P	46:BP:16:ARG:HH22	2.35	0.50
40:BF:110:LEU:HD21	40:BF:181:LEU:CD2	2.41	0.50
35:BA:2491:U:C5'	35:BA:2570:G:H5''	2.24	0.50
35:BA:579:G:H2'	35:BA:580:C:C6	2.46	0.50
48:DR:52:ILE:CD1	48:DR:79:LEU:HD21	2.42	0.50
48:DR:56:LYS:HE2	48:DR:94:TYR:CE2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BT:106:SER:CA	50:BT:110:ILE:HD13	2.32	0.50
35:BA:2847:U:OP1	50:BT:98:LYS:HD3	2.12	0.50
49:DS:26:LEU:O	49:DS:26:LEU:CD2	2.60	0.50
49:DS:74:ALA:CB	49:DS:103:GLU:HG3	2.41	0.50
2:CB:81:VAL:HG22	2:CB:215:LEU:CG	2.42	0.50
2:AB:73:THR:HB	2:AB:94:ASN:O	2.12	0.50
27:D1:41:ARG:NH1	35:DA:189:G:P	2.85	0.50
1:CA:836:G:C6	1:CA:851:G:C6	3.00	0.50
15:CO:78:TYR:O	15:CO:82:ILE:HG22	2.11	0.50
15:CO:82:ILE:HG12	15:CO:87:ILE:HB	1.93	0.50
4:AD:153:ARG:NH2	4:AD:181:MET:HG2	2.26	0.50
55:DY:2:ARG:N	55:DY:5:MET:CE	2.75	0.50
6:AF:7:ASN:C	6:AF:8:ILE:HG13	2.31	0.50
47:BQ:55:VAL:CG2	47:BQ:56:ARG:N	2.75	0.50
12:CL:55:VAL:O	12:CL:56:ALA:HB2	2.12	0.50
35:DA:2701:C:C3'	35:DA:2702:U:H5''	2.29	0.50
1:CA:575:G:N1	1:CA:821:G:C5	2.80	0.50
35:BA:1131:G:H1'	35:BA:1132:A:C8	2.47	0.50
11:AK:92:GLU:O	11:AK:95:ILE:HG12	2.10	0.50
33:B7:18:PHE:O	33:B7:21:ARG:N	2.45	0.50
43:BI:112:LYS:H	43:BI:114:LEU:HG	1.77	0.50
11:AK:28:THR:CG2	11:AK:29:ILE:N	2.74	0.50
1:AA:1226:C:OP1	19:AS:81:ARG:NH1	2.45	0.50
46:DP:21:ARG:NH1	46:DP:21:ARG:HG3	2.26	0.50
1:AA:527:G:O2'	1:AA:528:C:H5'	2.12	0.50
1:AA:528:C:O2'	1:AA:529:G:H5'	2.12	0.50
12:AL:91:LYS:O	12:AL:91:LYS:HG3	2.12	0.50
8:AH:40:ALA:HB2	8:AH:45:ILE:HD11	1.94	0.50
12:CL:60:LEU:CD2	12:CL:64:TYR:O	2.60	0.50
1:CA:1148:U:OP2	9:CI:7:THR:HG21	2.11	0.50
5:CE:149:GLU:C	5:CE:151:LEU:H	2.14	0.50
56:BZ:112:ARG:O	56:BZ:113:ALA:CB	2.60	0.50
1:CA:376:G:H2'	1:CA:377:G:H8	1.77	0.50
7:CG:119:ARG:O	7:CG:122:HIS:N	2.45	0.50
38:DD:73:VAL:HG13	38:DD:120:GLY:CA	2.42	0.50
11:CK:109:VAL:HG13	18:CR:85:LEU:O	2.11	0.50
35:BA:614:U:O4'	35:BA:614:U:O2	2.30	0.50
35:DA:679:C:O2	35:DA:680:G:C8	2.65	0.50
26:D0:77:ARG:HH22	35:DA:857:C:C5'	2.24	0.50
5:AE:102:ALA:HB1	5:AE:106:PRO:HG3	1.93	0.50
5:AE:105:VAL:HB	5:AE:106:PRO:CD	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:103:C:OP2	20:CT:14:LYS:HD2	2.11	0.50
35:DA:1982:C:OP1	35:DA:1982:C:H3'	2.12	0.50
35:DA:1938:A:N1	35:DA:2590:A:H1'	2.27	0.50
35:DA:2605:U:H2'	35:DA:2606:C:C6	2.47	0.50
38:BD:108:PRO:HB3	38:BD:143:HIS:CE1	2.47	0.50
5:CE:78:HIS:CD2	8:CH:104:ARG:HE	2.29	0.50
35:BA:29:U:O2'	35:BA:30:G:H5'	2.11	0.50
1:AA:894:G:H2'	1:AA:895:G:C8	2.47	0.50
29:B3:19:GLN:C	29:B3:21:ALA:N	2.64	0.50
35:DA:1338:G:H5'	35:DA:1339:G:OP2	2.10	0.50
16:CP:8:ARG:NH1	16:CP:8:ARG:HG2	2.24	0.50
46:BP:90:ARG:HH11	46:BP:91:PHE:HB3	1.75	0.50
1:CA:1340:A:OP1	23:CW:36:A:H4'	2.11	0.50
1:AA:1512:U:H3	1:AA:1523:G:H1	1.60	0.50
19:AS:43:GLU:C	19:AS:45:VAL:N	2.63	0.50
44:DN:3:THR:C	44:DN:5:VAL:H	2.14	0.50
35:DA:1407:C:O2	35:DA:1407:C:H2'	2.12	0.50
10:CJ:33:GLN:O	10:CJ:75:ILE:HG12	2.11	0.50
1:AA:1260:C:H4'	1:AA:1284:C:H5'	1.93	0.50
1:CA:769:G:O2'	1:CA:770:C:H5'	2.11	0.50
35:DA:1331:A:H2'	35:DA:1333:C:C5	2.46	0.50
1:CA:885:G:H2'	1:CA:886:G:H8	1.76	0.50
35:DA:2880:C:O3'	48:DR:90:ARG:NH1	2.44	0.50
35:DA:644:A:O2'	35:DA:645:C:H5''	2.12	0.50
45:BO:26:LYS:O	45:BO:27:GLY:O	2.30	0.50
56:DZ:93:ASP:OD1	56:DZ:94:GLU:HG2	2.12	0.50
10:AJ:39:PRO:HB3	10:AJ:70:ARG:NH1	2.26	0.50
35:BA:271(H):G:O2'	35:BA:271(I):G:H8	1.94	0.50
1:CA:525:C:H2'	1:CA:526:C:H6	1.76	0.50
35:BA:1695:G:H2'	35:BA:1696:G:C5'	2.42	0.50
35:DA:1382:G:O2'	35:DA:1383:C:H5'	2.11	0.50
36:BB:40:U:C4	36:BB:43:C:H5''	2.47	0.50
35:DA:2718:G:H2'	35:DA:2719:G:H8	1.76	0.50
11:AK:48:ILE:O	11:AK:50:TYR:N	2.41	0.50
4:CD:138:TYR:HD2	4:CD:139:ARG:N	2.09	0.50
35:BA:1027:A:O2'	35:BA:1028:A:H5'	2.12	0.50
47:DQ:77:LYS:O	47:DQ:79:LEU:N	2.38	0.50
43:DI:82:ARG:HH11	43:DI:82:ARG:HG3	1.77	0.50
40:BF:17:ARG:HG3	40:BF:17:ARG:HH11	1.77	0.50
35:DA:2417:C:H2'	35:DA:2418:A:H8	1.77	0.50
12:CL:104:VAL:O	12:CL:105:TYR:HB2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:BY:54:LYS:O	55:BY:55:TYR:O	2.29	0.50
53:BW:29:LEU:HD21	53:BW:33:ARG:CZ	2.40	0.50
45:DO:6:THR:CG2	45:DO:7:TYR:N	2.69	0.50
50:DT:45:PHE:CZ	50:DT:74:ARG:HB2	2.46	0.50
43:BI:92:VAL:CG1	43:BI:120:ILE:HD12	2.32	0.50
38:DD:183:ARG:HG2	38:DD:183:ARG:NH1	2.27	0.50
38:DD:222:ARG:O	38:DD:224:ALA:N	2.44	0.50
38:DD:34:VAL:CG1	38:DD:34:VAL:O	2.60	0.50
38:DD:92:ILE:CA	38:DD:107:ALA:HB2	2.41	0.50
35:BA:2678:C:C2	35:BA:2679:A:C8	3.00	0.50
45:BO:63:VAL:HB	45:BO:102:VAL:HG12	1.94	0.50
45:BO:62:VAL:CG1	45:BO:65:THR:HG22	2.42	0.50
56:BZ:29:TYR:HE2	56:BZ:87:ASP:HB3	1.77	0.50
35:DA:1578:U:O2	35:DA:1578:U:H2'	2.11	0.50
35:BA:995:C:C2	51:BU:57:PHE:CE2	2.99	0.50
51:BU:78:THR:C	51:BU:80:ILE:N	2.65	0.50
52:BV:19:LYS:CE	52:BV:19:LYS:HA	2.40	0.50
52:BV:23:GLU:O	52:BV:24:LYS:O	2.30	0.50
42:DH:125:VAL:O	42:DH:125:VAL:HG12	2.11	0.50
42:DH:85:LYS:HB3	42:DH:133:VAL:O	2.12	0.50
35:BA:90:U:O2'	35:BA:92:A:H5''	2.12	0.50
54:BX:33:LYS:C	54:BX:35:THR:H	2.14	0.50
54:BX:57:LEU:CB	54:BX:76:ARG:HD2	2.39	0.50
35:DA:2892:A:C4	35:DA:2893:G:H1'	2.47	0.50
27:B1:53:VAL:HG13	27:B1:54:ALA:N	2.26	0.50
27:B1:61:ARG:O	27:B1:62:VAL:O	2.30	0.50
27:B1:85:LEU:C	27:B1:87:PRO:CD	2.69	0.50
41:BG:167:GLU:O	41:BG:171:ALA:N	2.41	0.50
28:D2:26:ARG:NE	54:DX:5:TYR:HB3	2.27	0.50
34:D8:35:GLN:NE2	34:D8:36:LYS:HZ2	2.10	0.50
56:DZ:14:LYS:C	56:DZ:16:SER:H	2.15	0.50
35:DA:2637:U:H1'	35:DA:2782:G:N2	2.27	0.50
44:DN:113:GLY:O	44:DN:114:ARG:C	2.51	0.50
44:DN:33:LEU:HD23	44:DN:38:HIS:CE1	2.47	0.50
51:DU:55:ARG:HA	51:DU:58:ARG:CG	2.42	0.50
51:DU:66:ASN:ND2	51:DU:70:ARG:NH2	2.39	0.50
52:DV:2:PHE:O	52:DV:3:ALA:HB2	2.12	0.50
52:DV:34:GLU:HB3	52:DV:62:LEU:CD1	2.37	0.50
35:DA:2284:C:H42	35:DA:2384:G:H1	1.59	0.50
1:CA:408:A:C6	1:CA:409:G:C5	3.00	0.50
35:BA:1141:U:C5'	35:BA:1142(A):A:O4'	2.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:261:G:C2	35:BA:262:A:C8	3.00	0.50
40:BF:28:ILE:HD13	40:BF:28:ILE:H	1.74	0.50
34:D8:30:ARG:HH21	46:DP:62:LEU:CB	2.20	0.50
40:DF:41:LEU:HA	40:DF:44:ARG:HD3	1.93	0.50
47:BQ:9:TYR:C	47:BQ:9:TYR:CD2	2.84	0.50
20:AT:26:ASN:ND2	20:AT:26:ASN:H	2.10	0.50
48:BR:118:GLU:HA	48:BR:118:GLU:OE1	2.12	0.50
48:BR:41:ALA:O	48:BR:44:LEU:N	2.44	0.50
49:DS:46:VAL:HG12	49:DS:47:THR:N	2.26	0.50
49:DS:85:VAL:CG2	49:DS:86:ALA:H	2.16	0.50
2:AB:164:VAL:HB	2:AB:186:ALA:HB2	1.93	0.50
27:D1:34:THR:HG23	27:D1:34:THR:O	2.10	0.50
44:DN:103:VAL:O	44:DN:106:MET:HB2	2.12	0.50
44:DN:34:LEU:CD2	44:DN:120:LEU:HD23	2.41	0.50
35:BA:1747:G:O2'	35:BA:1747(A):G:H5'	2.12	0.50
6:CF:67:MET:HE2	6:CF:72:VAL:H	1.77	0.50
2:CB:69:LEU:HD13	2:CB:91:PRO:O	2.12	0.50
52:DV:72:VAL:HA	52:DV:88:ARG:HH22	1.77	0.50
52:DV:72:VAL:HG13	52:DV:88:ARG:NH2	2.27	0.50
4:AD:103:ASN:O	4:AD:106:TYR:N	2.45	0.50
47:BQ:51:ARG:C	47:BQ:54:MET:HB3	2.31	0.50
1:CA:1499:A:H2'	1:CA:1500:A:C8	2.43	0.50
25:CY:32:ARG:C	25:CY:103:ILE:HD13	2.32	0.50
25:CY:130:ARG:HH21	35:DA:1942:C:C2'	2.25	0.50
1:CA:1305:G:H5''	21:CU:5:ASP:N	2.27	0.50
13:CM:108:ARG:H	13:CM:108:ARG:CD	2.12	0.50
1:AA:1323:G:H2'	1:AA:1324:A:C8	2.47	0.50
35:BA:1658:C:OP1	39:BE:132:HIS:O	2.29	0.50
39:BE:125:GLY:N	39:BE:135:HIS:O	2.44	0.50
1:CA:183:G:H1	1:CA:194:C:H42	1.59	0.50
25:AY:16:LYS:O	25:AY:19:GLU:HB2	2.11	0.50
17:CQ:31:LEU:HG	17:CQ:32:TYR:CD2	2.47	0.50
11:CK:22:HIS:HB3	11:CK:29:ILE:CG1	2.35	0.50
40:DF:34:TRP:CZ3	46:DP:12:ALA:HA	2.47	0.50
11:CK:57:THR:O	11:CK:60:ALA:HB3	2.12	0.50
5:AE:41:VAL:HG13	5:AE:113:ALA:HA	1.93	0.50
1:AA:19:C:P	5:AE:127:ASN:HD22	2.35	0.50
25:CY:38:LEU:HA	25:CY:41:LEU:HD11	1.92	0.50
43:DI:36:ALA:O	43:DI:37:VAL:HG23	2.12	0.50
8:AH:28:ALA:CB	8:AH:57:PRO:O	2.60	0.50
31:D5:41:PRO:HG2	31:D5:44:THR:HG1	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DZ:76:LEU:N	56:DZ:84:GLU:HB2	2.25	0.50
33:D7:18:PHE:O	33:D7:19:ARG:C	2.49	0.50
46:DP:101:VAL:HA	46:DP:107:LYS:H	1.77	0.50
46:DP:84:ASN:CG	46:DP:116:GLY:HA3	2.31	0.50
16:CP:40:ASP:HB3	16:CP:48:TRP:HB3	1.93	0.50
1:CA:709:G:H2'	1:CA:710:G:H8	1.77	0.50
1:CA:1379:G:C4	1:CA:1380:U:H5	2.30	0.50
35:DA:1926:U:H2'	35:DA:1928:A:OP2	2.11	0.50
1:CA:1423:G:H2'	1:CA:1424:C:H6	1.77	0.50
17:AQ:45:HIS:HB2	17:AQ:69:LYS:CE	2.42	0.50
35:BA:1485:G:H2'	35:BA:1486:A:C8	2.46	0.50
53:DW:18:ARG:HG2	53:DW:18:ARG:NH1	2.27	0.50
26:D0:42:GLY:HA3	35:DA:2331:G:O4'	2.11	0.50
26:B0:51:VAL:HG13	26:B0:60:PHE:O	2.12	0.50
2:CB:22:LYS:HZ3	2:CB:22:LYS:HA	1.72	0.50
35:DA:1682:G:H2'	35:DA:1683:C:C6	2.46	0.50
48:DR:4:LEU:C	48:DR:6:SER:H	2.16	0.50
35:DA:1643:G:H2'	35:DA:1644:C:C6	2.42	0.50
56:BZ:61:LEU:HB2	56:BZ:65:GLN:CB	2.40	0.50
53:BW:31:GLU:O	53:BW:32:ALA:C	2.50	0.50
39:DE:38:THR:CG2	39:DE:39:PRO:HD2	2.41	0.50
35:DA:2010:G:H5''	53:DW:42:ARG:HB2	1.93	0.50
4:CD:192:GLU:OE2	4:CD:192:GLU:N	2.45	0.50
40:DF:30:PRO:O	40:DF:33:LEU:HB3	2.11	0.50
40:DF:197:ASP:OD1	40:DF:198:ALA:N	2.44	0.50
17:CQ:10:VAL:HG12	17:CQ:53:LEU:HD12	1.94	0.50
1:CA:286:G:H2'	1:CA:287:U:C6	2.47	0.50
38:DD:125:ILE:O	38:DD:125:ILE:HG22	2.11	0.50
35:BA:2881:C:H2'	35:BA:2882:A:C8	2.45	0.50
35:DA:1195:G:H2'	35:DA:1196:C:C6	2.47	0.50
52:DV:52:VAL:C	52:DV:54:GLY:N	2.65	0.50
4:CD:24:GLU:O	4:CD:27:TYR:HB2	2.12	0.50
2:CB:224:GLN:HG3	2:CB:229:VAL:CG2	2.42	0.50
35:BA:2090:G:H2'	35:BA:2091:U:O4'	2.11	0.50
35:DA:363(A):A:C2	35:DA:363(B):G:C8	3.00	0.50
1:AA:1333:A:H3'	1:AA:1334:G:H8	1.77	0.50
35:DA:1904:G:N2	35:DA:1905:C:H1'	2.27	0.50
25:CY:143:LEU:HD23	25:CY:143:LEU:C	2.32	0.50
22:CV:32:U:O5'	22:CV:32:U:H6	1.95	0.50
6:CF:42:GLU:C	6:CF:44:GLY:N	2.65	0.50
35:DA:1691:C:O2'	35:DA:1692:U:H5'	2.12	0.50

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:74:ASP:OD2	15:AO:77:ARG:HG2	2.12	0.49
35:DA:860:U:O2	35:DA:860:U:O4'	2.29	0.49
35:BA:359:A:H2'	35:BA:360:G:C8	2.47	0.49
35:DA:1467:C:H42	35:DA:1525:G:H1	1.60	0.49
1:CA:338:A:H2'	1:CA:339:C:C6	2.47	0.49
9:AI:45:ALA:O	9:AI:49:PRO:HD2	2.12	0.49
7:CG:15:ASP:HB2	7:CG:23:VAL:HB	1.94	0.49
1:CA:903:G:H2'	1:CA:904:C:C6	2.46	0.49
35:DA:1964:G:H3'	35:DA:1965:C:C5'	2.42	0.49
56:BZ:33:LEU:HD12	56:BZ:34:ASN:N	2.26	0.49
56:DZ:115:GLY:CA	56:DZ:175:VAL:O	2.59	0.49
10:CJ:39:PRO:HB3	10:CJ:70:ARG:NH1	2.27	0.49
39:BE:115:GLY:HA2	39:BE:157:ALA:CB	2.42	0.49
17:AQ:57:VAL:HA	17:AQ:77:VAL:HG23	1.94	0.49
35:DA:820:A:O2'	35:DA:821:A:H5'	2.12	0.49
35:BA:939:G:O2'	35:BA:940:G:H5'	2.12	0.49
51:BU:15:LYS:O	51:BU:19:LYS:HG3	2.11	0.49
1:CA:23:C:O2'	1:CA:24:U:H5'	2.12	0.49
1:CA:25:C:O2'	1:CA:26:A:H5'	2.12	0.49
38:DD:152:GLY:O	38:DD:154:LYS:HG3	2.12	0.49
14:CN:57:ARG:HG2	14:CN:58:LYS:N	2.27	0.49
50:DT:109:GLU:HA	50:DT:112:ARG:HD2	1.93	0.49
35:DA:1778:U:H5	35:DA:1784:A:C2	2.30	0.49
35:DA:1816:G:N7	38:DD:62:TYR:CE1	2.80	0.49
38:DD:226:MET:CB	38:DD:230:ASP:HB2	2.40	0.49
38:DD:25:THR:O	38:DD:25:THR:HG23	2.10	0.49
16:CP:20:VAL:CG2	16:CP:21:VAL:N	2.74	0.49
34:B8:39:LYS:O	34:B8:42:ARG:HB3	2.12	0.49
47:DQ:101:ARG:HH11	47:DQ:101:ARG:HG3	1.76	0.49
50:BT:61:PHE:CE2	50:BT:76:PHE:HB3	2.47	0.49
39:BE:105:THR:HB	39:BE:197:ILE:HG12	1.93	0.49
35:DA:2667:C:H1'	42:DH:109:PHE:CE2	2.47	0.49
54:BX:7:VAL:HB	54:BX:8:ILE:HD12	1.94	0.49
39:DE:4:ILE:HD11	39:DE:28:ALA:HB1	1.94	0.49
27:B1:83:GLU:C	27:B1:85:LEU:N	2.65	0.49
2:AB:74:LYS:O	2:AB:74:LYS:HG3	2.11	0.49
41:BG:169:ALA:O	41:BG:170:ARG:C	2.49	0.49
41:BG:80:PHE:O	41:BG:81:LYS:O	2.29	0.49
55:DY:87:LYS:CG	55:DY:88:LYS:N	2.74	0.49
28:D2:20:GLU:C	28:D2:22:GLU:H	2.15	0.49
42:BH:113:VAL:HG21	42:BH:151:ILE:HG21	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DU:95:LEU:O	51:DU:98:LEU:HG	2.11	0.49
52:DV:61:VAL:HG23	52:DV:100:ARG:HG2	1.93	0.49
52:DV:63:GLY:O	52:DV:64:HIS:HB3	2.11	0.49
10:AJ:16:LEU:HA	10:AJ:19:SER:OG	2.12	0.49
3:CC:47:LEU:HG	3:CC:52:LEU:HD22	1.94	0.49
19:CS:12:ASP:CB	19:CS:15:LEU:HD23	2.41	0.49
49:BS:99:LYS:O	49:BS:100:ALA:C	2.50	0.49
1:CA:429:U:H4'	1:CA:430:A:O5'	2.12	0.49
27:D1:76:ARG:HE	27:D1:76:ARG:HA	1.76	0.49
27:D1:75:GLU:CB	27:D1:76:ARG:NH2	2.70	0.49
35:BA:583:G:OP2	51:BU:10:ARG:NH1	2.45	0.49
40:DF:155:LEU:HD13	40:DF:174:VAL:HB	1.94	0.49
47:BQ:88:GLY:C	47:BQ:90:VAL:H	2.14	0.49
3:AC:47:LEU:HG	3:AC:52:LEU:HD22	1.95	0.49
1:AA:1464:G:O2'	1:AA:1465:C:H5'	2.12	0.49
44:BN:27:ALA:O	44:BN:28:THR:C	2.50	0.49
2:CB:167:PRO:CD	2:CB:188:ALA:HB2	2.42	0.49
1:AA:542:G:C6	1:AA:543:C:N4	2.81	0.49
35:DA:910:A:C4	47:DQ:13:GLN:OE1	2.65	0.49
18:AR:37:VAL:O	18:AR:38:GLU:C	2.50	0.49
1:CA:1405:G:H21	1:CA:1517:G:N2	2.09	0.49
51:DU:28:ARG:HA	51:DU:34:LYS:HB3	1.94	0.49
1:AA:940:C:H2'	1:AA:941:G:H8	1.77	0.49
1:CA:959:A:C2'	1:CA:960:U:H4'	2.42	0.49
13:CM:83:ASP:OD1	13:CM:86:CYS:HB2	2.12	0.49
16:AP:39:TYR:OH	16:AP:41:PRO:HB3	2.13	0.49
25:AY:171:LYS:HA	25:AY:174:GLN:HE22	1.75	0.49
12:AL:66:VAL:HG21	12:AL:98:TYR:CD1	2.47	0.49
35:BA:1428:C:H41	35:BA:1569:A:H3'	1.76	0.49
8:CH:83:ILE:HB	8:CH:137:VAL:CG1	2.38	0.49
35:BA:2247:A:O2'	35:BA:2248:C:H5'	2.12	0.49
8:AH:119:LEU:HD12	8:AH:123:GLU:C	2.32	0.49
39:DE:125:GLY:N	39:DE:135:HIS:O	2.45	0.49
8:CH:9:MET:O	8:CH:12:ARG:N	2.45	0.49
31:D5:51:TYR:C	31:D5:56:LYS:HG2	2.32	0.49
29:B3:54:VAL:CG1	29:B3:55:ARG:N	2.75	0.49
35:DA:542:C:C2'	35:DA:543:C:OP1	2.59	0.49
46:BP:79:ARG:O	46:BP:111:ARG:HB2	2.11	0.49
38:DD:133:LEU:O	38:DD:136:ILE:HG13	2.12	0.49
56:BZ:19:ARG:HH11	56:BZ:19:ARG:CB	2.25	0.49
35:BA:2589:A:H2'	35:BA:2590:A:C8	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:707:C:H2'	1:CA:707:C:O2	2.12	0.49
6:CF:55:ASP:OD2	6:CF:86:ARG:NH2	2.45	0.49
11:CK:20:TYR:CE2	11:CK:83:ILE:HB	2.47	0.49
31:B5:21:SER:O	31:B5:23:HIS:N	2.45	0.49
35:BA:1615:C:H5	35:BA:1617:C:C2	2.30	0.49
35:DA:1233:C:H2'	35:DA:1234:U:H5'	1.93	0.49
35:DA:769:G:H4'	35:DA:1379:A:N1	2.27	0.49
35:DA:1914:C:H3'	35:DA:1914:C:O2	2.12	0.49
35:DA:2732:G:O2'	35:DA:2733:A:H5'	2.11	0.49
35:BA:336:C:H4'	55:BY:7:VAL:HG13	1.94	0.49
35:DA:1312:U:OP2	54:DX:62:LYS:HE2	2.13	0.49
1:AA:236:G:H2'	1:AA:237:C:C6	2.48	0.49
17:AQ:47:PRO:HG2	17:AQ:48:GLU:OE1	2.12	0.49
1:AA:661:G:H1	1:AA:744:C:H42	1.59	0.49
1:AA:833:U:H2'	1:AA:834:C:C6	2.47	0.49
35:DA:2606:C:C2'	35:DA:2607:G:H5'	2.42	0.49
5:CE:135:THR:O	5:CE:139:LEU:HG	2.13	0.49
35:DA:1269:A:H2'	35:DA:1270:C:C6	2.47	0.49
15:AO:56:LEU:O	15:AO:57:LEU:C	2.50	0.49
27:D1:94:LEU:CD1	27:D1:95:LEU:N	2.74	0.49
53:BW:18:ARG:HG2	53:BW:18:ARG:NH1	2.26	0.49
1:CA:337:C:O2'	1:CA:338:A:H5'	2.11	0.49
1:AA:556:C:C2'	1:AA:557:G:H5'	2.42	0.49
4:CD:194:LEU:O	4:CD:195:ALA:HB3	2.12	0.49
35:BA:1324:G:H3'	35:BA:1325:G:C4'	2.42	0.49
1:CA:1030(A):G:H2'	1:CA:1030(C):G:OP2	2.12	0.49
29:D3:27:GLY:O	29:D3:35:ARG:HD2	2.12	0.49
1:CA:189(I):G:H2'	1:CA:189(J):G:C8	2.47	0.49
17:CQ:56:VAL:HG23	17:CQ:78:GLU:O	2.11	0.49
30:D4:29:PRO:C	30:D4:31:ILE:N	2.65	0.49
6:CF:28:ARG:HG3	6:CF:28:ARG:NH1	2.26	0.49
35:BA:658:C:H2'	35:BA:659:C:C6	2.47	0.49
3:AC:35:GLU:HA	3:AC:38:ARG:HG2	1.93	0.49
35:BA:2417:C:H2'	35:BA:2418:A:H8	1.77	0.49
35:DA:2847:U:OP1	50:DT:98:LYS:HD3	2.12	0.49
45:DO:43:VAL:C	45:DO:45:GLU:H	2.15	0.49
35:BA:1903:G:C2	35:BA:1904:G:C8	3.00	0.49
41:DG:38:VAL:CB	41:DG:158:ALA:HB3	2.42	0.49
47:DQ:34:LEU:HD22	47:DQ:121:ALA:HB3	1.94	0.49
45:BO:86:ILE:O	45:BO:93:PRO:HA	2.13	0.49
50:BT:62:THR:CG2	50:BT:75:ILE:HA	2.23	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BB:103:G:H2'	36:BB:104:U:C6	2.47	0.49
47:BQ:141:GLN:OXT	56:BZ:98:MET:HE1	2.12	0.49
35:BA:559:G:N2	51:BU:49:HIS:HD2	2.09	0.49
42:DH:105:LEU:CD2	42:DH:105:LEU:N	2.75	0.49
42:DH:124:GLU:HB2	42:DH:132:ARG:O	2.13	0.49
35:DA:336:C:H4'	55:DY:7:VAL:HG13	1.93	0.49
28:D2:25:VAL:HA	28:D2:28:LYS:HB2	1.95	0.49
54:DX:56:THR:O	54:DX:57:LEU:HG	2.12	0.49
42:BH:89:ILE:HD13	42:BH:90:LYS:N	2.24	0.49
56:DZ:33:LEU:HD11	56:DZ:35:ARG:CB	2.42	0.49
56:DZ:33:LEU:HD11	56:DZ:35:ARG:HB2	1.93	0.49
35:DA:1040:C:H5''	56:DZ:46:LYS:NZ	2.26	0.49
56:DZ:47:VAL:HG12	56:DZ:51:ALA:CB	2.42	0.49
51:DU:105:VAL:HG12	51:DU:109:LEU:HD11	1.92	0.49
51:DU:86:ALA:HB2	51:DU:116:ALA:CB	2.42	0.49
19:CS:16:LEU:C	19:CS:20:LEU:HG	2.31	0.49
49:BS:92:TYR:C	49:BS:92:TYR:CD1	2.86	0.49
43:DI:79:ILE:CB	43:DI:81:VAL:HG23	2.42	0.49
40:BF:114:VAL:HG21	40:BF:202:PHE:CE2	2.47	0.49
35:BA:1246:A:P	46:BP:16:ARG:HH12	2.35	0.49
35:BA:2049:G:O2'	35:BA:2050:C:H5'	2.12	0.49
44:DN:84:LYS:O	44:DN:85:ILE:HD13	2.12	0.49
35:BA:2030:A:H4'	35:BA:2031:A:C8	2.47	0.49
35:BA:2242:G:H2'	35:BA:2243:U:O4'	2.12	0.49
46:DP:5:ASP:OD2	46:DP:6:LEU:HD22	2.12	0.49
39:BE:161:GLY:O	39:BE:163:GLU:HG2	2.12	0.49
1:AA:1421:G:H2'	1:AA:1422:G:H8	1.76	0.49
48:BR:116:LEU:O	48:BR:117:VAL:CB	2.60	0.49
49:DS:18:ILE:C	49:DS:20:ARG:H	2.15	0.49
49:DS:34:HIS:CE1	49:DS:55:ALA:HB2	2.45	0.49
49:DS:86:ALA:C	49:DS:106:ARG:HG3	2.33	0.49
2:CB:74:LYS:O	2:CB:74:LYS:HG3	2.13	0.49
35:DA:201:C:O2'	35:DA:202:U:H5'	2.12	0.49
44:DN:126:PRO:O	44:DN:127:ASP:HB2	2.11	0.49
44:DN:26:LEU:CD2	44:DN:99:LEU:HD11	2.40	0.49
1:CA:666:G:H2'	1:CA:667:G:H8	1.77	0.49
2:CB:50:GLU:O	2:CB:51:LEU:C	2.51	0.49
4:AD:120:LEU:HA	4:AD:125:HIS:CD2	2.47	0.49
4:AD:150:GLU:HG2	4:AD:151:LYS:H	1.78	0.49
4:AD:68:TYR:N	4:AD:68:TYR:CD1	2.80	0.49
1:CA:1234:C:C4'	1:CA:1364:U:HI'	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:199:ASN:OD1	4:AD:201:GLN:HB2	2.12	0.49
1:AA:502:G:OP1	12:AL:118:SER:N	2.43	0.49
6:AF:71:ARG:O	6:AF:72:VAL:C	2.49	0.49
1:CA:781:A:C2'	1:CA:782:A:H5'	2.41	0.49
2:AB:145:LEU:HD22	2:AB:149:LEU:HD12	1.94	0.49
7:AG:106:GLN:HA	7:AG:109:ASN:HD22	1.78	0.49
35:DA:16:G:H2'	35:DA:17:G:C8	2.48	0.49
1:AA:376:G:H2'	1:AA:377:G:H8	1.76	0.49
1:AA:377:G:O2'	1:AA:378:G:H5'	2.11	0.49
7:AG:92:SER:OG	7:AG:94:ARG:NE	2.45	0.49
35:BA:2018:G:C6	35:BA:2019:A:C5	3.00	0.49
16:CP:60:LEU:C	16:CP:62:VAL:N	2.66	0.49
25:AY:156:ARG:NH2	26:B0:6:ALA:HB2	2.27	0.49
11:AK:20:TYR:CE2	11:AK:83:ILE:HB	2.47	0.49
11:AK:58:PRO:HA	11:AK:90:GLY:CA	2.43	0.49
33:B7:8:ASN:ND2	33:B7:9:ARG:N	2.58	0.49
35:BA:685:A:C5	35:BA:774:A:C2	3.00	0.49
35:DA:2259:G:H1'	35:DA:2427:C:O2	2.11	0.49
35:BA:2282:G:O2'	35:BA:2283:C:OP2	2.25	0.49
35:BA:309:G:H4'	55:BY:18:GLY:HA3	1.93	0.49
2:CB:101:MET:O	2:CB:105:PHE:CA	2.58	0.49
11:AK:87:THR:HG22	11:AK:88:GLY:N	2.28	0.49
35:DA:1246:A:P	46:DP:16:ARG:HH22	2.35	0.49
25:CY:84:ARG:C	25:CY:86:SER:H	2.15	0.49
9:CI:118:LYS:H	9:CI:121:ARG:HB3	1.77	0.49
37:DC:40:THR:HG21	37:DC:215:THR:CB	2.42	0.49
33:D7:15:THR:HG22	33:D7:16:HIS:NE2	2.27	0.49
31:D5:21:SER:O	31:D5:23:HIS:N	2.46	0.49
46:BP:106:LEU:CD1	46:BP:112:LEU:HB2	2.42	0.49
40:BF:9:ILE:HG12	40:BF:14:PRO:CA	2.42	0.49
40:DF:152:GLU:OE1	40:DF:191:ARG:HD2	2.12	0.49
1:AA:472:A:H4'	16:AP:82:GLN:HE22	1.78	0.49
42:DH:156:ALA:O	42:DH:158:HIS:N	2.36	0.49
13:CM:69:GLU:HA	13:CM:70:LEU:N	2.27	0.49
13:AM:64:TRP:NE1	13:AM:66:LEU:HD12	2.26	0.49
11:CK:127:LYS:O	11:CK:129:SER:N	2.44	0.49
17:AQ:85:VAL:O	17:AQ:89:LEU:HB2	2.12	0.49
1:CA:1480:G:N2	1:CA:1481:U:H1'	2.28	0.49
35:DA:876:C:H2'	35:DA:877:U:C6	2.47	0.49
35:DA:2463:C:O2'	35:DA:2464:C:H5'	2.12	0.49
43:BI:55:ALA:O	43:BI:59:ALA:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:243:A:O2'	1:CA:244:U:OP2	2.29	0.49
43:DI:55:ALA:O	43:DI:59:ALA:HB2	2.12	0.49
35:BA:2009:G:H1'	48:BR:107:ASP:C	2.32	0.49
35:DA:2379:G:H2'	35:DA:2380:C:C6	2.47	0.49
35:DA:2203:U:H4'	38:DD:151:LYS:HE3	1.94	0.49
35:DA:754:C:H2'	35:DA:755:C:C6	2.47	0.49
35:DA:1435:G:H2'	35:DA:1436:G:O4'	2.12	0.49
29:D3:26:LEU:O	29:D3:27:GLY:C	2.51	0.49
35:DA:1136:G:N3	35:DA:2038:G:H4'	2.28	0.49
1:CA:1152:A:H2'	1:CA:1153:C:C6	2.46	0.49
35:BA:892:G:H3'	35:BA:892:G:N3	2.28	0.49
43:BI:25:TYR:HE2	43:BI:29:TYR:CD2	2.30	0.49
35:DA:1195:G:H2'	35:DA:1196:C:H6	1.76	0.49
1:CA:1251:A:O2'	1:CA:1252:A:H5'	2.13	0.49
3:CC:91:LEU:HB2	3:CC:99:VAL:HG21	1.93	0.49
1:CA:1132:C:O2'	1:CA:1133:G:H5'	2.11	0.49
53:DW:59:VAL:O	53:DW:61:ASN:N	2.45	0.49
35:DA:1490:A:H5'	35:DA:1491:G:OP1	2.11	0.49
1:AA:1131:G:H2'	1:AA:1132:C:C5	2.46	0.49
35:DA:335:C:H4'	55:DY:73:ARG:CZ	2.42	0.49
28:B2:58:ALA:O	28:B2:60:LEU:N	2.46	0.49
35:DA:1922:G:O2'	35:DA:1923:U:H5'	2.12	0.49
14:AN:57:ARG:HG2	14:AN:58:LYS:N	2.27	0.49
35:DA:2519:U:H3'	35:DA:2519:U:OP1	2.12	0.49
35:BA:733:G:H8	35:BA:733:G:O5'	1.96	0.49
35:DA:1317:A:C2	35:DA:1318:C:C2	3.00	0.49
2:AB:21:ARG:O	2:AB:23:ARG:N	2.45	0.49
35:DA:2675:A:OP1	45:DO:31:LYS:HB2	2.12	0.49
45:DO:35:VAL:H	45:DO:65:THR:HG21	1.77	0.49
14:CN:29:ARG:HH11	14:CN:29:ARG:HG3	1.78	0.49
41:DG:7:LEU:O	41:DG:11:TYR:N	2.45	0.49
35:BA:1819:A:H1'	35:BA:1821:A:C5	2.47	0.49
10:CJ:16:LEU:O	10:CJ:16:LEU:HD13	2.12	0.49
35:BA:2728:U:H2'	35:BA:2728:U:O2	2.12	0.49
39:BE:52:LEU:HB2	39:BE:76:ARG:CB	2.36	0.49
52:BV:8:GLY:C	52:BV:10:LYS:H	2.14	0.49
35:DA:2666:C:O2'	35:DA:2667:C:H5'	2.13	0.49
10:AJ:55:LYS:O	10:AJ:56:HIS:CG	2.65	0.49
34:D8:6:THR:O	34:D8:8:LYS:N	2.46	0.49
28:B2:32:LEU:CG	28:B2:33:MET:N	2.75	0.49
54:BX:82:GLN:HG3	54:BX:83:VAL:H	1.72	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B1:18:ILE:HG12	27:B1:43:TYR:HD1	1.78	0.49
41:BG:110:ALA:HB1	41:BG:140:ILE:HD13	1.93	0.49
41:BG:174:GLU:CA	41:BG:178:PHE:HB2	2.41	0.49
42:BH:130:ARG:HB2	42:BH:130:ARG:HH11	1.76	0.49
35:DA:875:G:HO2'	56:DZ:151:HIS:CD2	2.29	0.49
36:DB:103:G:H2'	36:DB:104:U:C6	2.47	0.49
47:DQ:120:ILE:HA	47:DQ:123:HIS:HD2	1.77	0.49
51:DU:112:ARG:HG2	51:DU:112:ARG:HH11	1.77	0.49
52:DV:96:ILE:HG23	52:DV:97:LYS:N	2.26	0.49
1:CA:405:U:H5''	1:CA:406:G:O4'	2.11	0.49
44:BN:96:GLU:O	44:BN:97:ARG:C	2.51	0.49
35:BA:234:C:H2'	35:BA:235:U:C6	2.46	0.49
3:AC:8:ILE:O	3:AC:10:PHE:N	2.45	0.49
35:BA:576:U:OP1	35:BA:2503:A:OP1	2.30	0.49
46:BP:47:ASP:CB	46:BP:51:PHE:HB2	2.33	0.49
52:BV:88:ARG:NH1	52:BV:88:ARG:HG3	2.28	0.49
40:DF:45:ARG:HG2	40:DF:97:TYR:CG	2.47	0.49
35:DA:1276:A:H1'	48:DR:16:HIS:HE1	1.76	0.49
48:DR:41:ALA:C	48:DR:43:GLU:N	2.65	0.49
1:AA:1431:C:H42	1:AA:1469:G:H1	1.60	0.49
1:AA:1480:G:C2	1:AA:1481:U:C2	3.00	0.49
49:DS:72:ALA:O	49:DS:73:LEU:C	2.50	0.49
2:AB:69:LEU:HB2	2:AB:159:PRO:CG	2.42	0.49
44:BN:26:LEU:HG	44:BN:30:ILE:CD1	2.42	0.49
44:BN:61:ARG:HG3	44:BN:61:ARG:HH11	1.77	0.49
6:CF:10:LEU:HD21	6:CF:22:GLU:HB3	1.94	0.49
18:CR:37:VAL:CG2	18:CR:38:GLU:H	2.05	0.49
18:CR:43:PHE:H	18:CR:43:PHE:HD1	1.54	0.49
34:D8:2:PRO:C	34:D8:4:MET:H	2.15	0.49
35:DA:776:G:H4'	35:DA:777:A:O5'	2.11	0.49
35:DA:992:C:O3'	52:DV:75:PHE:CE2	2.65	0.49
35:DA:1190:G:O3'	46:DP:35:HIS:HB3	2.12	0.49
46:DP:47:ASP:HB2	46:DP:51:PHE:CD2	2.48	0.49
17:AQ:29:HIS:CA	17:AQ:36:ILE:HD11	2.42	0.49
4:AD:14:ARG:C	4:AD:16:GLY:H	2.16	0.49
1:CA:1494:G:C2	1:CA:1495:U:C6	3.01	0.49
35:DA:2019:A:N6	35:DA:2020:A:C6	2.81	0.49
44:DN:79:PRO:HG2	44:DN:80:GLY:H	1.77	0.49
25:CY:32:ARG:CB	25:CY:103:ILE:HD13	2.42	0.49
25:CY:140:LEU:HD21	25:CY:157:ALA:HB1	1.94	0.49
13:CM:117:VAL:CG1	13:CM:118:ALA:N	2.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:97:PRO:O	13:CM:98:VAL:N	2.45	0.49
25:AY:29:ARG:HG3	25:AY:114:LEU:HD13	1.94	0.49
1:CA:564:C:C5	17:CQ:31:LEU:HD11	2.48	0.49
42:BH:18:GLU:HB3	42:BH:25:LYS:HD2	1.95	0.49
1:CA:640:A:C2'	1:CA:641:U:H5'	2.42	0.49
1:AA:1307:U:H2'	1:AA:1308:U:H6	1.74	0.49
13:AM:89:GLY:O	13:AM:92:HIS:HB2	2.13	0.49
25:CY:84:ARG:HE	25:CY:92:PRO:HD2	1.77	0.49
8:AH:21:LYS:CG	8:AH:22:GLU:N	2.75	0.49
8:CH:11:THR:CA	8:CH:14:ARG:HH12	2.25	0.49
35:DA:2319:G:OP1	35:DA:2319:G:H4'	2.12	0.49
35:DA:2206:G:H21	35:DA:2207:G:C5'	2.21	0.49
29:D3:54:VAL:CG1	29:D3:55:ARG:N	2.75	0.49
35:BA:1496:A:H8	35:BA:1577:C:O2'	1.95	0.49
40:DF:167:ALA:HB1	40:DF:173:VAL:CG1	2.42	0.49
17:AQ:47:PRO:HG2	17:AQ:48:GLU:OE2	2.12	0.49
13:AM:37:THR:O	13:AM:39:ILE:HG13	2.12	0.49
35:BA:2354:G:O2'	35:BA:2355:C:H5'	2.12	0.49
2:CB:24:TRP:O	2:CB:25:ASN:HB2	2.13	0.49
11:AK:127:LYS:O	11:AK:129:SER:N	2.42	0.49
35:BA:2814:C:H2'	35:BA:2815:C:C6	2.42	0.49
35:BA:202:U:O2'	35:BA:203:C:H5'	2.11	0.49
35:BA:203:C:H2'	35:BA:204:A:H8	1.78	0.49
53:DW:37:ARG:HG3	53:DW:37:ARG:NH1	2.25	0.49
37:DC:83:ILE:O	37:DC:83:ILE:HG22	2.12	0.49
37:BC:65:PRO:HG2	37:BC:189:ILE:CB	2.43	0.49
1:CA:1029:C:H1'	1:CA:1033:G:N1	2.28	0.49
8:AH:80:ILE:O	8:AH:80:ILE:HG22	2.12	0.49
50:DT:75:ILE:CD1	50:DT:75:ILE:N	2.76	0.49
38:BD:25:THR:CG2	38:BD:82:ILE:N	2.70	0.49
1:CA:865:A:H2	1:CA:918:A:H4'	1.77	0.49
35:DA:1824:G:OP1	38:DD:52:ARG:HD3	2.12	0.49
35:DA:1795:C:H1'	35:DA:1901:A:OP1	2.12	0.49
41:DG:160:VAL:CG1	41:DG:161:THR:N	2.74	0.49
41:DG:32:PRO:O	41:DG:172:LEU:HD11	2.13	0.49
34:B8:21:LYS:O	34:B8:23:VAL:HG23	2.12	0.49
47:DQ:20:ALA:CB	47:DQ:99:PRO:O	2.60	0.49
35:BA:2689:U:H4'	35:BA:2690:C:H6	1.77	0.49
45:BO:107:ARG:NH1	50:BT:36:GLU:N	2.60	0.49
39:BE:6:GLY:CA	39:BE:27:LEU:O	2.60	0.49
42:DH:113:VAL:HG21	42:DH:151:ILE:CG2	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:89:ILE:CG1	42:DH:90:LYS:N	2.75	0.49
41:BG:55:LYS:O	41:BG:57:ALA:N	2.45	0.49
54:DX:30:VAL:O	54:DX:31:HIS:C	2.50	0.49
47:DQ:110:THR:OG1	47:DQ:113:GLN:HG3	2.12	0.49
56:DZ:71:VAL:HG13	56:DZ:88:PHE:CE2	2.48	0.49
51:DU:92:ARG:HG2	51:DU:92:ARG:O	2.12	0.49
49:BS:107:GLU:HG3	49:BS:108:GLY:N	2.27	0.49
49:BS:15:ARG:C	49:BS:17:ARG:N	2.65	0.49
49:BS:34:HIS:CD2	49:BS:53:SER:CB	2.94	0.49
4:CD:18:LYS:CE	4:CD:31:CYS:SG	3.01	0.49
47:BQ:101:ARG:HG3	47:BQ:101:ARG:HH11	1.76	0.49
35:BA:1227:G:O2'	35:BA:1228:G:H5'	2.12	0.49
35:BA:671:C:H5	46:BP:36:LYS:NZ	2.11	0.49
35:BA:795:C:H2'	35:BA:796:C:H6	1.74	0.49
40:BF:53:THR:O	40:BF:54:ARG:C	2.49	0.49
40:DF:125:LEU:HD12	40:DF:196:LEU:HD22	1.95	0.49
40:DF:1:MET:O	40:DF:2:LYS:C	2.50	0.49
35:BA:871:U:H4'	47:BQ:69:PHE:CE2	2.47	0.49
35:DA:2822:G:H2'	35:DA:2823:A:H5''	1.94	0.49
1:AA:59:A:H5'	1:AA:60:A:H5'	1.94	0.49
48:BR:49:ASP:O	48:BR:52:ILE:N	2.46	0.49
48:BR:56:LYS:NZ	48:BR:88:ARG:O	2.43	0.49
2:AB:157:ARG:HG2	2:AB:158:LEU:N	2.27	0.49
2:AB:165:VAL:O	2:AB:187:LEU:O	2.31	0.49
2:AB:187:LEU:HB2	2:AB:201:ILE:HB	1.95	0.49
44:BN:26:LEU:HD21	44:BN:30:ILE:HD11	1.94	0.49
46:DP:47:ASP:CB	46:DP:51:PHE:HB2	2.34	0.49
35:DA:686:G:N2	35:DA:788:A:N6	2.59	0.49
18:AR:76:LEU:HD22	18:AR:76:LEU:N	2.27	0.49
1:CA:1405:G:H1'	1:CA:1518:A:O2'	2.12	0.49
35:DA:2620:C:OP1	39:DE:152:LYS:O	2.30	0.49
3:AC:172:ARG:HB3	3:AC:174:PRO:HD3	1.93	0.49
16:AP:17:TYR:N	16:AP:17:TYR:CD1	2.80	0.49
1:CA:184:G:O4'	1:CA:224:C:H4'	2.13	0.49
35:BA:1410:G:C6	35:BA:1411:C:N4	2.80	0.49
35:BA:1608:A:O3'	35:BA:1609:A:H3'	2.13	0.49
8:CH:122:ARG:NH1	8:CH:122:ARG:HB2	2.27	0.49
55:BY:18:GLY:C	55:BY:20:TYR:H	2.15	0.49
11:AK:88:GLY:N	11:AK:91:ARG:HB2	2.27	0.49
5:AE:37:ARG:HG2	5:AE:37:ARG:HH11	1.77	0.49
25:CY:67:VAL:HB	25:CY:98:ALA:HB1	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:119:LYS:H	12:AL:119:LYS:HD2	1.77	0.49
8:AH:86:ILE:CG1	8:AH:135:CYS:HA	2.39	0.49
9:AI:17:VAL:CG1	9:AI:81:ILE:HD13	2.43	0.49
1:CA:875:C:O2'	8:CH:14:ARG:NH1	2.46	0.49
48:BR:101:ALA:O	48:BR:102:GLU:HB2	2.12	0.49
35:DA:2119:A:C3'	35:DA:2120:G:H5''	2.43	0.49
35:BA:543:C:C4	35:BA:551:G:N1	2.81	0.49
35:BA:542:C:C2'	35:BA:543:C:OP1	2.60	0.49
35:BA:1613:G:C6	35:BA:1619:G:C6	3.00	0.49
38:DD:43:ARG:CB	38:DD:54:ARG:HB2	2.43	0.49
35:BA:336:C:H4'	55:BY:7:VAL:CG1	2.42	0.49
38:DD:95:LEU:N	38:DD:95:LEU:HD12	2.27	0.49
32:B6:37:ARG:O	32:B6:48:VAL:O	2.30	0.49
35:DA:2014:A:C2	35:DA:2015:A:N1	2.81	0.49
35:BA:2704:C:H2'	35:BA:2705:A:O4'	2.13	0.49
7:CG:47:CYS:HB3	7:CG:58:PRO:HG3	1.95	0.49
32:B6:28:ARG:HG2	32:B6:28:ARG:HH11	1.77	0.49
29:D3:12:PRO:O	29:D3:14:GLY:N	2.45	0.49
1:CA:1469:G:H2'	1:CA:1470:G:C8	2.47	0.49
38:DD:176:ARG:HG2	38:DD:176:ARG:NH1	2.23	0.49
35:DA:1428:C:H41	35:DA:1569:A:H3'	1.76	0.49
17:AQ:82:MET:HA	17:AQ:85:VAL:CG2	2.43	0.49
35:BA:2545:G:N2	35:BA:2546:U:H1'	2.27	0.49
53:BW:20:VAL:HG21	53:BW:47:VAL:HG21	1.94	0.49
36:DB:83:G:C2	36:DB:84:C:C6	3.01	0.49
35:DA:1467:C:N4	35:DA:1525:G:H1	2.10	0.49
4:AD:80:GLU:HB3	4:AD:84:LYS:HZ1	1.77	0.49
35:DA:2408:U:C2	35:DA:2409:G:C8	3.00	0.49
36:BB:65:C:O2'	36:BB:66:A:H5'	2.12	0.49
35:BA:2762:G:H2'	35:BA:2763:G:C5'	2.42	0.49
1:AA:498:U:H2'	1:AA:499:A:C5'	2.41	0.49
1:CA:156:G:C2	1:CA:166:G:N1	2.80	0.49
1:AA:1287:A:H2	1:AA:1353:G:N3	2.10	0.49
35:DA:1434:A:O2'	35:DA:1435:G:H5'	2.13	0.49
36:BB:60:C:C2	36:BB:61:G:C8	3.00	0.49
35:BA:2838:G:N2	48:BR:93:GLY:HA3	2.27	0.49
35:DA:1854:A:H3'	35:DA:1855:G:C8	2.46	0.49
17:CQ:56:VAL:CG2	17:CQ:78:GLU:HG3	2.42	0.49
35:DA:737:C:C2'	35:DA:738:G:O5'	2.61	0.49
35:BA:820:A:O2'	35:BA:821:A:H5'	2.12	0.49
1:AA:788:U:C2	1:AA:789:U:C6	3.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1042:G:O2'	1:AA:1043:C:H5'	2.11	0.49
35:DA:2547:U:H2'	35:DA:2548:G:H8	1.77	0.49
4:CD:87:GLY:C	4:CD:89:THR:H	2.16	0.49
12:AL:104:VAL:O	12:AL:105:TYR:HB2	2.12	0.49
7:CG:133:GLY:O	7:CG:136:LYS:HB2	2.13	0.49
15:AO:43:LEU:C	15:AO:45:VAL:H	2.16	0.49
8:CH:80:ILE:HG22	8:CH:80:ILE:O	2.12	0.49
55:DY:45:VAL:HA	55:DY:62:GLU:CG	2.15	0.49
35:DA:2864:G:H2'	35:DA:2865:U:O4'	2.12	0.49
38:BD:211:ARG:O	38:BD:214:TRP:N	2.46	0.49
35:DA:1827:C:H2'	35:DA:1828:G:O4'	2.13	0.49
38:DD:262:ARG:O	38:DD:264:LYS:N	2.46	0.49
39:BE:9:VAL:HG23	39:BE:9:VAL:O	2.13	0.49
47:BQ:32:TYR:HA	47:BQ:132:VAL:O	2.12	0.49
39:BE:4:ILE:HD11	39:BE:28:ALA:HB1	1.94	0.49
51:BU:66:ASN:ND2	51:BU:70:ARG:NH2	2.38	0.49
51:BU:76:TYR:O	51:BU:80:ILE:HG12	2.13	0.49
19:AS:77:THR:OG1	19:AS:78:ARG:HD2	2.12	0.49
35:BA:2206:G:H21	35:BA:2207:G:C5'	2.22	0.49
2:AB:80:ILE:HG12	2:AB:211:ILE:HG21	1.95	0.49
41:BG:163:ALA:HB1	41:BG:168:GLU:HB2	1.95	0.49
41:BG:19:LEU:O	41:BG:23:PHE:N	2.45	0.49
28:D2:44:LEU:C	28:D2:46:GLN:N	2.61	0.49
54:DX:52:VAL:H	54:DX:80:ILE:HG22	1.77	0.49
47:DQ:134:ARG:C	47:DQ:136:ALA:H	2.16	0.49
19:CS:20:LEU:O	19:CS:23:ASN:HB3	2.12	0.49
4:CD:65:ARG:HH11	4:CD:72:GLU:CA	2.25	0.49
43:DI:77:LEU:HD21	43:DI:101:LEU:HD13	1.95	0.49
40:BF:45:ARG:HD2	40:BF:46:ARG:H	1.78	0.49
35:BA:598:G:C5'	46:BP:15:ARG:HD2	2.37	0.49
39:BE:133:LYS:N	39:BE:134:ILE:HD13	2.27	0.49
44:DN:97:ARG:O	44:DN:98:VAL:C	2.49	0.49
40:BF:62:ARG:NH2	40:BF:64:ILE:HA	2.28	0.49
40:DF:21:ALA:O	40:DF:23:ASP:N	2.46	0.49
35:BA:957:A:H5'	47:BQ:76:LYS:HG3	1.93	0.49
47:BQ:85:LYS:HG3	47:BQ:86:GLY:H	1.78	0.49
48:DR:21:TYR:OH	48:DR:43:GLU:HG2	2.12	0.49
35:BA:2822:G:OP2	39:BE:110:GLY:O	2.31	0.49
3:AC:52:LEU:O	3:AC:53:ALA:HB2	2.11	0.49
20:AT:26:ASN:HD22	20:AT:27:LYS:H	1.60	0.49
48:BR:44:LEU:HD13	48:BR:48:VAL:HG23	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DG:28:VAL:O	41:DG:31:VAL:CG1	2.61	0.49
49:DS:17:ARG:HG3	49:DS:18:ILE:HD13	1.95	0.49
49:DS:90:GLY:C	49:DS:92:TYR:N	2.62	0.49
2:CB:164:VAL:HB	2:CB:186:ALA:HB2	1.95	0.49
35:DA:836:G:C5	35:DA:837:C:C4	2.99	0.49
40:DF:47:GLY:HA3	40:DF:95:ARG:O	2.12	0.49
46:DP:47:ASP:OD1	46:DP:50:ARG:HG3	2.12	0.49
55:DY:14:LEU:HD12	55:DY:15:VAL:N	2.18	0.49
35:DA:955:C:H5'	35:DA:956:G:OP2	2.13	0.49
35:BA:1214:A:H2'	35:BA:1215:G:C8	2.47	0.49
21:AU:18:TYR:HA	21:AU:22:ARG:HD3	1.94	0.49
16:AP:48:TRP:HE3	16:AP:49:LEU:HB3	1.76	0.49
51:BU:40:PHE:N	51:BU:40:PHE:HD2	2.08	0.49
25:AY:156:ARG:NH2	26:B0:6:ALA:CB	2.75	0.49
11:AK:62:GLN:O	11:AK:64:ALA:N	2.45	0.49
42:DH:41:MET:HE1	42:DH:55:PRO:HD2	1.95	0.49
12:AL:57:LYS:O	12:AL:58:VAL:HG23	2.13	0.49
8:CH:97:VAL:HG22	8:CH:98:LYS:N	2.28	0.49
55:BY:31:LEU:HB2	55:BY:36:ALA:N	2.23	0.49
11:AK:27:ASN:OD1	11:AK:28:THR:N	2.45	0.49
35:BA:848:G:H2'	35:BA:849:A:C8	2.47	0.49
8:AH:128:GLY:O	8:AH:129:VAL:HG13	2.12	0.49
1:AA:259:G:O2'	1:AA:260:G:H5'	2.13	0.49
1:CA:1342:C:H2'	1:CA:1343:G:C8	2.48	0.49
8:AH:7:ALA:O	8:AH:11:THR:N	2.32	0.49
12:CL:58:VAL:CG1	12:CL:59:ARG:N	2.76	0.49
31:D5:32:PRO:O	31:D5:33:CYS:CB	2.60	0.49
1:CA:1149:C:H2'	1:CA:1150:U:C6	2.43	0.49
33:D7:30:VAL:CG1	33:D7:33:ARG:HH22	2.25	0.49
1:AA:447:G:N2	1:AA:488:C:N4	2.59	0.49
38:DD:193:VAL:HG13	38:DD:193:VAL:O	2.12	0.49
11:CK:21:ILE:CD1	11:CK:21:ILE:N	2.70	0.49
11:CK:21:ILE:CD1	11:CK:82:VAL:HG13	2.37	0.49
35:DA:2321:G:N3	35:DA:2321:G:H2'	2.27	0.49
1:CA:1490:C:O2'	1:CA:1491:G:H5'	2.12	0.49
35:BA:2830:G:H5'	39:BE:58:ARG:CZ	2.43	0.49
39:DE:167:VAL:CG2	39:DE:168:MET:N	2.75	0.49
35:DA:2704:C:H2'	35:DA:2705:A:O4'	2.12	0.49
35:DA:1248:G:H2'	51:DU:2:PRO:O	2.12	0.49
35:DA:445:C:H5''	51:DU:3:ARG:HB3	1.94	0.49
35:BA:376:C:O2'	35:BA:377:C:H5'	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:271(V):G:C2	35:BA:271(W):G:H1'	2.48	0.49
3:CC:105:GLU:CG	3:CC:106:VAL:H	2.17	0.49
1:AA:390:C:O5'	1:AA:390:C:H6	1.96	0.49
35:DA:1786:A:C6	35:DA:1938:A:N7	2.80	0.49
1:AA:645:C:H2'	1:AA:646:U:C6	2.47	0.49
38:DD:257:LEU:HD23	38:DD:258:LYS:O	2.12	0.49
24:CX:16:U:H2'	24:CX:17:U:C5	2.48	0.49
36:DB:79:C:C2'	36:DB:80:U:H5'	2.42	0.49
23:AW:23:G:O2'	23:AW:24:C:H5''	2.11	0.49
6:CF:83:ASP:O	6:CF:85:VAL:N	2.44	0.49
43:BI:58:LEU:O	43:BI:58:LEU:HD23	2.12	0.49
53:BW:26:GLY:H	53:BW:71:VAL:CG1	2.25	0.49
53:DW:70:TYR:CE2	53:DW:108:GLY:HA3	2.45	0.49
1:AA:358:U:H2'	1:AA:359:U:C6	2.47	0.49
23:AW:53:G:N2	23:AW:54:G:N7	2.61	0.49
35:DA:1853:A:N6	35:DA:1889:A:C8	2.80	0.49
35:BA:1210:A:O2'	35:BA:1211:U:OP2	2.25	0.49
53:DW:34:ASN:HA	53:DW:37:ARG:HB3	1.93	0.49
29:B3:36:VAL:HG23	29:B3:36:VAL:O	2.12	0.49
51:DU:24:TYR:HB2	51:DU:29:SER:OG	2.13	0.49
35:BA:371:A:C4	35:BA:373:U:C4	3.01	0.49
1:AA:788:U:H2'	1:AA:789:U:H6	1.78	0.49
37:BC:56:GLN:HB2	37:BC:168:THR:HA	1.94	0.49
50:DT:58:ASN:N	50:DT:58:ASN:ND2	2.60	0.49
20:CT:58:LYS:HE3	20:CT:62:LEU:CD1	2.42	0.49
35:DA:2366:A:H2'	35:DA:2367:G:O4'	2.12	0.49
7:AG:133:GLY:O	7:AG:136:LYS:HB2	2.13	0.49
56:BZ:75:ASN:O	56:BZ:84:GLU:N	2.45	0.49
9:AI:6:GLY:HA3	9:AI:84:ALA:N	2.27	0.49
35:BA:11:G:O2'	35:BA:12:U:H5'	2.13	0.49
53:BW:29:LEU:HD23	53:BW:29:LEU:C	2.33	0.49
35:DA:2714:G:H5''	35:DA:2714:G:H8	1.77	0.49
35:BA:1788:C:C2	35:BA:1789:A:C8	3.01	0.49
35:BA:1791:A:OP2	35:BA:1791:A:H8	1.95	0.49
38:BD:92:ILE:C	38:BD:92:ILE:HD12	2.33	0.49
35:DA:1817:G:C2'	35:DA:1818:U:H5'	2.41	0.49
38:DD:96:HIS:HA	38:DD:102:LYS:HG2	1.93	0.49
35:DA:2306:C:H5'	35:DA:2307:G:O5'	2.12	0.49
32:B6:27:LYS:HG3	35:BA:2286:A:OP2	2.11	0.49
35:BA:2682:U:O2	39:BE:22:PRO:HB3	2.12	0.49
45:BO:43:VAL:C	45:BO:45:GLU:H	2.16	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BO:44:LYS:O	45:BO:45:GLU:HB3	2.12	0.49
47:BQ:134:ARG:NH1	56:BZ:119:GLU:OE2	2.45	0.49
35:DA:2052:G:N2	39:DE:149:ARG:HA	2.28	0.49
52:BV:22:VAL:HB	52:BV:94:LEU:CB	2.39	0.49
28:B2:25:VAL:O	28:B2:29:LYS:HG3	2.12	0.49
28:B2:47:ASN:HA	28:B2:51:ARG:HB3	1.95	0.49
39:DE:60:ASN:O	39:DE:61:ARG:C	2.51	0.49
41:BG:37:VAL:HG13	41:BG:158:ALA:O	2.13	0.49
35:DA:2476:A:C2	35:DA:2477:C:C6	3.01	0.49
44:DN:41:ASP:N	51:DU:64:ARG:NH1	2.53	0.49
35:DA:2596:U:H2'	35:DA:2597:G:O4'	2.12	0.49
35:DA:2346:A:C2	35:DA:2383:G:N3	2.81	0.49
49:BS:66:ALA:O	49:BS:67:ARG:HB2	2.12	0.49
4:CD:149:ALA:O	4:CD:150:GLU:C	2.51	0.49
4:CD:154:ASN:HA	4:CD:159:ARG:HE	1.76	0.49
4:CD:158:ILE:O	4:CD:162:LEU:HG	2.13	0.49
4:CD:79:PHE:CD2	4:CD:79:PHE:C	2.86	0.49
40:BF:112:MET:O	40:BF:113:ALA:C	2.51	0.49
35:BA:442:G:C4'	40:BF:46:ARG:HD3	2.43	0.49
40:BF:31:HIS:HB2	46:BP:13:ASN:OD1	2.12	0.49
46:DP:70:GLN:HG3	46:DP:71:VAL:HG12	1.94	0.49
46:DP:70:GLN:HG3	46:DP:71:VAL:N	2.28	0.49
5:CE:50:GLU:CD	5:CE:51:VAL:H	2.16	0.49
34:D8:30:ARG:HG2	35:DA:2393:A:H5''	1.95	0.49
35:DA:1141:U:C5'	35:DA:1142(A):A:O4'	2.60	0.49
46:BP:51:PHE:O	46:BP:52:GLU:HB2	2.12	0.49
40:DF:41:LEU:HD11	40:DF:184:TYR:CE1	2.42	0.49
55:BY:87:LYS:C	55:BY:88:LYS:HD2	2.32	0.49
35:DA:1286:A:OP1	48:DR:105:ARG:HD2	2.13	0.49
48:DR:2:ARG:NE	48:DR:5:LYS:NZ	2.60	0.49
48:DR:34:ILE:HG22	48:DR:35:THR:N	2.28	0.49
3:AC:47:LEU:CD2	3:AC:52:LEU:HD13	2.43	0.49
35:BA:1278:A:OP1	48:BR:36:THR:HG22	2.12	0.49
35:BA:1639:U:H2'	35:BA:1640:C:C5'	2.40	0.49
2:AB:82:ARG:HA	2:AB:92:TYR:CE1	2.48	0.49
27:D1:37:ILE:HD12	35:DA:2080:G:OP1	2.12	0.49
44:DN:61:ARG:HH11	44:DN:61:ARG:HG3	1.76	0.49
44:BN:54:VAL:HB	44:BN:122:VAL:HG22	1.94	0.49
15:CO:37:ASN:N	15:CO:37:ASN:ND2	2.57	0.49
35:DA:1259:G:H2'	35:DA:1260:G:H8	1.76	0.49
35:DA:811:U:O2	35:DA:1251:C:C6	2.65	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DV:72:VAL:O	52:DV:73:SER:CB	2.60	0.49
4:AD:104:VAL:O	4:AD:107:ARG:HB2	2.12	0.49
4:AD:96:LEU:C	4:AD:98:GLU:N	2.65	0.49
4:AD:202:LEU:O	4:AD:203:VAL:C	2.51	0.49
4:AD:62:GLN:O	4:AD:63:LYS:C	2.51	0.49
47:DQ:71:ASP:N	47:DQ:94:VAL:O	2.38	0.49
47:BQ:50:ALA:O	47:BQ:54:MET:HB2	2.12	0.49
25:CY:16:LYS:O	25:CY:18:LEU:N	2.45	0.49
25:CY:9:GLU:O	25:CY:13:HIS:ND1	2.45	0.49
25:AY:172:ALA:O	25:AY:173:ASP:C	2.50	0.49
35:DA:1591:G:C2'	35:DA:1592:C:H5'	2.43	0.49
35:BA:2246:G:N2	35:BA:2426:A:H1'	2.26	0.49
35:DA:623:G:H2'	35:DA:624:C:C6	2.47	0.49
46:DP:14:LYS:O	46:DP:15:ARG:HB2	2.13	0.49
43:DI:10:GLU:OE1	43:DI:11:ASN:N	2.46	0.49
18:AR:63:GLN:OE1	18:AR:63:GLN:HA	2.12	0.49
1:CA:586:C:H1'	1:CA:878:G:O2'	2.12	0.49
8:CH:8:ASP:O	8:CH:12:ARG:HG3	2.12	0.49
35:DA:2124:G:C2'	35:DA:2125:G:H5'	2.43	0.49
5:AE:149:GLU:C	5:AE:151:LEU:N	2.65	0.49
1:AA:1349:A:OP2	9:AI:118:LYS:NZ	2.45	0.49
12:CL:90:VAL:CG1	12:CL:93:LEU:HG	2.43	0.49
46:DP:83:VAL:HG13	46:DP:83:VAL:O	2.13	0.49
3:AC:107:GLN:N	3:AC:107:GLN:CD	2.65	0.49
35:BA:2732:G:O2'	35:BA:2733:A:H5'	2.11	0.49
39:BE:103:ASP:CG	39:BE:201:THR:HA	2.33	0.49
44:BN:93:THR:C	44:BN:94:HIS:CG	2.85	0.49
1:AA:1055:A:C2	1:AA:1056:U:H1'	2.48	0.49
35:BA:1504:C:O2'	35:BA:1505:C:C5'	2.61	0.49
5:AE:78:HIS:CD2	8:AH:104:ARG:NE	2.80	0.49
20:CT:14:LYS:HE3	20:CT:18:GLN:HE21	1.78	0.49
4:AD:128:VAL:CG1	4:AD:129:ASN:N	2.72	0.49
1:CA:472:A:H4'	16:CP:82:GLN:HE22	1.78	0.49
32:D6:28:ARG:HG2	32:D6:28:ARG:HH11	1.77	0.49
38:DD:31:LYS:HZ2	38:DD:31:LYS:HA	1.75	0.49
17:AQ:86:GLU:HB3	17:AQ:90:ILE:HG12	1.95	0.49
2:CB:20:GLU:OE1	2:CB:20:GLU:HA	2.13	0.49
35:DA:285:C:H2'	35:DA:286:C:C4'	2.42	0.49
41:DG:166:ASP:O	41:DG:170:ARG:N	2.44	0.49
45:DO:87:ILE:HG13	45:DO:91:LEU:CD1	2.42	0.49
35:DA:184:C:H2'	35:DA:185:U:H6	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2292:C:H2'	35:DA:2293:C:C6	2.48	0.49
1:CA:498:U:C2'	1:CA:499:A:H5'	2.41	0.49
4:CD:194:LEU:N	4:CD:194:LEU:CD2	2.75	0.49
20:CT:53:LEU:O	20:CT:54:LYS:C	2.50	0.49
10:CJ:78:ASN:C	10:CJ:80:LYS:N	2.63	0.49
1:AA:1293:G:O2'	1:AA:1294:G:H8	1.96	0.49
35:DA:1532:C:O2	35:DA:1532:C:H2'	2.12	0.49
35:BA:884:C:H4'	35:BA:892:G:N7	2.28	0.49
39:DE:2:LYS:NZ	39:DE:95:ILE:O	2.31	0.49
40:BF:7:TYR:HB3	40:BF:16:GLY:C	2.33	0.49
1:CA:447:G:N2	1:CA:488:C:N4	2.60	0.49
35:BA:2024:G:H2'	35:BA:2025:C:C6	2.47	0.49
35:BA:1910:G:O2'	35:BA:1911:U:H5'	2.12	0.49
37:DC:56:GLN:HB2	37:DC:168:THR:HA	1.95	0.49
35:BA:2650:U:H2'	35:BA:2651:C:C6	2.48	0.49
35:BA:151:C:H2'	35:BA:152:G:C8	2.48	0.49
1:AA:782:A:N6	1:AA:801:U:C6	2.81	0.49
1:CA:163:C:O2'	1:CA:164:U:H5'	2.12	0.49
35:BA:859:G:H5'	35:BA:2268:A:O2'	2.12	0.49
35:DA:1166:C:H2'	35:DA:1167:U:C6	2.47	0.49
3:AC:30:ARG:HD2	14:AN:38:GLY:HA3	1.94	0.49
5:CE:60:TYR:HE2	5:CE:64:ARG:HE	1.60	0.49
1:AA:482:A:H3'	1:AA:483:C:C6	2.48	0.49
43:BI:120:ILE:O	43:BI:121:LYS:HB3	2.12	0.49
35:BA:1902:C:O2'	38:BD:244:ARG:HB2	2.12	0.49
38:BD:65:ILE:HD11	38:BD:67:PHE:CD1	2.47	0.49
35:DA:1790:C:H5''	35:DA:1791:A:OP1	2.13	0.49
35:DA:1814:G:H2'	35:DA:1815:A:C8	2.48	0.49
38:DD:25:THR:HG21	38:DD:82:ILE:N	2.27	0.49
41:DG:48:GLU:O	41:DG:49:ASP:CB	2.61	0.49
34:B8:34:TRP:HZ3	34:B8:41:ILE:HG23	1.78	0.49
35:BA:2677:G:C4	35:BA:2678:C:C5	3.00	0.49
35:BA:2684:U:H2'	35:BA:2685:G:O4'	2.12	0.49
35:BA:2864:G:H2'	35:BA:2865:U:O4'	2.13	0.49
39:BE:11:MET:N	50:BT:8:LYS:HE3	2.27	0.49
35:DA:2569:G:C2	35:DA:2570:G:C8	3.01	0.49
39:DE:116:VAL:HG22	39:DE:117:MET:H	1.78	0.49
35:BA:2892:A:N6	35:BA:2893:G:H21	2.11	0.49
51:BU:108:GLU:HA	51:BU:111:GLU:HG2	1.95	0.49
52:BV:18:LEU:HA	52:BV:97:LYS:NZ	2.28	0.49
28:B2:24:LEU:HD11	28:B2:28:LYS:NZ	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:71:A:H4'	35:BA:72:U:C5'	2.42	0.49
39:DE:197:ILE:HG13	39:DE:199:ARG:NH1	2.24	0.49
2:AB:213:LEU:O	2:AB:217:ARG:HG2	2.12	0.49
56:DZ:14:LYS:C	56:DZ:16:SER:N	2.66	0.49
56:DZ:58:VAL:O	56:DZ:58:VAL:HG12	2.13	0.49
35:DA:998:C:H42	35:DA:1157:G:H1	1.60	0.49
51:DU:98:LEU:C	51:DU:100:VAL:N	2.65	0.49
4:CD:108:LEU:O	4:CD:110:PHE:HD1	1.95	0.49
47:BQ:20:ALA:CB	47:BQ:98:LYS:HB3	2.43	0.49
35:BA:1024:G:H8	35:BA:1024:G:O5'	1.95	0.49
3:CC:150:LYS:HA	3:CC:169:ALA:HB2	1.93	0.49
35:BA:612:C:H2'	35:BA:613:G:O4'	2.12	0.49
40:BF:184:TYR:HD2	40:BF:185:ASP:N	2.11	0.49
40:BF:117:ARG:NH2	40:BF:189:THR:O	2.46	0.49
40:BF:99:TYR:CG	40:BF:99:TYR:O	2.66	0.49
35:BA:2574:G:O2'	39:BE:143:ASN:HB3	2.13	0.49
44:DN:71:ILE:HD13	44:DN:86:PRO:HA	1.94	0.49
35:BA:942:G:H1'	35:BA:1189:A:H2	1.78	0.49
35:BA:1255:U:H5''	35:BA:1256:G:H5''	1.92	0.49
35:BA:589:C:H42	35:BA:668:G:H1	1.60	0.49
35:BA:990:A:C6	35:BA:1186:G:H1'	2.48	0.49
35:BA:300:A:H5''	55:BY:97:ARG:NH1	2.27	0.49
35:BA:1276:A:H1'	48:BR:16:HIS:HE1	1.78	0.49
50:BT:106:SER:O	50:BT:107:ASP:CB	2.61	0.49
27:D1:23:LYS:HZ3	27:D1:23:LYS:HA	1.76	0.49
15:CO:85:LEU:HB2	15:CO:87:ILE:HD11	1.94	0.49
35:DA:814:C:H2'	35:DA:815:C:H6	1.78	0.49
1:AA:1320:C:H5'	19:AS:70:LYS:CE	2.43	0.49
35:DA:307:G:H21	35:DA:330:A:H62	1.61	0.49
17:AQ:32:TYR:O	17:AQ:34:LYS:N	2.45	0.49
1:CA:1401:G:H2'	1:CA:1402:C:C5'	2.43	0.49
1:CA:570:G:C6	1:CA:873:A:N1	2.81	0.49
42:DH:17:VAL:HB	42:DH:45:VAL:HG22	1.94	0.49
2:AB:112:VAL:C	2:AB:115:LEU:HB3	2.29	0.49
1:AA:939:G:H2'	1:AA:940:C:H6	1.77	0.49
25:CY:2:THR:CG2	25:CY:4:LYS:HB3	2.42	0.49
43:BI:38:LEU:N	43:BI:38:LEU:HD12	2.10	0.49
25:AY:29:ARG:HA	25:AY:32:ARG:NE	2.28	0.49
35:BA:1131:G:H1'	35:BA:1132:A:H8	1.77	0.49
35:DA:2248:C:H3'	35:DA:2249:U:H6	1.78	0.49
35:DA:1591:G:O2'	35:DA:1592:C:H5'	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:40:GLU:O	42:DH:41:MET:HB2	2.12	0.49
42:DH:67:LEU:C	42:DH:71:LEU:HD22	2.32	0.49
7:AG:79:ARG:HH11	7:AG:79:ARG:HG3	1.78	0.49
1:CA:1108:G:N3	1:CA:1108:G:H2'	2.27	0.49
1:AA:1396:A:O4'	1:AA:1398:A:H1'	2.13	0.49
5:AE:33:VAL:CG2	5:AE:43:LEU:HD13	2.35	0.49
9:AI:87:GLN:C	9:AI:89:ASN:H	2.16	0.49
35:BA:2538:C:HO2'	35:BA:2539:C:H5'	1.76	0.49
31:D5:40:LYS:CE	31:D5:46:CYS:N	2.70	0.49
31:B5:40:LYS:NZ	31:B5:46:CYS:H	2.10	0.49
12:AL:55:VAL:O	12:AL:56:ALA:HB2	2.12	0.49
1:AA:1350:A:H2'	1:AA:1351:U:C6	2.48	0.49
35:BA:626:U:C2	46:BP:105:LEU:HG	2.47	0.49
44:DN:93:THR:C	44:DN:94:HIS:CG	2.85	0.49
23:AW:49:C:C2'	23:AW:60:A:H4'	2.43	0.49
12:AL:41:ARG:NH1	12:AL:41:ARG:HB3	2.20	0.49
26:D0:29:GLN:O	26:D0:66:VAL:HA	2.13	0.49
32:D6:15:GLU:CG	32:D6:15:GLU:O	2.58	0.49
3:CC:178:LEU:HD22	3:CC:178:LEU:H	1.78	0.49
5:CE:8:GLU:CA	5:CE:34:VAL:HG22	2.39	0.49
13:CM:54:VAL:O	13:CM:58:GLU:N	2.45	0.49
1:AA:338:A:H2'	1:AA:339:C:C6	2.47	0.49
15:AO:53:HIS:O	15:AO:56:LEU:N	2.45	0.49
35:DA:433:C:H2'	35:DA:434:U:C6	2.48	0.49
17:CQ:92:ARG:O	17:CQ:94:ASN:N	2.45	0.49
46:BP:59:LEU:HA	46:BP:61:ARG:CD	2.43	0.49
35:BA:1465:G:C4'	35:BA:1528:A:H8	2.25	0.49
35:BA:1465:G:H5'	35:BA:1528:A:H8	1.78	0.49
45:BO:13:ASN:HD21	45:BO:96:THR:H	1.59	0.49
56:BZ:139:VAL:HG12	56:BZ:141:VAL:H	1.78	0.49
44:BN:13:TRP:H	44:BN:13:TRP:HD1	1.59	0.49
7:AG:15:ASP:HB2	7:AG:23:VAL:HB	1.95	0.49
35:DA:602:G:H2'	35:DA:602:G:N3	2.27	0.49
7:AG:42:ILE:HG23	7:AG:117:ALA:CA	2.42	0.49
7:AG:42:ILE:HG23	7:AG:117:ALA:CB	2.43	0.49
35:DA:838:C:N4	35:DA:940:G:H1	2.10	0.49
1:AA:163:C:O2'	1:AA:164:U:H5'	2.13	0.49
37:DC:99:ILE:HG23	37:DC:103:ILE:CB	2.43	0.49
26:D0:20:ARG:CD	26:D0:20:ARG:N	2.76	0.49
2:AB:118:LEU:HD11	2:AB:141:GLU:OE1	2.13	0.49
33:B7:37:LYS:HG3	35:BA:458:G:C8	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2336:A:H3'	35:BA:2337:G:H8	1.78	0.49
34:D8:5:LYS:N	34:D8:5:LYS:HD2	2.27	0.49
1:AA:1338:G:O2'	1:AA:1339:A:H5'	2.13	0.49
35:DA:2676:C:O2'	35:DA:2677:G:H5'	2.13	0.49
38:BD:27:THR:HG21	38:BD:83:GLU:CG	2.28	0.49
1:CA:16:A:N1	1:CA:919:A:C2	2.81	0.49
1:CA:863:U:H2'	1:CA:865:A:OP2	2.13	0.49
38:DD:264:LYS:CE	38:DD:266:SER:HB2	2.43	0.49
45:BO:1:MET:HE2	45:BO:1:MET:H3	1.78	0.49
56:BZ:58:VAL:CA	56:BZ:68:PRO:HA	2.42	0.49
56:BZ:60:GLU:HA	56:BZ:66:SER:CB	2.41	0.49
1:AA:1069:C:O2'	1:AA:1192:C:H1'	2.12	0.49
52:BV:19:LYS:NZ	52:BV:20:LEU:N	2.56	0.49
42:DH:103:LEU:HG	42:DH:105:LEU:CD1	2.43	0.49
1:AA:972:C:C5'	10:AJ:57:LYS:HG3	2.43	0.49
28:D2:12:GLU:O	28:D2:14:ARG:CD	2.61	0.49
28:D2:32:LEU:HG	28:D2:33:MET:SD	2.52	0.49
35:DA:61:G:C2'	35:DA:62:C:H5'	2.43	0.49
54:DX:46:ALA:C	54:DX:47:PHE:CD1	2.86	0.49
42:BH:113:VAL:HG21	42:BH:151:ILE:CG2	2.43	0.49
47:DQ:141:GLN:HE21	56:DZ:72:ARG:CA	2.23	0.49
51:DU:79:PHE:O	51:DU:83:LEU:HD13	2.12	0.49
35:BA:1493:C:C2'	35:BA:1493:C:O2	2.61	0.49
49:BS:28:VAL:N	49:BS:89:ARG:HG2	2.28	0.49
49:BS:46:VAL:HG12	49:BS:47:THR:N	2.27	0.49
4:CD:150:GLU:HG2	4:CD:151:LYS:H	1.77	0.49
4:CD:65:ARG:HB2	4:CD:75:PHE:CZ	2.48	0.49
35:DA:2640:G:H5'	35:DA:2640:G:H8	1.78	0.49
40:BF:121:GLY:O	40:BF:123:LEU:N	2.46	0.49
25:AY:70:SER:CB	25:AY:76:LEU:HB2	2.42	0.49
27:D1:72:GLU:O	27:D1:76:ARG:NH1	2.46	0.49
27:D1:89:GLU:HG2	27:D1:90:ILE:CD1	2.42	0.49
27:D1:89:GLU:O	27:D1:93:GLU:CD	2.50	0.49
48:DR:28:LEU:C	48:DR:28:LEU:HD13	2.32	0.49
48:DR:60:LEU:O	48:DR:63:ARG:N	2.46	0.49
20:AT:73:HIS:C	20:AT:74:LYS:HD3	2.33	0.49
35:BA:1277:G:H2'	35:BA:1278:A:C8	2.48	0.49
48:BR:56:LYS:HE2	48:BR:94:TYR:CE2	2.48	0.49
49:DS:83:LYS:HA	49:DS:104:GLY:CA	2.40	0.49
44:DN:31:ALA:O	44:DN:32:THR:C	2.51	0.49
1:CA:659:U:H2'	1:CA:660:G:C8	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2442:C:O2'	35:DA:2443:C:H5'	2.12	0.49
46:DP:39:LYS:C	46:DP:41:ARG:N	2.66	0.49
35:DA:869:G:H1'	47:DQ:8:LYS:HZ3	1.75	0.49
18:AR:34:TYR:O	18:AR:35:ARG:HG2	2.12	0.49
1:CA:777:A:H2'	1:CA:778:G:H8	1.77	0.49
35:DA:2030:A:H5''	35:DA:2031:A:OP1	2.13	0.49
35:DA:32:C:H42	35:DA:473:G:H1	1.60	0.49
21:CU:18:TYR:HA	21:CU:22:ARG:HD3	1.95	0.49
43:BI:36:ALA:O	43:BI:37:VAL:HG23	2.13	0.49
13:CM:112:GLY:C	13:CM:113:PRO:HG2	2.33	0.49
42:DH:18:GLU:CB	42:DH:25:LYS:HD2	2.43	0.49
35:BA:1659:U:OP2	39:BE:132:HIS:CE1	2.66	0.49
25:AY:29:ARG:NH2	25:AY:88:LEU:HA	2.28	0.49
25:AY:126:ARG:HA	25:AY:169:ILE:CD1	2.43	0.49
37:BC:44:HIS:HD2	37:BC:175:VAL:CA	2.26	0.49
11:AK:58:PRO:HA	11:AK:90:GLY:HA3	1.95	0.49
35:BA:769:G:H4'	35:BA:1379:A:N1	2.27	0.49
8:CH:114:THR:HG21	8:CH:119:LEU:HD21	1.95	0.49
20:CT:73:HIS:C	20:CT:74:LYS:HD3	2.32	0.49
2:CB:97:TRP:HH2	2:CB:176:GLU:CB	2.25	0.49
35:DA:613:G:C6	35:DA:615:G:O6	2.66	0.49
40:DF:39:TRP:CB	40:DF:101:LEU:HD22	2.42	0.49
20:AT:97:ALA:O	20:AT:99:LEU:N	2.42	0.49
2:CB:115:LEU:HA	2:CB:145:LEU:HD11	1.95	0.49
1:CA:1350:A:H2'	1:CA:1351:U:C6	2.48	0.49
8:AH:47:GLY:O	8:AH:62:TYR:N	2.36	0.49
8:CH:27:PRO:O	8:CH:32:LYS:NZ	2.41	0.49
48:BR:101:ALA:HB1	53:BW:38:TYR:HE1	1.78	0.49
35:DA:773:U:H4'	38:DD:47:GLY:HA2	1.94	0.49
1:CA:376:G:O2'	1:CA:377:G:H5'	2.13	0.49
54:BX:26:TYR:H	54:BX:26:TYR:HD1	1.61	0.49
35:BA:2591:C:P	38:BD:239:ARG:HG3	2.53	0.49
38:DD:117:VAL:CG2	38:DD:118:VAL:H	2.24	0.49
2:AB:100:GLY:O	2:AB:104:ASN:N	2.46	0.49
35:DA:2250:G:H8	35:DA:2496:C:H5''	1.77	0.49
35:DA:375:C:H2'	35:DA:376:C:C6	2.48	0.49
1:AA:1459:C:H2'	1:AA:1460:A:O4'	2.12	0.49
1:CA:199:G:H2'	1:CA:200:G:H8	1.77	0.49
35:BA:2170:A:H5'	35:BA:2171:A:OP2	2.13	0.49
5:AE:82:VAL:CG2	5:AE:138:ALA:HA	2.39	0.49
5:AE:72:GLN:HE22	5:AE:77:PRO:CD	2.24	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:80:ILE:CD1	5:AE:91:LEU:HB2	2.43	0.49
5:AE:89:ILE:HG12	5:AE:90:VAL:N	2.26	0.49
7:CG:50:ILE:HG21	7:CG:61:VAL:HG21	1.94	0.49
43:DI:54:GLN:OE1	43:DI:54:GLN:C	2.51	0.49
54:BX:62:LYS:CB	54:BX:69:TYR:H	2.26	0.49
12:AL:21:LYS:HD2	12:AL:21:LYS:N	2.21	0.49
1:CA:665:A:C2'	1:CA:725:G:N2	2.72	0.49
1:AA:596:C:H2'	1:AA:596:C:O2	2.13	0.49
26:B0:36:ILE:HG13	26:B0:36:ILE:O	2.11	0.49
35:BA:862:G:H3'	35:BA:863:A:H8	1.78	0.49
35:BA:917:A:H2'	35:BA:918:A:O4'	2.12	0.49
25:AY:73:GLN:HG3	25:AY:74:ASN:OD1	2.12	0.49
54:BX:14:SER:O	54:BX:17:ALA:N	2.45	0.49
17:AQ:82:MET:HA	17:AQ:85:VAL:HG23	1.95	0.49
17:AQ:86:GLU:HA	17:AQ:89:LEU:HB3	1.94	0.49
35:BA:2543:G:H2'	35:BA:2544:G:H8	1.75	0.49
48:DR:6:SER:HA	48:DR:8:ARG:HH21	1.78	0.49
29:D3:52:HIS:CD2	36:DB:83:G:C4'	2.95	0.49
17:CQ:86:GLU:HB3	17:CQ:90:ILE:HG12	1.93	0.49
53:DW:5:ALA:HB1	53:DW:50:VAL:HG22	1.95	0.49
35:BA:2880:C:O3'	48:BR:90:ARG:NH1	2.44	0.49
1:CA:334:C:C2'	1:CA:335:C:H5'	2.42	0.49
23:CW:43:G:C3'	23:CW:44:A:H5''	2.43	0.49
35:BA:694:U:C2'	35:BA:695:G:O5'	2.61	0.49
35:DA:1515:G:H2'	35:DA:1516:C:H5'	1.93	0.49
35:DA:1516:C:H2'	35:DA:1517:G:H8	1.77	0.49
1:AA:648:A:H2'	1:AA:649:G:C8	2.47	0.49
29:B3:26:LEU:O	29:B3:27:GLY:C	2.50	0.49
3:AC:60:ALA:CB	3:AC:63:ASN:HD21	2.25	0.49
46:BP:138:LEU:O	46:BP:138:LEU:HD22	2.12	0.49
43:BI:82:ARG:HG3	43:BI:82:ARG:NH1	2.27	0.49
35:DA:66:C:O2'	35:DA:67:U:H5'	2.12	0.49
1:AA:574:A:N3	1:AA:883:C:H1'	2.28	0.49
35:BA:1360:A:C6	35:BA:1372:U:C5	3.00	0.49
1:CA:189(B):C:H2'	1:CA:189(C):C:C6	2.48	0.49
1:CA:838:G:O2'	1:CA:839:U:H5''	2.13	0.49
4:AD:52:SER:OG	4:AD:55:ALA:N	2.38	0.49
37:DC:64:LEU:HD12	37:DC:66:HIS:HB2	1.95	0.49
35:DA:2854:G:H1	35:DA:2863:C:H42	1.61	0.49
10:CJ:50:ILE:HD11	14:CN:41:ARG:CD	2.38	0.49
10:CJ:55:LYS:O	10:CJ:56:HIS:CG	2.66	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1567:A:H3'	38:BD:86:PRO:HG3	1.94	0.49
38:BD:264:LYS:CE	38:BD:266:SER:HB2	2.43	0.49
5:CE:130:ASN:O	5:CE:131:ILE:C	2.49	0.49
35:DA:1800:C:C4	35:DA:1818:U:O2	2.66	0.49
41:DG:114:ILE:HD12	41:DG:117:PHE:CG	2.48	0.49
41:DG:131:TYR:CD1	41:DG:132:ASN:N	2.81	0.49
47:DQ:20:ALA:HA	47:DQ:98:LYS:HD3	1.94	0.49
45:BO:71:ARG:NH1	45:BO:71:ARG:HG3	2.28	0.49
45:BO:77:ILE:HD11	50:BT:72:VAL:HG13	1.95	0.49
47:BQ:25:ASP:CB	47:BQ:67:ARG:HH22	2.26	0.49
56:BZ:121:HIS:C	56:BZ:123:ASP:H	2.16	0.49
56:BZ:129:SER:C	56:BZ:131:ARG:H	2.15	0.49
56:BZ:73:GLN:O	56:BZ:87:ASP:OD1	2.31	0.49
39:BE:60:ASN:O	39:BE:63:LEU:N	2.45	0.49
51:BU:98:LEU:HD22	52:BV:2:PHE:HZ	1.78	0.49
52:BV:69:LYS:HB2	52:BV:93:GLU:OE2	2.13	0.49
1:AA:961:U:OP2	1:AA:1223:C:H4'	2.13	0.49
1:AA:972:C:OP2	10:AJ:57:LYS:HE2	2.13	0.49
28:B2:14:ARG:HD2	28:B2:57:ILE:HD12	1.95	0.49
28:B2:53:LEU:HA	28:B2:56:GLN:HG3	1.95	0.49
54:BX:83:VAL:C	54:BX:85:PRO:HD3	2.33	0.49
39:DE:181:LEU:O	39:DE:182:LEU:CB	2.60	0.49
39:DE:78:LEU:C	39:DE:79:ARG:HD2	2.34	0.49
37:DC:50:ASP:O	37:DC:52:ARG:N	2.45	0.49
27:B1:71:TYR:CE1	43:BI:27:ARG:HG3	2.48	0.49
41:BG:7:LEU:HG	41:BG:104:GLU:HG2	1.93	0.49
41:BG:73:ALA:CB	41:BG:87:PRO:HG2	2.38	0.49
28:D2:14:ARG:NE	28:D2:14:ARG:C	2.59	0.49
56:DZ:48:PHE:HE2	56:DZ:71:VAL:HG11	1.73	0.49
52:DV:15:GLU:CB	52:DV:16:PRO:HD2	2.41	0.49
19:CS:16:LEU:N	19:CS:16:LEU:CD1	2.75	0.49
49:BS:66:ALA:HB1	49:BS:98:VAL:O	2.13	0.49
49:BS:95:HIS:O	49:BS:97:ARG:N	2.46	0.49
4:CD:18:LYS:NZ	4:CD:31:CYS:CB	2.76	0.49
4:CD:96:LEU:HD13	4:CD:96:LEU:N	2.28	0.49
35:BA:1024:G:N2	35:BA:1142(A):A:H2	2.11	0.49
35:BA:256:A:H2'	35:BA:257:A:H8	1.77	0.49
40:BF:32:LEU:O	40:BF:35:GLU:N	2.46	0.49
25:AY:34:ASN:OD1	25:AY:35:PRO:HD2	2.12	0.49
25:AY:76:LEU:HD11	25:AY:98:ALA:C	2.33	0.49
35:DA:1141:U:OP2	44:DN:63:THR:HG21	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2406:U:N3	46:BP:72:PRO:HD2	2.27	0.49
46:BP:23:PRO:HB2	46:BP:33:ARG:NE	2.27	0.49
52:BV:72:VAL:HG13	52:BV:88:ARG:NH2	2.28	0.49
46:DP:6:LEU:O	46:DP:6:LEU:HD23	2.12	0.49
35:DA:1278:A:OP1	48:DR:36:THR:HG22	2.13	0.49
35:BA:1682:G:H2'	35:BA:1683:C:C6	2.48	0.49
35:BA:2708:G:H1'	48:BR:71:GLN:OE1	2.13	0.49
1:CA:908:A:C2	1:CA:909:A:N7	2.81	0.49
36:DB:29:A:H2'	36:DB:30:C:C6	2.48	0.49
36:DB:52:A:O2'	36:DB:53:A:H8	1.96	0.49
2:AB:69:LEU:HD13	2:AB:91:PRO:O	2.13	0.49
27:D1:34:THR:CG2	35:DA:387:U:O3'	2.61	0.49
44:DN:52:VAL:O	44:DN:120:LEU:HD22	2.12	0.49
15:CO:66:LEU:O	15:CO:69:TYR:HB3	2.12	0.49
15:CO:70:LEU:CD2	15:CO:78:TYR:HA	2.42	0.49
35:DA:1250:G:H3'	35:DA:1251:C:H5'	1.94	0.49
4:AD:108:LEU:O	4:AD:110:PHE:HD1	1.96	0.49
4:AD:110:PHE:H	4:AD:110:PHE:HD1	1.59	0.49
6:AF:10:LEU:HD21	6:AF:22:GLU:HB3	1.94	0.49
16:AP:60:LEU:O	16:AP:62:VAL:N	2.46	0.49
25:CY:173:ASP:C	25:CY:175:LEU:N	2.67	0.49
12:CL:84:LEU:HD22	12:CL:101:VAL:HG21	1.95	0.49
1:CA:1308:U:OP1	13:CM:98:VAL:N	2.46	0.49
13:CM:86:CYS:O	13:CM:89:GLY:N	2.45	0.49
12:CL:7:ILE:O	12:CL:10:LEU:HB2	2.13	0.49
51:BU:18:LEU:HD21	51:BU:22:LYS:HE2	1.95	0.49
35:DA:2247:A:O2'	35:DA:2248:C:H5'	2.13	0.49
42:DH:66:GLY:CA	42:DH:69:ARG:HB2	2.35	0.49
55:BY:14:LEU:O	55:BY:72:VAL:HA	2.13	0.49
55:BY:38:ILE:CG2	55:BY:39:VAL:N	2.76	0.49
23:AW:41:C:H2'	23:AW:42:C:H6	1.77	0.49
1:AA:1227:A:O2'	13:AM:115:LYS:HB2	2.13	0.49
35:DA:609:A:H2'	35:DA:610:G:O4'	2.13	0.49
35:DA:612:C:H2'	35:DA:613:G:O4'	2.13	0.49
1:CA:1104:G:H2'	1:CA:1105:A:C8	2.48	0.49
8:AH:27:PRO:O	8:AH:32:LYS:NZ	2.44	0.49
8:AH:6:ILE:N	8:AH:6:ILE:HD12	2.27	0.49
1:AA:1128:C:H5'	9:AI:16:ARG:NH1	2.28	0.49
35:BA:2225:A:H1'	35:BA:2226:C:OP2	2.13	0.49
8:CH:60:ARG:HH11	8:CH:60:ARG:HG3	1.78	0.49
1:AA:1168:A:C2	1:AA:1169:A:C4	3.01	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1310:G:H1	35:DA:1604:C:H42	1.60	0.49
46:BP:97:PRO:C	46:BP:99:LEU:N	2.67	0.49
7:CG:112:PRO:HD2	7:CG:113:GLU:OE2	2.12	0.49
18:CR:87:ARG:HH11	18:CR:87:ARG:HB3	1.77	0.49
35:DA:707:G:H3'	35:DA:708:C:H6	1.78	0.49
35:BA:1926:U:H2'	35:BA:1928:A:OP2	2.13	0.49
35:BA:49:A:C5	35:BA:177:G:C6	3.01	0.49
27:D1:19:GLN:OE1	27:D1:44:PRO:HB3	2.13	0.49
1:AA:645:C:O2'	1:AA:646:U:H5'	2.12	0.49
43:BI:54:GLN:HA	43:BI:57:ARG:HH11	1.77	0.49
27:B1:20:ARG:NH1	27:B1:41:ARG:CZ	2.72	0.49
48:DR:103:ARG:HB3	48:DR:109:ALA:O	2.13	0.49
1:CA:894:G:H2'	1:CA:895:G:H8	1.78	0.49
53:BW:5:ALA:HB1	53:BW:50:VAL:HG22	1.94	0.49
35:DA:1221:C:H2'	35:DA:1221(A):C:C6	2.42	0.49
1:CA:498:U:H2'	1:CA:499:A:C5'	2.42	0.49
1:AA:243:A:O2'	1:AA:244:U:OP2	2.30	0.49
7:AG:40:ALA:O	7:AG:44:TYR:HD1	1.96	0.49
35:DA:2843:G:C2	35:DA:2875:C:N3	2.81	0.49
35:DA:1681:G:O2'	35:DA:1762:A:H2'	2.13	0.49
1:AA:1163:C:H2'	1:AA:1164:G:C8	2.46	0.49
7:CG:11:GLN:HG3	7:CG:12:LEU:N	2.28	0.49
35:DA:1887:C:C3'	35:DA:1888:G:H5''	2.42	0.49
35:BA:2364:C:C2'	35:BA:2365:G:H5'	2.43	0.49
37:DC:76:ALA:C	37:DC:78:ALA:H	2.16	0.49
3:CC:91:LEU:CB	3:CC:99:VAL:HG21	2.43	0.49
1:AA:1416:G:C4	1:AA:1417:G:C8	3.00	0.49
37:BC:41:VAL:HB	37:BC:178:ALA:CB	2.42	0.49
1:AA:858:G:O6	1:AA:869:G:C8	2.66	0.49
11:AK:33:THR:C	11:AK:40:ILE:HG12	2.33	0.49
2:AB:9:GLU:O	2:AB:13:ALA:CB	2.60	0.49
1:AA:309:G:H2'	1:AA:310:G:H8	1.78	0.49
35:DA:2251:G:N3	35:DA:2450:A:H1'	2.28	0.49
1:AA:577:G:C4	1:AA:816:A:C2	3.00	0.49
35:DA:785:G:H2'	35:DA:786:C:H6	1.76	0.49
11:AK:15:ALA:HA	11:AK:76:GLY:O	2.13	0.49
1:CA:90:U:O5'	1:CA:90:U:H6	1.96	0.49
53:BW:92:ARG:HH11	53:BW:92:ARG:HG2	1.78	0.49
35:BA:2497:A:C8	35:BA:2497:A:O5'	2.66	0.49
35:DA:1637:A:H2'	35:DA:1638:C:C6	2.47	0.48
35:DA:2566:A:N6	45:DO:28:SER:HB2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DT:27:THR:HG23	50:DT:28:VAL:N	2.28	0.48
1:CA:1049:U:H1'	1:CA:1201:A:C8	2.48	0.48
35:BA:1788:C:O5'	35:BA:1788:C:H6	1.95	0.48
38:BD:267:SER:O	38:BD:269:PHE:HD1	1.95	0.48
38:BD:34:VAL:O	38:BD:34:VAL:CG1	2.61	0.48
35:DA:1567:A:N6	38:DD:21:PHE:CE2	2.81	0.48
35:BA:1953:A:H2	35:BA:2549:G:N3	2.11	0.48
35:BA:2562:U:H2'	35:BA:2563:U:C5'	2.43	0.48
50:BT:52:ILE:HG22	50:BT:61:PHE:HB3	1.95	0.48
45:BO:76:ALA:CB	50:BT:75:ILE:HD13	2.42	0.48
39:BE:55:ASN:ND2	39:BE:75:VAL:HG22	2.28	0.48
42:DH:138:LYS:HA	42:DH:141:VAL:HB	1.95	0.48
42:DH:85:LYS:HD3	42:DH:133:VAL:HB	1.94	0.48
39:DE:48:GLN:O	39:DE:49:LEU:HD13	2.13	0.48
39:DE:47:VAL:HG12	39:DE:49:LEU:CD2	2.43	0.48
27:B1:90:ILE:HD13	27:B1:90:ILE:N	2.27	0.48
35:BA:2303:G:H2'	35:BA:2304:G:O4'	2.13	0.48
35:BA:2305:A:N6	41:BG:43:LEU:HA	2.28	0.48
28:D2:51:ARG:CZ	35:DA:72:U:H5'	2.43	0.48
47:DQ:32:TYR:N	47:DQ:32:TYR:CD1	2.81	0.48
56:DZ:102:LEU:HD12	56:DZ:121:HIS:O	2.12	0.48
51:DU:74:LEU:CD1	51:DU:79:PHE:HB2	2.42	0.48
52:DV:18:LEU:HA	52:DV:97:LYS:NZ	2.28	0.48
52:DV:4:ILE:HB	52:DV:40:LEU:HD11	1.95	0.48
4:CD:34:GLU:O	4:CD:35:ARG:HG2	2.13	0.48
4:CD:59:ARG:NH2	4:CD:66:ARG:HH22	2.05	0.48
43:DI:91:SER:H	43:DI:121:LYS:HE2	1.77	0.48
47:BQ:38:GLU:HB2	47:BQ:127:ILE:CG2	2.43	0.48
40:BF:6:VAL:CG2	40:BF:124:LEU:HA	2.41	0.48
40:BF:1:MET:O	40:BF:2:LYS:C	2.50	0.48
27:D1:13:ILE:CG1	27:D1:14:VAL:H	2.04	0.48
27:D1:76:ARG:CA	27:D1:78:LYS:HZ3	2.25	0.48
35:DA:1021:A:C3'	35:DA:1021:A:C8	2.96	0.48
46:BP:23:PRO:HB2	46:BP:33:ARG:CG	2.42	0.48
46:BP:48:PRO:HG2	46:BP:49:ARG:N	2.28	0.48
52:BV:72:VAL:HA	52:BV:88:ARG:HH22	1.78	0.48
47:BQ:88:GLY:O	47:BQ:89:ASN:CB	2.61	0.48
48:DR:14:SER:O	48:DR:15:SER:C	2.52	0.48
48:DR:39:PRO:O	48:DR:40:LYS:C	2.51	0.48
35:DA:1453:U:OP1	48:DR:77:ARG:NH1	2.46	0.48
1:AA:1435:G:C2	1:AA:1436:U:N3	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:29:LYS:O	20:AT:32:ALA:HB3	2.12	0.48
48:BR:16:HIS:O	48:BR:19:ALA:N	2.44	0.48
50:BT:100:TYR:CD2	50:BT:103:ARG:CZ	2.93	0.48
49:DS:87:PHE:HB2	49:DS:106:ARG:HD3	1.94	0.48
49:DS:13:ARG:O	49:DS:15:ARG:HD3	2.13	0.48
49:DS:92:TYR:CD2	49:DS:97:ARG:NH1	2.80	0.48
35:DA:199:A:N3	35:DA:2433:A:C2	2.81	0.48
35:DA:204:A:H5'	35:DA:206:U:O4'	2.13	0.48
44:BN:125:GLY:HA3	44:BN:126:PRO:O	2.12	0.48
44:BN:56:ASN:HA	44:BN:124:ALA:CA	2.40	0.48
8:CH:68:ARG:HG3	8:CH:69:ARG:N	2.23	0.48
52:DV:75:PHE:CE1	52:DV:89:GLN:HB2	2.48	0.48
35:DA:1213:A:N3	35:DA:1238:G:H1'	2.28	0.48
4:AD:173:TRP:O	4:AD:186:LEU:HB2	2.12	0.48
19:AS:9:VAL:O	19:AS:10:PHE:C	2.51	0.48
43:DI:94:ALA:CB	43:DI:114:LEU:HD12	2.43	0.48
1:CA:1516:G:N2	1:CA:1518:A:H3'	2.28	0.48
35:DA:2019:A:N1	35:DA:2020:A:C4	2.81	0.48
35:DA:2619:C:O2'	35:DA:2620:C:H5'	2.13	0.48
16:AP:60:LEU:HD23	16:AP:64:ALA:CB	2.30	0.48
25:CY:123:GLU:HA	25:CY:126:ARG:HH11	1.78	0.48
25:CY:26:ALA:HA	25:CY:179:LYS:NZ	2.28	0.48
12:CL:32:PHE:HD1	12:CL:86:ARG:HA	1.78	0.48
12:AL:32:PHE:CB	12:AL:84:LEU:HD21	2.43	0.48
26:B0:32:ARG:N	26:B0:35:ASN:ND2	2.47	0.48
51:BU:33:ARG:O	51:BU:36:ARG:N	2.46	0.48
35:DA:847:U:C2'	35:DA:848:G:H5''	2.30	0.48
8:CH:114:THR:HG22	8:CH:117:GLY:O	2.13	0.48
55:BY:14:LEU:HD12	55:BY:15:VAL:N	2.24	0.48
23:AW:38:A:H2'	23:AW:39:A:H5''	1.95	0.48
1:AA:1308:U:OP1	13:AM:98:VAL:N	2.45	0.48
35:DA:239:U:O2'	35:DA:622:G:H4'	2.13	0.48
40:DF:103:LYS:O	40:DF:104:LYS:C	2.50	0.48
11:CK:66:LEU:O	11:CK:67:ASP:C	2.49	0.48
1:CA:1349:A:O2'	1:CA:1350:A:H5'	2.13	0.48
9:AI:28:VAL:CG1	9:AI:29:ASN:N	2.75	0.48
9:AI:53:VAL:HG12	9:AI:95:LYS:HE3	1.95	0.48
9:CI:17:VAL:CG1	9:CI:81:ILE:HD13	2.43	0.48
23:AW:26:C:H2'	23:AW:27:G:O4'	2.12	0.48
15:AO:11:VAL:HG21	15:AO:34:LEU:CD2	2.43	0.48
38:DD:133:LEU:HB2	38:DD:187:GLY:HA2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BZ:16:SER:O	56:BZ:19:ARG:HG2	2.13	0.48
35:BA:1937:A:H2'	35:BA:1938:A:H5'	1.94	0.48
35:BA:2673:G:HO2'	35:BA:2674:G:H5'	1.77	0.48
55:BY:7:VAL:HG23	55:BY:8:LYS:HD2	1.94	0.48
17:CQ:45:HIS:O	17:CQ:73:VAL:HG23	2.13	0.48
1:AA:235:C:H5'	17:AQ:70:ARG:HG2	1.94	0.48
35:BA:2115:G:H22	35:BA:2170:A:N6	2.11	0.48
1:CA:324:G:N2	1:CA:327:A:C8	2.81	0.48
1:AA:390:C:H2'	1:AA:391:G:H8	1.78	0.48
43:DI:54:GLN:HA	43:DI:57:ARG:HH11	1.77	0.48
38:DD:239:ARG:NH2	38:DD:239:ARG:HG3	2.26	0.48
53:DW:17:VAL:O	53:DW:18:ARG:C	2.52	0.48
5:CE:91:LEU:HD23	5:CE:110:LEU:HD11	1.95	0.48
53:DW:86:LEU:HD12	53:DW:87:PRO:CD	2.43	0.48
25:CY:108:GLU:HG2	25:CY:111:ARG:HH21	1.78	0.48
13:CM:10:PRO:CB	13:CM:18:ALA:HB1	2.42	0.48
1:AA:729:A:H2'	1:AA:730:G:H8	1.78	0.48
29:D3:13:ILE:HD12	35:DA:989:G:N7	2.28	0.48
13:AM:48:LEU:HD11	13:AM:53:VAL:HG22	1.95	0.48
48:BR:3:HIS:HB2	48:BR:4:LEU:H	1.47	0.48
15:AO:78:TYR:O	15:AO:82:ILE:HG22	2.13	0.48
1:CA:645:C:H2'	1:CA:646:U:C6	2.47	0.48
4:CD:2:GLY:O	4:CD:3:ARG:C	2.51	0.48
35:DA:286:C:O2	35:DA:286:C:C2'	2.58	0.48
36:BB:83:G:C2	36:BB:84:C:C6	3.01	0.48
35:BA:189:G:C4	35:BA:205:G:N2	2.80	0.48
6:AF:85:VAL:O	6:AF:85:VAL:HG12	2.13	0.48
35:DA:1445(A):C:H2'	35:DA:1446:C:C6	2.48	0.48
35:BA:285:C:H2'	35:BA:286:C:C4'	2.43	0.48
1:CA:895:G:C6	1:CA:896:C:N4	2.81	0.48
35:DA:154(A):C:H5	35:DA:171:G:H1	1.57	0.48
35:DA:2350:C:H2'	35:DA:2351:G:O4'	2.13	0.48
56:BZ:139:VAL:C	56:BZ:141:VAL:N	2.67	0.48
7:AG:16:LEU:CD1	9:AI:41:VAL:HG12	2.43	0.48
29:D3:26:LEU:HD21	29:D3:46:ASN:HB3	1.95	0.48
45:BO:4:PRO:HA	45:BO:21:CYS:SG	2.53	0.48
41:BG:9:ARG:HH11	41:BG:9:ARG:HG3	1.77	0.48
43:BI:29:TYR:CD2	43:BI:30:LEU:HD23	2.47	0.48
16:CP:80:PHE:O	16:CP:81:ARG:C	2.51	0.48
1:CA:1036:G:H2'	1:CA:1036:G:N3	2.27	0.48
38:BD:201:HIS:C	38:BD:203:ASN:N	2.66	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:121:ASN:HB2	41:BG:181:ARG:NH2	2.28	0.48
35:DA:2517:C:H2'	35:DA:2542:A:H2	1.78	0.48
35:DA:1553:A:N7	35:DA:1555:G:C5	2.81	0.48
35:BA:66:C:O2'	35:BA:67:U:H5'	2.13	0.48
38:DD:201:HIS:C	38:DD:203:ASN:N	2.65	0.48
35:DA:1848:A:H2'	35:DA:1849:G:C8	2.47	0.48
23:CW:11:A:H2'	23:CW:12:G:C8	2.48	0.48
35:BA:2547:U:H2'	35:BA:2548:G:H8	1.78	0.48
35:BA:1916:A:H3'	35:BA:1917:U:H6	1.78	0.48
35:DA:2251:G:H2'	35:DA:2252:G:O4'	2.13	0.48
5:AE:60:TYR:HE2	5:AE:64:ARG:HE	1.60	0.48
36:DB:18:G:H2'	36:DB:19:G:H8	1.78	0.48
25:CY:93:SER:C	25:CY:95:LYS:H	2.16	0.48
8:AH:50:ARG:HG2	8:AH:50:ARG:HH11	1.77	0.48
35:DA:1992:G:N1	35:DA:1997:G:N1	2.60	0.48
35:DA:2695:C:H2'	35:DA:2696:U:C6	2.48	0.48
35:DA:2726:U:H6	45:DO:67:LYS:NZ	2.11	0.48
41:DG:14:GLU:O	41:DG:17:PRO:HD2	2.13	0.48
1:CA:15:G:O3'	5:CE:24:ARG:NH2	2.46	0.48
35:DA:1798:U:N3	35:DA:1819:A:C2	2.81	0.48
38:DD:210:GLY:O	38:DD:211:ARG:CB	2.58	0.48
38:DD:211:ARG:O	38:DD:214:TRP:N	2.47	0.48
41:DG:142:PRO:HG2	41:DG:143:GLU:HG2	1.95	0.48
45:BO:9:GLU:O	45:BO:83:ALA:HB1	2.13	0.48
35:BA:2631:G:H22	39:BE:61:ARG:NH1	2.10	0.48
51:BU:90:VAL:O	51:BU:92:ARG:N	2.44	0.48
51:BU:96:ALA:C	51:BU:98:LEU:H	2.17	0.48
42:DH:160:LYS:O	42:DH:163:TYR:HE1	1.96	0.48
9:AI:126:SER:O	9:AI:127:LYS:CB	2.61	0.48
14:AN:24:CYS:HB3	14:AN:27:CYS:O	2.12	0.48
35:BA:1348:G:H2'	35:BA:1349:A:C5'	2.30	0.48
2:AB:80:ILE:CD1	2:AB:215:LEU:HD12	2.43	0.48
41:BG:36:LYS:HE3	41:BG:160:VAL:HG21	1.94	0.48
28:D2:29:LYS:HA	28:D2:32:LEU:CB	2.39	0.48
55:BY:60:PHE:HD2	55:BY:60:PHE:O	1.95	0.48
51:DU:108:GLU:OE1	51:DU:112:ARG:NH2	2.43	0.48
49:BS:92:TYR:HD2	49:BS:97:ARG:NH1	2.11	0.48
4:CD:159:ARG:HH11	4:CD:159:ARG:HG3	1.77	0.48
14:CN:4:LYS:HA	14:CN:7:ILE:HD11	1.94	0.48
40:BF:28:ILE:HA	40:BF:112:MET:HG2	1.94	0.48
35:DA:244:A:O2'	46:DP:73:GLY:HA3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BP:71:VAL:HG22	46:BP:72:PRO:HG3	1.94	0.48
35:BA:578:A:OP1	35:BA:1255:U:O2'	2.29	0.48
40:BF:68:LYS:O	40:BF:69:HIS:CB	2.61	0.48
52:BV:75:PHE:HB2	52:BV:87:HIS:CB	2.43	0.48
40:DF:110:LEU:HA	40:DF:183:VAL:CG1	2.39	0.48
1:AA:321:A:N7	1:AA:328:C:O2	2.46	0.48
35:BA:2712:U:C1'	35:BA:2712(A):A:C8	2.95	0.48
49:DS:89:ARG:CA	49:DS:89:ARG:NE	2.74	0.48
35:DA:2431:U:H2'	35:DA:2433:A:OP2	2.13	0.48
6:CF:8:ILE:HD13	6:CF:26:ILE:HD13	1.94	0.48
35:DA:2065:C:H2'	35:DA:2066:C:H6	1.78	0.48
46:DP:47:ASP:HB2	46:DP:51:PHE:CB	2.32	0.48
4:AD:159:ARG:HH11	4:AD:159:ARG:HG3	1.78	0.48
35:BA:2534:A:H2'	35:BA:2535:G:O4'	2.13	0.48
47:DQ:16:ARG:HB3	47:DQ:16:ARG:HH11	1.75	0.48
1:AA:738:C:H5''	6:AF:69:GLU:CB	2.42	0.48
35:BA:2736:G:O2'	35:BA:2737:G:H5'	2.13	0.48
25:AY:61:PRO:HD3	25:AY:66:LEU:HA	1.95	0.48
7:CG:100:ALA:O	7:CG:101:LEU:C	2.50	0.48
12:AL:25:PRO:C	12:AL:27:LEU:H	2.15	0.48
26:D0:32:ARG:N	26:D0:35:ASN:HD22	1.93	0.48
35:BA:1354:A:C8	35:BA:1355:G:C8	3.01	0.48
19:AS:62:ILE:HD12	19:AS:63:THR:N	2.26	0.48
8:CH:120:THR:O	8:CH:122:ARG:N	2.46	0.48
35:BA:103:A:H2'	35:BA:104:U:C6	2.47	0.48
55:BY:14:LEU:O	55:BY:72:VAL:HG12	2.13	0.48
7:AG:85:TYR:CE1	7:AG:154:TYR:HE1	2.31	0.48
35:DA:238:C:H2'	35:DA:239:U:H6	1.78	0.48
8:AH:28:ALA:HB2	8:AH:57:PRO:O	2.13	0.48
8:CH:28:ALA:HB2	8:CH:57:PRO:O	2.13	0.48
18:CR:53:ARG:HH12	18:CR:59:SER:CA	2.22	0.48
7:CG:122:HIS:O	7:CG:125:MET:HB3	2.13	0.48
35:BA:1982:C:H2'	35:BA:1983:C:H6	1.79	0.48
35:DA:2220:G:H2'	35:DA:2221:G:C8	2.36	0.48
1:CA:113:G:H2'	1:CA:114:U:C6	2.49	0.48
1:CA:112:G:H5'	1:CA:389:A:H4'	1.95	0.48
48:BR:99:LYS:C	48:BR:100:LEU:HD22	2.34	0.48
53:BW:6:ILE:HG22	53:BW:6:ILE:O	2.13	0.48
4:CD:131:ARG:N	4:CD:131:ARG:HD3	2.29	0.48
35:BA:1274:A:N3	35:BA:1297:C:H1'	2.27	0.48
1:AA:1250:A:H4'	9:AI:68:GLY:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1399:C:H2'	35:BA:1400:G:C8	2.48	0.48
35:BA:1400:G:H2'	35:BA:1401:G:C8	2.47	0.48
1:CA:645:C:H2'	1:CA:646:U:H6	1.77	0.48
2:AB:19:HIS:CE1	2:AB:206:ASP:HB2	2.47	0.48
35:DA:2762:G:H2'	35:DA:2763:G:C5'	2.40	0.48
36:BB:90:A:C8	36:BB:91:C:H1'	2.48	0.48
35:BA:1446:C:O2'	35:BA:1447:G:H5'	2.12	0.48
44:BN:107:LEU:HB2	44:BN:108:PRO:CD	2.41	0.48
52:DV:45:THR:O	52:DV:45:THR:HG22	2.13	0.48
45:BO:13:ASN:HD22	45:BO:97:ARG:HG2	1.78	0.48
35:DA:2194:G:H5'	35:DA:2195:C:OP2	2.13	0.48
35:DA:2290:G:H2'	35:DA:2291:U:O4'	2.13	0.48
32:B6:40:CYS:HB2	32:B6:46:HIS:CE1	2.45	0.48
35:BA:449:A:C2'	35:BA:450:G:H5'	2.43	0.48
53:BW:64:MET:CE	53:BW:109:GLU:HG3	2.43	0.48
53:BW:64:MET:O	53:BW:65:LEU:CB	2.61	0.48
35:DA:828:U:H3'	35:DA:828:U:O2	2.12	0.48
35:DA:1127:A:H2'	35:DA:1128:A:H5''	1.94	0.48
35:BA:67:U:H2'	35:BA:68:G:C8	2.48	0.48
1:AA:788:U:C5	1:AA:789:U:C5	3.01	0.48
35:DA:1184:G:C2'	35:DA:1185:C:H5'	2.43	0.48
37:DC:41:VAL:HB	37:DC:178:ALA:CB	2.43	0.48
1:AA:997:U:H2'	1:AA:998:G:C8	2.48	0.48
35:BA:503:A:C6	35:BA:505:A:C6	3.02	0.48
1:AA:372:C:H4'	1:AA:373:A:OP1	2.14	0.48
2:CB:17:PHE:C	2:CB:17:PHE:CD2	2.84	0.48
9:CI:56:LEU:HD23	9:CI:56:LEU:O	2.13	0.48
1:AA:1447:A:OP2	1:AA:1452:C:C6	2.65	0.48
35:DA:2336:A:H3'	35:DA:2337:G:H8	1.77	0.48
37:BC:74:VAL:H	37:BC:91:ALA:HB1	1.77	0.48
35:BA:1678:G:OP2	35:BA:1678:G:C8	2.66	0.48
50:BT:32:TYR:HB2	50:BT:33:LYS:H	1.46	0.48
56:BZ:10:ARG:CZ	56:BZ:36:LYS:HB3	2.43	0.48
56:BZ:52:SER:OG	56:BZ:53:ILE:N	2.46	0.48
39:BE:4:ILE:HD11	39:BE:29:GLY:H	1.78	0.48
39:BE:60:ASN:O	39:BE:62:PRO:N	2.47	0.48
35:BA:998:C:P	51:BU:93:LYS:HE2	2.53	0.48
52:BV:36:PRO:HD2	52:BV:60:GLU:O	2.14	0.48
54:BX:72:LYS:O	54:BX:73:ARG:HB3	2.13	0.48
27:B1:86:SER:O	27:B1:86:SER:OG	2.29	0.48
41:BG:120:LEU:HB3	41:BG:131:TYR:OH	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DY:74:PRO:HG2	55:DY:80:GLY:C	2.34	0.48
35:BA:2666:C:O2'	35:BA:2667:C:H5'	2.12	0.48
56:DZ:49:ARG:HB2	56:DZ:50:GLN:OE1	2.13	0.48
52:DV:61:VAL:CG2	52:DV:99:ILE:HB	2.39	0.48
3:AC:153:VAL:HG12	3:AC:154:SER:H	1.78	0.48
36:BB:28:C:O2'	36:BB:29:A:H5'	2.13	0.48
36:BB:52:A:O2'	36:BB:53:A:H8	1.96	0.48
49:BS:24:LEU:H	49:BS:24:LEU:HD22	1.78	0.48
1:CA:542:G:C6	1:CA:543:C:N4	2.82	0.48
4:CD:170:VAL:CG1	4:CD:174:LEU:HB2	2.43	0.48
43:DI:145:VAL:CG1	43:DI:146:ALA:N	2.76	0.48
35:BA:660:G:C6	35:BA:661:C:C4	3.01	0.48
35:BA:1186:G:H2'	35:BA:1187:G:H5'	1.94	0.48
35:BA:666:G:O2'	35:BA:667:U:H5'	2.12	0.48
40:BF:70:THR:O	40:BF:72:ARG:N	2.46	0.48
40:BF:74:ARG:O	40:BF:75:HIS:ND1	2.45	0.48
52:BV:75:PHE:HB2	52:BV:87:HIS:HB3	1.95	0.48
40:DF:157:VAL:HB	40:DF:194:MET:CB	2.43	0.48
40:DF:28:ILE:CD1	40:DF:28:ILE:H	2.26	0.48
39:DE:161:GLY:O	39:DE:163:GLU:HG2	2.13	0.48
48:BR:26:LYS:HG2	48:BR:70:LEU:HD22	1.95	0.48
49:DS:15:ARG:C	49:DS:17:ARG:N	2.65	0.48
2:AB:157:ARG:CG	2:AB:158:LEU:H	2.25	0.48
2:AB:68:ILE:HG22	2:AB:70:PHE:CD1	2.47	0.48
27:D1:23:LYS:CB	27:D1:23:LYS:HZ2	2.25	0.48
15:CO:33:THR:HG23	15:CO:63:ARG:HH11	1.78	0.48
18:CR:73:ALA:HB3	18:CR:79:LEU:HD12	1.96	0.48
4:AD:120:LEU:HB2	4:AD:126:ILE:HD11	1.94	0.48
4:AD:149:ALA:O	4:AD:150:GLU:C	2.51	0.48
17:AQ:34:LYS:O	17:AQ:36:ILE:HG12	2.13	0.48
43:DI:112:LYS:H	43:DI:114:LEU:HG	1.79	0.48
47:DQ:16:ARG:HG2	47:DQ:17:LEU:N	2.21	0.48
25:CY:122:ALA:O	25:CY:125:GLY:N	2.45	0.48
43:BI:10:GLU:OE1	43:BI:11:ASN:N	2.46	0.48
1:CA:955:U:O2'	1:CA:956:U:H5'	2.13	0.48
13:CM:91:ARG:O	13:CM:96:LEU:N	2.46	0.48
1:AA:376:G:O2'	1:AA:377:G:H5'	2.14	0.48
35:BA:1591:G:C2'	35:BA:1592:C:H5'	2.43	0.48
25:AY:143:LEU:CD2	25:AY:144:ALA:N	2.77	0.48
11:AK:66:LEU:O	11:AK:67:ASP:C	2.52	0.48
35:BA:1424:G:O2'	35:BA:1425:G:H5'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:65:HIS:CG	42:DH:66:GLY:N	2.81	0.48
35:BA:2388:A:H5'	35:BA:2389:G:OP2	2.13	0.48
35:DA:660:G:C6	35:DA:661:C:C4	3.01	0.48
1:AA:262:A:C6	1:AA:263:A:C6	3.01	0.48
12:AL:89:ARG:NE	12:AL:91:LYS:HE2	2.28	0.48
8:AH:15:ASN:O	8:AH:16:ALA:C	2.52	0.48
1:AA:1348:U:H2'	1:AA:1349:A:C8	2.49	0.48
38:BD:132:PRO:HG3	38:BD:190:TYR:CE1	2.48	0.48
35:DA:1268:A:C6	35:DA:2013:A:C8	3.02	0.48
16:CP:6:LEU:HD23	16:CP:17:TYR:CD2	2.48	0.48
39:BE:14:ILE:HB	50:BT:14:TYR:HE2	1.79	0.48
53:BW:86:LEU:HD12	53:BW:87:PRO:HD2	1.95	0.48
14:AN:8:GLU:C	14:AN:12:ARG:HD3	2.34	0.48
1:CA:1178:G:N2	1:CA:1180:A:H3'	2.28	0.48
3:AC:159:GLY:O	3:AC:160:ALA:C	2.51	0.48
51:BU:20:LEU:CD2	51:BU:20:LEU:H	2.21	0.48
17:AQ:45:HIS:O	17:AQ:73:VAL:HG23	2.12	0.48
5:AE:135:THR:O	5:AE:139:LEU:HG	2.14	0.48
32:D6:13:CYS:O	32:D6:21:TYR:HA	2.13	0.48
13:CM:67:GLU:O	13:CM:68:GLY:C	2.52	0.48
32:B6:32:ASN:O	32:B6:33:LYS:HB2	2.13	0.48
35:DA:132:G:H2'	35:DA:133:C:C6	2.48	0.48
13:AM:67:GLU:O	13:AM:68:GLY:C	2.52	0.48
39:BE:38:THR:CG2	39:BE:39:PRO:HD2	2.44	0.48
2:AB:24:TRP:O	2:AB:25:ASN:HB2	2.12	0.48
35:BA:1835:G:N3	35:BA:1835:G:H2'	2.28	0.48
29:D3:41:PRO:HB3	35:DA:852:G:O2'	2.13	0.48
36:DB:65:C:O2'	36:DB:66:A:H5'	2.12	0.48
53:BW:45:TYR:CD2	53:BW:45:TYR:C	2.86	0.48
35:DA:2814:C:H2'	35:DA:2815:C:C6	2.45	0.48
35:DA:797:C:OP2	40:DF:62:ARG:HG3	2.13	0.48
36:DB:25:A:H2'	36:DB:26:A:O4'	2.13	0.48
53:DW:64:MET:O	53:DW:65:LEU:CB	2.61	0.48
7:CG:40:ALA:O	7:CG:44:TYR:HD1	1.96	0.48
1:AA:241:C:H1'	1:AA:286:G:N2	2.28	0.48
35:DA:2882:A:OP1	48:DR:96:ARG:HD3	2.12	0.48
18:CR:19:LYS:O	18:CR:20:ALA:CB	2.61	0.48
1:AA:1163:C:N3	1:AA:1174:G:N2	2.60	0.48
35:DA:2841:C:C2	35:DA:2877:G:C2	3.01	0.48
35:DA:2364:C:C2'	35:DA:2365:G:H5'	2.43	0.48
35:DA:1514:U:C2	35:DA:1515:G:C8	3.02	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1759:A:H2'	35:BA:1760:A:H8	1.76	0.48
5:CE:26:PHE:O	5:CE:27:ARG:HB2	2.12	0.48
35:BA:407:G:H2'	35:BA:408:G:C8	2.46	0.48
1:AA:1519:A:N7	1:AA:1520:G:H1'	2.27	0.48
35:DA:785:G:H2'	35:DA:786:C:C6	2.48	0.48
28:B2:60:LEU:O	28:B2:62:THR:N	2.46	0.48
53:DW:76:VAL:HB	53:DW:103:ILE:HG22	1.95	0.48
1:CA:1001:A:H2	1:CA:1001(A):G:O6	1.96	0.48
35:DA:830:G:C4	35:DA:2448:A:C5	3.01	0.48
35:DA:1563:G:O2'	35:DA:1564:C:H5'	2.13	0.48
41:BG:45:GLU:HG2	41:BG:45:GLU:O	2.13	0.48
35:DA:134:C:O2'	35:DA:135:G:H5'	2.13	0.48
36:BB:18:G:H2'	36:BB:19:G:H8	1.78	0.48
35:DA:790:C:O2'	35:DA:791:C:C5'	2.61	0.48
35:DA:2711:A:OP1	35:DA:2712(A):A:OP1	2.32	0.48
39:DE:23:VAL:HA	39:DE:184:VAL:O	2.14	0.48
45:DO:65:THR:O	45:DO:79:PHE:HB2	2.13	0.48
43:BI:83:ALA:HB2	43:BI:88:ILE:HG23	1.94	0.48
35:BA:1795:C:N4	35:BA:1824:G:H1	2.11	0.48
38:BD:44:ASN:ND2	38:BD:47:GLY:O	2.46	0.48
35:DA:1785:A:N7	35:DA:1787:A:C5	2.81	0.48
35:BA:1991:U:C2'	35:BA:1992:G:C5'	2.91	0.48
45:BO:68:GLU:HB3	45:BO:78:ARG:CD	2.41	0.48
56:BZ:27:VAL:N	56:BZ:85:HIS:HE1	2.11	0.48
56:BZ:76:LEU:HB2	56:BZ:81:ARG:O	2.14	0.48
39:DE:117:MET:CE	39:DE:124:GLY:HA3	2.44	0.48
51:BU:108:GLU:HB3	51:BU:112:ARG:NH1	2.27	0.48
51:BU:86:ALA:HB2	51:BU:116:ALA:HB1	1.95	0.48
52:BV:18:LEU:HA	52:BV:97:LYS:HZ1	1.78	0.48
27:B1:89:GLU:C	27:B1:90:ILE:HD13	2.33	0.48
41:BG:76:SER:HB3	41:BG:84:LYS:N	2.21	0.48
54:DX:57:LEU:HD12	54:DX:76:ARG:CD	2.42	0.48
42:BH:160:LYS:O	42:BH:163:TYR:HE1	1.95	0.48
35:BA:2643:G:C2	35:BA:2772:C:N3	2.81	0.48
56:DZ:121:HIS:C	56:DZ:123:ASP:N	2.66	0.48
56:DZ:140:ASP:C	56:DZ:142:SER:H	2.16	0.48
51:DU:86:ALA:HB2	51:DU:116:ALA:HB1	1.94	0.48
35:BA:2378:A:O2'	49:BS:22:GLY:HA3	2.13	0.48
36:BB:5:C:H2'	36:BB:6:C:H6	1.78	0.48
49:BS:90:GLY:C	49:BS:92:TYR:H	2.17	0.48
1:CA:541:G:H2'	1:CA:542:G:H8	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:176:LEU:HD12	4:CD:177:ASP:H	1.78	0.48
47:BQ:39:PRO:O	47:BQ:40:ALA:HB2	2.13	0.48
44:BN:71:ILE:HD13	44:BN:86:PRO:HA	1.94	0.48
55:BY:44:ILE:HG23	55:BY:45:VAL:N	2.28	0.48
39:BE:116:VAL:CG2	39:BE:122:PHE:HB2	2.38	0.48
35:BA:2052:G:H4'	39:BE:143:ASN:O	2.13	0.48
27:D1:49:VAL:O	27:D1:62:VAL:O	2.31	0.48
27:D1:90:ILE:O	27:D1:93:GLU:HG2	2.13	0.48
3:CC:7:PRO:O	3:CC:11:ARG:HG2	2.13	0.48
34:B8:4:MET:CE	34:B8:61:LEU:HD12	2.44	0.48
35:BA:580:C:H2'	35:BA:581:C:H6	1.78	0.48
35:BA:1247:A:OP1	40:BF:95:ARG:NH2	2.47	0.48
55:BY:88:LYS:NZ	55:BY:93:GLY:N	2.50	0.48
48:DR:94:TYR:CD1	48:DR:94:TYR:N	2.82	0.48
1:AA:1422:G:C2	1:AA:1479:C:N3	2.81	0.48
1:AA:1480:G:N1	1:AA:1481:U:C2	2.81	0.48
35:BA:2696:U:H2'	35:BA:2697:G:H8	1.78	0.48
48:BR:28:LEU:O	48:BR:30:THR:N	2.45	0.48
27:D1:41:ARG:NH2	35:DA:205:G:N1	2.58	0.48
6:CF:69:GLU:O	6:CF:70:ASP:C	2.52	0.48
18:CR:74:ARG:HE	18:CR:81:PHE:CA	2.22	0.48
35:DA:588:U:H1'	40:DF:90:PHE:HB3	1.95	0.48
4:AD:154:ASN:HA	4:AD:159:ARG:HE	1.78	0.48
4:AD:158:ILE:O	4:AD:162:LEU:HG	2.13	0.48
3:AC:7:PRO:O	3:AC:11:ARG:HG2	2.13	0.48
4:AD:56:VAL:C	4:AD:58:LEU:N	2.66	0.48
25:CY:64:ARG:HA	25:CY:103:ILE:CG1	2.44	0.48
12:CL:85:ILE:CD1	12:CL:98:TYR:HB3	2.42	0.48
20:CT:38:LYS:O	20:CT:39:LYS:C	2.51	0.48
1:CA:262:A:C6	1:CA:263:A:C6	3.02	0.48
25:AY:60:ALA:HB1	25:AY:65:THR:O	2.13	0.48
33:B7:8:ASN:C	33:B7:8:ASN:ND2	2.66	0.48
1:CA:601:C:H42	1:CA:637:G:H1	1.62	0.48
1:AA:955:U:O2'	1:AA:956:U:H5'	2.13	0.48
35:DA:662:G:O2'	35:DA:663:G:H5'	2.13	0.48
35:DA:660:G:C5'	40:DF:99:TYR:CD2	2.95	0.48
1:AA:193:C:O2'	1:AA:194:C:H5'	2.14	0.48
1:CA:1104:G:H2'	1:CA:1105:A:H8	1.77	0.48
25:CY:92:PRO:HB3	25:CY:101:ILE:HG12	1.95	0.48
8:CH:6:ILE:CG2	8:CH:10:LEU:HD11	2.42	0.48
7:CG:79:ARG:HH11	7:CG:79:ARG:HG3	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:CR:63:GLN:OE1	18:CR:63:GLN:HA	2.13	0.48
35:DA:543:C:C4	35:DA:551:G:N1	2.80	0.48
5:CE:149:GLU:C	5:CE:151:LEU:N	2.66	0.48
16:CP:48:TRP:O	16:CP:49:LEU:C	2.51	0.48
7:CG:69:VAL:O	7:CG:69:VAL:HG12	2.12	0.48
35:DA:1230:C:O2'	35:DA:1231:G:H5'	2.13	0.48
7:AG:119:ARG:O	7:AG:120:ILE:C	2.52	0.48
1:CA:314:C:O2'	1:CA:315:A:H5'	2.12	0.48
35:DA:2250:G:C6	47:DQ:82:ARG:HD2	2.48	0.48
40:DF:171:PRO:HG2	40:DF:172:TRP:H	1.79	0.48
35:DA:2165:G:H3'	35:DA:2166:G:H8	1.78	0.48
35:DA:2170:A:H5'	35:DA:2171:A:OP2	2.13	0.48
35:BA:681:G:H2'	35:BA:682:G:O4'	2.12	0.48
35:BA:1927:A:C6	35:BA:1928:A:C6	3.02	0.48
1:AA:391:G:C6	1:AA:392:G:N7	2.81	0.48
35:DA:1369:G:N2	35:DA:1370:C:C2	2.82	0.48
5:CE:8:GLU:N	5:CE:34:VAL:HG13	2.28	0.48
35:BA:1688:U:O2	35:BA:1688:U:H2'	2.12	0.48
1:CA:1473:A:O2'	1:CA:1474:G:H5'	2.14	0.48
1:AA:66:G:N3	1:AA:66:G:H2'	2.28	0.48
1:AA:1236:A:H4'	1:AA:1304:G:H4'	1.95	0.48
38:BD:139:GLY:H	38:BD:165:ILE:HB	1.79	0.48
36:DB:66:A:N6	36:DB:108:U:H2'	2.25	0.48
26:B0:27:GLU:H	26:B0:69:PHE:HE1	1.58	0.48
35:DA:1400:G:H2'	35:DA:1401:G:C8	2.48	0.48
53:BW:70:TYR:CE2	53:BW:108:GLY:HA3	2.42	0.48
35:BA:2839:G:H1'	48:BR:93:GLY:H	1.77	0.48
1:AA:189(D):C:H1'	1:AA:189(H):G:N2	2.28	0.48
30:D4:45:GLY:C	30:D4:47:GLN:N	2.66	0.48
6:CF:3:ARG:NH1	6:CF:38:GLU:OE2	2.46	0.48
35:BA:2460:U:C2'	35:BA:2461:C:H5'	2.44	0.48
3:CC:92:ALA:C	3:CC:94:LEU:H	2.17	0.48
35:DA:37:C:H2'	35:DA:38:A:H8	1.78	0.48
1:CA:1042:G:O2'	1:CA:1043:C:H5'	2.14	0.48
7:AG:115:ARG:O	7:AG:118:VAL:HG23	2.13	0.48
35:BA:1360:A:C5	35:BA:1372:U:C4	3.01	0.48
21:CU:21:TYR:N	21:CU:21:TYR:CD1	2.80	0.48
1:AA:81:U:H2'	1:AA:82:U:C6	2.48	0.48
35:DA:2677:G:C4	35:DA:2678:C:H5	2.31	0.48
35:DA:2689:U:H4'	35:DA:2690:C:H6	1.77	0.48
45:DO:104:ARG:NH1	50:DT:35:LYS:HB3	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DO:93:PRO:C	45:DO:95:GLY:N	2.67	0.48
10:CJ:56:HIS:O	10:CJ:58:ASP:O	2.32	0.48
35:BA:1902:C:H2'	35:BA:1903:G:O4'	2.13	0.48
38:BD:25:THR:HG21	38:BD:82:ILE:H	1.72	0.48
38:BD:27:THR:O	38:BD:29:PRO:HD2	2.12	0.48
34:B8:30:ARG:HG2	35:BA:2393:A:H5''	1.95	0.48
47:DQ:118:LEU:O	47:DQ:121:ALA:N	2.47	0.48
50:BT:80:SER:CB	50:BT:81:PRO:HD2	2.35	0.48
47:BQ:141:GLN:NE2	56:BZ:89:PHE:HB3	2.28	0.48
39:BE:199:ARG:NH1	39:BE:199:ARG:HG3	2.28	0.48
35:BA:538:G:N3	35:BA:538:G:H2'	2.29	0.48
35:BA:998:C:H42	35:BA:1157:G:H1	1.60	0.48
44:BN:38:HIS:CG	44:BN:39:ARG:H	2.31	0.48
44:BN:43:THR:O	44:BN:46:VAL:HG12	2.14	0.48
54:BX:84:ALA:O	54:BX:86:GLY:N	2.47	0.48
27:B1:87:PRO:HD2	27:B1:89:GLU:OE1	2.13	0.48
41:BG:91:ARG:HD2	41:BG:92:VAL:N	2.27	0.48
28:D2:14:ARG:HE	28:D2:14:ARG:CA	2.27	0.48
54:DX:47:PHE:N	54:DX:47:PHE:CD1	2.81	0.48
42:BH:123:PHE:HA	42:BH:133:VAL:CG2	2.36	0.48
56:DZ:30:ASN:C	56:DZ:32:HIS:N	2.65	0.48
56:DZ:3:TYR:N	56:DZ:56:VAL:O	2.46	0.48
35:DA:998:C:N4	35:DA:1158:C:H42	2.12	0.48
19:CS:36:ARG:CZ	19:CS:75:ALA:HB3	2.44	0.48
32:D6:51:GLU:CG	32:D6:52:VAL:H	2.00	0.48
47:BQ:118:LEU:O	47:BQ:121:ALA:N	2.46	0.48
35:BA:1024:G:P	35:BA:1025:G:H3'	2.53	0.48
40:BF:114:VAL:CG1	40:BF:202:PHE:HE2	2.25	0.48
40:BF:125:LEU:HD12	40:BF:196:LEU:HD22	1.95	0.48
40:BF:28:ILE:CD1	40:BF:28:ILE:H	2.26	0.48
27:D1:15:ALA:O	27:D1:46:LEU:CD2	2.61	0.48
27:D1:93:GLU:N	27:D1:93:GLU:OE2	2.47	0.48
34:B8:56:GLU:HA	34:B8:59:LYS:HZ1	1.78	0.48
40:BF:63:LYS:HZ3	40:BF:67:GLN:HB3	1.75	0.48
46:BP:41:ARG:CD	46:BP:41:ARG:N	2.76	0.48
48:DR:117:VAL:O	48:DR:118:GLU:HB2	2.13	0.48
1:AA:332:G:H2'	1:AA:333:G:C8	2.43	0.48
35:BA:2692:C:N4	35:BA:2718:G:N1	2.62	0.48
48:BR:18:LEU:HD13	48:BR:18:LEU:C	2.33	0.48
48:BR:39:PRO:O	48:BR:40:LYS:C	2.52	0.48
48:BR:53:HIS:O	48:BR:56:LYS:CB	2.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BT:96:ARG:HB3	50:BT:96:ARG:CZ	2.42	0.48
36:DB:115:G:H2'	36:DB:116:G:H8	1.78	0.48
35:DA:2378:A:O2'	49:DS:22:GLY:HA3	2.12	0.48
49:DS:79:ALA:C	49:DS:80:LEU:HD12	2.33	0.48
49:DS:89:ARG:HB3	49:DS:97:ARG:HH22	1.79	0.48
2:CB:80:ILE:HG12	2:CB:211:ILE:CG2	2.43	0.48
2:AB:42:ILE:CD1	2:AB:203:GLY:H	2.24	0.48
15:CO:56:LEU:HA	15:CO:59:MET:CE	2.43	0.48
35:DA:1260:G:H2'	35:DA:1261:C:C6	2.49	0.48
35:DA:802:A:N3	35:DA:802:A:H2'	2.28	0.48
1:AA:438:G:H4'	4:AD:123:HIS:ND1	2.29	0.48
1:AA:1234:C:C4'	1:AA:1364:U:H1'	2.43	0.48
4:AD:13:ARG:CG	4:AD:14:ARG:N	2.75	0.48
4:AD:15:GLU:CD	4:AD:15:GLU:H	2.17	0.48
35:DA:869:G:H2'	35:DA:870:A:C8	2.48	0.48
47:DQ:41:TRP:HB3	47:DQ:94:VAL:HG21	1.95	0.48
35:DA:869:G:O2'	47:DQ:8:LYS:HD3	2.13	0.48
35:DA:2736:G:O2'	35:DA:2737:G:H5'	2.13	0.48
2:AB:95:GLN:HB3	2:AB:148:TYR:HD1	1.78	0.48
25:CY:135:GLU:O	25:CY:138:ASP:HB2	2.13	0.48
25:CY:139:LYS:O	25:CY:140:LEU:C	2.51	0.48
25:CY:163:LYS:O	25:CY:164:ILE:C	2.52	0.48
25:CY:30:THR:HB	25:CY:182:GLU:OE2	2.14	0.48
7:CG:102:ARG:O	7:CG:103:TRP:C	2.50	0.48
12:AL:58:VAL:O	12:AL:60:LEU:HD22	2.14	0.48
7:AG:146:GLU:CA	7:AG:149:ARG:HB2	2.44	0.48
7:AG:149:ARG:HD3	11:AK:59:TYR:CZ	2.48	0.48
1:AA:640:A:H4'	8:AH:116:LYS:HZ1	1.79	0.48
25:CY:80:GLU:HG3	25:CY:94:ASN:OD1	2.14	0.48
1:CA:1348:U:H2'	1:CA:1349:A:C8	2.49	0.48
8:CH:65:TYR:HA	8:CH:79:VAL:HG23	1.95	0.48
1:AA:1349:A:O2'	1:AA:1350:A:H5'	2.13	0.48
31:B5:32:PRO:O	31:B5:33:CYS:CB	2.61	0.48
1:AA:1166:G:H2'	1:AA:1169:A:OP2	2.14	0.48
33:D7:41:ARG:O	33:D7:42:LEU:C	2.52	0.48
38:BD:118:VAL:HG22	38:BD:119:ALA:H	1.77	0.48
35:BA:2175:C:C3'	35:BA:2176:A:H5''	2.43	0.48
35:BA:2306:C:H5'	35:BA:2307:G:O5'	2.13	0.48
35:BA:2831:G:O4'	35:BA:2883:A:C2	2.66	0.48
35:DA:444:C:O2'	35:DA:445:C:H5'	2.13	0.48
1:CA:389:A:H2'	1:CA:390:C:C5'	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:41:ARG:CG	12:AL:42:THR:H	2.26	0.48
32:D6:47:THR:HG22	32:D6:49:HIS:H	1.77	0.48
35:DA:1367:A:H3'	35:DA:1368:G:O4'	2.13	0.48
38:BD:113:VAL:C	38:BD:115:GLN:H	2.15	0.48
35:DA:469:G:O2'	35:DA:470:A:H5''	2.14	0.48
3:AC:178:LEU:N	3:AC:178:LEU:HD22	2.29	0.48
35:DA:745:G:C2'	35:DA:746:A:H5'	2.44	0.48
1:AA:893:C:H2'	1:AA:894:G:H8	1.75	0.48
11:CK:122:LYS:O	11:CK:126:ARG:HB3	2.14	0.48
1:AA:66:G:C4'	1:AA:173:U:C5	2.94	0.48
1:AA:1238:A:H62	1:AA:1301:U:H3	1.62	0.48
7:AG:47:CYS:HB3	7:AG:58:PRO:CG	2.44	0.48
1:AA:666:G:H1'	1:AA:741:G:H22	1.79	0.48
2:CB:95:GLN:HB3	2:CB:148:TYR:HD1	1.77	0.48
35:DA:917:A:H2'	35:DA:918:A:O4'	2.13	0.48
31:D5:19:ARG:HG3	35:DA:2046:G:H5'	1.95	0.48
6:AF:16:GLN:O	6:AF:19:LEU:N	2.47	0.48
35:DA:2642:G:N2	35:DA:2773:C:C2	2.81	0.48
53:BW:12:ILE:HD12	53:BW:42:ARG:HH11	1.78	0.48
35:DA:481:G:C2'	35:DA:482:A:OP2	2.61	0.48
44:BN:128:HIS:C	44:BN:130:HIS:HD1	2.17	0.48
17:AQ:11:VAL:CA	17:AQ:53:LEU:HD11	2.43	0.48
1:CA:1289:A:H3'	1:CA:1290:G:H8	1.79	0.48
35:DA:2505:G:H2'	35:DA:2576:G:C6	2.49	0.48
1:AA:1152:A:H2'	1:AA:1153:C:C6	2.47	0.48
35:DA:1196:C:H2'	35:DA:1197:G:H8	1.78	0.48
35:BA:314:A:O2'	35:BA:315:G:H5'	2.13	0.48
1:CA:1163:C:N3	1:CA:1174:G:N2	2.61	0.48
1:AA:473:G:H2'	1:AA:474:G:C8	2.47	0.48
37:BC:83:ILE:O	37:BC:83:ILE:HG22	2.14	0.48
35:BA:2460:U:H2'	35:BA:2461:C:O4'	2.13	0.48
35:DA:1305:C:O2'	35:DA:1306:C:H5'	2.14	0.48
35:DA:951:C:O2'	35:DA:952:G:H5'	2.12	0.48
47:BQ:42:ILE:HD12	47:BQ:42:ILE:N	2.28	0.48
35:BA:1500:G:C6	35:BA:1501:C:N3	2.82	0.48
35:DA:1543:C:O2	35:DA:1543:C:C2'	2.60	0.48
35:DA:733:G:O5'	35:DA:733:G:H8	1.96	0.48
1:AA:615:C:H2'	1:AA:616:G:O4'	2.12	0.48
39:DE:8:LYS:HD2	39:DE:189:PRO:O	2.14	0.48
30:D4:14:ILE:CB	41:DG:5:VAL:HG22	2.44	0.48
35:BA:1566:A:C4	38:BD:214:TRP:CE3	3.02	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:778:G:H4'	38:BD:48:ARG:HD2	1.96	0.48
41:DG:49:ASP:O	41:DG:50:ALA:CB	2.62	0.48
34:B8:29:LYS:NZ	34:B8:44:LYS:CB	2.77	0.48
45:BO:104:ARG:O	45:BO:107:ARG:N	2.42	0.48
45:BO:11:ALA:HB2	45:BO:64:ARG:NH2	2.28	0.48
35:DA:2052:G:H4'	39:DE:143:ASN:O	2.14	0.48
39:BE:31:CYS:HB3	39:BE:49:LEU:HB3	1.95	0.48
42:DH:125:VAL:HG12	42:DH:127:GLU:O	2.14	0.48
42:DH:89:ILE:HG12	42:DH:90:LYS:N	2.28	0.48
54:BX:83:VAL:C	54:BX:85:PRO:CD	2.82	0.48
27:B1:47:GLN:O	27:B1:64:ALA:HB2	2.14	0.48
41:BG:105:LYS:HE2	41:BG:143:GLU:OE2	2.14	0.48
41:BG:19:LEU:HD21	41:BG:175:LEU:HD11	1.94	0.48
41:BG:73:ALA:O	41:BG:85:GLY:HA2	2.13	0.48
35:DA:1598:C:H5'	54:DX:37:THR:HB	1.96	0.48
35:BA:2639:A:C2'	35:BA:2640:G:C5'	2.85	0.48
51:DU:108:GLU:HA	51:DU:111:GLU:HG2	1.95	0.48
3:CC:182:ILE:HG12	3:CC:203:PHE:HD1	1.79	0.48
19:CS:36:ARG:HH12	19:CS:75:ALA:CB	2.24	0.48
43:DI:91:SER:H	43:DI:121:LYS:HE3	1.77	0.48
1:CA:1057:G:H5''	3:CC:154:SER:HG	1.77	0.48
40:BF:39:TRP:CE3	40:BF:40:GLN:HG2	2.48	0.48
34:D8:39:LYS:HZ2	34:D8:40:GLU:HA	1.78	0.48
34:D8:39:LYS:O	34:D8:42:ARG:HB3	2.13	0.48
44:DN:67:LEU:HD22	44:DN:88:GLU:HG2	1.96	0.48
35:BA:514:A:H2'	35:BA:515:A:H8	1.77	0.48
35:BA:674:G:H2'	35:BA:804:A:H61	1.77	0.48
46:BP:38:GLN:O	46:BP:39:LYS:HB2	2.13	0.48
47:BQ:87:LYS:O	47:BQ:87:LYS:CG	2.52	0.48
48:DR:52:ILE:HD12	48:DR:79:LEU:HD21	1.94	0.48
48:BR:63:ARG:C	48:BR:67:LEU:HD23	2.34	0.48
50:BT:109:GLU:HA	50:BT:112:ARG:HD2	1.95	0.48
49:DS:28:VAL:N	49:DS:89:ARG:HG2	2.29	0.48
35:DA:2239:G:C5	35:DA:2240:C:C5	3.02	0.48
35:DA:8:A:H2	35:DA:2896:C:O2	1.97	0.48
6:CF:68:PRO:HG3	6:CF:71:ARG:HE	1.79	0.48
15:CO:85:LEU:HD12	15:CO:87:ILE:HD11	1.94	0.48
34:D8:61:LEU:O	34:D8:64:TYR:HD1	1.95	0.48
35:DA:576:U:H2'	35:DA:577:G:C8	2.49	0.48
35:DA:833:U:P	46:DP:45:LEU:HD11	2.54	0.48
4:AD:68:TYR:CZ	4:AD:97:LEU:HD22	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:16:LEU:O	19:AS:20:LEU:N	2.44	0.48
35:DA:105:C:C5'	35:DA:106:C:OP2	2.61	0.48
1:AA:880:C:H2'	1:AA:881:G:H8	1.77	0.48
4:AD:13:ARG:O	4:AD:15:GLU:N	2.47	0.48
43:DI:111:PRO:HA	43:DI:114:LEU:HD11	1.94	0.48
35:DA:911:A:H5''	35:DA:912:C:H5''	1.96	0.48
6:AF:67:MET:HE2	6:AF:72:VAL:H	1.78	0.48
35:BA:2481:G:HO2'	35:BA:2482:G:P	2.35	0.48
1:CA:1323:G:H2'	1:CA:1324:A:C8	2.48	0.48
12:CL:25:PRO:O	12:CL:27:LEU:HD22	2.14	0.48
1:CA:1306:A:H2'	1:CA:1307:U:O4'	2.12	0.48
7:CG:92:SER:OG	7:CG:93:PRO:HD2	2.13	0.48
1:CA:599:C:H2'	1:CA:600:C:C6	2.47	0.48
35:BA:111:A:O2'	35:BA:112:U:H5'	2.13	0.48
13:AM:91:ARG:O	13:AM:96:LEU:N	2.47	0.48
35:DA:261:G:C1'	35:DA:609:A:H2	2.27	0.48
35:DA:1246:A:P	46:DP:16:ARG:HH12	2.36	0.48
2:CB:145:LEU:HD22	2:CB:149:LEU:HD12	1.94	0.48
3:CC:173:VAL:N	3:CC:174:PRO:CD	2.77	0.48
1:AA:1507:A:H2	1:AA:1530:G:C1'	2.24	0.48
5:CE:71:LEU:HD11	5:CE:114:GLY:C	2.33	0.48
1:AA:1343:G:H4'	9:AI:122:ALA:O	2.13	0.48
33:D7:16:HIS:ND1	35:DA:465:G:H4'	2.29	0.48
33:D7:24:THR:CG2	33:D7:27:GLY:HA3	2.35	0.48
11:CK:34:ASP:HB2	11:CK:35:PRO:CD	2.43	0.48
35:BA:494:G:O2'	35:BA:495:G:H5'	2.13	0.48
35:DA:1927:A:C6	35:DA:1928:A:C6	3.02	0.48
35:DA:271(V):G:C2	35:DA:271(W):G:H1'	2.48	0.48
1:CA:1054:C:P	1:CA:1197:G:OP2	2.71	0.48
3:AC:84:ILE:HA	3:AC:87:LEU:HB2	1.96	0.48
31:B5:3:LYS:HB2	35:BA:747:U:C5	2.48	0.48
35:DA:460:A:C6	35:DA:470:A:C8	3.01	0.48
1:CA:1279:A:H2'	1:CA:1279:A:N3	2.28	0.48
13:CM:3:ARG:HG2	13:CM:9:ILE:HD11	1.94	0.48
4:CD:3:ARG:HD3	4:CD:3:ARG:O	2.13	0.48
41:DG:4:ASP:HB3	41:DG:8:LYS:HE3	1.94	0.48
35:BA:1006:C:H2'	35:BA:1007:C:H6	1.77	0.48
35:DA:154:G:H1	35:DA:172:C:N4	2.09	0.48
29:B3:59:VAL:CG1	29:B3:60:GLU:N	2.71	0.48
1:AA:439:A:C4	1:AA:496:A:C2	3.01	0.48
41:BG:34:LEU:HD12	41:BG:100:TRP:CZ3	2.48	0.48

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1499:A:H2'	1:AA:1500:A:H5'	1.94	0.48
1:AA:919:A:C2'	1:AA:920:U:O5'	2.62	0.48
43:DI:2:LYS:O	43:DI:3:VAL:HG13	2.14	0.48
35:BA:2472:G:C5'	35:BA:2473:U:H5''	2.42	0.48
56:DZ:76:LEU:N	56:DZ:76:LEU:HD23	2.26	0.48
12:AL:54:LYS:CD	12:AL:54:LYS:N	2.74	0.48
42:BH:13:LYS:C	42:BH:15:VAL:N	2.65	0.48
16:AP:8:ARG:NH1	16:AP:8:ARG:HG2	2.25	0.48
1:AA:1349:A:OP1	9:AI:120:ARG:HB3	2.13	0.48
9:CI:87:GLN:C	9:CI:89:ASN:H	2.17	0.48
35:DA:365:C:H5'	35:DA:365:C:H6	1.78	0.48
35:BA:1497:U:H3	35:BA:1578:U:P	2.37	0.48
17:CQ:47:PRO:HG2	17:CQ:48:GLU:CD	2.34	0.48
17:CQ:70:ARG:C	17:CQ:71:PHE:HD2	2.16	0.48
1:AA:389:A:H2'	1:AA:390:C:C5'	2.43	0.48
35:BA:2189:U:H2'	35:BA:2190:G:O4'	2.14	0.48
35:BA:1233:C:C2'	35:BA:1234:U:H5'	2.43	0.48
26:B0:43:THR:N	35:BA:2331:G:H4'	2.29	0.48
29:D3:11:SER:OG	29:D3:12:PRO:HD2	2.13	0.48
13:CM:49:THR:HG22	13:CM:50:GLU:N	2.29	0.48
1:AA:336:C:H2'	1:AA:337:C:H6	1.79	0.48
2:AB:39:ILE:HG22	2:AB:40:HIS:N	2.28	0.48
35:BA:2194:G:H5'	35:BA:2195:C:OP2	2.13	0.48
43:DI:48:GLU:O	43:DI:51:ILE:HB	2.12	0.48
35:BA:2102:U:H2'	35:BA:2103:C:C5	2.48	0.48
35:DA:1465:G:H5'	35:DA:1528:A:H8	1.79	0.48
43:BI:45:LYS:O	43:BI:48:GLU:HB3	2.13	0.48
35:DA:360:G:H2'	35:DA:361:G:C8	2.49	0.48
35:BA:2006:C:H2'	35:BA:2007:C:C6	2.48	0.48
35:DA:1390:U:H6	35:DA:1390:U:OP2	1.97	0.48
35:DA:795:C:H2'	35:DA:796:C:H6	1.78	0.48
7:CG:22:LEU:HD12	7:CG:22:LEU:O	2.13	0.48
23:CW:8:U:O2	23:CW:8:U:H2'	2.14	0.48
35:DA:2881:C:H2'	35:DA:2882:A:C8	2.43	0.48
35:BA:1516:C:H2'	35:BA:1517:G:C8	2.47	0.48
23:CW:43:G:C2'	23:CW:44:A:H5''	2.44	0.48
2:CB:135:GLN:O	2:CB:139:LYS:HB2	2.14	0.48
11:CK:86:GLY:N	11:CK:112:THR:OG1	2.47	0.48
35:BA:1127:A:H2'	35:BA:1128:A:H5''	1.94	0.48
35:DA:2650:U:H2'	35:DA:2651:C:C6	2.49	0.48
1:AA:652:U:H2'	1:AA:752:G:N1	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:67:U:H2'	35:DA:68:G:C8	2.48	0.48
35:BA:2550:G:H2'	35:BA:2551:C:H6	1.79	0.48
23:CW:39:A:C2'	23:CW:40:C:H5'	2.44	0.48
1:AA:1237:C:H4'	1:AA:1334:G:N2	2.28	0.48
3:CC:40:ARG:HH11	3:CC:40:ARG:HG3	1.77	0.48
47:BQ:77:LYS:C	47:BQ:79:LEU:H	2.17	0.48
1:CA:1235:U:H5'	21:CU:14:TRP:CZ2	2.48	0.48
35:BA:2791:C:H6	35:BA:2793:G:O6	1.97	0.48
35:BA:2359:C:H6	35:BA:2359:C:O5'	1.97	0.48
4:AD:42:GLN:C	4:AD:42:GLN:OE1	2.52	0.48
36:DB:4:C:H2'	36:DB:5:C:O4'	2.13	0.48
37:BC:67:GLY:O	37:BC:69:GLY:N	2.46	0.48
29:D3:28:LEU:HA	29:D3:33:GLN:OE1	2.12	0.48
43:BI:20:ASP:O	43:BI:21:VAL:HG13	2.14	0.48
35:DA:2681:C:C4	35:DA:2724:C:C5	3.02	0.48
35:DA:2730:C:H2'	35:DA:2731:G:H8	1.78	0.48
45:DO:85:VAL:HG12	45:DO:86:ILE:N	2.28	0.48
50:DT:100:TYR:CD1	50:DT:100:TYR:N	2.81	0.48
14:CN:36:PHE:CD1	14:CN:36:PHE:O	2.66	0.48
38:BD:209:ALA:O	38:BD:210:GLY:O	2.31	0.48
35:DA:782:A:P	35:DA:782:A:H8	2.36	0.48
34:B8:25:MET:HB2	46:BP:62:LEU:CD1	2.42	0.48
47:DQ:20:ALA:CB	47:DQ:99:PRO:HG2	2.36	0.48
45:BO:98:VAL:HG22	45:BO:99:PHE:N	2.29	0.48
47:BQ:134:ARG:C	47:BQ:136:ALA:H	2.17	0.48
56:BZ:6:LYS:HG3	56:BZ:62:PRO:HG3	1.96	0.48
56:BZ:79:ARG:O	56:BZ:80:ARG:HB2	2.14	0.48
39:DE:120:TRP:O	39:DE:122:PHE:N	2.46	0.48
39:BE:44:TYR:CD1	39:BE:44:TYR:N	2.82	0.48
51:BU:98:LEU:C	51:BU:100:VAL:N	2.67	0.48
51:BU:110:VAL:O	51:BU:113:ALA:HB3	2.14	0.48
51:BU:87:GLY:O	51:BU:88:ILE:HG23	2.14	0.48
42:DH:153:LYS:O	42:DH:161:GLY:HA3	2.13	0.48
1:AA:971:G:C4'	1:AA:972:C:H5''	2.42	0.48
39:DE:105:THR:HB	39:DE:197:ILE:HG12	1.96	0.48
41:BG:43:LEU:CD2	41:BG:43:LEU:N	2.77	0.48
41:BG:86:MET:N	41:BG:87:PRO:CD	2.77	0.48
34:B8:10:ALA:C	34:B8:12:LYS:H	2.17	0.48
28:D2:29:LYS:HA	28:D2:32:LEU:CD2	2.37	0.48
35:DA:90:U:O2'	35:DA:92:A:H5''	2.13	0.48
54:DX:58:HIS:C	54:DX:59:VAL:HG22	2.34	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:DX:72:LYS:HE3	54:DX:74:PRO:CB	2.28	0.48
42:BH:153:LYS:O	42:BH:161:GLY:HA3	2.14	0.48
56:DZ:125:LEU:O	56:DZ:165:VAL:HG23	2.14	0.48
44:DN:36:GLY:HA3	44:DN:48:MET:CE	2.43	0.48
52:DV:4:ILE:CG1	52:DV:40:LEU:HD11	2.43	0.48
39:BE:117:MET:HE3	39:BE:124:GLY:HA3	1.95	0.48
27:D1:88:LYS:O	27:D1:92:LYS:HB2	2.13	0.48
27:D1:93:GLU:N	27:D1:93:GLU:CD	2.67	0.48
51:BU:7:GLY:O	51:BU:8:VAL:CG2	2.62	0.48
52:BV:71:LEU:CD1	52:BV:72:VAL:H	2.18	0.48
1:AA:327:A:C4	1:AA:329:A:C8	3.02	0.48
35:BA:2718:G:O2'	35:BA:2719:G:H5'	2.14	0.48
48:BR:26:LYS:HE2	48:BR:71:GLN:N	2.28	0.48
49:DS:87:PHE:CZ	49:DS:97:ARG:NH2	2.82	0.48
1:CA:833:U:H2'	1:CA:834:C:C5	2.49	0.48
2:CB:36:ARG:O	2:CB:37:ASN:C	2.52	0.48
35:DA:669:G:N2	35:DA:670:A:C4	2.82	0.48
35:DA:1203:G:O6	35:DA:1204:A:N6	2.47	0.48
1:AA:408:A:C6	1:AA:409:G:C5	3.02	0.48
35:DA:957:A:H5'	47:DQ:76:LYS:HG3	1.96	0.48
6:AF:40:VAL:HG23	6:AF:62:TRP:O	2.14	0.48
18:AR:66:LEU:HG	18:AR:70:ILE:HD11	1.96	0.48
47:BQ:48:GLU:O	47:BQ:52:VAL:HG12	2.13	0.48
47:BQ:58:PHE:O	47:BQ:59:ARG:C	2.52	0.48
1:AA:940:C:H2'	1:AA:941:G:C8	2.48	0.48
25:CY:10:THR:C	25:CY:12:SER:H	2.17	0.48
13:CM:84:ILE:HB	19:CS:66:MET:HE1	1.96	0.48
21:AU:12:LYS:HG2	21:AU:22:ARG:HB2	1.96	0.48
35:BA:745:G:C2'	35:BA:746:A:H5'	2.43	0.48
25:AY:14:MET:HA	25:AY:132:ILE:CD1	2.44	0.48
2:CB:175:ARG:O	2:CB:177:ALA:N	2.46	0.48
8:AH:27:PRO:HG3	8:AH:58:TYR:CE2	2.48	0.48
8:AH:4:ASP:OD1	8:AH:6:ILE:HB	2.14	0.48
35:BA:2475:C:N4	35:BA:2529:G:H22	1.96	0.48
31:D5:31:VAL:CB	31:D5:32:PRO:HD2	2.34	0.48
1:AA:625:G:H4'	16:AP:16:HIS:CD2	2.49	0.48
38:BD:117:VAL:HG21	38:BD:128:GLY:C	2.34	0.48
40:BF:12:LEU:O	40:BF:14:PRO:HD3	2.14	0.48
1:CA:1487:G:O2'	1:CA:1488:G:H5'	2.13	0.48
35:DA:2208:A:H1'	35:DA:2219:G:C5	2.49	0.48
1:CA:112:G:C2'	1:CA:113:G:H5'	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:B1:28:GLY:C	27:B1:30:VAL:N	2.52	0.48
40:DF:9:ILE:HG12	40:DF:14:PRO:CA	2.43	0.48
3:AC:156:ARG:O	3:AC:158:GLY:N	2.47	0.48
35:BA:444:C:O5'	51:BU:2:PRO:HD3	2.12	0.48
20:CT:22:ARG:O	20:CT:23:ARG:C	2.51	0.48
1:AA:836:G:C6	1:AA:851:G:C6	3.01	0.48
53:DW:20:VAL:O	53:DW:23:LEU:N	2.46	0.48
16:CP:82:GLN:O	16:CP:84:ALA:N	2.47	0.48
4:AD:3:ARG:O	4:AD:4:TYR:C	2.52	0.48
33:B7:11:LYS:HE2	35:BA:686:G:H5'	1.96	0.48
35:BA:860:U:O4'	35:BA:860:U:O2	2.30	0.48
36:BB:79:C:C2'	36:BB:80:U:H5'	2.43	0.48
1:AA:730:G:C5	1:AA:731:G:H1'	2.49	0.48
13:CM:37:THR:O	13:CM:39:ILE:HG13	2.13	0.48
13:AM:11:ARG:O	13:AM:13:LYS:HG3	2.14	0.48
43:BI:54:GLN:OE1	43:BI:54:GLN:C	2.52	0.48
15:AO:62:GLN:O	15:AO:63:ARG:C	2.51	0.48
15:AO:77:ARG:O	15:AO:80:ALA:HB3	2.14	0.48
35:BA:1361:G:O2'	35:BA:1362:C:H5'	2.13	0.48
2:CB:19:HIS:O	2:CB:20:GLU:O	2.32	0.48
2:CB:39:ILE:HG22	2:CB:40:HIS:N	2.29	0.48
35:DA:431:U:H6	35:DA:431:U:O5'	1.96	0.48
35:DA:1812:A:C1'	38:DD:46:GLN:HE22	2.27	0.48
35:DA:862:G:H2'	35:DA:863:A:O4'	2.12	0.48
35:DA:862:G:H3'	35:DA:863:A:H8	1.79	0.48
35:BA:2464:C:O2'	35:BA:2465:C:P	2.72	0.48
36:BB:64:C:H2'	36:BB:65:C:H6	1.77	0.48
1:AA:156:G:C2	1:AA:166:G:N1	2.81	0.48
7:CG:148:ASN:N	7:CG:148:ASN:HD22	2.11	0.48
45:DO:13:ASN:HD21	45:DO:96:THR:N	2.11	0.48
53:DW:65:LEU:HD23	53:DW:65:LEU:C	2.34	0.48
23:AW:53:G:N2	23:AW:64:G:H1	2.11	0.48
35:DA:1324:G:H3'	35:DA:1325:G:C4'	2.43	0.48
23:CW:43:G:H2'	23:CW:44:A:C4'	2.44	0.48
1:AA:764:C:C2'	1:AA:765:G:H8	2.27	0.48
51:BU:29:SER:O	51:BU:30:LYS:NZ	2.41	0.48
35:DA:1515:G:O2'	35:DA:1516:C:H5'	2.14	0.48
1:CA:359:U:H2'	1:CA:360:A:H8	1.79	0.48
35:BA:271(H):G:HO2'	35:BA:271(I):G:H8	1.62	0.48
29:D3:48:GLU:O	29:D3:51:ALA:HB2	2.14	0.48
1:AA:746:A:H2'	1:AA:747:C:C6	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1015:A:H2'	1:CA:1016:A:C8	2.48	0.48
1:AA:1133:G:H2'	1:AA:1134:G:C8	2.49	0.48
56:DZ:137:ILE:HD12	56:DZ:157:LEU:HA	1.95	0.48
37:BC:64:LEU:CD1	37:BC:66:HIS:HB2	2.43	0.48
3:AC:40:ARG:HB3	3:AC:44:GLU:OE2	2.14	0.48
35:DA:830:G:N3	35:DA:2448:A:N6	2.62	0.48
1:AA:1383:C:O2'	1:AA:1384:C:H5'	2.13	0.48
1:CA:372:C:H4'	1:CA:373:A:OP1	2.13	0.48
35:BA:2253:G:C6	35:BA:2254:C:N3	2.82	0.48
9:CI:85:LEU:HD12	9:CI:85:LEU:C	2.33	0.48
39:BE:19:ARG:HG3	39:BE:19:ARG:O	2.13	0.48
35:DA:2759:G:H5'	35:DA:2759:G:H8	1.79	0.48
35:DA:2845:G:H5''	50:DT:55:ASN:HA	1.96	0.48
35:DA:2846:G:H2'	35:DA:2847:U:H6	1.79	0.48
45:DO:2:ILE:CD1	45:DO:6:THR:HG21	2.43	0.48
50:DT:52:ILE:CG2	50:DT:61:PHE:HB2	2.42	0.48
1:CA:961:U:OP2	1:CA:1223:C:H4'	2.14	0.48
35:BA:1803:A:H4'	38:BD:259:THR:CG2	2.44	0.48
35:BA:778:G:C5	35:BA:779:U:C4	3.02	0.48
45:BO:61:VAL:CG1	45:BO:85:VAL:HB	2.43	0.48
50:BT:53:ARG:NH1	50:BT:53:ARG:CG	2.75	0.48
50:BT:62:THR:CG2	50:BT:75:ILE:HG13	2.42	0.48
16:AP:32:TYR:CE2	16:AP:35:LYS:HB2	2.49	0.48
39:BE:52:LEU:HB3	39:BE:76:ARG:H	1.77	0.48
51:BU:113:ALA:O	51:BU:116:ALA:HB3	2.14	0.48
34:D8:10:ALA:C	34:D8:12:LYS:H	2.17	0.48
28:B2:46:GLN:HE21	28:B2:47:ASN:CA	2.26	0.48
54:BX:31:HIS:HD2	54:BX:33:LYS:O	1.97	0.48
54:BX:33:LYS:O	54:BX:34:ALA:C	2.52	0.48
27:B1:10:LYS:HB2	27:B1:14:VAL:N	2.29	0.48
41:BG:170:ARG:HH22	41:BG:182:LYS:HZ1	1.61	0.48
41:BG:3:LEU:O	41:BG:8:LYS:HE2	2.14	0.48
41:BG:77:ILE:CD1	41:BG:81:LYS:O	2.62	0.48
35:DA:143:G:C4'	54:DX:38:GLU:HG3	2.44	0.48
54:DX:83:VAL:O	54:DX:83:VAL:HG23	2.13	0.48
41:BG:29:TRP:C	41:BG:31:VAL:N	2.66	0.48
42:BH:102:ALA:HB2	42:BH:116:GLU:HA	1.96	0.48
56:DZ:150:LEU:HD23	56:DZ:171:ILE:CG1	2.44	0.48
51:DU:98:LEU:O	51:DU:101:ARG:O	2.32	0.48
51:DU:59:ARG:C	51:DU:61:TRP:N	2.66	0.48
51:DU:78:THR:C	51:DU:80:ILE:N	2.66	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DO:112:MET:O	45:DO:113:LYS:C	2.51	0.48
49:BS:83:LYS:HA	49:BS:104:GLY:CA	2.40	0.48
4:CD:121:VAL:HA	4:CD:126:ILE:HD12	1.96	0.48
44:BN:67:LEU:HD22	44:BN:88:GLU:HG2	1.96	0.48
44:BN:70:LYS:HG3	44:BN:72:TYR:HE1	1.78	0.48
40:BF:125:LEU:HD11	40:BF:199:TRP:CG	2.48	0.48
46:DP:62:LEU:CD1	46:DP:62:LEU:N	2.64	0.48
44:DN:64:GLY:O	44:DN:65:LYS:HE3	2.13	0.48
46:BP:47:ASP:HB2	46:BP:51:PHE:HD2	1.78	0.48
40:DF:6:VAL:CG2	40:DF:124:LEU:HA	2.41	0.48
40:DF:186:ILE:HG23	40:DF:192:LEU:HD12	1.95	0.48
40:DF:202:PHE:CE1	40:DF:206:ILE:HD13	2.45	0.48
48:DR:118:GLU:HA	48:DR:118:GLU:OE1	2.12	0.48
49:DS:92:TYR:C	49:DS:92:TYR:CD1	2.87	0.48
2:AB:191:ASP:OD1	2:AB:192:SER:N	2.47	0.48
56:BZ:149:SER:CB	56:BZ:172:ALA:O	2.62	0.48
4:AD:196:LEU:HB3	4:AD:197:PRO:HD2	1.95	0.48
6:CF:12:PRO:HG3	6:CF:57:GLN:O	2.14	0.48
6:CF:19:LEU:HD23	6:CF:19:LEU:C	2.34	0.48
15:CO:37:ASN:N	15:CO:37:ASN:HD22	2.12	0.48
2:CB:187:LEU:HD23	2:CB:201:ILE:O	2.14	0.48
35:DA:810:U:C2	46:DP:31:ALA:O	2.66	0.48
52:DV:75:PHE:HB2	52:DV:87:HIS:CB	2.43	0.48
35:DA:692:C:N3	35:DA:771:G:C2	2.81	0.48
4:AD:96:LEU:O	4:AD:98:GLU:N	2.47	0.48
19:AS:16:LEU:C	19:AS:20:LEU:HG	2.32	0.48
4:AD:64:LEU:HG	4:AD:65:ARG:N	2.29	0.48
4:AD:59:ARG:NH2	4:AD:66:ARG:HH22	2.04	0.48
35:DA:958:U:OP2	47:DQ:74:TYR:HE1	1.97	0.48
35:BA:2740:A:C2'	35:BA:2741:A:C8	2.87	0.48
51:DU:33:ARG:O	51:DU:36:ARG:N	2.46	0.48
7:AG:100:ALA:O	7:AG:101:LEU:C	2.51	0.48
25:CY:144:ALA:O	25:CY:147:LEU:O	2.32	0.48
25:CY:166:ASP:O	25:CY:169:ILE:N	2.47	0.48
25:CY:171:LYS:CD	25:CY:175:LEU:HD13	2.41	0.48
1:AA:378:G:P	16:AP:3:LYS:HZ1	2.37	0.48
25:AY:16:LYS:HA	25:AY:19:GLU:CG	2.43	0.48
37:BC:35:ALA:O	37:BC:36:LYS:HE3	2.14	0.48
42:BH:43:VAL:CG1	42:BH:52:VAL:HA	2.29	0.48
44:BN:77:GLY:O	44:BN:78:TYR:CB	2.62	0.48
25:AY:149:LEU:HB3	25:AY:153:GLU:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:21:ILE:CD1	11:AK:82:VAL:HG13	2.36	0.48
11:CK:57:THR:HG23	11:CK:58:PRO:HD2	1.96	0.48
2:CB:111:ARG:O	2:CB:115:LEU:N	2.47	0.48
5:AE:126:ARG:O	5:AE:128:PRO:N	2.47	0.48
1:CA:1347:G:O2'	1:CA:1348:U:OP2	2.28	0.48
35:DA:2472:G:C5'	35:DA:2473:U:H5''	2.41	0.48
8:CH:6:ILE:HD12	8:CH:6:ILE:N	2.28	0.48
35:BA:2747:G:C2	35:BA:2754:U:C4	3.02	0.48
35:DA:778:G:C6	35:DA:779:U:N3	2.81	0.48
46:DP:106:LEU:CD1	46:DP:112:LEU:HB2	2.42	0.48
38:BD:135:PHE:CD1	38:BD:135:PHE:N	2.72	0.48
38:BD:173:VAL:CG1	38:BD:185:VAL:O	2.62	0.48
38:BD:186:HIS:CD2	38:BD:188:GLU:HG2	2.49	0.48
53:DW:96:ILE:HG13	53:DW:97:LYS:H	1.79	0.48
46:BP:126:VAL:HG22	46:BP:145:PRO:HB3	1.96	0.48
1:CA:453:A:H2'	1:CA:454:C:C6	2.49	0.48
38:DD:172:TYR:CD1	38:DD:186:HIS:CA	2.95	0.48
7:AG:112:PRO:HD2	7:AG:113:GLU:OE2	2.13	0.48
32:B6:47:THR:HG22	32:B6:49:HIS:H	1.79	0.48
3:CC:105:GLU:HG2	3:CC:106:VAL:N	2.21	0.48
5:CE:93:PRO:HA	5:CE:118:ILE:HD12	1.96	0.48
39:DE:173:VAL:O	39:DE:174:ASP:C	2.52	0.48
32:B6:28:ARG:O	32:B6:29:ASN:C	2.52	0.48
35:DA:1615:C:O2	53:DW:87:PRO:HG2	2.14	0.48
13:AM:28:ALA:C	13:AM:30:ALA:N	2.67	0.48
35:DA:1456:G:C4	35:DA:1457:A:N7	2.82	0.48
20:AT:83:ARG:CA	20:AT:86:ARG:HB3	2.42	0.48
21:AU:5:ASP:OD1	21:AU:6:ARG:N	2.47	0.48
12:CL:119:LYS:H	12:CL:119:LYS:HD2	1.78	0.48
35:DA:1467:C:H2'	35:DA:1468:C:H6	1.79	0.48
35:DA:614:U:H4'	35:DA:614(C):A:H62	1.79	0.48
40:BF:126:VAL:O	40:BF:127:GLU:HB2	2.13	0.48
56:BZ:139:VAL:O	56:BZ:141:VAL:N	2.45	0.48
1:AA:441:A:C6	1:AA:494:U:C2	3.02	0.48
53:DW:64:MET:CE	53:DW:109:GLU:HG3	2.44	0.48
29:D3:36:VAL:O	29:D3:36:VAL:HG23	2.12	0.48
23:AW:17:C:H5''	23:AW:18:U:C6	2.48	0.48
25:AY:108:GLU:HA	25:AY:111:ARG:HG2	1.95	0.48
3:CC:116:VAL:O	3:CC:119:ARG:HB3	2.14	0.48
6:AF:3:ARG:NH1	6:AF:38:GLU:OE2	2.47	0.48
9:CI:45:ALA:O	9:CI:49:PRO:HD2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:75:LEU:HA	37:BC:94:VAL:HG22	1.95	0.48
37:DC:44:HIS:HD2	37:DC:175:VAL:CA	2.27	0.48
35:BA:1015:G:N3	35:BA:1015:G:H2'	2.28	0.48
1:CA:788:U:C5	1:CA:789:U:C5	3.02	0.48
35:DA:658:C:H2'	35:DA:659:C:C6	2.49	0.48
35:BA:1686:C:H42	35:BA:1702:G:H1	1.60	0.48
35:BA:1686:C:H3'	35:BA:1687:G:H8	1.78	0.48
37:BC:50:ASP:O	37:BC:52:ARG:N	2.46	0.48
1:CA:1419:G:N2	1:CA:1482:G:H1'	2.29	0.48
53:BW:92:ARG:HG2	53:BW:92:ARG:NH1	2.29	0.48
36:DB:5:C:H2'	36:DB:6:C:H6	1.79	0.48
1:CA:719:C:H2'	1:CA:720:C:H5'	1.96	0.48
19:AS:67:VAL:HG12	19:AS:68:GLY:N	2.28	0.48
35:DA:1479:G:H2'	35:DA:1480:G:O4'	2.13	0.48
20:CT:97:ALA:O	20:CT:99:LEU:N	2.39	0.48
35:BA:2511:U:O3'	39:BE:123:ALA:HB3	2.14	0.48
35:DA:1660:C:H5'	35:DA:2712(A):A:N6	2.27	0.48
39:DE:24:THR:HB	39:DE:186:GLY:HA2	1.95	0.48
50:DT:45:PHE:HE2	50:DT:63:VAL:HG23	1.79	0.48
43:BI:119:PRO:O	43:BI:120:ILE:HB	2.14	0.48
35:BA:2729:G:H2'	35:BA:2730:C:C6	2.49	0.48
39:BE:13:ARG:HA	39:BE:22:PRO:HA	1.96	0.48
50:BT:121:ILE:CG2	50:BT:122:ASP:N	2.77	0.48
56:BZ:126:VAL:HG12	56:BZ:162:GLU:O	2.14	0.48
42:DH:78:GLY:O	42:DH:136:ILE:HG23	2.14	0.48
37:DC:51:PRO:O	37:DC:52:ARG:HB2	2.14	0.48
35:BA:2312:U:H2'	35:BA:2313:C:C5'	2.43	0.48
41:BG:106:LEU:HD12	41:BG:110:ALA:HB3	1.94	0.48
28:D2:38:GLN:C	28:D2:40:SER:N	2.67	0.48
42:BH:105:LEU:CD2	42:BH:105:LEU:N	2.74	0.48
47:DQ:26:TYR:O	47:DQ:27:VAL:C	2.51	0.48
47:DQ:28:ALA:HB3	47:DQ:105:GLU:CD	2.34	0.48
35:DA:537:C:H3'	35:DA:538:G:H8	1.78	0.48
35:DA:998:C:OP2	51:DU:93:LYS:NZ	2.47	0.48
51:DU:113:ALA:O	51:DU:116:ALA:HB3	2.13	0.48
52:DV:36:PRO:HD2	52:DV:60:GLU:O	2.13	0.48
1:CA:978:A:O2'	1:CA:1322:C:N3	2.47	0.48
19:CS:36:ARG:NH1	19:CS:36:ARG:HB3	2.29	0.48
49:BS:24:LEU:O	49:BS:86:ALA:HB3	2.13	0.48
47:BQ:101:ARG:HG3	47:BQ:101:ARG:NH1	2.29	0.48
55:BY:45:VAL:HG22	55:BY:62:GLU:CB	2.36	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:51:VAL:HB	5:CE:52:PRO:CD	2.37	0.48
27:D1:87:PRO:CD	27:D1:88:LYS:H	2.27	0.48
35:BA:1198:U:H2'	35:BA:1199:U:H6	1.79	0.48
35:BA:514:A:C2	35:BA:515:A:C4	3.02	0.48
48:BR:88:ARG:NH2	48:BR:89:ASP:OD1	2.47	0.48
49:DS:38:GLN:CD	49:DS:47:THR:HG23	2.33	0.48
2:CB:233:SER:C	2:CB:235:SER:H	2.18	0.48
2:AB:92:TYR:CE2	2:AB:151:GLY:HA3	2.49	0.48
8:AH:68:ARG:HG3	8:AH:69:ARG:N	2.24	0.48
27:D1:37:ILE:CD1	35:DA:2080:G:OP1	2.62	0.48
44:DN:26:LEU:HG	44:DN:27:ALA:N	2.27	0.48
47:BQ:119:ARG:HG2	47:BQ:120:ILE:CD1	2.41	0.48
1:CA:658:G:O2'	1:CA:659:U:H5'	2.14	0.48
15:CO:17:ARG:HG3	15:CO:17:ARG:NH1	2.24	0.48
18:CR:34:TYR:O	18:CR:35:ARG:HG2	2.14	0.48
2:CB:42:ILE:CD1	2:CB:203:GLY:H	2.27	0.48
40:DF:52:LYS:O	40:DF:88:VAL:HG12	2.14	0.48
46:DP:41:ARG:CD	46:DP:41:ARG:N	2.77	0.48
55:DY:18:GLY:C	55:DY:20:TYR:N	2.67	0.48
1:AA:1316:G:H2'	1:AA:1317:C:C5'	2.43	0.48
1:AA:542:G:H5'	4:AD:41:GLY:HA3	1.96	0.48
1:AA:673:G:H2'	1:AA:674:G:H8	1.71	0.48
1:CA:782:A:N6	1:CA:801:U:C6	2.81	0.48
35:DA:565:C:H2'	35:DA:566:U:H6	1.79	0.48
50:BT:10:VAL:O	50:BT:11:GLU:C	2.52	0.48
35:BA:1203:G:O6	35:BA:1204:A:N6	2.46	0.48
21:AU:20:LYS:HD3	21:AU:21:TYR:HE1	1.77	0.48
16:AP:25:ARG:HH11	16:AP:25:ARG:HG3	1.78	0.48
35:BA:2124:G:C2'	35:BA:2125:G:H5'	2.44	0.48
35:BA:1132:A:H2'	35:BA:1133:U:C6	2.48	0.48
35:BA:684:G:N2	35:BA:787:U:H2'	2.27	0.48
7:AG:143:ARG:CZ	23:AW:43:G:H5'	2.44	0.48
1:AA:956:U:H2'	1:AA:957:U:H6	1.79	0.48
11:CK:58:PRO:HA	11:CK:90:GLY:CA	2.43	0.48
35:DA:924:C:O2'	35:DA:925:C:H5'	2.14	0.48
9:CI:119:ALA:O	9:CI:120:ARG:HB2	2.14	0.48
8:AH:10:LEU:CD2	8:AH:10:LEU:H	2.17	0.48
9:CI:4:TYR:CE1	9:CI:21:PRO:HD3	2.48	0.48
35:DA:363(F):A:O2'	35:DA:364:C:H5	1.96	0.48
38:BD:117:VAL:CG2	38:BD:118:VAL:H	2.26	0.48
31:D5:16:ARG:HG2	31:D5:16:ARG:NH1	2.24	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:9:ILE:HG23	40:BF:14:PRO:HA	1.96	0.48
31:B5:20:ARG:HH12	53:BW:15:ARG:HH21	1.55	0.48
7:AG:122:HIS:O	7:AG:125:MET:N	2.47	0.48
35:DA:374:A:C2	35:DA:375:C:H1'	2.49	0.48
35:BA:1496:A:H8	35:BA:1577:C:HO2'	1.62	0.48
35:BA:1578:U:OP2	35:BA:1578:U:H6	1.96	0.48
4:AD:131:ARG:HD3	4:AD:131:ARG:N	2.29	0.48
38:BD:130:ALA:HB2	38:BD:192:THR:HA	1.95	0.48
35:DA:467:G:H2'	35:DA:468:G:C8	2.42	0.48
35:DA:1613:G:H3'	35:DA:1614:A:H5''	1.95	0.48
35:BA:1233:C:H2'	35:BA:1234:U:H5'	1.95	0.48
25:CY:107:THR:O	25:CY:111:ARG:HG3	2.14	0.48
35:BA:1688:U:O2	35:BA:1700:A:H8	1.97	0.48
35:DA:968:G:H2'	35:DA:969:U:C6	2.48	0.48
35:DA:970:C:H2'	35:DA:971:C:C6	2.48	0.48
28:D2:30:ARG:HH11	28:D2:30:ARG:CG	2.27	0.48
6:AF:55:ASP:OD2	6:AF:86:ARG:NH2	2.47	0.48
17:CQ:82:MET:HA	17:CQ:85:VAL:CG2	2.44	0.48
36:DB:66:A:C2	36:DB:109:C:C2	3.02	0.48
35:BA:2291:U:H2'	35:BA:2292:C:C6	2.49	0.48
31:D5:42:PRO:C	31:D5:43:HIS:HD2	2.17	0.48
53:DW:31:GLU:O	53:DW:32:ALA:C	2.53	0.48
4:CD:192:GLU:O	4:CD:194:LEU:N	2.47	0.48
1:CA:689:C:H2'	1:CA:689:C:O2	2.13	0.48
1:CA:1293:G:O2'	1:CA:1294:G:H8	1.96	0.48
35:DA:449:A:C2'	35:DA:450:G:H5'	2.43	0.48
35:DA:2880:C:H1'	48:DR:92:GLY:O	2.14	0.48
1:CA:1164:G:H2'	1:CA:1165:C:H5'	1.96	0.48
35:DA:301:G:H1'	35:DA:302:C:C6	2.49	0.48
38:BD:199:ALA:O	38:BD:201:HIS:N	2.47	0.48
35:BA:1374:G:H2'	35:BA:1375:C:H6	1.77	0.48
1:AA:124:G:C6	1:AA:125:U:C4	3.01	0.48
35:DA:1490:A:H2	38:DD:75:ILE:HD12	1.79	0.48
11:AK:48:ILE:HD13	11:AK:48:ILE:N	2.29	0.48
1:CA:1237:C:H4'	1:CA:1334:G:N2	2.29	0.48
35:DA:1891:G:C2	35:DA:1892:C:C2	3.02	0.48
17:CQ:99:SER:C	17:CQ:100:LYS:HE2	2.35	0.48
40:DF:17:ARG:HH11	40:DF:17:ARG:HG3	1.78	0.48
1:CA:81:U:H2'	1:CA:82:U:C6	2.49	0.48
52:BV:66:ARG:HB2	52:BV:95:LEU:H	1.78	0.48
1:AA:1235:U:H5'	21:AU:14:TRP:CZ2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2694:G:O2'	35:DA:2695:C:H5'	2.14	0.47
35:DA:2851:A:H2'	35:DA:2852:G:C8	2.48	0.47
43:BI:79:ILE:CB	43:BI:81:VAL:HG23	2.43	0.47
35:BA:779:U:OP1	38:BD:49:ILE:HG23	2.14	0.47
1:CA:1396:A:C4'	1:CA:1398:A:H1'	2.44	0.47
35:DA:1817:G:O2'	35:DA:1818:U:H5'	2.13	0.47
35:DA:1902:C:H2'	35:DA:1903:G:O4'	2.13	0.47
38:DD:106:ILE:HG23	38:DD:106:ILE:O	2.13	0.47
35:DA:1971:A:C4	38:DD:241:PRO:HB3	2.48	0.47
41:DG:122:PRO:O	41:DG:124:SER:N	2.47	0.47
32:B6:11:LEU:O	32:B6:24:GLU:N	2.47	0.47
45:BO:59:LYS:O	45:BO:86:ILE:HG23	2.14	0.47
50:BT:78:LEU:O	50:BT:78:LEU:HD23	2.14	0.47
56:BZ:23:LYS:O	56:BZ:41:LEU:HD21	2.14	0.47
39:BE:4:ILE:HD12	39:BE:31:CYS:SG	2.54	0.47
29:B3:32:GLN:HA	29:B3:32:GLN:OE1	2.13	0.47
51:BU:86:ALA:HB2	51:BU:116:ALA:CB	2.43	0.47
28:B2:14:ARG:H	28:B2:14:ARG:HE	1.59	0.47
35:BA:58:G:OP1	54:BX:72:LYS:HA	2.14	0.47
39:DE:179:GLU:O	39:DE:180:ASN:HB3	2.13	0.47
39:DE:79:ARG:NH1	39:DE:79:ARG:HG2	2.29	0.47
27:B1:9:GLY:O	27:B1:10:LYS:HB3	2.14	0.47
2:AB:81:VAL:HG22	2:AB:215:LEU:CG	2.44	0.47
35:DA:58:G:OP1	54:DX:72:LYS:HA	2.13	0.47
54:DX:29:TRP:HE3	54:DX:76:ARG:HB3	1.79	0.47
41:BG:25:TYR:CE2	41:BG:31:VAL:HA	2.49	0.47
56:DZ:24:LEU:HD21	56:DZ:86:VAL:CG2	2.44	0.47
51:DU:52:ARG:O	51:DU:53:ARG:C	2.53	0.47
52:DV:3:ALA:O	52:DV:13:ARG:HA	2.14	0.47
14:AN:4:LYS:HA	14:AN:7:ILE:HD11	1.96	0.47
19:CS:9:VAL:O	19:CS:10:PHE:C	2.52	0.47
32:D6:27:LYS:HE2	35:DA:2285:C:H5	1.78	0.47
49:BS:103:GLU:O	49:BS:105:ALA:N	2.46	0.47
49:BS:95:HIS:O	49:BS:98:VAL:HG23	2.14	0.47
4:CD:202:LEU:O	4:CD:205:GLU:N	2.47	0.47
4:CD:30:LYS:O	4:CD:32:ALA:N	2.47	0.47
44:BN:64:GLY:O	44:BN:65:LYS:HE3	2.13	0.47
35:BA:238:C:H2'	35:BA:239:U:H6	1.79	0.47
40:BF:34:TRP:HA	40:BF:37:VAL:HG23	1.95	0.47
27:D1:86:SER:N	27:D1:87:PRO:CD	2.75	0.47
27:D1:85:LEU:C	27:D1:87:PRO:CD	2.81	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:197:A:C8	35:BA:197:A:H5'	2.49	0.47
40:DF:125:LEU:HD11	40:DF:199:TRP:CD1	2.48	0.47
48:DR:55:ALA:HA	48:DR:80:PHE:CZ	2.48	0.47
35:DA:2708:G:H1'	48:DR:71:GLN:OE1	2.13	0.47
50:BT:108:ARG:HH11	50:BT:108:ARG:HB3	1.79	0.47
50:BT:102:ILE:HB	50:BT:110:ILE:HD11	1.95	0.47
49:DS:103:GLU:O	49:DS:105:ALA:N	2.47	0.47
43:BI:69:LYS:C	43:BI:71:ILE:H	2.18	0.47
44:DN:17:ASP:OD2	44:DN:17:ASP:O	2.32	0.47
44:BN:120:LEU:HD13	44:BN:121:LYS:N	2.29	0.47
35:DA:1260:G:H2'	35:DA:1261:C:H6	1.79	0.47
35:DA:806:C:O2'	35:DA:807:U:H5'	2.14	0.47
4:AD:101:LEU:CD2	4:AD:121:VAL:HG13	2.44	0.47
4:AD:68:TYR:CE2	4:AD:97:LEU:HD22	2.48	0.47
55:DY:2:ARG:C	55:DY:4:LYS:N	2.65	0.47
47:DQ:76:LYS:N	47:DQ:88:GLY:HA3	2.29	0.47
1:CA:1519:A:H3'	1:CA:1520:G:O4'	2.13	0.47
42:DH:19:VAL:CG1	42:DH:44:VAL:HG22	2.44	0.47
35:DA:297:C:H2'	35:DA:298:G:O4'	2.13	0.47
35:BA:1202:C:C2'	35:BA:1203:G:H5'	2.44	0.47
12:CL:32:PHE:HE1	12:CL:86:ARG:HG3	1.79	0.47
16:AP:23:ASP:OD2	16:AP:25:ARG:NH2	2.47	0.47
25:AY:65:THR:CG2	25:AY:66:LEU:N	2.77	0.47
25:AY:10:THR:HG21	25:AY:164:ILE:HG21	1.96	0.47
7:CG:105:VAL:O	7:CG:108:ALA:HB3	2.13	0.47
26:D0:17:GLN:HG2	35:DA:2261:C:P	2.54	0.47
42:DH:61:HIS:C	42:DH:63:SER:N	2.67	0.47
55:BY:68:HIS:HB3	55:BY:71:LYS:HZ3	1.79	0.47
22:AV:29:G:N1	22:AV:30:A:C5	2.82	0.47
22:AV:29:G:C2	22:AV:30:A:C8	3.02	0.47
1:AA:959:A:C2'	1:AA:960:U:H4'	2.44	0.47
1:AA:636:U:H2'	1:AA:637:G:H8	1.72	0.47
8:AH:110:ALA:HA	8:AH:136:GLU:HA	1.96	0.47
3:CC:173:VAL:O	3:CC:173:VAL:CG1	2.61	0.47
42:BH:38:SER:C	42:BH:40:GLU:H	2.18	0.47
46:DP:101:VAL:HG13	46:DP:102:ARG:N	2.21	0.47
16:CP:17:TYR:N	16:CP:17:TYR:CD1	2.82	0.47
40:BF:178:PRO:CG	40:BF:179:GLU:N	2.76	0.47
35:DA:120:U:H1'	35:DA:149:A:N7	2.28	0.47
1:CA:1422:G:H2'	1:CA:1423:G:H8	1.79	0.47
3:CC:156:ARG:O	3:CC:158:GLY:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1484:G:H3'	35:DA:1485:G:C5'	2.44	0.47
35:DA:1504:C:O2'	35:DA:1505:C:C5'	2.62	0.47
5:CE:121:LYS:HD2	5:CE:122:GLU:H	1.79	0.47
1:CA:767:A:H2'	1:CA:768:A:H8	1.79	0.47
32:D6:32:ASN:O	32:D6:33:LYS:HB2	2.14	0.47
2:CB:19:HIS:CA	2:CB:39:ILE:HD13	2.39	0.47
35:DA:1806:C:N4	35:DA:1812:A:N6	2.62	0.47
23:AW:23:G:H2'	23:AW:24:C:C5'	2.44	0.47
35:BA:1550:C:O2'	35:BA:1551:C:H5'	2.14	0.47
35:DA:1446:C:O2'	35:DA:1447:G:H5'	2.14	0.47
35:BA:184:C:O2'	35:BA:185:U:H5'	2.13	0.47
13:CM:14:ARG:HG3	13:CM:17:VAL:CG2	2.43	0.47
7:AG:27:ILE:HD12	7:AG:27:ILE:H	1.78	0.47
1:CA:1146:A:H2'	1:CA:1147:C:O5'	2.13	0.47
47:DQ:131:ILE:H	47:DQ:131:ILE:HD13	1.79	0.47
23:AW:8:U:H3'	23:AW:8:U:OP2	2.14	0.47
35:DA:892:G:N3	35:DA:892:G:H3'	2.29	0.47
35:DA:704:G:N3	35:DA:726:G:C2	2.82	0.47
7:CG:36:LYS:O	7:CG:39:ALA:HB3	2.14	0.47
35:BA:412:A:N6	35:BA:2411:A:H2'	2.29	0.47
35:BA:826:U:C2	35:BA:828:U:H1'	2.49	0.47
35:BA:1468:C:O2'	35:BA:1469:A:H5'	2.14	0.47
10:AJ:39:PRO:HB3	10:AJ:70:ARG:CZ	2.44	0.47
1:CA:1273:G:H2'	1:CA:1274:G:O4'	2.14	0.47
37:DC:65:PRO:HG2	37:DC:189:ILE:CB	2.44	0.47
3:CC:41:GLY:O	3:CC:45:LYS:HG3	2.15	0.47
35:DA:2658:C:H41	35:DA:2664:G:N2	2.12	0.47
42:BH:60:ARG:O	42:BH:64:LEU:HG	2.14	0.47
35:DA:11:G:O2'	35:DA:12:U:H5'	2.14	0.47
35:BA:1831:G:O2'	35:BA:1832:C:H5'	2.14	0.47
35:BA:750:A:H2'	35:BA:751:A:H5''	1.95	0.47
35:DA:271(A):A:H5''	35:DA:271(B):C:C5	2.49	0.47
7:CG:156:TRP:H	7:CG:156:TRP:HD1	1.62	0.47
15:AO:3:ILE:O	15:AO:3:ILE:HG13	2.13	0.47
35:BA:2581:G:N2	35:BA:2581:G:OP2	2.45	0.47
35:DA:2323:G:H2'	35:DA:2324:C:O4'	2.14	0.47
4:CD:52:SER:OG	4:CD:55:ALA:N	2.39	0.47
35:DA:2253:G:C6	35:DA:2254:C:N3	2.82	0.47
55:DY:60:PHE:HD2	55:DY:60:PHE:O	1.96	0.47
35:DA:1992:G:C2	35:DA:1997:G:C6	3.02	0.47
43:BI:77:LEU:HD21	43:BI:101:LEU:HD13	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:BI:145:VAL:CG1	43:BI:146:ALA:N	2.74	0.47
14:CN:39:LEU:CD1	14:CN:47:LEU:HD12	2.44	0.47
35:BA:1816:G:N7	38:BD:62:TYR:CE1	2.82	0.47
38:BD:267:SER:HA	38:BD:270:ILE:HG13	1.95	0.47
41:DG:130:ASN:HD22	41:DG:160:VAL:HA	1.79	0.47
41:DG:76:SER:C	41:DG:77:ILE:HG13	2.34	0.47
34:B8:39:LYS:HD3	34:B8:39:LYS:C	2.34	0.47
47:DQ:101:ARG:HG3	47:DQ:101:ARG:NH1	2.29	0.47
45:BO:64:ARG:CB	45:BO:64:ARG:HH11	2.27	0.47
50:BT:30:VAL:O	50:BT:31:SER:HB3	2.14	0.47
50:BT:79:HIS:O	50:BT:80:SER:HB2	2.14	0.47
36:BB:73:A:H2'	36:BB:74:U:O4'	2.14	0.47
56:BZ:138:GLU:OE2	56:BZ:138:GLU:N	2.47	0.47
39:BE:181:LEU:O	39:BE:182:LEU:CB	2.61	0.47
35:BA:2223:G:O2'	35:BA:2224:G:H5'	2.13	0.47
41:BG:7:LEU:CA	41:BG:10:LYS:HB2	2.37	0.47
41:BG:76:SER:HB2	41:BG:83:ARG:HB3	1.94	0.47
28:D2:22:GLU:HB3	54:DX:5:TYR:CD1	2.48	0.47
42:BH:125:VAL:HG12	42:BH:127:GLU:O	2.15	0.47
42:BH:109:PHE:HE1	42:BH:152:ARG:NE	2.12	0.47
1:CA:410:G:N1	1:CA:429:U:O2	2.46	0.47
1:CA:545:C:O2'	1:CA:546:G:H5'	2.15	0.47
47:BQ:34:LEU:HG	47:BQ:103:MET:HB2	1.96	0.47
35:BA:1022:G:N2	35:BA:1142(A):A:C2	2.82	0.47
3:CC:134:ILE:HG22	3:CC:168:ALA:CB	2.43	0.47
40:BF:24:LEU:CD2	40:BF:24:LEU:N	2.77	0.47
3:CC:11:ARG:NH1	3:CC:11:ARG:HG2	2.29	0.47
40:BF:65:TRP:CH2	40:BF:75:HIS:CD2	2.95	0.47
35:BA:993:G:H1'	52:BV:91:TYR:CE1	2.49	0.47
35:DA:1278:A:O2'	35:DA:1279:G:H5'	2.14	0.47
1:AA:1438:G:N1	1:AA:1464:G:C2	2.82	0.47
20:AT:71:THR:HB	20:AT:72:LEU:H	1.55	0.47
35:BA:1682:G:O2'	35:BA:1683:C:H5'	2.14	0.47
50:BT:110:ILE:CG2	50:BT:111:ARG:N	2.77	0.47
2:CB:80:ILE:HG13	2:CB:81:VAL:HG23	1.95	0.47
8:AH:69:ARG:HB2	8:AH:74:PRO:HA	1.96	0.47
6:CF:62:TRP:CH2	6:CF:64:GLN:HB2	2.49	0.47
2:CB:170:GLU:C	2:CB:172:ILE:N	2.68	0.47
2:CB:191:ASP:OD1	2:CB:192:SER:N	2.47	0.47
2:CB:82:ARG:HA	2:CB:92:TYR:CE1	2.49	0.47
35:DA:2069:G:C2'	35:DA:2070:G:H5'	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:79:PHE:CD2	4:AD:79:PHE:C	2.87	0.47
6:AF:62:TRP:CH2	6:AF:64:GLN:HB2	2.48	0.47
18:AR:66:LEU:O	18:AR:70:ILE:HG13	2.13	0.47
35:DA:2740:A:C6	35:DA:2764:A:C8	3.01	0.47
43:BI:47:LEU:O	43:BI:50:ARG:N	2.41	0.47
20:CT:56:MET:O	20:CT:60:GLU:HB2	2.13	0.47
1:AA:989:C:O2'	1:AA:990:C:H5'	2.13	0.47
7:CG:104:LEU:H	7:CG:104:LEU:CD2	2.27	0.47
1:CA:880:C:H2'	1:CA:881:G:H8	1.79	0.47
51:BU:28:ARG:HA	51:BU:34:LYS:HB3	1.96	0.47
26:B0:7:LEU:CA	47:BQ:83:MET:SD	3.02	0.47
8:CH:127:LEU:HD12	8:CH:129:VAL:HG13	1.97	0.47
55:BY:2:ARG:C	55:BY:4:LYS:N	2.67	0.47
55:BY:31:LEU:HD12	55:BY:34:LYS:H	1.77	0.47
1:AA:693:G:H2'	1:AA:694:A:O4'	2.12	0.47
7:AG:150:ALA:C	7:AG:152:ALA:N	2.68	0.47
13:AM:117:VAL:CG1	13:AM:118:ALA:N	2.77	0.47
35:DA:259:G:C2	35:DA:260:G:C8	3.02	0.47
35:DA:1659:U:OP2	39:DE:132:HIS:CE1	2.67	0.47
1:CA:872:A:C2	1:CA:874:G:C6	3.02	0.47
8:CH:49:GLU:HG2	8:CH:62:TYR:HE2	1.79	0.47
9:CI:37:PHE:HB3	9:CI:43:ALA:HB2	1.96	0.47
9:CI:7:THR:H	9:CI:83:ARG:HD2	1.79	0.47
33:D7:19:ARG:HG2	33:D7:19:ARG:NH1	2.29	0.47
38:BD:95:LEU:HD12	38:BD:95:LEU:N	2.29	0.47
16:CP:74:LEU:O	16:CP:79:VAL:HG23	2.14	0.47
56:BZ:20:ARG:HG3	56:BZ:20:ARG:NH1	2.29	0.47
35:BA:1613:G:N1	35:BA:1619:G:C5	2.82	0.47
29:D3:4:LEU:C	29:D3:4:LEU:HD23	2.34	0.47
1:CA:313:A:H2'	1:CA:314:C:H6	1.76	0.47
17:CQ:45:HIS:NE2	17:CQ:47:PRO:HB3	2.29	0.47
40:DF:139:PHE:HB3	40:DF:166:ALA:HB1	1.95	0.47
40:DF:164:ARG:HG3	40:DF:175:THR:HG1	1.76	0.47
42:BH:155:SER:OG	42:BH:156:ALA:N	2.44	0.47
42:BH:157:TYR:CD1	42:BH:170:ARG:O	2.66	0.47
3:CC:84:ILE:HA	3:CC:87:LEU:HB2	1.95	0.47
26:D0:43:THR:O	26:D0:43:THR:HG23	2.13	0.47
13:AM:54:VAL:O	13:AM:58:GLU:N	2.46	0.47
35:DA:290:G:N2	35:DA:291:C:H1'	2.29	0.47
1:AA:343:U:O2'	1:AA:344:A:H2'	2.15	0.47
12:CL:117:ARG:O	12:CL:119:LYS:O	2.31	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:122:LYS:O	11:AK:126:ARG:HB3	2.13	0.47
35:BA:705:A:C2	35:BA:706:A:C4	3.03	0.47
17:CQ:92:ARG:O	17:CQ:95:TYR:N	2.37	0.47
35:DA:1450:G:H1	35:DA:1462:C:H42	1.61	0.47
35:DA:1444:G:N2	35:DA:1548:C:C2	2.82	0.47
56:BZ:61:LEU:CD1	56:BZ:65:GLN:HB3	2.43	0.47
36:BB:66:A:N6	36:BB:108:U:H2'	2.25	0.47
1:CA:1338:G:H21	22:CV:40:C:H1'	1.80	0.47
7:CG:148:ASN:O	7:CG:150:ALA:N	2.47	0.47
13:AM:14:ARG:HG3	13:AM:17:VAL:CG2	2.44	0.47
36:BB:25:A:H2'	36:BB:26:A:O4'	2.13	0.47
1:CA:241:C:O2'	1:CA:242:C:H5'	2.14	0.47
35:BA:602:G:N3	35:BA:602:G:H2'	2.29	0.47
1:CA:1120:G:H1	1:CA:1153:C:H42	1.61	0.47
35:DA:1441:G:H2'	35:DA:1442:G:H8	1.80	0.47
10:CJ:39:PRO:HB3	10:CJ:70:ARG:CZ	2.44	0.47
1:AA:668:G:O2'	1:AA:669:U:H5'	2.14	0.47
45:DO:26:LYS:O	45:DO:27:GLY:O	2.32	0.47
1:CA:1016:A:H2'	1:CA:1017:G:H5'	1.96	0.47
35:BA:1184:G:C2'	35:BA:1185:C:H5'	2.44	0.47
37:DC:64:LEU:CD1	37:DC:66:HIS:HB2	2.44	0.47
4:AD:45:GLN:O	4:AD:46:LYS:HG3	2.14	0.47
1:CA:55:A:N7	1:CA:56:U:C5	2.82	0.47
35:DA:283:A:O2'	35:DA:284:U:OP1	2.25	0.47
35:DA:982:C:O5'	35:DA:982:C:H6	1.97	0.47
37:DC:67:GLY:O	37:DC:69:GLY:N	2.46	0.47
35:DA:2850:A:C2'	35:DA:2851:A:H8	2.21	0.47
45:DO:63:VAL:HG22	45:DO:84:ALA:CA	2.32	0.47
45:DO:71:ARG:HG3	45:DO:71:ARG:NH1	2.28	0.47
38:BD:268:ARG:HB2	38:BD:268:ARG:CZ	2.44	0.47
38:DD:270:ILE:O	38:DD:271:ILE:HG13	2.13	0.47
38:DD:94:LEU:CD1	38:DD:94:LEU:O	2.61	0.47
41:DG:102:PHE:CD1	41:DG:106:LEU:HD22	2.49	0.47
41:DG:111:LEU:O	41:DG:114:ILE:HG12	2.14	0.47
35:BA:2415:G:C4'	46:BP:66:GLY:HA3	2.43	0.47
35:BA:2678:C:O2'	35:BA:2679:A:H5'	2.14	0.47
35:BA:874:G:H2'	35:BA:875:G:H8	1.78	0.47
51:BU:52:ARG:O	51:BU:53:ARG:C	2.52	0.47
51:BU:92:ARG:CZ	52:BV:11:GLN:HG2	2.44	0.47
51:BU:98:LEU:O	51:BU:100:VAL:N	2.47	0.47
42:DH:103:LEU:HD22	42:DH:123:PHE:CE2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BX:75:ASP:O	54:BX:76:ARG:HG3	2.14	0.47
39:DE:179:GLU:O	39:DE:180:ASN:CB	2.63	0.47
39:DE:44:TYR:CD1	39:DE:44:TYR:N	2.83	0.47
39:DE:55:ASN:ND2	39:DE:75:VAL:HG22	2.28	0.47
41:BG:38:VAL:O	41:BG:158:ALA:CB	2.62	0.47
41:BG:76:SER:CA	41:BG:84:LYS:H	2.26	0.47
55:DY:7:VAL:HG23	55:DY:8:LYS:HD2	1.95	0.47
28:D2:17:SER:O	28:D2:20:GLU:N	2.47	0.47
19:CS:15:LEU:HD22	19:CS:15:LEU:N	2.28	0.47
19:CS:36:ARG:NH2	19:CS:72:GLY:HA2	2.29	0.47
49:BS:25:ARG:NH2	49:BS:89:ARG:NH1	2.60	0.47
49:BS:83:LYS:O	49:BS:85:VAL:N	2.48	0.47
40:BF:107:LYS:O	40:BF:108:LYS:C	2.52	0.47
27:D1:13:ILE:HG13	27:D1:14:VAL:HG12	1.95	0.47
35:DA:631:A:H4'	46:DP:65:ARG:HG3	1.96	0.47
44:DN:72:TYR:HB2	44:DN:85:ILE:HB	1.96	0.47
34:B8:58:ILE:C	34:B8:61:LEU:HG	2.34	0.47
35:BA:2069:G:C2	35:BA:2070:G:C8	3.01	0.47
40:DF:24:LEU:CD2	40:DF:24:LEU:N	2.78	0.47
48:DR:18:LEU:HD13	48:DR:18:LEU:C	2.34	0.47
48:DR:32:GLY:O	48:DR:116:LEU:HB2	2.14	0.47
1:AA:1438:G:C2	1:AA:1464:G:C2	3.01	0.47
48:BR:20:LEU:CD1	48:BR:20:LEU:C	2.75	0.47
6:CF:80:ARG:CG	6:CF:88:VAL:HB	2.44	0.47
35:DA:942:G:H1'	35:DA:1189:A:H2	1.78	0.47
55:DY:18:GLY:O	55:DY:20:TYR:N	2.46	0.47
1:AA:975:A:H4'	1:AA:976:G:C5'	2.28	0.47
6:AF:68:PRO:HG3	6:AF:71:ARG:HE	1.79	0.47
18:AR:74:ARG:NH1	18:AR:74:ARG:HG3	2.29	0.47
1:CA:1401:G:C2	1:CA:1402:C:H1'	2.49	0.47
35:DA:1917:U:H2'	35:DA:1918:A:H8	1.80	0.47
25:CY:150:SER:C	25:CY:152:ASP:H	2.17	0.47
25:CY:3:LEU:CD1	25:CY:3:LEU:H	2.12	0.47
12:CL:54:LYS:N	12:CL:54:LYS:CD	2.75	0.47
13:CM:107:ALA:H	13:CM:108:ARG:HD2	1.79	0.47
50:DT:10:VAL:O	50:DT:11:GLU:C	2.52	0.47
53:BW:106:ILE:HG13	53:BW:106:ILE:O	2.13	0.47
7:CG:99:LEU:O	7:CG:100:ALA:C	2.52	0.47
11:CK:87:THR:HG22	11:CK:88:GLY:N	2.29	0.47
47:BQ:82:ARG:CG	47:BQ:82:ARG:HH11	2.22	0.47
43:BI:94:ALA:CB	43:BI:114:LEU:HD12	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:148:ASN:N	7:AG:148:ASN:HD22	2.12	0.47
13:AM:114:ARG:C	13:AM:116:THR:H	2.17	0.47
9:AI:50:LEU:HB3	9:AI:55:ALA:CB	2.44	0.47
35:BA:2225:A:H4'	35:BA:2226:C:C5'	2.43	0.47
31:B5:40:LYS:HZ3	31:B5:50:GLY:HA2	1.79	0.47
12:AL:76:ASN:O	12:AL:77:LEU:HD23	2.14	0.47
1:CA:1129:C:H4'	1:CA:1130:A:H5'	1.96	0.47
33:D7:29:LYS:HZ3	33:D7:32:LYS:HZ2	1.62	0.47
35:DA:778:G:H4'	38:DD:48:ARG:HD2	1.96	0.47
46:DP:97:PRO:C	46:DP:99:LEU:N	2.68	0.47
15:AO:15:PHE:O	15:AO:16:ALA:O	2.31	0.47
28:D2:60:LEU:HG	28:D2:61:LEU:N	2.17	0.47
38:DD:118:VAL:HG22	38:DD:119:ALA:H	1.76	0.47
38:DD:117:VAL:HG21	38:DD:128:GLY:C	2.34	0.47
1:CA:35:G:H2'	1:CA:36:C:C6	2.49	0.47
1:AA:1072:G:H2'	1:AA:1073:U:H6	1.78	0.47
1:CA:255:G:H2'	1:CA:256:U:C6	2.49	0.47
17:AQ:59:ILE:CD1	17:AQ:73:VAL:HA	2.44	0.47
35:DA:2354:G:O2'	35:DA:2355:C:H5'	2.14	0.47
1:CA:332:G:H2'	1:CA:333:G:C8	2.46	0.47
48:BR:4:LEU:C	48:BR:6:SER:H	2.16	0.47
35:DA:1707:G:C4	35:DA:1708:C:C5	3.02	0.47
38:DD:46:GLN:N	38:DD:46:GLN:OE1	2.47	0.47
35:DA:2102:U:H2'	35:DA:2103:C:C5	2.49	0.47
52:BV:45:THR:HG22	52:BV:45:THR:O	2.13	0.47
1:AA:1242:C:P	21:AU:10:ARG:HH12	2.37	0.47
40:DF:126:VAL:CG1	40:DF:193:VAL:HG13	2.45	0.47
17:AQ:10:VAL:HG11	17:AQ:53:LEU:HA	1.96	0.47
23:CW:55:5MU:H73	23:CW:56:U:C4	2.48	0.47
35:DA:1406:U:H3'	35:DA:1407:C:C6	2.47	0.47
10:CJ:33:GLN:O	10:CJ:75:ILE:HG23	2.13	0.47
30:B4:45:GLY:C	30:B4:47:GLN:N	2.66	0.47
1:CA:425:G:H2'	1:CA:426:G:C8	2.46	0.47
50:DT:6:LEU:HD23	50:DT:6:LEU:O	2.14	0.47
1:CA:695:A:O2'	1:CA:696:A:H5'	2.14	0.47
1:CA:352:C:O2	1:CA:352:C:H2'	2.13	0.47
35:DA:2838:G:N2	48:DR:93:GLY:HA3	2.29	0.47
35:DA:1767:C:O2	35:DA:1985:G:N2	2.44	0.47
1:CA:93:G:C6	1:CA:96:U:C4	3.02	0.47
1:CA:746:A:H2'	1:CA:747:C:C6	2.50	0.47
1:AA:619:U:C2	4:AD:135:LEU:HD23	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BW:37:ARG:HG3	53:BW:37:ARG:NH1	2.29	0.47
35:BA:118:A:OP2	35:BA:119:A:H5''	2.14	0.47
36:BB:40:U:H2'	36:BB:41:U:OP1	2.14	0.47
37:BC:77:ILE:HG13	37:BC:96:GLY:O	2.15	0.47
35:DA:1459:G:H5''	35:DA:1460:A:OP1	2.14	0.47
13:CM:7:VAL:HG12	13:CM:7:VAL:O	2.14	0.47
14:CN:42:ILE:O	14:CN:45:ARG:N	2.48	0.47
38:BD:25:THR:O	38:BD:26:LYS:C	2.53	0.47
5:CE:126:ARG:O	5:CE:128:PRO:N	2.47	0.47
5:CE:131:ILE:CD1	5:CE:131:ILE:H	2.21	0.47
41:DG:134:GLY:HA3	41:DG:155:MET:O	2.15	0.47
10:CJ:8:LEU:HB2	10:CJ:16:LEU:HD11	1.95	0.47
1:AA:1442(A):G:N2	50:BT:119:LYS:H	2.12	0.47
35:BA:2726:U:H6	45:BO:67:LYS:NZ	2.12	0.47
56:BZ:66:SER:C	56:BZ:67:LEU:HD12	2.34	0.47
39:DE:143:ASN:N	39:DE:143:ASN:ND2	2.62	0.47
44:BN:9:VAL:HG21	44:BN:39:ARG:HH21	1.79	0.47
51:BU:98:LEU:C	51:BU:100:VAL:H	2.16	0.47
14:AN:37:PHE:CE1	14:AN:53:LEU:HD22	2.49	0.47
39:DE:4:ILE:HG12	39:DE:28:ALA:HB1	1.94	0.47
39:DE:60:ASN:O	39:DE:62:PRO:N	2.47	0.47
2:AB:222:ILE:C	2:AB:222:ILE:HD13	2.34	0.47
2:AB:83:MET:O	2:AB:86:GLU:N	2.47	0.47
41:BG:161:THR:HG22	41:BG:163:ALA:H	1.78	0.47
28:D2:25:VAL:HG13	28:D2:26:ARG:N	2.29	0.47
42:BH:86:GLU:N	42:BH:86:GLU:OE1	2.47	0.47
56:DZ:117:LEU:HD23	56:DZ:117:LEU:H	1.79	0.47
56:DZ:150:LEU:O	56:DZ:171:ILE:HG12	2.13	0.47
44:DN:40:PRO:CA	51:DU:64:ARG:HH22	2.27	0.47
51:DU:108:GLU:HB3	51:DU:112:ARG:NH1	2.29	0.47
51:DU:49:HIS:O	51:DU:52:ARG:N	2.48	0.47
51:DU:96:ALA:C	51:DU:98:LEU:H	2.18	0.47
52:DV:93:GLU:HG2	52:DV:94:LEU:N	2.28	0.47
45:DO:112:MET:O	45:DO:115:VAL:HG23	2.14	0.47
49:BS:101:LEU:HD21	49:BS:103:GLU:CG	2.45	0.47
49:BS:92:TYR:C	49:BS:92:TYR:HD1	2.17	0.47
1:CA:408:A:H2'	1:CA:409:G:O4'	2.15	0.47
36:DB:73:A:H2'	36:DB:74:U:O4'	2.15	0.47
40:BF:103:LYS:O	40:BF:104:LYS:C	2.51	0.47
40:BF:119:ARG:HG2	40:BF:119:ARG:HH11	1.79	0.47
40:BF:202:PHE:CE1	40:BF:206:ILE:HD13	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:B8:56:GLU:HA	34:B8:59:LYS:CE	2.44	0.47
35:BA:1166:C:H2'	35:BA:1167:U:C6	2.49	0.47
40:DF:28:ILE:HD13	40:DF:28:ILE:H	1.77	0.47
40:DF:43:LYS:HA	40:DF:98:SER:HA	1.95	0.47
35:DA:2822:G:OP2	39:DE:110:GLY:O	2.32	0.47
1:AA:1426:C:C2	1:AA:1427:U:C5	3.02	0.47
20:AT:22:ARG:O	20:AT:23:ARG:C	2.53	0.47
35:BA:1284:A:H2'	35:BA:1285:G:O4'	2.13	0.47
35:BA:1654:A:C2	39:BE:113:PHE:CD1	3.03	0.47
2:AB:163:PHE:O	2:AB:164:VAL:HG23	2.14	0.47
2:AB:50:GLU:O	2:AB:51:LEU:C	2.53	0.47
15:CO:77:ARG:O	15:CO:80:ALA:HB3	2.14	0.47
34:D8:59:LYS:HB2	34:D8:59:LYS:NZ	2.29	0.47
35:DA:576:U:H2'	35:DA:577:G:H8	1.80	0.47
35:DA:109:G:H2'	35:DA:110:G:H8	1.78	0.47
55:DY:28:LYS:HZ2	55:DY:37:VAL:HA	1.77	0.47
35:DA:571:A:O2'	35:DA:573:G:O5'	2.32	0.47
35:DA:296:C:N4	35:DA:343:C:H42	2.12	0.47
1:AA:939:G:C4	1:AA:940:C:C5	3.02	0.47
7:AG:102:ARG:O	7:AG:103:TRP:C	2.50	0.47
21:AU:13:ILE:HA	21:AU:22:ARG:NH1	2.29	0.47
1:CA:259:G:O2'	1:CA:260:G:H5'	2.13	0.47
1:AA:1015:A:O5'	1:AA:1015:A:H8	1.98	0.47
35:BA:2127:G:H5'	37:BC:36:LYS:NZ	2.30	0.47
35:BA:2701:C:H2'	35:BA:2702:U:H6	1.79	0.47
35:BA:2034:U:H2'	35:BA:2035:G:H5'	1.96	0.47
11:CK:88:GLY:N	11:CK:91:ARG:HB2	2.30	0.47
33:B7:34:ARG:NE	33:B7:39:ARG:HD2	2.28	0.47
35:BA:768:G:H2'	35:BA:769:G:C8	2.49	0.47
26:D0:16:SER:HB3	35:DA:2262:U:OP2	2.14	0.47
55:BY:37:VAL:CG2	55:BY:67:LEU:HG	2.43	0.47
55:BY:67:LEU:HD12	55:BY:68:HIS:N	2.29	0.47
35:DA:619:G:O5'	35:DA:620:G:N2	2.43	0.47
1:AA:603:U:H2'	1:AA:604:G:C8	2.50	0.47
1:AA:922:G:C6	1:AA:923:A:C6	3.02	0.47
8:AH:60:ARG:HG3	8:AH:60:ARG:HH11	1.80	0.47
9:AI:4:TYR:HA	9:AI:88:TYR:CE1	2.49	0.47
8:CH:87:SER:HB3	8:CH:132:GLU:OE2	2.15	0.47
5:AE:147:ASP:HA	5:AE:150:ARG:CB	2.42	0.47
46:BP:83:VAL:HG11	46:BP:112:LEU:HD21	1.96	0.47
12:CL:41:ARG:HH11	12:CL:41:ARG:CB	2.19	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2495:G:C6	35:DA:2496:C:C4	3.02	0.47
1:CA:251:G:N2	1:CA:253:U:C4	2.83	0.47
35:DA:2115:G:H22	35:DA:2170:A:N6	2.12	0.47
35:DA:1930:G:N2	35:DA:1968:G:C2'	2.74	0.47
35:DA:1037:G:H1	35:DA:1118:C:N4	2.06	0.47
11:AK:99:GLN:NE2	11:AK:105:VAL:HG11	2.29	0.47
32:D6:28:ARG:O	32:D6:29:ASN:C	2.51	0.47
29:B3:17:LYS:HG2	35:BA:969:U:OP1	2.14	0.47
1:AA:339:C:O2'	1:AA:340:U:H5'	2.14	0.47
38:DD:167:GLY:O	38:DD:168:ARG:HG2	2.14	0.47
35:BA:2203:U:H4'	38:BD:151:LYS:HE3	1.97	0.47
35:DA:2763:G:C8	35:DA:2763:G:H5'	2.49	0.47
1:AA:769:G:O2'	1:AA:770:C:H5'	2.14	0.47
1:AA:811:C:H4'	1:AA:900:A:H62	1.79	0.47
35:BA:154(A):C:H5	35:BA:171:G:H1	1.59	0.47
35:DA:1387:C:C5'	35:DA:1469:A:H4'	2.44	0.47
1:CA:1271:G:H2'	1:CA:1272:G:O4'	2.14	0.47
34:D8:17:THR:HG22	35:DA:650:C:O2'	2.14	0.47
1:CA:299:G:C6	1:CA:300:A:N1	2.83	0.47
53:BW:24:ILE:O	53:BW:71:VAL:HG11	2.14	0.47
7:CG:16:LEU:CD1	9:CI:41:VAL:HG12	2.43	0.47
53:DW:26:GLY:H	53:DW:71:VAL:CG1	2.27	0.47
35:BA:604:G:H2'	35:BA:605:C:C6	2.49	0.47
17:CQ:56:VAL:HG23	17:CQ:78:GLU:HG3	1.96	0.47
35:BA:828:U:O2	35:BA:828:U:H3'	2.14	0.47
35:BA:1467:C:H2'	35:BA:1468:C:H6	1.79	0.47
35:DA:2556:C:H2'	35:DA:2557:G:O4'	2.13	0.47
35:BA:1555:G:H2'	35:BA:1556:C:H6	1.79	0.47
51:DU:29:SER:O	51:DU:30:LYS:NZ	2.43	0.47
17:CQ:62:SER:CB	17:CQ:72:ARG:HG3	2.44	0.47
1:AA:1527:C:C2	1:AA:1528:U:C5	3.02	0.47
35:BA:951:C:O2'	35:BA:952:G:H5'	2.14	0.47
43:DI:20:ASP:O	43:DI:21:VAL:HG13	2.13	0.47
1:CA:1210:C:H4'	1:CA:1214:C:C4	2.49	0.47
35:BA:2228:G:P	38:BD:263:ARG:HH21	2.37	0.47
41:DG:55:LYS:HD3	41:DG:55:LYS:O	2.14	0.47
35:BA:2519:U:OP1	35:BA:2519:U:H3'	2.14	0.47
20:CT:90:GLN:C	20:CT:93:GLU:OE2	2.52	0.47
55:DY:44:ILE:HG23	55:DY:45:VAL:N	2.30	0.47
35:DA:2001:A:C2	35:DA:2002:G:C4	3.02	0.47
45:DO:105:GLU:HA	45:DO:108:GLU:CD	2.34	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DT:108:ARG:HB3	50:DT:108:ARG:HH11	1.80	0.47
43:BI:79:ILE:CG2	43:BI:81:VAL:HG23	2.45	0.47
1:CA:972:C:H4'	10:CJ:57:LYS:HG2	1.93	0.47
38:DD:211:ARG:O	38:DD:212:SER:C	2.52	0.47
35:DA:1902:C:C4'	38:DD:244:ARG:HB2	2.43	0.47
36:DB:40:U:H2'	36:DB:41:U:OP1	2.14	0.47
41:DG:51:ARG:CA	41:DG:51:ARG:HE	2.21	0.47
32:B6:51:GLU:OE1	32:B6:51:GLU:N	2.45	0.47
47:DQ:35:VAL:HG22	47:DQ:100:GLY:O	2.14	0.47
35:BA:1997:G:C2	35:BA:1998:G:C5	3.03	0.47
35:BA:2730:C:H2'	35:BA:2731:G:H8	1.80	0.47
45:BO:65:THR:O	45:BO:79:PHE:HB2	2.14	0.47
1:AA:1442(B):A:N6	50:BT:118:ARG:NH2	2.63	0.47
50:BT:27:THR:HG23	50:BT:28:VAL:N	2.28	0.47
50:BT:50:ILE:HD11	50:BT:64:ARG:HB3	1.96	0.47
50:BT:61:PHE:CZ	50:BT:76:PHE:HB3	2.49	0.47
39:BE:181:LEU:CD2	39:BE:181:LEU:N	2.76	0.47
52:BV:30:GLY:HA2	52:BV:64:HIS:O	2.14	0.47
42:DH:109:PHE:HE1	42:DH:152:ARG:NE	2.12	0.47
14:AN:42:ILE:O	14:AN:45:ARG:N	2.45	0.47
35:BA:142:A:C8	35:BA:1408:C:H1'	2.49	0.47
35:BA:70:G:H21	35:BA:71:A:N6	2.12	0.47
54:BX:33:LYS:O	54:BX:35:THR:N	2.47	0.47
27:B1:85:LEU:CA	27:B1:87:PRO:HD3	2.43	0.47
27:B1:88:LYS:HG3	27:B1:89:GLU:OE2	2.15	0.47
2:AB:213:LEU:C	2:AB:213:LEU:CD2	2.83	0.47
41:BG:107:LEU:HD11	41:BG:178:PHE:CE1	2.48	0.47
41:BG:174:GLU:O	41:BG:176:LEU:N	2.47	0.47
41:BG:72:ARG:HB3	41:BG:86:MET:N	2.19	0.47
35:BA:2667:C:H1'	42:BH:109:PHE:CE2	2.50	0.47
56:DZ:125:LEU:CB	56:DZ:165:VAL:HG22	2.31	0.47
56:DZ:59:LEU:HD11	56:DZ:69:THR:OG1	2.15	0.47
29:D3:32:GLN:OE1	29:D3:32:GLN:HA	2.14	0.47
35:DA:996:A:N6	35:DA:1160:G:C6	2.82	0.47
52:DV:30:GLY:HA2	52:DV:64:HIS:O	2.14	0.47
52:DV:29:PRO:C	52:DV:31:ALA:H	2.18	0.47
19:CS:16:LEU:O	19:CS:20:LEU:N	2.44	0.47
49:BS:36:TYR:HA	49:BS:52:SER:HB2	1.96	0.47
49:BS:54:LEU:CD1	49:BS:58:LEU:O	2.61	0.47
49:BS:65:VAL:HG12	49:BS:69:VAL:HB	1.96	0.47
4:CD:148:VAL:O	4:CD:149:ALA:O	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:98:GLU:C	4:CD:100:ARG:H	2.17	0.47
40:BF:185:ASP:HA	40:BF:188:ARG:CB	2.39	0.47
35:BA:660:G:C5'	40:BF:99:TYR:CD2	2.97	0.47
25:AY:76:LEU:O	25:AY:79:ILE:HB	2.13	0.47
34:D8:21:LYS:O	34:D8:23:VAL:HG23	2.14	0.47
35:DA:1022:G:O2'	35:DA:1023:U:OP2	2.26	0.47
34:B8:3:LYS:O	34:B8:4:MET:O	2.32	0.47
35:BA:2031:A:C6	35:BA:2498:C:H1'	2.50	0.47
35:BA:196:A:C5'	46:BP:46:LYS:HZ1	2.24	0.47
40:DF:157:VAL:HB	40:DF:194:MET:HB3	1.97	0.47
35:BA:957:A:OP1	35:BA:957:A:H8	1.98	0.47
48:DR:10:LEU:HD22	48:DR:17:ARG:CD	2.27	0.47
48:DR:17:ARG:CG	48:DR:17:ARG:HH11	2.23	0.47
48:BR:56:LYS:HD2	48:BR:88:ARG:HA	1.97	0.47
2:AB:69:LEU:C	2:AB:69:LEU:CD1	2.83	0.47
44:DN:123:TYR:N	44:DN:123:TYR:CD1	2.83	0.47
44:DN:125:GLY:HA3	44:DN:126:PRO:O	2.14	0.47
15:CO:87:ILE:HG22	15:CO:88:ARG:H	1.79	0.47
18:CR:81:PHE:O	18:CR:82:THR:CB	2.63	0.47
2:CB:195:ASP:O	8:CH:68:ARG:NH2	2.47	0.47
35:DA:814:C:H1'	35:DA:1225:G:H21	1.79	0.47
35:DA:834:C:H2'	35:DA:835:A:C8	2.49	0.47
4:AD:100:ARG:O	4:AD:101:LEU:C	2.52	0.47
19:AS:15:LEU:N	19:AS:15:LEU:HD22	2.26	0.47
19:AS:72:GLY:C	19:AS:74:PHE:N	2.67	0.47
6:AF:10:LEU:HD12	6:AF:10:LEU:N	2.28	0.47
6:AF:72:VAL:CG1	6:AF:73:ASN:H	2.22	0.47
3:AC:172:ARG:NH1	3:AC:174:PRO:HG2	2.30	0.47
25:CY:177:GLU:O	25:CY:178:LYS:C	2.53	0.47
21:CU:12:LYS:HG2	21:CU:22:ARG:HB2	1.97	0.47
12:CL:55:VAL:CG1	12:CL:56:ALA:H	2.08	0.47
1:CA:1226:C:OP1	13:CM:96:LEU:HD13	2.15	0.47
1:AA:1268:A:H2'	1:AA:1269:A:C8	2.48	0.47
35:BA:1659:U:OP2	39:BE:132:HIS:HE1	1.98	0.47
12:AL:84:LEU:HD22	12:AL:101:VAL:HG21	1.97	0.47
55:BY:2:ARG:HG2	55:BY:2:ARG:NH1	2.30	0.47
11:CK:73:MET:HA	11:CK:77:MET:HB3	1.97	0.47
5:AE:127:ASN:O	5:AE:128:PRO:C	2.53	0.47
9:CI:13:ALA:HB2	9:CI:68:GLY:HA3	1.96	0.47
56:BZ:115:GLY:CA	56:BZ:175:VAL:O	2.51	0.47
1:AA:1149:C:H2'	1:AA:1150:U:C6	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:7:THR:H	9:AI:83:ARG:HD2	1.80	0.47
1:CA:528:C:N4	12:CL:49:ASN:HD22	2.07	0.47
12:CL:91:LYS:HG3	12:CL:91:LYS:O	2.14	0.47
35:BA:2319:G:H4'	35:BA:2319:G:OP2	2.14	0.47
46:DP:128:HIS:O	46:DP:129:ALA:HB2	2.14	0.47
46:BP:84:ASN:CG	46:BP:116:GLY:HA3	2.34	0.47
40:BF:153:SER:HA	40:BF:172:TRP:O	2.14	0.47
1:AA:802:A:C2'	1:AA:803:G:H5'	2.43	0.47
35:DA:2319:G:C5	35:DA:2320:A:N6	2.83	0.47
6:CF:45:LEU:CD1	6:CF:46:ARG:N	2.76	0.47
1:CA:38:G:C2	1:CA:397:A:C2	3.02	0.47
1:AA:1443:G:N1	1:AA:1460:A:N3	2.62	0.47
17:AQ:70:ARG:C	17:AQ:71:PHE:HD2	2.18	0.47
5:CE:105:VAL:HB	5:CE:106:PRO:HD3	1.97	0.47
4:AD:4:TYR:O	4:AD:5:ILE:CB	2.62	0.47
4:AD:5:ILE:CG2	4:AD:6:GLY:H	2.11	0.47
13:AM:49:THR:HG22	13:AM:50:GLU:N	2.30	0.47
13:AM:50:GLU:O	13:AM:54:VAL:HG23	2.15	0.47
35:BA:462:C:N4	35:BA:468:G:C6	2.82	0.47
25:AY:74:ASN:HA	25:AY:77:LYS:CG	2.44	0.47
35:DA:1112:G:O2'	35:DA:1113:U:H5''	2.15	0.47
36:DB:79:C:H2'	36:DB:80:U:O4'	2.15	0.47
27:B1:20:ARG:CZ	27:B1:41:ARG:NE	2.77	0.47
35:DA:1468:C:O2'	35:DA:1469:A:H5'	2.14	0.47
35:BA:1866:C:H2'	35:BA:1876:A:O4'	2.15	0.47
35:BA:1007:C:HO2'	44:BN:108:PRO:HA	1.77	0.47
35:DA:705:A:C2	35:DA:706:A:C4	3.02	0.47
35:DA:474:G:H4'	35:DA:475:U:OP1	2.12	0.47
7:CG:148:ASN:C	7:CG:150:ALA:N	2.68	0.47
7:CG:85:TYR:CE1	7:CG:154:TYR:HE1	2.33	0.47
1:AA:245:C:C2'	1:AA:246:A:H5'	2.44	0.47
44:DN:13:TRP:H	44:DN:13:TRP:HD1	1.58	0.47
3:CC:127:ARG:HD2	3:CC:127:ARG:N	2.29	0.47
6:CF:43:LEU:HD12	6:CF:43:LEU:N	2.26	0.47
36:DB:61:G:H2'	36:DB:62:C:H6	1.78	0.47
35:DA:979:G:N2	35:DA:985:C:N4	2.63	0.47
1:CA:630:G:H2'	1:CA:631:G:C5'	2.44	0.47
52:BV:51:VAL:HG12	52:BV:52:VAL:N	2.30	0.47
43:BI:29:TYR:CE1	43:BI:33:ARG:NE	2.82	0.47
35:BA:2843:G:C2	35:BA:2875:C:N3	2.82	0.47
1:CA:1039:C:H2'	1:CA:1040:U:C6	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:56:VAL:HG23	17:AQ:78:GLU:HG3	1.96	0.47
56:DZ:94:GLU:HA	56:DZ:95:PRO:HD2	1.82	0.47
35:BA:1136:G:N3	35:BA:2038:G:H4'	2.29	0.47
1:CA:363:A:O2'	1:CA:364:A:H5'	2.13	0.47
1:AA:1273:G:H2'	1:AA:1274:G:O4'	2.14	0.47
1:CA:788:U:H2'	1:CA:789:U:H6	1.79	0.47
2:AB:114:ARG:HA	2:AB:117:GLU:HB2	1.97	0.47
34:D8:48:PHE:N	34:D8:48:PHE:CD1	2.76	0.47
3:AC:40:ARG:O	3:AC:44:GLU:N	2.44	0.47
1:CA:517:G:N3	1:CA:531:U:H5'	2.29	0.47
35:DA:2003:G:C6	35:DA:2004:G:C5	3.02	0.47
1:CA:13:U:C5	1:CA:916:G:O6	2.68	0.47
35:BA:2357:U:H2'	35:BA:2358:G:H5''	1.96	0.47
36:BB:110:G:H2'	36:BB:111:G:H8	1.79	0.47
38:BD:5:LYS:N	38:BD:5:LYS:HD2	2.28	0.47
35:DA:1950:G:H8	35:DA:1950:G:O5'	1.98	0.47
4:AD:206:PHE:O	4:AD:206:PHE:CG	2.68	0.47
35:BA:2373:G:C6	35:BA:2374:C:N4	2.83	0.47
7:AG:32:ARG:O	7:AG:33:ASP:HB2	2.14	0.47
45:DO:14:THR:HG21	45:DO:86:ILE:HG12	1.96	0.47
45:DO:61:VAL:O	45:DO:84:ALA:CB	2.54	0.47
53:DW:28:SER:O	53:DW:29:LEU:C	2.52	0.47
35:BA:1902:C:C4'	38:BD:244:ARG:HB2	2.43	0.47
1:CA:1392:G:O2'	1:CA:1393:U:H5'	2.13	0.47
1:CA:774:G:H1	1:CA:805:C:N4	2.13	0.47
38:DD:243:GLY:O	38:DD:244:ARG:HB3	2.15	0.47
16:CP:4:ILE:HB	16:CP:66:PRO:CB	2.36	0.47
41:DG:120:LEU:HD12	41:DG:180:PHE:CE1	2.50	0.47
41:DG:133:LEU:HB2	41:DG:134:GLY:H	1.54	0.47
10:CJ:34:VAL:HA	10:CJ:74:ILE:HA	1.97	0.47
34:B8:23:VAL:CG1	34:B8:46:ARG:NH1	2.76	0.47
47:DQ:39:PRO:O	47:DQ:40:ALA:HB2	2.15	0.47
45:BO:85:VAL:CG1	45:BO:86:ILE:N	2.77	0.47
56:BZ:18:LEU:HD11	56:BZ:23:LYS:HB2	1.97	0.47
56:BZ:54:HIS:HB3	56:BZ:101:PRO:CG	2.45	0.47
35:BA:2810:A:O2'	39:BE:61:ARG:NE	2.48	0.47
35:BA:996:A:N6	35:BA:1160:G:C6	2.83	0.47
51:BU:91:ASP:OD2	51:BU:96:ALA:HB2	2.15	0.47
27:B1:13:ILE:HB	27:B1:63:ALA:CB	2.41	0.47
54:DX:31:HIS:O	54:DX:32:PRO:C	2.53	0.47
54:DX:24:GLY:HA2	54:DX:80:ILE:HG13	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2596:U:H2'	35:BA:2597:G:O4'	2.15	0.47
35:DA:1011:G:C6	35:DA:1151:G:C6	3.02	0.47
19:CS:72:GLY:C	19:CS:74:PHE:N	2.68	0.47
36:BB:7:G:H2'	36:BB:8:U:O4'	2.15	0.47
49:BS:90:GLY:C	49:BS:92:TYR:N	2.63	0.47
1:CA:542:G:C4	1:CA:543:C:C5	3.03	0.47
4:CD:13:ARG:O	4:CD:15:GLU:N	2.47	0.47
4:CD:31:CYS:C	4:CD:33:MET:H	2.17	0.47
4:CD:13:ARG:NH1	4:CD:40:PRO:HA	2.29	0.47
44:BN:67:LEU:HB3	44:BN:88:GLU:CD	2.35	0.47
27:D1:52:ARG:O	27:D1:53:VAL:HG12	2.15	0.47
27:D1:76:ARG:CA	27:D1:78:LYS:NZ	2.77	0.47
27:D1:87:PRO:HD2	27:D1:88:LYS:H	1.80	0.47
34:B8:2:PRO:C	34:B8:4:MET:H	2.17	0.47
34:B8:56:GLU:O	34:B8:57:ARG:C	2.52	0.47
35:BA:1257:C:H2'	35:BA:1258:C:H6	1.80	0.47
35:BA:199:A:C6	35:BA:2434:A:C6	3.02	0.47
35:BA:563:G:OP2	35:BA:572:A:H5'	2.15	0.47
35:DA:442:G:H4'	40:DF:46:ARG:HD3	1.97	0.47
35:BA:910:A:C4	47:BQ:13:GLN:OE1	2.68	0.47
35:DA:1281:G:H1	35:DA:1286:A:N6	2.13	0.47
1:AA:1463:C:H2'	1:AA:1464:G:H8	1.80	0.47
1:AA:1463:C:H2'	1:AA:1464:G:C8	2.49	0.47
2:CB:213:LEU:O	2:CB:217:ARG:HG2	2.14	0.47
45:BO:111:PHE:CB	45:BO:114:ILE:HD13	2.35	0.47
2:CB:187:LEU:HB2	2:CB:201:ILE:HB	1.96	0.47
2:CB:70:PHE:O	2:CB:92:TYR:HA	2.15	0.47
1:AA:1321:C:H5''	1:AA:1322:C:H5''	1.92	0.47
19:AS:12:ASP:HB3	19:AS:15:LEU:CD2	2.44	0.47
4:AD:30:LYS:O	4:AD:32:ALA:N	2.47	0.47
1:CA:1494:G:H2'	1:CA:1494:G:N3	2.30	0.47
13:CM:86:CYS:SG	13:CM:89:GLY:N	2.88	0.47
1:CA:1457:G:H2'	1:CA:1458:G:C8	2.43	0.47
11:CK:51:LYS:HA	11:CK:55:LYS:HG3	1.96	0.47
25:AY:150:SER:O	25:AY:152:ASP:N	2.47	0.47
43:BI:102:SER:HB2	43:BI:109:ILE:CG2	2.44	0.47
40:DF:132:VAL:O	40:DF:133:ASN:C	2.53	0.47
7:AG:140:ASP:HA	7:AG:143:ARG:CZ	2.45	0.47
13:AM:107:ALA:H	13:AM:108:ARG:HD2	1.79	0.47
35:DA:419:C:O2'	35:DA:420:C:H5'	2.14	0.47
11:CK:102:GLY:O	11:CK:103:LEU:O	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CK:58:PRO:HA	11:CK:90:GLY:HA3	1.96	0.47
1:CA:1346:A:H5'	9:CI:120:ARG:NH1	2.24	0.47
9:CI:65:VAL:CG2	9:CI:66:ARG:H	2.27	0.47
8:CH:86:ILE:HG21	8:CH:133:LEU:CD2	2.44	0.47
8:CH:15:ASN:O	8:CH:16:ALA:C	2.53	0.47
31:D5:30:LEU:HD23	31:D5:41:PRO:HB3	1.96	0.47
5:AE:146:ALA:O	5:AE:148:VAL:N	2.48	0.47
31:B5:40:LYS:HZ3	31:B5:45:VAL:CA	2.26	0.47
31:B5:51:TYR:C	31:B5:56:LYS:HG2	2.35	0.47
29:B3:9:VAL:HG22	29:B3:54:VAL:HA	1.96	0.47
1:CA:515:G:C2	1:CA:537:G:C2	3.03	0.47
54:DX:18:TYR:O	54:DX:21:PHE:HB2	2.14	0.47
3:AC:105:GLU:CG	3:AC:106:VAL:H	2.14	0.47
29:D3:9:VAL:HG22	29:D3:54:VAL:HA	1.96	0.47
1:CA:310:G:O2'	1:CA:311:C:H5'	2.15	0.47
14:CN:6:LEU:O	14:CN:8:GLU:N	2.48	0.47
1:CA:1055:A:C2	1:CA:1056:U:H1'	2.50	0.47
26:D0:38:VAL:CG2	26:D0:59:LEU:HB2	2.45	0.47
5:AE:109:ILE:HD12	5:AE:135:THR:HB	1.97	0.47
1:CA:59:A:H5'	1:CA:60:A:H5'	1.96	0.47
53:DW:20:VAL:O	53:DW:23:LEU:HB2	2.14	0.47
5:CE:6:PHE:HB2	5:CE:34:VAL:CG1	2.45	0.47
13:AM:36:LYS:O	13:AM:37:THR:HG23	2.15	0.47
5:CE:78:HIS:HD2	8:CH:104:ARG:NE	2.12	0.47
1:CA:66:G:C4'	1:CA:173:U:C4	2.98	0.47
1:CA:66:G:C4'	1:CA:173:U:C5	2.93	0.47
26:B0:36:ILE:HA	26:B0:60:PHE:HB3	1.96	0.47
26:B0:77:ARG:HH22	35:BA:857:C:C5'	2.21	0.47
35:DA:292:C:H2'	35:DA:292:C:O2	2.12	0.47
1:AA:729:A:H2'	1:AA:730:G:C8	2.49	0.47
13:AM:3:ARG:HG2	13:AM:9:ILE:HD11	1.95	0.47
1:AA:1300:G:O2'	1:AA:1301:U:O5'	2.26	0.47
15:AO:39:LEU:O	15:AO:42:HIS:HB3	2.14	0.47
1:CA:1238:A:N7	1:CA:1303:C:H1'	2.29	0.47
2:CB:19:HIS:CE1	2:CB:206:ASP:HB2	2.50	0.47
46:BP:58:THR:C	46:BP:60:MET:N	2.66	0.47
1:AA:769:G:H1	1:AA:810:C:H42	1.61	0.47
31:D5:19:ARG:HA	35:DA:2046:G:O5'	2.14	0.47
29:D3:52:HIS:CG	36:DB:83:G:H4'	2.48	0.47
35:DA:1835:G:C5'	35:DA:1836:C:OP2	2.60	0.47
44:DN:137:LYS:CG	44:DN:138:LEU:H	2.25	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CQ:11:VAL:CA	17:CQ:53:LEU:HD11	2.44	0.47
25:AY:116:ARG:HG2	25:AY:116:ARG:NH1	2.25	0.47
35:DA:1935:G:C3'	35:DA:1962:C:H42	2.27	0.47
1:AA:352:C:H2'	1:AA:352:C:O2	2.15	0.47
35:BA:306:U:H2'	35:BA:306:U:O2	2.14	0.47
35:BA:38:A:H2'	35:BA:39:C:C6	2.49	0.47
2:AB:224:GLN:HG3	2:AB:229:VAL:CG2	2.44	0.47
1:AA:1036:G:H2'	1:AA:1036:G:N3	2.28	0.47
1:AA:781:A:C2'	1:AA:782:A:H5'	2.44	0.47
35:BA:1916:A:H3'	35:BA:1917:U:C6	2.50	0.47
3:CC:33:LEU:O	3:CC:36:ASP:HB3	2.14	0.47
35:BA:1317:A:C6	35:BA:1318:C:C4	3.03	0.47
13:AM:7:VAL:HG12	13:AM:7:VAL:O	2.15	0.47
23:AW:3:C:H6	23:AW:3:C:OP2	1.98	0.47
2:AB:15:VAL:HG23	2:AB:209:ARG:HE	1.80	0.47
39:DE:107:THR:O	39:DE:190:GLY:HA2	2.15	0.47
35:DA:2712:U:C1'	35:DA:2712(A):A:C8	2.97	0.47
50:DT:50:ILE:HA	50:DT:99:LEU:CD1	2.43	0.47
50:DT:61:PHE:CZ	50:DT:76:PHE:CB	2.98	0.47
43:BI:92:VAL:O	43:BI:92:VAL:HG13	2.14	0.47
38:BD:12:SER:HB2	38:BD:208:LYS:HB3	1.96	0.47
35:BA:1775:U:H2'	35:BA:1776:G:O5'	2.14	0.47
38:BD:27:THR:O	38:BD:28:GLU:CB	2.61	0.47
38:DD:267:SER:HA	38:DD:270:ILE:HG13	1.96	0.47
38:DD:25:THR:HG23	38:DD:27:THR:HB	1.96	0.47
35:DA:1778:U:H2'	35:DA:1784:A:N6	2.30	0.47
38:DD:25:THR:CG2	38:DD:82:ILE:N	2.77	0.47
38:DD:27:THR:O	38:DD:28:GLU:CB	2.58	0.47
41:DG:88:ILE:CG2	41:DG:89:GLY:N	2.77	0.47
34:B8:35:GLN:HE21	34:B8:36:LYS:HZ3	1.60	0.47
1:AA:1442(A):G:N2	50:BT:118:ARG:HB2	2.30	0.47
50:BT:61:PHE:CZ	50:BT:76:PHE:CB	2.97	0.47
35:BA:1676:A:H2'	35:BA:1677:A:O4'	2.14	0.47
16:AP:2:VAL:O	16:AP:2:VAL:HG22	2.14	0.47
56:BZ:102:LEU:HD12	56:BZ:121:HIS:O	2.14	0.47
35:DA:2571:C:H5'	35:DA:2572:A:C5'	2.45	0.47
35:DA:1578:U:OP2	35:DA:1578:U:H6	1.97	0.47
35:DA:1578:U:H2'	35:DA:1579:A:H5''	1.96	0.47
1:AA:1065:U:H4'	1:AA:1066:C:O5'	2.14	0.47
35:DA:1578:U:C6	35:DA:1578:U:OP2	2.68	0.47
42:DH:86:GLU:N	42:DH:86:GLU:OE1	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BU:61:TRP:O	51:BU:63:VAL:N	2.48	0.47
51:BU:96:ALA:C	51:BU:98:LEU:N	2.68	0.47
42:DH:89:ILE:O	42:DH:161:GLY:O	2.32	0.47
3:AC:29:TYR:HE2	14:AN:37:PHE:CE1	2.32	0.47
54:BX:30:VAL:O	54:BX:31:HIS:C	2.52	0.47
54:BX:58:HIS:C	54:BX:59:VAL:HG22	2.35	0.47
28:B2:14:ARG:O	28:B2:15:LYS:C	2.53	0.47
28:B2:22:GLU:CA	28:B2:25:VAL:HG12	2.44	0.47
54:BX:36:LYS:O	54:BX:37:THR:C	2.52	0.47
54:BX:57:LEU:O	54:BX:58:HIS:CG	2.67	0.47
27:B1:14:VAL:O	27:B1:15:ALA:O	2.33	0.47
27:B1:71:TYR:O	27:B1:74:VAL:HB	2.15	0.47
2:AB:233:SER:C	2:AB:235:SER:H	2.18	0.47
41:BG:104:GLU:O	41:BG:108:ASN:OD1	2.31	0.47
41:BG:108:ASN:O	41:BG:112:PRO:HG2	2.14	0.47
41:BG:111:LEU:O	41:BG:114:ILE:HG13	2.15	0.47
55:DY:86:ARG:HG2	55:DY:87:LYS:H	1.80	0.47
35:DA:902:C:H2'	35:DA:903:C:H6	1.78	0.47
56:DZ:44:PHE:O	56:DZ:48:PHE:N	2.44	0.47
52:DV:34:GLU:HG2	52:DV:35:LEU:H	1.78	0.47
1:AA:1125:U:O4	10:AJ:5:ARG:HD3	2.14	0.47
10:AJ:34:VAL:HA	10:AJ:74:ILE:HA	1.96	0.47
49:BS:89:ARG:HB3	49:BS:97:ARG:HH22	1.80	0.47
36:BB:28:C:H2'	36:BB:29:A:C8	2.50	0.47
49:BS:66:ALA:HA	49:BS:69:VAL:CG1	2.44	0.47
4:CD:120:LEU:HB2	4:CD:126:ILE:HD11	1.96	0.47
4:CD:15:GLU:H	4:CD:15:GLU:CD	2.16	0.47
4:CD:187:ARG:NH1	4:CD:187:ARG:HG2	2.29	0.47
4:CD:102:ASP:HA	4:CD:121:VAL:HG21	1.96	0.47
4:CD:100:ARG:O	4:CD:103:ASN:HB3	2.14	0.47
43:DI:123:LEU:HD11	43:DI:143:SER:O	2.15	0.47
25:AY:36:ALA:HA	25:AY:39:LEU:CD2	2.45	0.47
35:BA:2050:C:H2'	35:BA:2051:A:O4'	2.15	0.47
35:BA:2051:A:C4'	39:BE:141:ILE:HD11	2.45	0.47
35:BA:443:A:OP1	40:BF:46:ARG:CB	2.63	0.47
35:BA:613:G:C6	35:BA:615:G:O6	2.68	0.47
39:BE:120:TRP:CD1	39:BE:155:LYS:HB3	2.49	0.47
34:D8:39:LYS:HZ1	34:D8:43:GLN:HG3	1.80	0.47
27:D1:87:PRO:CB	27:D1:91:LYS:NZ	2.72	0.47
35:DA:393:C:H2'	35:DA:394:A:C8	2.45	0.47
35:BA:669:G:N2	35:BA:670:A:C4	2.83	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:798:G:C6	35:BA:799:G:C6	3.02	0.47
46:BP:35:HIS:CD2	46:BP:35:HIS:O	2.68	0.47
35:BA:1257:C:H2'	35:BA:1258:C:C6	2.50	0.47
35:BA:571:A:O2'	35:BA:573:G:O5'	2.32	0.47
35:BA:814:C:HO2'	35:BA:815:C:H5'	1.79	0.47
40:BF:71:GLY:O	40:BF:73:ALA:N	2.48	0.47
35:BA:195:A:OP1	46:BP:46:LYS:HE2	2.15	0.47
52:BV:72:VAL:O	52:BV:73:SER:CB	2.62	0.47
40:DF:24:LEU:O	40:DF:25:PRO:C	2.52	0.47
40:DF:119:ARG:HH11	40:DF:119:ARG:HG2	1.79	0.47
40:DF:45:ARG:HD2	40:DF:46:ARG:H	1.79	0.47
35:BA:911:A:C4	47:BQ:9:TYR:OH	2.64	0.47
35:DA:1279:G:H2'	35:DA:1280:G:H8	1.80	0.47
20:AT:16:HIS:O	20:AT:19:SER:N	2.47	0.47
36:DB:28:C:H2'	36:DB:29:A:O4'	2.14	0.47
49:DS:101:LEU:HD21	49:DS:103:GLU:CG	2.45	0.47
49:DS:29:PHE:C	49:DS:29:PHE:CD1	2.87	0.47
36:DB:29:A:OP2	49:DS:32:LEU:HB2	2.15	0.47
36:DB:28:C:H2'	36:DB:29:A:C8	2.49	0.47
49:DS:66:ALA:HB1	49:DS:98:VAL:O	2.15	0.47
49:DS:25:ARG:NH2	49:DS:89:ARG:NH1	2.58	0.47
2:CB:12:GLU:C	2:CB:14:GLY:H	2.17	0.47
2:CB:222:ILE:HD13	2:CB:222:ILE:C	2.34	0.47
2:CB:212:GLN:NE2	2:CB:235:SER:HB3	2.30	0.47
2:AB:187:LEU:HD23	2:AB:201:ILE:O	2.14	0.47
35:DA:2079:U:H2'	35:DA:2080:G:H8	1.78	0.47
56:BZ:149:SER:CB	56:BZ:173:ALA:CA	2.90	0.47
1:CA:658:G:O4'	15:CO:22:THR:HB	2.14	0.47
15:CO:53:HIS:O	15:CO:56:LEU:N	2.48	0.47
15:CO:80:ALA:O	15:CO:81:LEU:C	2.53	0.47
2:CB:36:ARG:HB3	2:CB:41:ILE:CD1	2.42	0.47
35:DA:675:A:C6	35:DA:676:A:C6	3.02	0.47
46:DP:23:PRO:HB2	46:DP:33:ARG:CG	2.43	0.47
34:D8:49:VAL:HG12	34:D8:53:PRO:HD3	1.97	0.47
40:DF:89:VAL:O	40:DF:91:GLY:N	2.42	0.47
4:AD:147:ALA:HA	4:AD:182:LYS:HB3	1.96	0.47
4:AD:176:LEU:HD12	4:AD:177:ASP:H	1.78	0.47
19:AS:17:GLU:C	19:AS:19:VAL:H	2.17	0.47
19:AS:36:ARG:NH2	19:AS:72:GLY:HA2	2.30	0.47
35:DA:79:G:H2'	35:DA:80:G:H8	1.79	0.47
55:DY:14:LEU:HD12	55:DY:23:ARG:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2533:A:C3'	35:BA:2534:A:H5''	2.45	0.47
4:AD:32:ALA:O	4:AD:36:ARG:N	2.48	0.47
4:AD:65:ARG:NH1	4:AD:72:GLU:HB2	2.30	0.47
4:AD:13:ARG:HH22	4:AD:36:ARG:HH11	1.63	0.47
47:DQ:16:ARG:HB3	47:DQ:16:ARG:CZ	2.45	0.47
35:DA:958:U:OP2	47:DQ:14:ARG:NH1	2.48	0.47
51:DU:31:SER:HB3	51:DU:34:LYS:CB	2.44	0.47
35:DA:2033:A:HO2'	35:DA:2034:U:P	2.36	0.47
51:DU:35:ALA:O	51:DU:36:ARG:C	2.52	0.47
35:DA:31:C:H2'	35:DA:32:C:O4'	2.14	0.47
25:CY:25:LEU:C	25:CY:179:LYS:HE2	2.35	0.47
25:CY:127:VAL:O	25:CY:130:ARG:N	2.48	0.47
25:CY:164:ILE:O	25:CY:168:PHE:HB2	2.15	0.47
25:CY:2:THR:HG23	25:CY:4:LYS:HB3	1.96	0.47
12:CL:66:VAL:HG21	12:CL:98:TYR:CD1	2.49	0.47
13:CM:114:ARG:C	13:CM:116:THR:H	2.17	0.47
42:DH:25:LYS:HB3	42:DH:32:GLU:OE2	2.15	0.47
25:AY:107:THR:HG23	25:AY:110:ARG:H	1.79	0.47
25:AY:16:LYS:O	25:AY:19:GLU:N	2.48	0.47
25:AY:156:ARG:NH2	47:BQ:80:GLU:HG2	2.30	0.47
11:AK:19:ALA:CB	11:AK:32:ILE:HG12	2.45	0.47
18:AR:85:LEU:CG	18:AR:86:VAL:H	2.19	0.47
42:DH:37:VAL:HG12	42:DH:38:SER:N	2.30	0.47
8:CH:122:ARG:CA	8:CH:125:ARG:HB3	2.40	0.47
26:B0:17:GLN:HG2	35:BA:2261:C:P	2.54	0.47
35:BA:2426:A:C3'	35:BA:2427:C:C5'	2.86	0.47
55:BY:2:ARG:HG2	55:BY:2:ARG:HH11	1.78	0.47
35:BA:105:C:C5'	35:BA:106:C:OP2	2.62	0.47
2:CB:177:ALA:O	2:CB:180:LEU:N	2.48	0.47
13:AM:83:ASP:OD1	13:AM:86:CYS:HB2	2.14	0.47
5:AE:39:GLY:O	5:AE:69:VAL:N	2.48	0.47
43:DI:6:LEU:O	43:DI:8:PRO:N	2.47	0.47
1:AA:513:C:H2'	1:AA:514:C:C6	2.49	0.47
12:AL:89:ARG:HB2	12:AL:89:ARG:CZ	2.43	0.47
1:AA:515:G:C2	1:AA:537:G:C2	3.03	0.47
18:AR:53:ARG:NH1	18:AR:58:LEU:O	2.48	0.47
1:CA:563:A:N3	1:CA:563:A:H2'	2.29	0.47
9:AI:83:ARG:C	9:AI:86:VAL:HG12	2.35	0.47
9:AI:28:VAL:CG2	9:AI:63:ILE:HB	2.44	0.47
7:CG:81:GLY:C	7:CG:83:ALA:H	2.18	0.47
1:AA:1351:U:O5'	1:AA:1351:U:H6	1.98	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1346:A:O3'	1:AA:1347:G:H4'	2.14	0.47
29:B3:7:LYS:O	29:B3:9:VAL:HG13	2.14	0.47
35:DA:2536:G:C6	35:DA:2537:U:C4	3.02	0.47
51:DU:20:LEU:H	51:DU:20:LEU:CD2	2.20	0.47
1:AA:269:C:H2'	1:AA:270:A:C8	2.50	0.47
38:DD:113:VAL:C	38:DD:115:GLN:H	2.14	0.47
35:BA:1938:A:N1	35:BA:2590:A:H1'	2.28	0.47
35:BA:1982:C:H2'	35:BA:1983:C:C6	2.50	0.47
11:CK:30:VAL:CG2	11:CK:68:ALA:HB2	2.43	0.47
35:BA:2012:G:O3'	53:BW:96:ILE:HD11	2.14	0.47
1:AA:279:A:OP2	17:AQ:95:TYR:OH	2.30	0.47
35:DA:2206:G:N2	35:DA:2207:G:C5'	2.72	0.47
35:DA:680:G:O2'	35:DA:681:G:H5'	2.14	0.47
12:CL:41:ARG:NH1	12:CL:41:ARG:HB3	2.18	0.47
7:AG:119:ARG:O	7:AG:122:HIS:N	2.47	0.47
1:CA:122:G:H2'	1:CA:123:C:C6	2.49	0.47
8:AH:31:PHE:HA	8:AH:34:GLU:HG2	1.97	0.47
35:BA:1576:U:H2'	35:BA:1577:C:H6	1.79	0.47
35:BA:2274:A:N6	35:BA:2276:G:C4	2.83	0.47
1:AA:237:C:C5'	17:AQ:25:ARG:NH1	2.77	0.47
35:BA:2168:G:H2'	35:BA:2170:A:OP2	2.14	0.47
26:D0:37:LEU:C	26:D0:38:VAL:CG2	2.83	0.47
26:D0:36:ILE:O	26:D0:36:ILE:HG13	2.15	0.47
35:BA:679:C:O2	35:BA:679:C:H2'	2.14	0.47
42:BH:78:GLY:O	42:BH:136:ILE:HG23	2.15	0.47
5:AE:136:MET:O	5:AE:137:GLU:C	2.53	0.47
3:CC:107:GLN:N	3:CC:107:GLN:CD	2.66	0.47
35:DA:2606:C:O2'	35:DA:2607:G:H5'	2.14	0.47
53:DW:17:VAL:O	53:DW:20:VAL:CG2	2.61	0.47
13:CM:27:LYS:O	13:CM:30:ALA:HB3	2.15	0.47
4:AD:2:GLY:O	4:AD:3:ARG:C	2.52	0.47
20:CT:83:ARG:CA	20:CT:86:ARG:HB3	2.39	0.47
35:BA:31:C:H2'	35:BA:32:C:O4'	2.14	0.47
29:B3:13:ILE:HD12	35:BA:989:G:N7	2.30	0.47
29:D3:17:LYS:HG2	35:DA:969:U:OP1	2.15	0.47
46:DP:58:THR:C	46:DP:60:MET:N	2.66	0.47
54:BX:12:VAL:HG13	54:BX:17:ALA:HB1	1.94	0.47
9:AI:11:LYS:C	9:AI:13:ALA:N	2.68	0.47
1:AA:341:C:H2'	1:AA:342:C:H6	1.80	0.47
15:AO:83:GLU:O	15:AO:83:GLU:HG2	2.15	0.47
1:AA:739:C:O2'	1:AA:740:U:H5'	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:36:ILE:O	15:AO:37:ASN:C	2.53	0.47
15:AO:54:ARG:HG2	15:AO:54:ARG:NH1	2.29	0.47
31:B5:25:LEU:HD12	53:BW:23:LEU:HD11	1.94	0.47
1:CA:1296:C:H4'	1:CA:1302:U:O4	2.15	0.47
1:CA:598:U:H4'	8:CH:94:TYR:CD1	2.49	0.47
23:CW:27:G:H2'	23:CW:28:U:O4'	2.14	0.47
1:CA:1316:G:H2'	1:CA:1317:C:C5'	2.45	0.47
22:CV:41:C:H2'	22:CV:42:C:H6	1.74	0.47
35:BA:481:G:H2'	35:BA:507:A:N1	2.28	0.47
1:AA:689:C:O2	1:AA:689:C:H2'	2.13	0.47
3:AC:127:ARG:HD2	3:AC:127:ARG:N	2.30	0.47
1:CA:1375:A:C4	1:CA:1376:U:C5	3.02	0.47
4:CD:80:GLU:HA	4:CD:80:GLU:OE2	2.15	0.47
35:BA:717:G:H2'	35:BA:718:A:O4'	2.15	0.47
17:AQ:12:SER:HA	17:AQ:14:LYS:NZ	2.30	0.47
40:DF:197:ASP:O	40:DF:200:GLU:HB3	2.14	0.47
1:CA:929:G:C6	1:CA:930:C:C4	3.02	0.47
7:CG:27:ILE:H	7:CG:27:ILE:HD12	1.80	0.47
1:AA:357:G:O2'	1:AA:358:U:H5'	2.15	0.47
35:DA:1110:G:OP1	35:DA:1110:G:H4'	2.15	0.47
1:CA:189(D):C:H1'	1:CA:189(H):G:N2	2.30	0.47
35:BA:301:G:H1'	35:BA:302:C:C6	2.49	0.47
35:BA:304:G:H2'	35:BA:305:U:C6	2.50	0.47
6:AF:38:GLU:HG3	6:AF:65:VAL:HA	1.97	0.47
17:CQ:56:VAL:O	17:CQ:76:LEU:HD12	2.15	0.47
51:BU:24:TYR:HB2	51:BU:29:SER:OG	2.14	0.47
1:CA:77:G:H1	1:CA:92:C:N4	2.11	0.47
1:AA:77:G:H1	1:AA:92:C:N4	2.11	0.47
35:BA:42:G:H2'	35:BA:43:A:H8	1.78	0.47
3:AC:94:LEU:HD12	3:AC:95:THR:N	2.29	0.47
3:CC:207:VAL:O	3:CC:207:VAL:HG12	2.14	0.47
35:DA:1180:C:C2'	35:DA:1181:C:H5'	2.45	0.47
35:DA:366:C:H5''	35:DA:403:U:H3	1.79	0.47
1:AA:1494:G:H5''	35:BA:1913:A:N6	2.29	0.47
35:DA:1622:G:C2	35:DA:1623:G:C8	3.02	0.47
11:AK:33:THR:HG22	11:AK:39:PRO:HA	1.96	0.47
35:DA:118:A:OP2	35:DA:119:A:H5''	2.15	0.47
35:BA:1917:U:H2'	35:BA:1918:A:H8	1.79	0.47
2:AB:221:LEU:O	2:AB:221:LEU:HD22	2.15	0.47
26:B0:20:ARG:CD	26:B0:20:ARG:N	2.78	0.47
3:CC:40:ARG:O	3:CC:44:GLU:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:42:GLU:O	6:AF:44:GLY:N	2.48	0.47
35:DA:2531:A:O2'	35:DA:2532:G:H5'	2.13	0.47
35:DA:1910:G:O2'	35:DA:1911:U:H5'	2.15	0.47
47:BQ:77:LYS:O	47:BQ:79:LEU:N	2.39	0.47
35:BA:751:A:H62	35:BA:789:A:N6	2.13	0.47
1:AA:1400:C:H5'	24:AX:18:C:N4	2.30	0.47
35:DA:2357:U:H2'	35:DA:2358:G:H5''	1.96	0.47
35:DA:2016:U:H2'	35:DA:2017:U:C6	2.50	0.47
39:DE:13:ARG:HA	39:DE:22:PRO:HA	1.97	0.47
45:DO:23:ARG:HG3	45:DO:24:VAL:N	2.30	0.47
50:DT:110:ILE:CG2	50:DT:111:ARG:N	2.78	0.47
43:BI:83:ALA:O	43:BI:144:VAL:HG13	2.15	0.47
9:CI:126:SER:O	9:CI:127:LYS:CB	2.60	0.47
35:DA:1778:U:C5	35:DA:1784:A:C2	3.03	0.47
38:DD:62:TYR:OH	38:DD:64:ILE:HD12	2.15	0.47
47:DQ:35:VAL:CG2	47:DQ:101:ARG:O	2.62	0.47
39:BE:8:LYS:HE3	39:BE:188:VAL:HG13	1.95	0.47
35:BA:1952:A:P	45:BO:44:LYS:HZ3	2.37	0.47
45:BO:87:ILE:HG13	45:BO:91:LEU:CD1	2.45	0.47
35:DA:1496:A:H2'	35:DA:1498:C:H5	1.79	0.47
1:AA:1060:C:H4'	10:AJ:52:GLY:N	2.30	0.47
1:AA:951:G:C6	1:AA:1231:G:C6	3.02	0.47
28:B2:50:ILE:HG23	28:B2:54:LYS:HZ3	1.80	0.47
35:BA:2200:C:N4	35:BA:2223:G:H1	2.08	0.47
54:DX:35:THR:HG23	54:DX:36:LYS:N	2.30	0.47
42:BH:84:SER:O	42:BH:85:LYS:CB	2.60	0.47
56:DZ:126:VAL:HA	56:DZ:164:ALA:HB3	1.97	0.47
56:DZ:29:TYR:O	56:DZ:30:ASN:HB3	2.15	0.47
51:DU:74:LEU:HD11	51:DU:79:PHE:HB2	1.96	0.47
49:BS:26:LEU:HD13	49:BS:87:PHE:HD1	1.80	0.47
4:CD:114:ARG:O	4:CD:117:ALA:HB3	2.15	0.47
35:BA:2513:G:H2'	35:BA:2514:U:C6	2.49	0.47
39:BE:119:ARG:HD2	39:BE:120:TRP:CE2	2.50	0.47
44:DN:67:LEU:C	44:DN:69:GLN:N	2.68	0.47
35:BA:809:G:H2'	35:BA:810:U:C6	2.50	0.47
35:BA:836:G:C5	35:BA:837:C:N4	2.83	0.47
35:BA:814:C:C5	46:BP:27:HIS:CE1	3.03	0.47
48:DR:87:TYR:OH	48:DR:116:LEU:HD22	2.14	0.47
1:AA:59:A:C5'	1:AA:60:A:C5'	2.85	0.47
35:BA:1279:G:H2'	35:BA:1280:G:C8	2.49	0.47
48:BR:55:ALA:CB	48:BR:79:LEU:HD12	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DS:101:LEU:O	49:DS:101:LEU:HD13	2.13	0.47
35:DA:2334:G:C5'	49:DS:13:ARG:HG2	2.34	0.47
2:AB:85:ALA:HB1	2:AB:92:TYR:HB3	1.96	0.47
35:DA:2242:G:H2'	35:DA:2243:U:O4'	2.15	0.47
18:CR:36:ASN:HD21	18:CR:40:LEU:HD21	1.80	0.47
2:CB:193:ASP:O	2:CB:194:PRO:O	2.32	0.47
2:CB:41:ILE:N	2:CB:41:ILE:CD1	2.78	0.47
35:DA:2070:G:C2	35:DA:2071:A:C4	3.02	0.47
4:AD:97:LEU:CD2	4:AD:97:LEU:O	2.63	0.47
55:DY:38:ILE:CG2	55:DY:39:VAL:N	2.77	0.47
1:AA:564:C:C5	17:AQ:31:LEU:HD11	2.49	0.47
4:AD:31:CYS:C	4:AD:33:MET:H	2.18	0.47
1:CA:1499:A:O2'	1:CA:1500:A:H5'	2.14	0.47
35:DA:562:U:O2'	35:DA:563:G:H5''	2.14	0.47
1:AA:1108:G:H2'	1:AA:1108:G:N3	2.30	0.47
1:CA:1446:U:H4'	1:CA:1447:A:C6	2.50	0.47
20:CT:100:ILE:CD1	20:CT:100:ILE:N	2.70	0.47
25:AY:63:PRO:CB	25:AY:64:ARG:NH2	2.77	0.47
17:CQ:34:LYS:O	17:CQ:36:ILE:HG12	2.14	0.47
12:AL:22:SER:C	12:AL:24:VAL:N	2.68	0.47
43:BI:109:ILE:HD13	43:BI:111:PRO:HD3	1.96	0.47
35:DA:2747:G:C2	35:DA:2754:U:C4	3.03	0.47
35:DA:2752:C:C5	35:DA:2753:A:N7	2.82	0.47
35:BA:79:G:H2'	35:BA:80:G:H8	1.80	0.47
1:AA:1306:A:H2'	1:AA:1307:U:O4'	2.15	0.47
5:CE:39:GLY:O	5:CE:69:VAL:N	2.48	0.47
9:AI:93:ARG:C	9:AI:95:LYS:H	2.18	0.47
35:DA:1175:U:C4'	35:DA:1176:G:H3'	2.45	0.47
42:DH:13:LYS:CA	42:DH:13:LYS:HE2	2.36	0.47
15:CO:11:VAL:HG21	15:CO:34:LEU:CD2	2.45	0.47
53:BW:86:LEU:HD12	53:BW:87:PRO:CD	2.45	0.47
8:AH:87:SER:HB3	8:AH:132:GLU:OE2	2.14	0.47
1:CA:122:G:H2'	1:CA:123:C:H6	1.79	0.47
40:DF:12:LEU:O	40:DF:14:PRO:HD3	2.15	0.47
13:CM:74:VAL:HA	13:CM:77:ASN:HD22	1.80	0.47
35:DA:1686:C:H3'	35:DA:1687:G:H8	1.80	0.47
1:AA:1238:A:N7	1:AA:1303:C:H1'	2.30	0.47
35:BA:1289:C:O2'	35:BA:1290:C:H5'	2.15	0.47
38:BD:247:ALA:CB	38:BD:253:GLN:HA	2.45	0.47
35:BA:1363:C:H2'	35:BA:1364:G:H8	1.80	0.47
1:AA:1109:C:O2'	1:AA:1110:A:H5'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:596:C:O2	1:CA:596:C:H2'	2.14	0.47
1:CA:596:C:O2	1:CA:597:G:C8	2.67	0.47
35:DA:1448:G:H5'	35:DA:1449:A:OP1	2.14	0.47
35:BA:1138:G:H1'	44:BN:105:GLY:O	2.14	0.47
35:BA:2292:C:H2'	35:BA:2293:C:C6	2.50	0.47
9:AI:48:GLU:N	9:AI:49:PRO:CD	2.76	0.47
41:BG:100:TRP:HA	41:BG:100:TRP:CE3	2.50	0.47
1:CA:929:G:C2'	1:CA:930:C:H5'	2.44	0.47
1:AA:629:G:H2'	1:AA:630:G:O4'	2.14	0.47
35:BA:694:U:H2'	35:BA:695:G:O5'	2.14	0.47
42:DH:30:LYS:NZ	42:DH:81:GLU:HA	2.30	0.47
1:AA:334:C:C2'	1:AA:335:C:H5'	2.45	0.47
35:DA:845:G:OP2	35:DA:845:G:H8	1.97	0.47
1:CA:1015:A:H2'	1:CA:1016:A:H8	1.79	0.47
1:CA:44:G:N2	1:CA:45:U:H1'	2.30	0.47
11:AK:34:ASP:HB2	11:AK:35:PRO:CD	2.44	0.47
35:BA:2663:G:O2'	35:BA:2664:G:H5'	2.14	0.47
1:AA:509:A:H4'	1:AA:510:A:OP1	2.15	0.47
35:BA:751:A:H62	35:BA:789:A:H62	1.63	0.47
1:CA:27:G:H2'	1:CA:28:G:H8	1.79	0.47
7:CG:115:ARG:HB2	7:CG:118:VAL:HG21	1.96	0.47
9:AI:97:LYS:HB3	9:AI:98:PRO:HD3	1.96	0.47
1:CA:1383:C:O2'	1:CA:1384:C:H5'	2.14	0.47
39:DE:19:ARG:O	39:DE:19:ARG:HG3	2.14	0.47
7:AG:156:TRP:H	7:AG:156:TRP:HD1	1.63	0.47
23:AW:75:C:C5	23:AW:76:C:N3	2.82	0.47
35:BA:2094:G:P	43:BI:22:LYS:HD2	2.55	0.47
1:AA:39:G:H2'	1:AA:40:C:H6	1.80	0.47
45:DO:81:ASP:CG	45:DO:81:ASP:O	2.53	0.47
50:DT:31:SER:O	50:DT:32:TYR:O	2.33	0.47
50:DT:33:LYS:HE2	50:DT:43:GLN:OE1	2.15	0.47
50:DT:61:PHE:CE2	50:DT:76:PHE:HB3	2.50	0.47
50:DT:26:ASP:O	50:DT:88:ILE:HB	2.15	0.47
1:CA:961:U:O2'	1:CA:962:C:H5'	2.15	0.47
1:CA:972:C:OP2	10:CJ:57:LYS:HE2	2.15	0.47
38:BD:213:ARG:O	38:BD:215:LEU:N	2.48	0.47
38:DD:211:ARG:HH11	38:DD:211:ARG:HG2	1.79	0.47
35:BA:2758:A:C3'	35:BA:2759:G:H5''	2.44	0.47
41:DG:60:LEU:HA	41:DG:63:ILE:HG12	1.96	0.47
34:B8:30:ARG:NE	46:BP:62:LEU:HB2	2.30	0.47
45:BO:105:GLU:HA	45:BO:108:GLU:CD	2.35	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:B2:12:GLU:O	28:B2:12:GLU:OE2	2.32	0.47
39:DE:47:VAL:HG12	39:DE:49:LEU:HD11	1.97	0.47
35:DA:1860:G:H2'	35:DA:1861:G:C8	2.50	0.47
27:B1:87:PRO:CD	27:B1:88:LYS:H	2.27	0.47
41:BG:85:GLY:C	41:BG:87:PRO:HD3	2.35	0.47
35:DA:300:A:H5''	55:DY:97:ARG:NH1	2.30	0.47
35:DA:1341:U:H5'	54:DX:57:LEU:CD2	2.45	0.47
42:BH:89:ILE:O	42:BH:161:GLY:O	2.33	0.47
47:DQ:32:TYR:HA	47:DQ:132:VAL:O	2.14	0.47
56:DZ:10:ARG:HB2	56:DZ:36:LYS:O	2.15	0.47
51:DU:111:GLU:O	51:DU:113:ALA:N	2.48	0.47
35:DA:2383:G:H2'	35:DA:2384:G:C8	2.50	0.47
49:BS:38:GLN:CD	49:BS:47:THR:HG23	2.35	0.47
4:CD:101:LEU:HD23	4:CD:121:VAL:CG1	2.44	0.47
43:DI:88:ILE:HG13	43:DI:122:GLU:HA	1.96	0.47
40:BF:45:ARG:CD	40:BF:46:ARG:H	2.28	0.47
27:D1:83:GLU:CG	27:D1:86:SER:CB	2.92	0.47
34:B8:4:MET:HG3	34:B8:4:MET:O	2.15	0.47
35:BA:802:A:H2'	35:BA:802:A:N3	2.29	0.47
40:BF:89:VAL:CG1	40:BF:90:PHE:H	2.23	0.47
52:BV:90:PRO:CD	52:BV:91:TYR:H	2.26	0.47
40:DF:28:ILE:N	40:DF:28:ILE:CD1	2.78	0.47
55:BY:86:ARG:HG2	55:BY:87:LYS:H	1.78	0.47
47:BQ:73:PRO:HG3	47:BQ:93:TYR:CE2	2.50	0.47
48:DR:29:LEU:HG	48:DR:79:LEU:HD23	1.97	0.47
49:DS:19:LYS:HB3	49:DS:20:ARG:NH2	2.30	0.47
49:DS:87:PHE:HZ	49:DS:97:ARG:HH21	1.61	0.47
27:D1:25:LYS:O	27:D1:26:ARG:O	2.33	0.47
44:BN:17:ASP:OD2	44:BN:17:ASP:O	2.33	0.47
35:DA:252:G:OP2	46:DP:50:ARG:NH1	2.47	0.47
1:AA:407:G:N1	1:AA:408:A:C5	2.83	0.47
1:AA:408:A:C2	1:AA:409:G:C4	3.03	0.47
19:AS:6:LYS:CD	19:AS:6:LYS:N	2.78	0.47
55:DY:28:LYS:CE	55:DY:37:VAL:HA	2.45	0.47
55:DY:2:ARG:HH11	55:DY:2:ARG:HG2	1.80	0.47
4:AD:60:GLU:O	4:AD:61:LYS:C	2.54	0.47
47:DQ:88:GLY:O	47:DQ:89:ASN:CB	2.61	0.47
6:AF:27:GLN:O	6:AF:31:GLU:HG3	2.15	0.47
35:DA:447:A:C4	35:DA:473:G:N7	2.83	0.47
25:CY:120:GLN:O	25:CY:121:TYR:C	2.53	0.47
25:CY:15:GLN:N	25:CY:168:PHE:CZ	2.82	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:CU:13:ILE:HA	21:CU:22:ARG:NH1	2.30	0.47
1:CA:552:U:H2'	1:CA:553:A:C8	2.50	0.47
13:CM:90:LEU:O	13:CM:91:ARG:HB2	2.15	0.47
19:CS:63:THR:HG22	19:CS:66:MET:CE	2.45	0.47
39:BE:132:HIS:CD2	39:BE:135:HIS:NE2	2.82	0.47
35:BA:2019:A:N1	35:BA:2020:A:C4	2.82	0.47
52:BV:78:LYS:HD3	52:BV:79:VAL:CA	2.44	0.47
1:CA:603:U:H2'	1:CA:604:G:C8	2.50	0.47
26:B0:11:ARG:O	26:B0:11:ARG:HG2	2.15	0.47
55:BY:18:GLY:C	55:BY:20:TYR:N	2.66	0.47
1:AA:1226:C:H5'	19:AS:80:TYR:CE2	2.50	0.47
42:BH:17:VAL:HG12	42:BH:19:VAL:HG23	1.97	0.47
8:AH:35:ILE:N	8:AH:35:ILE:HD13	2.30	0.47
35:DA:744:G:OP1	39:DE:132:HIS:CB	2.63	0.47
9:AI:37:PHE:CZ	9:AI:74:ILE:HG12	2.49	0.47
8:CH:47:GLY:O	8:CH:62:TYR:N	2.39	0.47
9:CI:27:THR:O	9:CI:28:VAL:CG2	2.63	0.47
35:BA:626:U:H5''	35:BA:627:A:H5'	1.96	0.47
1:CA:625:G:O2'	1:CA:626:U:H5'	2.14	0.47
40:BF:170:LEU:HD23	40:BF:173:VAL:HB	1.97	0.47
35:BA:1271:G:C2	35:BA:1617:C:H4'	2.50	0.47
53:BW:10:VAL:HG23	53:BW:101:SER:O	2.15	0.47
35:DA:2205:C:C2	35:DA:2220:G:N1	2.83	0.47
7:AG:122:HIS:O	7:AG:125:MET:HB3	2.14	0.47
35:DA:2831:G:O4'	35:DA:2883:A:C2	2.68	0.47
3:AC:155:GLY:HA3	3:AC:163:ALA:CB	2.43	0.47
17:AQ:60:ILE:HG12	17:AQ:61:GLU:N	2.30	0.47
35:BA:2171:A:C8	35:BA:2172:U:C5	3.03	0.47
35:DA:1006:C:H2'	35:DA:1007:C:H6	1.79	0.47
42:DH:157:TYR:CD1	42:DH:170:ARG:O	2.68	0.47
4:AD:4:TYR:O	4:AD:5:ILE:HB	2.14	0.47
3:AC:178:LEU:C	3:AC:180:ALA:H	2.17	0.47
20:CT:83:ARG:HA	20:CT:86:ARG:HD3	1.96	0.47
1:AA:596:C:O2	1:AA:597:G:C8	2.68	0.47
13:AM:10:PRO:CB	13:AM:18:ALA:HB1	2.44	0.47
38:DD:31:LYS:O	38:DD:32:SER:O	2.33	0.47
35:DA:1424:G:OP1	38:DD:33:LEU:HD21	2.15	0.47
1:AA:741:G:H5'	15:AO:39:LEU:HD21	1.96	0.47
15:AO:39:LEU:HD12	15:AO:56:LEU:HD12	1.97	0.47
29:D3:45:GLY:HA3	35:DA:852:G:H5'	1.95	0.47
35:DA:2487:G:O2'	35:DA:2488:A:H5'	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:149:A:C2	1:AA:150:C:C4	3.03	0.47
56:DZ:100:VAL:O	56:DZ:101:PRO:O	2.31	0.47
35:BA:1210:A:H1'	35:BA:1212:G:C4	2.50	0.47
35:DA:314:A:O2'	35:DA:315:G:H5'	2.14	0.47
35:DA:315:G:H2'	35:DA:316:C:C6	2.50	0.47
1:CA:355:C:O2'	1:CA:356:A:H5'	2.15	0.47
37:BC:76:ALA:C	37:BC:78:ALA:H	2.16	0.47
35:BA:1441:G:O2'	35:BA:1442:G:H5'	2.15	0.47
35:DA:2517:C:C6	35:DA:2542:A:C2	3.03	0.47
17:AQ:62:SER:OG	17:AQ:72:ARG:HG3	2.15	0.47
1:AA:1445:C:H6	1:AA:1445:C:O5'	1.98	0.47
37:DC:124:GLY:O	37:DC:125:SER:CB	2.63	0.47
35:DA:1048:A:N6	35:DA:1106:A:C8	2.83	0.47
8:AH:95:VAL:HG23	8:AH:95:VAL:O	2.15	0.47
4:CD:42:GLN:C	4:CD:42:GLN:OE1	2.54	0.47
15:CO:47:LYS:H	15:CO:47:LYS:HD3	1.80	0.47
35:DA:2497:A:O5'	35:DA:2497:A:C8	2.68	0.47
35:BA:2366:A:H2'	35:BA:2367:G:O4'	2.15	0.47
38:BD:85:ASP:OD1	38:BD:87:ASN:HB2	2.15	0.47
1:CA:611:A:O2'	1:CA:612:C:H5'	2.15	0.47
35:DA:1998:G:H4'	35:DA:2724:C:H4'	1.97	0.47
43:BI:119:PRO:O	43:BI:121:LYS:N	2.48	0.47
1:CA:1223:C:P	19:CS:78:ARG:HH12	2.38	0.47
38:DD:106:ILE:HD13	38:DD:157:ARG:HB2	1.97	0.47
41:DG:63:ILE:HB	41:DG:141:PHE:CD1	2.50	0.47
41:DG:57:ALA:O	41:DG:61:ALA:HB2	2.15	0.47
41:DG:91:ARG:HD2	41:DG:92:VAL:CA	2.44	0.47
35:BA:2415:G:C2	35:BA:2416:C:C2	3.03	0.47
45:BO:14:THR:HG21	45:BO:86:ILE:HG12	1.96	0.47
50:BT:45:PHE:CZ	50:BT:74:ARG:HB2	2.49	0.47
50:BT:88:ILE:HG22	50:BT:89:VAL:HG23	1.97	0.47
35:BA:997:G:OP1	51:BU:93:LYS:HE3	2.15	0.47
28:B2:21:LEU:O	28:B2:25:VAL:HG12	2.14	0.47
28:B2:57:ILE:HD11	28:B2:59:ARG:CZ	2.45	0.47
54:BX:75:ASP:C	54:BX:76:ARG:HG3	2.35	0.47
39:DE:47:VAL:CG1	39:DE:49:LEU:HD11	2.44	0.47
27:B1:66:HIS:O	27:B1:69:LYS:HB2	2.15	0.47
41:BG:86:MET:O	41:BG:87:PRO:O	2.32	0.47
55:DY:77:PRO:O	55:DY:78:ALA:CB	2.64	0.47
56:DZ:51:ALA:O	56:DZ:52:SER:OG	2.29	0.47
35:DA:1011:G:C5	35:DA:1151:G:N1	2.82	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2041:U:H2'	35:DA:2042:A:C8	2.49	0.47
35:DA:996:A:H2'	35:DA:997:G:C8	2.47	0.47
45:DO:113:LYS:O	45:DO:114:ILE:C	2.51	0.47
44:BN:84:LYS:O	44:BN:85:ILE:HD13	2.15	0.47
40:BF:155:LEU:HD13	40:BF:174:VAL:HB	1.96	0.47
40:BF:45:ARG:CG	40:BF:46:ARG:N	2.78	0.47
35:BA:2572:A:OP2	39:BE:144:ARG:HB2	2.14	0.47
27:D1:83:GLU:HG2	27:D1:86:SER:CB	2.43	0.47
35:BA:1163:G:C2	35:BA:1164:G:C8	3.03	0.47
55:BY:86:ARG:CB	55:BY:88:LYS:HZ2	2.22	0.47
48:DR:97:VAL:HG13	48:DR:114:VAL:HG23	1.96	0.47
3:AC:182:ILE:HG12	3:AC:203:PHE:HD1	1.79	0.47
1:AA:1428:A:H2'	1:AA:1429:C:H6	1.73	0.47
48:BR:94:TYR:CD1	48:BR:94:TYR:N	2.82	0.47
49:DS:15:ARG:HA	49:DS:17:ARG:HG2	1.97	0.47
49:DS:17:ARG:NE	49:DS:89:ARG:NH2	2.63	0.47
49:DS:66:ALA:CA	49:DS:69:VAL:HG12	2.45	0.47
49:DS:90:GLY:C	49:DS:92:TYR:H	2.15	0.47
44:DN:56:ASN:CA	44:DN:125:GLY:H	2.26	0.47
44:DN:28:THR:HG22	44:DN:29:LYS:N	2.30	0.47
44:DN:29:LYS:C	44:DN:31:ALA:N	2.68	0.47
35:BA:8:A:H2	35:BA:2896:C:O2	1.97	0.47
1:CA:661:G:H1	1:CA:744:C:H42	1.62	0.47
6:CF:40:VAL:HG23	6:CF:62:TRP:O	2.15	0.47
6:CF:71:ARG:O	6:CF:72:VAL:C	2.53	0.47
35:DA:1223:G:C5	35:DA:1225:G:OP2	2.68	0.47
35:DA:1257:C:C2	35:DA:1258:C:C5	3.03	0.47
40:DF:71:GLY:O	40:DF:73:ALA:N	2.48	0.47
47:DQ:74:TYR:HB3	47:DQ:91:GLU:OE2	2.14	0.47
35:BA:2482:G:H1	47:BQ:53:ALA:HB2	1.80	0.47
1:CA:1513:A:C2	1:CA:1514:C:C4	3.03	0.47
1:CA:1524:C:C2	1:CA:1525:G:C8	3.03	0.47
1:CA:779:C:O2'	11:CK:120:ARG:HD3	2.15	0.47
35:DA:2031:A:C6	35:DA:2498:C:H1'	2.50	0.47
25:CY:160:GLU:O	25:CY:163:LYS:HB3	2.15	0.47
25:CY:165:THR:O	25:CY:166:ASP:O	2.33	0.47
25:CY:2:THR:O	25:CY:2:THR:HG23	2.15	0.47
21:CU:5:ASP:OD1	21:CU:6:ARG:N	2.47	0.47
1:AA:376:G:O3'	16:AP:5:ARG:HD2	2.15	0.47
1:AA:375:U:OP1	16:AP:69:THR:HG21	2.14	0.47
42:DH:18:GLU:HB3	42:DH:25:LYS:HD2	1.96	0.47

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

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1609:A:C5	35:BA:1616:A:C8	3.03	0.46
35:BA:464:U:H2'	35:BA:465:G:C8	2.50	0.46
42:DH:38:SER:C	42:DH:40:GLU:H	2.18	0.46
42:DH:61:HIS:C	42:DH:63:SER:H	2.18	0.46
12:AL:58:VAL:CG1	12:AL:59:ARG:N	2.77	0.46
8:CH:110:ALA:HA	8:CH:136:GLU:HA	1.96	0.46
8:AH:83:ILE:CD1	8:AH:137:VAL:HG22	2.38	0.46
42:BH:19:VAL:HG22	42:BH:24:VAL:HG13	1.96	0.46
25:CY:92:PRO:HA	25:CY:100:TYR:O	2.15	0.46
35:DA:287:C:H2'	35:DA:288:C:O4'	2.15	0.46
18:CR:53:ARG:NH1	18:CR:58:LEU:O	2.48	0.46
29:B3:48:GLU:O	29:B3:51:ALA:HB2	2.15	0.46
35:BA:287:C:H2'	35:BA:288:C:O4'	2.16	0.46
33:D7:34:ARG:HE	33:D7:39:ARG:NE	2.12	0.46
33:D7:31:LEU:HD23	33:D7:42:LEU:HD22	1.97	0.46
1:CA:450:G:H4'	16:CP:41:PRO:O	2.15	0.46
46:DP:75:ILE:HD13	46:DP:77:ARG:NH2	2.30	0.46
1:AA:678:U:H3	1:AA:713:G:N2	2.12	0.46
13:CM:22:ILE:HD12	13:CM:22:ILE:N	2.30	0.46
1:CA:1054:C:O2	1:CA:1054:C:H2'	2.14	0.46
26:D0:29:GLN:HB2	26:D0:67:VAL:HG21	1.97	0.46
1:CA:322:C:O2'	1:CA:323:U:H5'	2.15	0.46
7:CG:50:ILE:HG22	7:CG:50:ILE:O	2.15	0.46
35:BA:2778:A:H4'	35:BA:2779:U:OP2	2.14	0.46
26:D0:40:GLN:O	26:D0:57:PHE:HB2	2.15	0.46
1:CA:1255:G:O2'	1:CA:1258:G:H1'	2.15	0.46
25:CY:107:THR:HA	25:CY:111:ARG:HH12	1.80	0.46
1:AA:1184:G:C2	1:AA:1185:G:C5	3.03	0.46
35:BA:1339:G:N2	35:BA:1340:U:H5	2.12	0.46
35:BA:348:G:H2'	35:BA:349:G:H8	1.80	0.46
1:CA:1303:C:C2'	1:CA:1303:C:O2	2.60	0.46
35:DA:432:A:C6	35:DA:433:C:C4	3.02	0.46
35:BA:1450:G:H1	35:BA:1462:C:H42	1.63	0.46
4:AD:80:GLU:HA	4:AD:80:GLU:OE2	2.15	0.46
35:DA:185:U:O2'	35:DA:186:G:H5'	2.16	0.46
25:CY:46:TYR:C	25:CY:48:ALA:N	2.68	0.46
35:BA:2088:G:H2'	35:BA:2089:U:O4'	2.15	0.46
53:BW:65:LEU:CD2	53:BW:67:ASP:HB2	2.45	0.46
1:AA:885:G:H1	1:AA:912:C:N4	2.13	0.46
1:CA:885:G:H2'	1:CA:886:G:C8	2.51	0.46
41:BG:42:GLY:HA2	41:BG:89:GLY:CA	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:42:ILE:HG23	7:CG:117:ALA:CB	2.45	0.46
37:DC:75:LEU:HA	37:DC:94:VAL:HG22	1.96	0.46
35:BA:2824:C:H2'	35:BA:2825:C:O4'	2.14	0.46
35:DA:701:G:C2'	35:DA:702:G:H5'	2.45	0.46
18:CR:30:ASP:O	18:CR:32:ARG:N	2.45	0.46
2:CB:114:ARG:HA	2:CB:117:GLU:HB2	1.96	0.46
35:BA:2531:A:O2'	35:BA:2532:G:H5'	2.15	0.46
35:DA:210:C:H2'	35:DA:211:A:H8	1.80	0.46
3:AC:41:GLY:O	3:AC:45:LYS:HG3	2.15	0.46
47:DQ:77:LYS:C	47:DQ:79:LEU:H	2.19	0.46
35:DA:791:C:O2	35:DA:794:G:H5'	2.15	0.46
35:BA:1317:A:C2	35:BA:1318:C:C2	3.03	0.46
7:CG:115:ARG:O	7:CG:118:VAL:HG23	2.15	0.46
15:AO:41:GLU:O	15:AO:44:LYS:HB3	2.15	0.46
41:BG:58:GLN:HG3	41:BG:59:GLU:N	2.30	0.46
45:DO:25:LEU:HD13	45:DO:38:VAL:HG11	1.96	0.46
45:DO:104:ARG:HG2	45:DO:105:GLU:OE1	2.14	0.46
45:DO:23:ARG:HH11	45:DO:23:ARG:HG2	1.81	0.46
45:DO:68:GLU:CD	45:DO:78:ARG:NH1	2.67	0.46
50:DT:30:VAL:O	50:DT:31:SER:HB3	2.15	0.46
50:DT:96:ARG:HG2	50:DT:96:ARG:NH1	2.25	0.46
50:DT:96:ARG:CG	50:DT:96:ARG:NH1	2.75	0.46
41:DG:6:ALA:O	41:DG:10:LYS:N	2.49	0.46
35:BA:1827:C:H2'	35:BA:1828:G:O4'	2.14	0.46
35:BA:729:G:O5'	38:BD:208:LYS:NZ	2.48	0.46
38:BD:265:PRO:HG2	38:BD:266:SER:N	2.22	0.46
35:DA:1566:A:OP1	38:DD:211:ARG:NE	2.48	0.46
35:DA:1795:C:N4	35:DA:1824:G:H1	2.12	0.46
35:DA:782:A:H4'	35:DA:783:A:O5'	2.15	0.46
41:DG:132:ASN:ND2	41:DG:157:ILE:C	2.68	0.46
41:DG:40:ASN:N	41:DG:157:ILE:HA	2.30	0.46
45:BO:104:ARG:NH1	45:BO:104:ARG:CB	2.77	0.46
45:BO:88:ASN:O	45:BO:91:LEU:N	2.44	0.46
56:BZ:121:HIS:HB3	56:BZ:124:ILE:HG22	1.97	0.46
56:BZ:53:ILE:O	56:BZ:53:ILE:HG13	2.14	0.46
39:DE:119:ARG:HD2	39:DE:120:TRP:CD1	2.51	0.46
39:DE:120:TRP:CD1	39:DE:155:LYS:HB3	2.51	0.46
35:BA:537:C:H3'	35:BA:538:G:H8	1.80	0.46
51:BU:59:ARG:O	51:BU:60:LEU:C	2.52	0.46
52:BV:34:GLU:HG2	52:BV:35:LEU:H	1.80	0.46
39:DE:44:TYR:O	39:DE:45:THR:OG1	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:76:C:H2'	35:DA:77:C:C6	2.48	0.46
41:BG:28:VAL:CG1	41:BG:28:VAL:O	2.62	0.46
56:DZ:146:ILE:HG22	56:DZ:174:VAL:CG1	2.42	0.46
56:DZ:150:LEU:HD22	56:DZ:150:LEU:N	2.27	0.46
1:AA:1057:G:C2'	1:AA:1058:G:H5'	2.45	0.46
47:DQ:48:GLU:O	47:DQ:52:VAL:HG12	2.15	0.46
32:D6:11:LEU:O	32:D6:24:GLU:N	2.48	0.46
49:BS:26:LEU:HG	49:BS:39:ILE:HD11	1.98	0.46
49:BS:95:HIS:O	49:BS:96:GLY:C	2.53	0.46
4:CD:103:ASN:O	4:CD:106:TYR:N	2.48	0.46
4:CD:153:ARG:NH2	4:CD:181:MET:HG2	2.30	0.46
4:CD:199:ASN:OD1	4:CD:201:GLN:HB2	2.14	0.46
47:BQ:34:LEU:HD11	47:BQ:129:THR:CG2	2.45	0.46
44:BN:87:LEU:O	44:BN:88:GLU:C	2.52	0.46
40:BF:192:LEU:HD21	40:BF:194:MET:CE	2.44	0.46
27:D1:85:LEU:H	27:D1:85:LEU:HD23	1.78	0.46
34:B8:56:GLU:CA	34:B8:59:LYS:HZ1	2.28	0.46
40:DF:20:LEU:HD13	40:DF:203:GLN:OE1	2.15	0.46
47:BQ:16:ARG:HB3	47:BQ:16:ARG:CZ	2.45	0.46
47:BQ:86:GLY:C	47:BQ:88:GLY:H	2.18	0.46
1:AA:1422:G:N2	1:AA:1479:C:C2	2.83	0.46
1:AA:1433:A:O2'	1:AA:1434:A:H5'	2.15	0.46
1:AA:332:G:O2'	1:AA:333:G:H5'	2.15	0.46
48:BR:28:LEU:HA	48:BR:34:ILE:CD1	2.46	0.46
2:AB:54:THR:HG21	2:AB:201:ILE:CD1	2.44	0.46
35:BA:2476:A:C2	35:BA:2477:C:C6	3.03	0.46
6:CF:16:GLN:O	6:CF:19:LEU:N	2.48	0.46
6:CF:30:LEU:HD23	6:CF:75:LEU:CD2	2.44	0.46
35:DA:577:G:O2'	35:DA:1254:A:OP1	2.33	0.46
35:DA:814:C:C5	46:DP:27:HIS:CE1	3.04	0.46
35:DA:814:C:H1'	35:DA:1225:G:N2	2.30	0.46
1:AA:402:G:O2'	1:AA:403:C:H5'	2.15	0.46
1:AA:435:C:O2	1:AA:435:C:H2'	2.14	0.46
19:AS:15:LEU:H	19:AS:15:LEU:CD2	2.26	0.46
4:AD:59:ARG:NH2	4:AD:66:ARG:NH2	2.61	0.46
47:DQ:73:PRO:HG3	47:DQ:93:TYR:CD2	2.51	0.46
1:CA:1496:C:H2'	1:CA:1497:G:O4'	2.15	0.46
1:CA:1514:C:H2'	1:CA:1515:C:C6	2.50	0.46
1:CA:714:G:N2	1:CA:777:A:H1'	2.29	0.46
35:DA:2618:G:H2'	35:DA:2619:C:H6	1.81	0.46
12:CL:54:LYS:H	12:CL:54:LYS:HD2	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:54:LYS:O	12:CL:70:ILE:HD13	2.15	0.46
1:AA:376:G:H5''	16:AP:5:ARG:CG	2.46	0.46
1:AA:1015:A:H2'	1:AA:1016:A:C8	2.50	0.46
17:CQ:32:TYR:O	17:CQ:34:LYS:N	2.48	0.46
44:BN:79:PRO:HG2	44:BN:80:GLY:H	1.79	0.46
25:AY:147:LEU:HD23	25:AY:148:HIS:H	1.78	0.46
35:DA:2283:C:C5	35:DA:2389:G:H2'	2.51	0.46
8:CH:120:THR:N	8:CH:123:GLU:OE1	2.48	0.46
55:BY:14:LEU:CD1	55:BY:15:VAL:H	2.23	0.46
2:CB:107:THR:HA	2:CB:110:GLN:HG3	1.98	0.46
40:DF:34:TRP:HA	40:DF:37:VAL:HG23	1.98	0.46
8:AH:103:VAL:CG1	8:AH:108:GLY:HA3	2.45	0.46
1:AA:221:C:O2'	1:AA:222:U:H5'	2.15	0.46
20:AT:64:ASP:C	20:AT:66:ALA:N	2.68	0.46
5:CE:37:ARG:HG2	5:CE:37:ARG:HH11	1.80	0.46
8:AH:28:ALA:O	8:AH:29:SER:HB2	2.15	0.46
1:CA:874:G:H2'	1:CA:875:C:C6	2.50	0.46
5:CE:94:ALA:HB3	5:CE:117:ASP:O	2.15	0.46
54:DX:26:TYR:CD1	54:DX:26:TYR:N	2.83	0.46
42:BH:61:HIS:O	42:BH:65:HIS:HB3	2.15	0.46
42:BH:65:HIS:CG	42:BH:66:GLY:N	2.82	0.46
1:CA:1128:C:H5'	9:CI:16:ARG:NH1	2.30	0.46
9:CI:89:ASN:HB3	9:CI:92:TYR:CD1	2.51	0.46
35:DA:626:U:H5''	35:DA:627:A:H5'	1.98	0.46
15:CO:18:PHE:O	15:CO:19:PRO:C	2.52	0.46
40:BF:152:GLU:OE1	40:BF:191:ARG:HD2	2.15	0.46
40:BF:9:ILE:HG12	40:BF:15:SER:N	2.30	0.46
35:DA:2276:G:OP2	47:DQ:84:GLY:N	2.47	0.46
11:CK:65:ALA:HB1	11:CK:98:LEU:CD2	2.45	0.46
35:BA:1614:A:C6	53:BW:93:ALA:HB2	2.51	0.46
35:DA:2733:A:C2	39:DE:203:LYS:HA	2.50	0.46
38:DD:218:ARG:HH11	38:DD:218:ARG:HG3	1.79	0.46
12:CL:41:ARG:CG	12:CL:42:THR:H	2.28	0.46
1:AA:1380:U:O2	7:AG:3:ARG:NH1	2.48	0.46
1:CA:267:C:OP1	17:CQ:67:LYS:HB2	2.14	0.46
1:AA:32:A:C2	1:AA:33:A:C4	3.03	0.46
1:CA:106:C:O2'	1:CA:379:C:OP1	2.33	0.46
5:CE:109:ILE:HD12	5:CE:135:THR:HB	1.98	0.46
35:DA:462:C:N4	35:DA:468:G:C6	2.80	0.46
35:BA:851:U:O2'	35:BA:852:G:H5'	2.16	0.46
53:BW:74:ALA:O	53:BW:75:TYR:CB	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1689:A:O2'	35:BA:1690:A:H5'	2.14	0.46
29:D3:19:GLN:C	29:D3:21:ALA:N	2.68	0.46
13:CM:50:GLU:O	13:CM:54:VAL:HG23	2.14	0.46
9:AI:65:VAL:CG2	9:AI:66:ARG:H	2.28	0.46
1:AA:1304:G:N7	1:AA:1305:G:C6	2.83	0.46
45:DO:87:ILE:HD13	45:DO:92:GLU:C	2.36	0.46
1:CA:565:U:H2'	1:CA:566:G:H8	1.80	0.46
35:DA:1388:G:H2'	35:DA:1389:G:H8	1.79	0.46
35:DA:604:G:H2'	35:DA:605:C:H6	1.80	0.46
35:DA:1829:A:C6	35:DA:1830:C:C2	3.03	0.46
35:BA:2087:G:C2'	35:BA:2088:G:H5'	2.46	0.46
7:CG:25:ALA:CA	7:CG:28:ASN:HD22	2.28	0.46
1:AA:241:C:O2'	1:AA:242:C:H5'	2.14	0.46
35:DA:2842:G:C6	35:DA:2876:G:C6	3.03	0.46
50:BT:3:ARG:O	50:BT:5:ALA:N	2.48	0.46
1:AA:473:G:H5''	16:AP:81:ARG:NE	2.30	0.46
1:AA:1246:C:H2'	1:AA:1247:U:H6	1.80	0.46
29:B3:26:LEU:HD21	29:B3:46:ASN:CB	2.46	0.46
35:BA:1128:A:H2	35:BA:2516:G:N3	2.13	0.46
35:DA:1169:G:H1	35:DA:1180:C:H42	1.61	0.46
35:BA:845:G:HO2'	35:BA:846:C:H5	1.61	0.46
52:DV:56:SER:C	52:DV:58:VAL:H	2.18	0.46
35:DA:1839:G:C5	35:DA:1840:G:N7	2.84	0.46
17:AQ:62:SER:CB	17:AQ:72:ARG:HG3	2.44	0.46
52:BV:56:SER:C	52:BV:58:VAL:H	2.19	0.46
1:CA:1333:A:H2'	1:CA:1334:G:O4'	2.15	0.46
3:CC:40:ARG:O	3:CC:41:GLY:C	2.52	0.46
53:BW:103:ILE:HG13	53:BW:103:ILE:O	2.14	0.46
1:AA:55:A:N7	1:AA:56:U:C5	2.84	0.46
1:CA:505:G:C2	1:CA:535:A:C2	3.04	0.46
1:CA:505:G:C6	1:CA:535:A:C2	3.03	0.46
3:AC:186:PHE:HD1	3:AC:198:VAL:O	1.98	0.46
35:BA:2400:G:H2'	35:BA:2401:U:H6	1.81	0.46
35:DA:1956:U:H2'	35:DA:1957:C:H5'	1.98	0.46
1:CA:889:A:H5'	1:CA:891:U:O4'	2.16	0.46
50:DT:28:VAL:O	50:DT:29:ARG:CD	2.64	0.46
50:DT:88:ILE:HG22	50:DT:89:VAL:H	1.78	0.46
35:BA:1971:A:C4	38:BD:241:PRO:HB3	2.50	0.46
35:DA:1784:A:H4'	35:DA:1785:A:O5'	2.16	0.46
38:DD:25:THR:O	38:DD:26:LYS:C	2.53	0.46
38:DD:267:SER:O	38:DD:269:PHE:HD1	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:DD:63:ARG:CZ	38:DD:86:PRO:HD2	2.45	0.46
41:DG:39:ILE:HG13	41:DG:157:ILE:CG2	2.36	0.46
41:DG:98:ARG:O	41:DG:101:ILE:CG2	2.63	0.46
45:BO:37:ASP:HB2	45:BO:62:VAL:HG23	1.96	0.46
45:BO:68:GLU:CD	45:BO:78:ARG:NH1	2.66	0.46
56:BZ:126:VAL:C	56:BZ:164:ALA:HB3	2.35	0.46
39:BE:199:ARG:HB3	39:BE:200:GLU:OE2	2.14	0.46
35:DA:1496:A:H8	35:DA:1577:C:O2'	1.98	0.46
35:BA:2039:C:H2'	35:BA:2040:C:C6	2.50	0.46
35:BA:559:G:H2'	35:BA:560:C:H6	1.80	0.46
51:BU:78:THR:C	51:BU:80:ILE:H	2.18	0.46
42:DH:85:LYS:HZ3	42:DH:145:ALA:HA	1.80	0.46
28:B2:22:GLU:O	28:B2:25:VAL:CG1	2.64	0.46
28:B2:26:ARG:HH21	54:BX:6:ASP:HA	1.80	0.46
27:B1:11:ARG:HG3	27:B1:61:ARG:O	2.14	0.46
2:AB:12:GLU:C	2:AB:14:GLY:H	2.17	0.46
41:BG:131:TYR:CE1	41:BG:133:LEU:HB3	2.51	0.46
28:D2:15:LYS:C	28:D2:18:PRO:HD2	2.35	0.46
54:DX:35:THR:O	54:DX:36:LYS:C	2.54	0.46
35:BA:483:A:H1'	55:BY:47:LYS:CG	2.24	0.46
47:DQ:113:GLN:O	47:DQ:116:GLU:HB3	2.15	0.46
35:DA:538:G:H2'	35:DA:538:G:N3	2.30	0.46
44:DN:43:THR:O	44:DN:46:VAL:HG12	2.14	0.46
51:DU:98:LEU:HD22	52:DV:2:PHE:HZ	1.78	0.46
36:BB:28:C:H2'	36:BB:29:A:O4'	2.16	0.46
49:BS:106:ARG:HB3	49:BS:106:ARG:HE	1.52	0.46
4:CD:62:GLN:HB3	4:CD:66:ARG:HH12	1.79	0.46
40:BF:21:ALA:C	40:BF:23:ASP:N	2.68	0.46
27:D1:51:VAL:O	27:D1:59:THR:HA	2.15	0.46
46:DP:65:ARG:HG2	46:DP:65:ARG:O	2.15	0.46
35:BA:1186:G:H2'	35:BA:1187:G:C5'	2.45	0.46
35:BA:2240:C:O2'	35:BA:2241:A:H5'	2.15	0.46
35:BA:804:A:H2'	35:BA:806:C:C4	2.51	0.46
35:BA:814:C:H2'	35:BA:815:C:H6	1.80	0.46
48:DR:9:LYS:HZ3	48:DR:42:LYS:HB3	1.79	0.46
1:AA:1430:C:H2'	1:AA:1431:C:H6	1.80	0.46
1:AA:325:A:N6	1:AA:326:G:C6	2.83	0.46
20:AT:25:ARG:HB2	20:AT:25:ARG:CZ	2.45	0.46
35:BA:1638:C:H2'	35:BA:1639:U:C6	2.50	0.46
48:BR:32:GLY:O	48:BR:116:LEU:HB2	2.15	0.46
36:DB:57:A:C1'	41:DG:30:GLU:HB3	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:88:ALA:CB	2:CB:223:ILE:HD11	2.44	0.46
43:BI:71:ILE:HG13	43:BI:72:LEU:HD22	1.98	0.46
2:AB:55:PHE:HA	2:AB:58:ILE:CB	2.42	0.46
6:CF:12:PRO:HG2	6:CF:13:ASN:H	1.80	0.46
6:CF:21:LEU:O	6:CF:23:LYS:N	2.48	0.46
15:CO:39:LEU:HD12	15:CO:56:LEU:HD12	1.97	0.46
18:CR:76:LEU:N	18:CR:76:LEU:HD22	2.30	0.46
46:DP:48:PRO:HG2	46:DP:49:ARG:N	2.30	0.46
52:DV:75:PHE:HD1	52:DV:87:HIS:O	1.98	0.46
4:AD:23:GLY:O	4:AD:27:TYR:CD1	2.68	0.46
6:AF:88:VAL:HG12	6:AF:89:MET:N	2.31	0.46
1:CA:1523:G:C6	1:CA:1524:C:C4	3.04	0.46
48:BR:98:LEU:HB2	48:BR:113:LEU:CD2	2.30	0.46
35:DA:1131:G:C2	35:DA:1132:A:C5	3.03	0.46
1:AA:1376:U:O2'	1:AA:1377:A:H5'	2.16	0.46
35:BA:1202:C:O2	46:BP:7:ARG:NH2	2.49	0.46
1:CA:1217:C:H2'	1:CA:1218:C:C6	2.51	0.46
16:AP:77:ALA:HB3	16:AP:79:VAL:HG23	1.98	0.46
25:AY:67:VAL:HG12	25:AY:100:TYR:CD1	2.49	0.46
25:AY:162:GLN:O	25:AY:166:ASP:OD2	2.33	0.46
25:AY:129:ILE:HG21	25:AY:169:ILE:HG12	1.98	0.46
23:CW:4:G:C6	23:CW:71:G:C6	3.04	0.46
12:AL:60:LEU:HD23	12:AL:64:TYR:C	2.36	0.46
22:AV:40:C:H2'	22:AV:41:C:C6	2.49	0.46
35:DA:621:A:H2'	35:DA:622:G:C5'	2.44	0.46
1:AA:183:G:O6	1:AA:194:C:N4	2.48	0.46
1:AA:261:U:O2	1:AA:263:A:C8	2.68	0.46
1:CA:1349:A:OP2	9:CI:118:LYS:NZ	2.48	0.46
1:AA:514:C:O2'	1:AA:515:G:H5'	2.16	0.46
9:AI:28:VAL:HG22	9:AI:63:ILE:O	2.15	0.46
48:DR:101:ALA:HB1	53:DW:38:TYR:HE1	1.80	0.46
9:CI:28:VAL:CG2	9:CI:63:ILE:HB	2.45	0.46
33:D7:34:ARG:NH1	35:DA:466:A:OP1	2.48	0.46
54:DX:64:LYS:CG	54:DX:65:ARG:H	2.28	0.46
35:DA:626:U:C2	46:DP:105:LEU:HG	2.50	0.46
46:BP:96:THR:HB	46:BP:126:VAL:HB	1.96	0.46
35:DA:2299:G:C2	35:DA:2318:G:C8	3.03	0.46
35:BA:2733:A:C2	39:BE:203:LYS:HA	2.49	0.46
54:DX:63:LYS:O	54:DX:68:ARG:HA	2.16	0.46
35:DA:1274:A:C2	35:DA:1302:A:C2	3.04	0.46
1:CA:237:C:C5'	17:CQ:25:ARG:NH1	2.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2014:A:C2	35:BA:2015:A:N1	2.83	0.46
25:CY:109:GLU:HA	25:CY:112:LYS:HB3	1.97	0.46
7:AG:50:ILE:CB	7:AG:58:PRO:HD3	2.40	0.46
38:DD:165:ILE:C	38:DD:166:GLN:NE2	2.68	0.46
4:CD:3:ARG:O	4:CD:4:TYR:C	2.53	0.46
35:BA:1464:C:H1'	35:BA:1528(A):A:N3	2.31	0.46
1:CA:302:G:N3	1:CA:556:C:H4'	2.30	0.46
35:BA:1644:C:C2'	35:BA:1645:G:H5'	2.45	0.46
45:DO:87:ILE:HG13	45:DO:91:LEU:HD13	1.96	0.46
35:DA:481:G:H2'	35:DA:507:A:N1	2.31	0.46
44:DN:128:HIS:C	44:DN:130:HIS:HD1	2.18	0.46
7:CG:146:GLU:CA	7:CG:149:ARG:HB2	2.43	0.46
1:AA:786:G:C2	1:AA:797:C:O2	2.68	0.46
35:DA:601:C:O2'	35:DA:605:C:H5''	2.16	0.46
1:AA:189(I):G:H2'	1:AA:189(J):G:C8	2.50	0.46
35:BA:1210:A:H1'	35:BA:1212:G:N3	2.31	0.46
35:BA:1766:U:H2'	35:BA:1767:C:H6	1.80	0.46
40:DF:22:ALA:HA	40:DF:26:ALA:HB2	1.97	0.46
7:CG:42:ILE:HG23	7:CG:117:ALA:CA	2.46	0.46
16:AP:80:PHE:O	16:AP:81:ARG:C	2.53	0.46
1:AA:652:U:H1'	1:AA:653:A:C2	2.47	0.46
1:AA:1332:A:C2	1:AA:1333:A:C5	3.03	0.46
56:DZ:137:ILE:HD13	56:DZ:155:LEU:HD13	1.98	0.46
1:CA:839:U:O2	1:CA:839:U:O4'	2.34	0.46
35:BA:1472:A:O2'	35:BA:1473:G:H5'	2.15	0.46
1:AA:1210:C:H4'	1:AA:1214:C:C4	2.50	0.46
1:CA:1011:G:C2'	1:CA:1012:U:H5'	2.45	0.46
2:CB:15:VAL:HG23	2:CB:209:ARG:HE	1.80	0.46
9:AI:56:LEU:HD23	9:AI:56:LEU:O	2.15	0.46
1:AA:152:A:N6	1:AA:170:U:N3	2.64	0.46
1:AA:807:A:H2'	1:AA:808:C:C6	2.50	0.46
35:BA:1789:A:H2'	35:BA:1790:C:C6	2.48	0.46
38:DD:227:ASN:O	38:DD:229:VAL:N	2.49	0.46
10:CJ:96:ILE:N	10:CJ:96:ILE:HD13	2.30	0.46
35:BA:2866:U:C6	35:BA:2868:A:C1'	2.98	0.46
45:BO:64:ARG:HD3	45:BO:101:PRO:C	2.35	0.46
35:DA:2577:A:H5''	35:DA:2578:G:C5'	2.40	0.46
39:DE:120:TRP:O	39:DE:121:ASN:C	2.54	0.46
35:BA:558:G:H2'	35:BA:559:G:C8	2.44	0.46
44:BN:40:PRO:CA	51:BU:64:ARG:HH22	2.28	0.46
51:BU:65:ILE:H	51:BU:65:ILE:CD1	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BU:92:ARG:HG2	51:BU:92:ARG:O	2.15	0.46
52:BV:38:LEU:O	52:BV:53:GLU:O	2.33	0.46
35:BA:1349:A:N6	35:BA:1598:C:N4	2.62	0.46
35:BA:1598:C:H5'	54:BX:37:THR:HB	1.96	0.46
28:B2:51:ARG:NH2	54:BX:6:ASP:OD2	2.49	0.46
27:B1:48:LYS:CG	27:B1:49:VAL:N	2.76	0.46
35:BA:2208:A:H1'	35:BA:2219:G:C5	2.50	0.46
35:BA:483:A:N7	35:BA:497:A:H2	2.13	0.46
35:DA:1149:G:H2'	35:DA:1150:C:C6	2.51	0.46
35:DA:2039:C:C2	35:DA:2040:C:C5	3.04	0.46
44:DN:9:VAL:HG21	44:DN:39:ARG:HH21	1.80	0.46
51:DU:76:TYR:CZ	51:DU:80:ILE:HG13	2.50	0.46
51:DU:83:LEU:HG	51:DU:88:ILE:HG12	1.96	0.46
49:BS:97:ARG:O	49:BS:98:VAL:C	2.53	0.46
4:CD:147:ALA:HA	4:CD:182:LYS:HB3	1.97	0.46
4:CD:65:ARG:NH1	4:CD:72:GLU:HB2	2.31	0.46
47:BQ:35:VAL:CG2	47:BQ:101:ARG:O	2.63	0.46
35:BA:237:C:O2'	35:BA:238:C:H5'	2.15	0.46
3:CC:11:ARG:O	3:CC:14:ILE:O	2.34	0.46
40:DF:114:VAL:O	40:DF:115:ALA:C	2.52	0.46
40:DF:117:ARG:NH2	40:DF:187:VAL:HA	2.30	0.46
40:DF:2:LYS:CG	40:DF:25:PRO:HB2	2.22	0.46
35:BA:869:G:H2'	35:BA:870:A:C8	2.49	0.46
35:DA:1281:G:H2'	35:DA:1282:U:H6	1.79	0.46
49:DS:92:TYR:HD2	49:DS:97:ARG:NH1	2.12	0.46
2:AB:36:ARG:O	2:AB:37:ASN:C	2.53	0.46
35:DA:200:U:C2'	35:DA:201:C:H5'	2.44	0.46
2:CB:68:ILE:HG22	2:CB:70:PHE:CD1	2.50	0.46
46:DP:38:GLN:CG	46:DP:39:LYS:N	2.71	0.46
52:DV:75:PHE:HE1	52:DV:89:GLN:HB2	1.79	0.46
43:DI:98:ALA:HB1	43:DI:109:ILE:HD13	1.96	0.46
35:DA:2023:G:H2'	35:DA:2024:G:H8	1.81	0.46
35:DA:2030:A:H4'	35:DA:2031:A:C8	2.47	0.46
51:DU:36:ARG:HG2	51:DU:40:PHE:CE2	2.50	0.46
25:CY:7:TYR:CE1	25:CY:160:GLU:HG2	2.50	0.46
19:CS:80:TYR:O	19:CS:81:ARG:O	2.34	0.46
23:CW:70:C:H2'	23:CW:71:G:H8	1.80	0.46
12:AL:28:LYS:C	12:AL:30:ALA:N	2.69	0.46
35:BA:2033:A:O2'	35:BA:2034:U:P	2.73	0.46
33:B7:18:PHE:O	33:B7:19:ARG:C	2.54	0.46
40:DF:160:ASN:HD21	40:DF:162:LEU:CB	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:145:ALA:O	7:AG:147:ALA:N	2.36	0.46
7:AG:86:GLN:CD	23:AW:32:G:H21	2.18	0.46
35:DA:419:C:C2	35:DA:420:C:C6	3.04	0.46
5:AE:128:PRO:O	5:AE:131:ILE:HG12	2.15	0.46
35:DA:2473:U:O2	35:DA:2473:U:C2'	2.62	0.46
9:AI:17:VAL:HG21	9:AI:81:ILE:HD13	1.97	0.46
9:AI:37:PHE:HB3	9:AI:43:ALA:HB2	1.97	0.46
8:CH:86:ILE:CG1	8:CH:135:CYS:HA	2.41	0.46
35:DA:2124:G:H2'	35:DA:2125:G:H5'	1.97	0.46
5:AE:144:THR:O	5:AE:145:LYS:C	2.54	0.46
12:AL:70:ILE:H	12:AL:70:ILE:HD12	1.78	0.46
9:CI:71:SER:O	9:CI:74:ILE:HB	2.15	0.46
46:DP:101:VAL:O	46:DP:103:ALA:N	2.49	0.46
46:BP:101:VAL:HA	46:BP:107:LYS:H	1.79	0.46
40:BF:170:LEU:HD21	40:BF:172:TRP:CZ2	2.50	0.46
56:BZ:19:ARG:HG3	56:BZ:20:ARG:N	2.30	0.46
40:BF:160:ASN:HD21	40:BF:162:LEU:CB	2.29	0.46
1:AA:712:A:O2'	1:AA:713:G:H5'	2.15	0.46
3:AC:105:GLU:HG2	3:AC:106:VAL:N	2.19	0.46
44:BN:94:HIS:N	44:BN:94:HIS:ND1	2.64	0.46
47:DQ:82:ARG:HH11	47:DQ:82:ARG:CG	2.25	0.46
17:CQ:67:LYS:C	17:CQ:69:LYS:H	2.19	0.46
35:DA:322:A:OP1	40:DF:168:ARG:HD3	2.16	0.46
35:DA:2171:A:C8	35:DA:2172:U:C5	3.04	0.46
1:AA:112:G:H5'	1:AA:389:A:H4'	1.97	0.46
53:DW:20:VAL:HG23	53:DW:21:VAL:H	1.80	0.46
35:BA:1338:G:N3	35:BA:1338:G:H2'	2.29	0.46
36:BB:79:C:H2'	36:BB:80:U:O4'	2.15	0.46
29:B3:16:PRO:HB2	29:B3:18:ASP:OD1	2.16	0.46
1:AA:658:G:O4'	15:AO:22:THR:HB	2.14	0.46
15:AO:29:VAL:O	15:AO:30:ALA:C	2.53	0.46
15:AO:37:ASN:N	15:AO:37:ASN:HD22	2.13	0.46
54:DX:12:VAL:HG13	54:DX:17:ALA:HB2	1.98	0.46
53:BW:48:ALA:O	53:BW:49:LYS:C	2.54	0.46
35:DA:2643:G:C2'	35:DA:2644:G:H5'	2.45	0.46
35:DA:2007:C:H6	35:DA:2007:C:O5'	1.97	0.46
7:CG:140:ASP:HA	7:CG:143:ARG:CZ	2.46	0.46
10:CJ:31:GLY:HA3	10:CJ:78:ASN:ND2	2.29	0.46
10:CJ:23:ILE:HG23	10:CJ:85:LEU:HD13	1.97	0.46
1:AA:286:G:H2'	1:AA:287:U:H6	1.80	0.46
35:DA:448:U:H4'	35:DA:449:A:OP2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1153:C:H2'	1:AA:1154:G:O5'	2.15	0.46
53:BW:65:LEU:C	53:BW:65:LEU:HD23	2.35	0.46
39:DE:93:VAL:C	39:DE:95:ILE:N	2.68	0.46
1:CA:264:U:O2'	17:CQ:64:PRO:HB2	2.16	0.46
35:BA:315:G:H2'	35:BA:316:C:C6	2.50	0.46
1:CA:751:U:O2'	1:CA:752:G:H5'	2.16	0.46
4:CD:23:GLY:O	4:CD:27:TYR:CD1	2.69	0.46
35:DA:1630:G:C5	35:DA:1631:C:C5	3.04	0.46
35:BA:1169:G:H1	35:BA:1180:C:H42	1.64	0.46
35:BA:645:C:C2'	35:BA:645:C:O2	2.64	0.46
1:CA:1133:G:H2'	1:CA:1134:G:C8	2.50	0.46
35:DA:1668:A:C8	35:DA:1674:G:C6	3.04	0.46
35:BA:948:G:H2'	35:BA:949:C:C6	2.51	0.46
35:DA:1272:A:N3	35:DA:1618:A:C5	2.83	0.46
35:DA:2362:G:O2'	35:DA:2363:C:H5'	2.15	0.46
35:BA:1433:U:H3	35:BA:1560:G:H1	1.62	0.46
1:CA:39:G:H2'	1:CA:40:C:H6	1.79	0.46
12:CL:18:VAL:HG23	12:CL:18:VAL:O	2.16	0.46
15:AO:47:LYS:HD3	15:AO:47:LYS:H	1.80	0.46
11:CK:15:ALA:HA	11:CK:76:GLY:O	2.15	0.46
35:DA:1675:C:H2'	35:DA:1676:A:O4'	2.15	0.46
45:DO:64:ARG:HH11	45:DO:64:ARG:CB	2.29	0.46
45:DO:61:VAL:CG1	45:DO:85:VAL:HB	2.45	0.46
50:DT:65:LYS:HE3	50:DT:66:VAL:H	1.80	0.46
50:DT:83:ILE:CG1	50:DT:84:GLN:HG2	2.44	0.46
14:CN:24:CYS:SG	14:CN:39:LEU:HA	2.56	0.46
35:BA:1817:G:C2'	35:BA:1818:U:H5'	2.46	0.46
35:BA:782:A:H4'	35:BA:783:A:O5'	2.16	0.46
38:BD:27:THR:CG2	38:BD:28:GLU:N	2.62	0.46
38:DD:267:SER:O	38:DD:269:PHE:CD1	2.69	0.46
45:BO:104:ARG:C	45:BO:106:LEU:H	2.17	0.46
35:BA:874:G:H2'	35:BA:875:G:C8	2.50	0.46
39:BE:44:TYR:O	39:BE:45:THR:OG1	2.28	0.46
39:BE:78:LEU:O	39:BE:79:ARG:HD2	2.15	0.46
51:BU:111:GLU:O	51:BU:113:ALA:N	2.49	0.46
52:BV:17:GLY:HA2	52:BV:98:GLU:O	2.14	0.46
2:AB:80:ILE:HG12	2:AB:211:ILE:CG2	2.46	0.46
41:BG:138:GLN:HE21	41:BG:152:LEU:HD23	1.81	0.46
41:BG:36:LYS:HE3	41:BG:160:VAL:CG2	2.46	0.46
28:D2:44:LEU:HA	28:D2:44:LEU:HD12	1.57	0.46
54:DX:37:THR:C	54:DX:39:ILE:H	2.19	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D2:26:ARG:HH21	54:DX:7:VAL:H	1.60	0.46
42:BH:162:ILE:C	42:BH:163:TYR:CD1	2.89	0.46
42:BH:97:ARG:O	42:BH:98:LEU:HB2	2.15	0.46
35:BA:2643:G:C2'	35:BA:2644:G:H5'	2.45	0.46
56:DZ:8:TYR:HA	56:DZ:62:PRO:CG	2.45	0.46
1:CA:1065:U:H4'	1:CA:1066:C:O5'	2.16	0.46
35:BA:2376:A:H2'	35:BA:2377:A:O4'	2.15	0.46
36:BB:7:G:H21	49:BS:38:GLN:HE22	1.63	0.46
43:DI:88:ILE:CD1	43:DI:123:LEU:HD12	2.41	0.46
46:BP:14:LYS:O	46:BP:15:ARG:HB2	2.16	0.46
25:AY:53:ASN:HD22	25:AY:53:ASN:H	1.63	0.46
44:DN:67:LEU:HB3	44:DN:88:GLU:CD	2.36	0.46
35:BA:197:A:C2	35:BA:198:C:H1'	2.51	0.46
35:BA:587:C:O2'	35:BA:588:U:OP2	2.26	0.46
40:DF:117:ARG:NH2	40:DF:189:THR:O	2.48	0.46
40:DF:21:ALA:C	40:DF:23:ASP:H	2.18	0.46
47:BQ:74:TYR:HB3	47:BQ:91:GLU:OE2	2.15	0.46
39:BE:108:SER:O	39:BE:162:ALA:HA	2.15	0.46
20:AT:14:LYS:HE3	20:AT:18:GLN:HE21	1.80	0.46
20:AT:13:LEU:HD13	20:AT:14:LYS:N	2.31	0.46
2:AB:55:PHE:O	2:AB:59:GLU:N	2.41	0.46
44:DN:122:VAL:CG1	44:DN:123:TYR:N	2.78	0.46
44:BN:31:ALA:O	44:BN:34:LEU:N	2.49	0.46
45:BO:113:LYS:O	45:BO:114:ILE:C	2.54	0.46
45:BO:112:MET:O	45:BO:115:VAL:HG23	2.16	0.46
2:CB:92:TYR:CE2	2:CB:151:GLY:HA3	2.51	0.46
40:DF:65:TRP:CZ3	40:DF:72:ARG:HB3	2.51	0.46
4:AD:152:SER:C	4:AD:154:ASN:H	2.19	0.46
4:AD:178:VAL:C	4:AD:180:GLY:H	2.18	0.46
1:AA:568:G:O6	12:AL:5:PRO:HD3	2.16	0.46
18:AR:43:PHE:CA	18:AR:51:LEU:HD12	2.37	0.46
1:CA:818:G:C3'	1:CA:819:A:C5'	2.91	0.46
35:DA:572:A:H2'	35:DA:573:G:O4'	2.16	0.46
2:AB:111:ARG:HH11	2:AB:111:ARG:CG	2.22	0.46
25:CY:21:LEU:O	25:CY:22:GLU:C	2.54	0.46
25:CY:3:LEU:HA	25:CY:6:LEU:CB	2.29	0.46
25:AY:6:LEU:O	25:AY:6:LEU:HD23	2.15	0.46
7:CG:107:ALA:O	7:CG:110:GLN:HB2	2.15	0.46
51:BU:26:GLY:C	51:BU:28:ARG:H	2.18	0.46
11:AK:73:MET:SD	11:AK:103:LEU:CD1	3.03	0.46
2:CB:99:GLY:O	2:CB:100:GLY:C	2.52	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:81:GLY:C	7:AG:83:ALA:H	2.17	0.46
1:AA:790:A:OP1	22:AV:37:A:O2'	2.31	0.46
1:AA:182:U:H2'	1:AA:183:G:O4'	2.15	0.46
1:AA:193:C:H2'	1:AA:194:C:C6	2.50	0.46
1:AA:263:A:OP2	20:AT:79:ARG:NH1	2.48	0.46
35:DA:923:C:H2'	35:DA:924:C:C6	2.51	0.46
43:DI:39:ALA:O	43:DI:40:THR:C	2.54	0.46
8:CH:5:PRO:C	8:CH:8:ASP:HB3	2.36	0.46
56:DZ:76:LEU:HD23	56:DZ:76:LEU:H	1.80	0.46
31:B5:49:CYS:O	31:B5:57:VAL:HG22	2.15	0.46
1:CA:528:C:C5	1:CA:529:G:N7	2.84	0.46
12:CL:89:ARG:CB	12:CL:89:ARG:HH11	2.28	0.46
12:CL:89:ARG:NH1	12:CL:90:VAL:N	2.63	0.46
42:DH:13:LYS:C	42:DH:15:VAL:N	2.65	0.46
35:DA:1266:G:N2	35:DA:2012:G:C4	2.83	0.46
15:AO:16:ALA:HB1	15:AO:21:ASP:HB3	1.97	0.46
35:DA:1231:G:H2'	35:DA:1232:G:H8	1.81	0.46
1:CA:267:C:P	17:CQ:67:LYS:HB2	2.56	0.46
35:DA:2014:A:C2	35:DA:2015:A:C2	3.03	0.46
3:CC:155:GLY:HA3	3:CC:163:ALA:CB	2.42	0.46
35:BA:680:G:O2'	35:BA:681:G:H5'	2.16	0.46
5:AE:136:MET:HB3	5:AE:140:ARG:HH21	1.79	0.46
1:AA:35:G:H2'	1:AA:36:C:H6	1.77	0.46
20:CT:27:LYS:O	20:CT:30:LYS:HB3	2.15	0.46
19:AS:33:THR:CG2	19:AS:51:VAL:HG22	2.46	0.46
1:AA:1255:G:O2'	1:AA:1258:G:H1'	2.16	0.46
3:CC:84:ILE:HG13	3:CC:101:LEU:HD13	1.96	0.46
35:DA:1271:G:C2	35:DA:1617:C:H4'	2.50	0.46
1:CA:730:G:C5	1:CA:731:G:H1'	2.51	0.46
35:BA:1388:G:H2'	35:BA:1389:G:H8	1.80	0.46
1:CA:763:G:H2'	1:CA:764:C:H6	1.80	0.46
24:CX:17:U:H2'	24:CX:18:C:H6	1.80	0.46
2:AB:20:GLU:OE1	2:AB:20:GLU:HA	2.15	0.46
40:BF:126:VAL:CG1	40:BF:193:VAL:HG13	2.46	0.46
1:AA:929:G:C6	1:AA:930:C:C4	3.04	0.46
35:DA:1399:C:H2'	35:DA:1400:G:C8	2.49	0.46
35:DA:976:C:H2'	35:DA:977:G:H8	1.79	0.46
53:DW:107:LEU:HA	53:DW:107:LEU:HD12	1.73	0.46
35:BA:1221(A):C:C2'	35:BA:1222:C:H5'	2.45	0.46
53:DW:69:LEU:N	53:DW:69:LEU:HD12	2.31	0.46
35:BA:1531:C:H3'	35:BA:1532:C:C5'	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1889:A:H1'	35:DA:2087:G:O4'	2.15	0.46
1:AA:1120:G:H1	1:AA:1153:C:H42	1.63	0.46
35:BA:1935:G:H1'	35:BA:1964:G:H21	1.78	0.46
1:AA:799:G:C2'	1:AA:800:G:H5'	2.46	0.46
38:DD:109:ASP:N	38:DD:195:ALA:O	2.30	0.46
1:AA:1039:C:H2'	1:AA:1040:U:C6	2.51	0.46
1:CA:487:A:C6	1:CA:488:C:O2	2.69	0.46
3:AC:92:ALA:C	3:AC:94:LEU:H	2.17	0.46
35:BA:526:A:OP1	35:BA:527:C:OP1	2.33	0.46
1:AA:1251:A:H2'	1:AA:1252:A:C8	2.50	0.46
35:DA:1272:A:C2	35:DA:1618:A:C5	3.03	0.46
35:BA:2447:G:O6	35:BA:2504:U:O4	2.34	0.46
19:CS:67:VAL:HG12	19:CS:68:GLY:N	2.31	0.46
26:D0:84:LEU:C	26:D0:84:LEU:HD12	2.35	0.46
35:DA:2792:G:O6	35:DA:2804:C:N3	2.48	0.46
35:DA:2791:C:H6	35:DA:2793:G:O6	1.97	0.46
39:BE:73:GLU:OE2	39:BE:73:GLU:N	2.34	0.46
45:DO:1:MET:HE2	45:DO:1:MET:N	2.29	0.46
50:DT:106:SER:C	50:DT:107:ASP:OD1	2.53	0.46
43:BI:90:GLY:O	43:BI:91:SER:O	2.34	0.46
1:CA:1051:C:H2'	1:CA:1052:U:H6	1.80	0.46
10:CJ:57:LYS:HD2	10:CJ:60:ARG:NH2	2.30	0.46
35:BA:1806:C:N4	35:BA:1812:A:N6	2.63	0.46
38:BD:208:LYS:O	38:BD:210:GLY:O	2.34	0.46
38:BD:223:GLY:C	38:BD:225:ALA:H	2.14	0.46
38:BD:265:PRO:O	38:BD:266:SER:C	2.53	0.46
35:DA:1567:A:H3'	38:DD:86:PRO:HG3	1.97	0.46
36:DB:32:C:OP2	41:DG:96:ARG:NH2	2.35	0.46
41:DG:142:PRO:O	41:DG:144:ILE:N	2.48	0.46
47:DQ:103:MET:HE2	47:DQ:125:LEU:HD21	1.98	0.46
35:BA:2681:C:C4	35:BA:2724:C:C5	3.04	0.46
19:AS:78:ARG:H	19:AS:78:ARG:CD	2.28	0.46
54:BX:24:GLY:HA2	54:BX:80:ILE:HG13	1.96	0.46
27:B1:11:ARG:C	27:B1:13:ILE:H	2.19	0.46
2:AB:77:ALA:C	2:AB:80:ILE:HG23	2.36	0.46
41:BG:76:SER:HB3	41:BG:84:LYS:CD	2.45	0.46
55:DY:99:CYS:O	55:DY:100:ALA:HB2	2.16	0.46
55:DY:88:LYS:NZ	55:DY:93:GLY:N	2.47	0.46
28:D2:23:LYS:CB	54:DX:5:TYR:HE1	2.29	0.46
56:DZ:146:ILE:O	56:DZ:148:ASP:N	2.48	0.46
56:DZ:16:SER:O	56:DZ:20:ARG:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DN:41:ASP:O	44:DN:42:TRP:C	2.54	0.46
35:DA:996:A:O4'	51:DU:92:ARG:NH2	2.49	0.46
52:DV:15:GLU:H	52:DV:18:LEU:HD11	1.81	0.46
52:DV:33:VAL:HA	52:DV:62:LEU:O	2.15	0.46
1:AA:1049:U:H1'	1:AA:1201:A:C8	2.51	0.46
19:CS:17:GLU:C	19:CS:19:VAL:H	2.18	0.46
35:DA:2285:C:H42	35:DA:2383:G:H1	1.64	0.46
36:BB:115:G:H2'	36:BB:116:G:H8	1.81	0.46
49:BS:101:LEU:HD21	49:BS:103:GLU:HG3	1.97	0.46
1:CA:438:G:H4'	4:CD:123:HIS:ND1	2.30	0.46
4:CD:148:VAL:HG23	4:CD:181:MET:O	2.16	0.46
35:BA:1022:G:O2'	35:BA:1023:U:P	2.73	0.46
40:BF:108:LYS:O	40:BF:112:MET:SD	2.74	0.46
40:BF:123:LEU:HD12	40:BF:124:LEU:N	2.29	0.46
40:BF:125:LEU:HD11	40:BF:199:TRP:CD1	2.51	0.46
25:AY:38:LEU:O	25:AY:41:LEU:HB2	2.16	0.46
35:BA:571:A:H5''	35:BA:2030:A:H62	1.79	0.46
48:DR:12:ARG:HG3	48:DR:12:ARG:NH1	2.28	0.46
35:DA:2377:A:H2'	35:DA:2378:A:C8	2.51	0.46
49:DS:101:LEU:C	49:DS:101:LEU:HD13	2.35	0.46
2:CB:84:GLU:HB3	2:CB:219:VAL:CG2	2.32	0.46
27:D1:25:LYS:NZ	35:DA:2079:U:OP1	2.49	0.46
1:CA:835:U:O2'	1:CA:836:G:H5'	2.15	0.46
15:CO:54:ARG:NH1	15:CO:54:ARG:HG2	2.30	0.46
2:CB:46:LYS:O	2:CB:47:THR:C	2.53	0.46
35:DA:1202:C:O2	46:DP:7:ARG:NH2	2.48	0.46
35:DA:310:A:OP1	55:DY:17:SER:O	2.34	0.46
55:DY:14:LEU:O	55:DY:72:VAL:HG12	2.16	0.46
47:DQ:70:PRO:CA	47:DQ:95:ALA:HB2	2.46	0.46
6:AF:21:LEU:O	6:AF:23:LYS:N	2.48	0.46
7:AG:99:LEU:O	7:AG:100:ALA:C	2.54	0.46
25:CY:18:LEU:C	25:CY:20:VAL:H	2.19	0.46
1:CA:959:A:H3'	1:CA:960:U:H5''	1.97	0.46
1:CA:957:U:H1'	1:CA:960:U:C4	2.50	0.46
1:AA:1312:G:H1	1:AA:1325:C:H42	1.61	0.46
1:AA:450:G:OP1	16:AP:43:LYS:NZ	2.49	0.46
1:AA:376:G:C5'	16:AP:5:ARG:HD2	2.44	0.46
25:AY:30:THR:OG1	25:AY:31:GLY:N	2.49	0.46
25:AY:14:MET:HB3	25:AY:168:PHE:CD2	2.51	0.46
35:BA:2124:G:H2'	35:BA:2125:G:H5'	1.97	0.46
33:B7:34:ARG:HE	33:B7:39:ARG:CD	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:74:ASN:C	42:DH:76:VAL:N	2.69	0.46
1:AA:1226:C:H5'	19:AS:80:TYR:HE2	1.80	0.46
19:AS:80:TYR:O	19:AS:81:ARG:O	2.34	0.46
1:CA:826:C:H2'	1:CA:827:U:H6	1.79	0.46
8:CH:64:LYS:O	8:CH:79:VAL:CG2	2.63	0.46
35:DA:2127:G:H5'	37:DC:36:LYS:NZ	2.31	0.46
35:BA:365:C:H6	35:BA:365:C:H5'	1.79	0.46
9:CI:5:TYR:OH	9:CI:7:THR:HG23	2.16	0.46
53:DW:84:ARG:HB2	53:DW:96:ILE:CG2	2.46	0.46
15:CO:10:LYS:HG3	15:CO:11:VAL:N	2.30	0.46
35:DA:2672:G:C3'	35:DA:2673:G:H5''	2.45	0.46
35:BA:2884:U:H2'	35:BA:2885:C:C5'	2.44	0.46
39:DE:168:MET:O	39:DE:170:LEU:HD12	2.15	0.46
35:DA:2219:G:C2'	35:DA:2220:G:H5'	2.45	0.46
35:BA:707:G:H3'	35:BA:708:C:H6	1.80	0.46
1:CA:1508:G:C4	1:CA:1509:C:C5	3.03	0.46
1:AA:236:G:H2'	1:AA:237:C:H6	1.80	0.46
17:AQ:45:HIS:NE2	17:AQ:47:PRO:HB3	2.30	0.46
38:BD:145:VAL:CG1	38:BD:146:GLU:N	2.78	0.46
44:DN:107:LEU:HB2	44:DN:108:PRO:CD	2.45	0.46
35:DA:1689:A:O2'	35:DA:1690:A:H5'	2.15	0.46
13:CM:69:GLU:HB2	13:CM:72:ALA:HB3	1.98	0.46
4:AD:3:ARG:HD3	4:AD:3:ARG:O	2.15	0.46
35:BA:1706:U:O2'	35:BA:1707:G:H5'	2.15	0.46
35:BA:1708:C:O2'	35:BA:1709:U:H5'	2.15	0.46
1:CA:577:G:H1'	1:CA:816:A:N3	2.29	0.46
1:AA:598:U:H4'	8:AH:94:TYR:CD1	2.51	0.46
1:AA:1277:C:H2'	1:AA:1278:U:H5'	1.97	0.46
35:BA:469:G:C2'	35:BA:470:A:H5''	2.46	0.46
1:AA:769:G:C4	1:AA:770:C:C5	3.04	0.46
35:DA:524:U:C2'	35:DA:524:U:O2	2.60	0.46
35:DA:359:A:H2'	35:DA:360:G:C8	2.50	0.46
35:DA:2291:U:H2'	35:DA:2292:C:C6	2.50	0.46
53:DW:5:ALA:HB3	53:DW:105:VAL:N	2.31	0.46
1:CA:1366:C:H2'	1:CA:1367:C:H6	1.75	0.46
1:CA:1046:A:H2'	1:CA:1046:A:N3	2.30	0.46
35:BA:2840:C:H2'	35:BA:2841:C:C6	2.50	0.46
35:BA:1110:G:OP1	35:BA:1110:G:H4'	2.16	0.46
1:AA:1161:C:H2'	1:AA:1162:C:H6	1.81	0.46
1:AA:762:C:H2'	1:AA:763:G:H8	1.81	0.46
35:DA:1198:U:H2'	35:DA:1199:U:H6	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:64:PRO:C	17:AQ:65:ILE:HD12	2.36	0.46
1:CA:648:A:H2'	1:CA:649:G:C8	2.47	0.46
6:AF:37:VAL:HG13	6:AF:65:VAL:HG12	1.96	0.46
35:DA:1516:C:H2'	35:DA:1517:G:C8	2.51	0.46
36:DB:35:U:HO2'	36:DB:36:C:H5'	1.79	0.46
1:AA:1002:G:H2'	1:AA:1003:G:O4'	2.15	0.46
35:DA:1695:G:H2'	35:DA:1696:G:C4'	2.45	0.46
35:BA:532:A:H4'	35:BA:533:G:O4'	2.16	0.46
35:DA:1396:U:O2	35:DA:1396:U:C2'	2.64	0.46
35:BA:1848:A:H2'	35:BA:1849:G:C8	2.50	0.46
35:DA:1692:U:O2'	35:DA:1693:U:H2'	2.15	0.46
35:BA:2322:A:O2'	35:BA:2323:G:H5'	2.16	0.46
35:BA:1459:G:H5''	35:BA:1460:A:OP2	2.16	0.46
45:BO:25:LEU:HD13	45:BO:38:VAL:HG11	1.97	0.46
35:BA:2517:C:H2'	35:BA:2542:A:H2	1.78	0.46
10:CJ:65:LEU:HD12	14:CN:55:GLY:HA3	1.98	0.46
10:CJ:48:THR:HG23	10:CJ:62:HIS:CA	2.46	0.46
35:BA:1820:U:H4'	35:BA:1821:A:OP2	2.15	0.46
38:BD:21:PHE:O	38:BD:22:SER:C	2.53	0.46
1:CA:608:A:H4'	16:CP:32:TYR:OH	2.16	0.46
41:DG:128:ARG:O	41:DG:129:GLY:O	2.33	0.46
41:DG:36:LYS:HB3	41:DG:160:VAL:CG2	2.45	0.46
41:DG:41:GLN:CG	41:DG:43:LEU:HD12	2.27	0.46
46:BP:65:ARG:HG2	46:BP:65:ARG:O	2.16	0.46
45:BO:101:PRO:C	45:BO:102:VAL:HG22	2.35	0.46
45:BO:60:ALA:HB1	45:BO:85:VAL:O	2.15	0.46
50:BT:48:ILE:HG22	50:BT:49:VAL:N	2.31	0.46
39:BE:197:ILE:HG13	39:BE:199:ARG:NH1	2.27	0.46
51:BU:83:LEU:HG	51:BU:88:ILE:HG12	1.98	0.46
52:BV:39:LEU:HD11	52:BV:53:GLU:H	1.80	0.46
1:AA:1231:G:O2'	1:AA:1232:U:H5'	2.15	0.46
39:DE:1:MET:HE2	39:DE:1:MET:H1	1.81	0.46
41:BG:114:ILE:CG2	41:BG:115:ARG:N	2.79	0.46
41:BG:140:ILE:HD12	41:BG:141:PHE:N	2.30	0.46
55:DY:96:ILE:HG13	55:DY:100:ALA:H	1.80	0.46
28:D2:50:ILE:O	28:D2:51:ARG:CB	2.63	0.46
35:BA:2640:G:H8	35:BA:2640:G:H5'	1.81	0.46
56:DZ:8:TYR:CD1	56:DZ:8:TYR:N	2.83	0.46
44:DN:12:ARG:NH2	44:DN:39:ARG:NH1	2.63	0.46
52:DV:5:VAL:HB	52:DV:37:VAL:O	2.15	0.46
19:CS:15:LEU:H	19:CS:15:LEU:CD2	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:435:C:H2'	1:CA:435:C:O2	2.15	0.46
4:CD:68:TYR:N	4:CD:68:TYR:CD1	2.84	0.46
44:BN:62:VAL:O	44:BN:63:THR:CG2	2.62	0.46
3:CC:153:VAL:HG12	3:CC:154:SER:H	1.80	0.46
35:BA:442:G:H4'	40:BF:46:ARG:HD3	1.97	0.46
25:AY:70:SER:CB	25:AY:76:LEU:HD12	2.35	0.46
35:BA:2052:G:C4	35:BA:2053:G:C8	3.03	0.46
27:D1:86:SER:C	27:D1:89:GLU:OE2	2.54	0.46
27:D1:86:SER:CA	27:D1:89:GLU:OE1	2.54	0.46
35:BA:2079:U:H2'	35:BA:2080:G:H8	1.79	0.46
35:BA:675:A:OP1	40:BF:63:LYS:HD2	2.16	0.46
35:BA:818:G:H3'	35:BA:1187:G:H22	1.81	0.46
35:DA:614(B):G:C4	40:DF:44:ARG:NH2	2.83	0.46
35:BA:2822:G:H2'	35:BA:2823:A:H5''	1.97	0.46
5:AE:50:GLU:CD	5:AE:51:VAL:H	2.19	0.46
48:BR:13:HIS:C	48:BR:13:HIS:ND1	2.67	0.46
48:BR:17:ARG:O	48:BR:18:LEU:C	2.53	0.46
35:BA:1453:U:OP1	48:BR:77:ARG:NH1	2.49	0.46
49:DS:83:LYS:O	49:DS:85:VAL:N	2.48	0.46
49:DS:92:TYR:HD1	49:DS:92:TYR:C	2.18	0.46
2:AB:178:ARG:CB	2:AB:178:ARG:HH11	2.27	0.46
2:AB:167:PRO:CD	2:AB:188:ALA:HB2	2.46	0.46
2:AB:41:ILE:CD1	2:AB:41:ILE:N	2.78	0.46
44:DN:22:THR:HA	44:DN:61:ARG:CB	2.33	0.46
44:DN:34:LEU:HA	44:DN:34:LEU:HD22	1.77	0.46
44:DN:32:THR:HG23	44:DN:37:LYS:HB3	1.96	0.46
47:BQ:108:GLY:HA3	56:BZ:116:VAL:HG11	1.98	0.46
6:CF:14:LEU:HD13	6:CF:15:ASP:O	2.15	0.46
2:CB:164:VAL:CG1	2:CB:165:VAL:N	2.79	0.46
52:DV:83:ARG:HH11	52:DV:83:ARG:CG	2.08	0.46
35:DA:83:G:N2	35:DA:103:A:OP2	2.46	0.46
35:DA:80:G:O2'	35:DA:81:G:H5'	2.15	0.46
43:DI:114:LEU:O	43:DI:115:ALA:CB	2.64	0.46
6:AF:66:GLU:O	6:AF:67:MET:HB3	2.15	0.46
1:CA:1523:G:C5	1:CA:1524:C:C5	3.04	0.46
7:AG:26:PHE:CZ	7:AG:30:ILE:HD11	2.51	0.46
35:DA:514:A:O2'	35:DA:515:A:H5'	2.14	0.46
35:DA:2701:C:H2'	35:DA:2702:U:H6	1.81	0.46
20:CT:64:ASP:C	20:CT:66:ALA:N	2.68	0.46
25:AY:92:PRO:HA	25:AY:101:ILE:HG23	1.97	0.46
33:B7:15:THR:HG22	33:B7:16:HIS:NE2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:B7:5:TRP:C	33:B7:6:GLN:NE2	2.68	0.46
8:CH:103:VAL:CG1	8:CH:108:GLY:HA3	2.45	0.46
35:BA:85:G:N2	35:BA:86:C:H1'	2.31	0.46
1:AA:694:A:O2'	23:AW:39:A:C1'	2.61	0.46
13:AM:90:LEU:O	13:AM:91:ARG:HB2	2.16	0.46
40:DF:101:LEU:HD12	40:DF:102:PRO:CD	2.36	0.46
46:DP:14:LYS:O	46:DP:15:ARG:CB	2.64	0.46
5:CE:37:ARG:HA	5:CE:112:LEU:O	2.16	0.46
35:DA:1659:U:OP2	39:DE:132:HIS:HE1	1.99	0.46
54:BX:64:LYS:CG	54:BX:65:ARG:H	2.28	0.46
9:CI:89:ASN:C	9:CI:91:ASP:H	2.19	0.46
46:BP:75:ILE:CD1	46:BP:75:ILE:H	2.08	0.46
53:BW:10:VAL:O	53:BW:11:ARG:CB	2.64	0.46
14:AN:6:LEU:C	14:AN:8:GLU:N	2.69	0.46
44:DN:94:HIS:N	44:DN:94:HIS:ND1	2.63	0.46
2:AB:97:TRP:HH2	2:AB:176:GLU:CB	2.27	0.46
1:CA:116:A:H2'	1:CA:117:G:O4'	2.16	0.46
35:BA:374:A:H2'	35:BA:375:C:O4'	2.15	0.46
35:BA:2276:G:OP2	47:BQ:84:GLY:N	2.49	0.46
40:DF:170:LEU:HD21	40:DF:172:TRP:CZ2	2.51	0.46
26:D0:29:GLN:HB2	26:D0:67:VAL:HG23	1.97	0.46
1:AA:122:G:H2'	1:AA:123:C:H6	1.80	0.46
3:AC:84:ILE:HG13	3:AC:101:LEU:HD13	1.97	0.46
20:CT:83:ARG:HG2	20:CT:86:ARG:HD3	1.98	0.46
35:DA:1271:G:N2	35:DA:1617:C:C4'	2.79	0.46
35:DA:1613:G:N1	35:DA:1619:G:C5	2.83	0.46
35:DA:1947:C:O2'	35:DA:1948:G:H5'	2.16	0.46
35:BA:472:A:H2'	35:BA:473:G:H5'	1.97	0.46
29:B3:12:PRO:HA	29:B3:15:TYR:HD1	1.81	0.46
46:DP:59:LEU:HA	46:DP:61:ARG:CD	2.45	0.46
35:DA:1428:C:C4	35:DA:1569:A:H5"	2.49	0.46
35:DA:1714:G:H2'	35:DA:1717:G:C8	2.50	0.46
24:CX:17:U:O5'	24:CX:17:U:H6	1.98	0.46
46:BP:57:THR:C	46:BP:59:LEU:H	2.17	0.46
35:DA:2762:G:C3'	35:DA:2763:G:C5'	2.93	0.46
1:AA:1271:G:H2'	1:AA:1272:G:O4'	2.15	0.46
35:BA:919:G:N2	35:BA:2269:A:OP2	2.44	0.46
35:BA:201:C:H2'	35:BA:202:U:H5'	1.98	0.46
35:BA:1550:C:H2'	35:BA:1551:C:C6	2.40	0.46
35:DA:227:A:C2	35:DA:2407:G:C1'	2.97	0.46
1:CA:303:A:P	12:CL:17:LYS:HE3	2.56	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BW:44:ALA:O	53:BW:48:ALA:N	2.44	0.46
1:AA:1511:G:C2'	1:AA:1512:U:H5'	2.45	0.46
10:AJ:31:GLY:HA3	10:AJ:78:ASN:ND2	2.31	0.46
1:AA:929:G:C2'	1:AA:930:C:H5'	2.46	0.46
53:DW:48:ALA:O	53:DW:49:LYS:C	2.53	0.46
1:AA:302:G:H2'	1:AA:303:A:O4'	2.16	0.46
17:AQ:10:VAL:CG1	17:AQ:53:LEU:HA	2.45	0.46
1:AA:670:G:H2'	1:AA:671:G:O4'	2.15	0.46
1:CA:189(I):G:H2'	1:CA:189(J):G:H8	1.80	0.46
41:BG:14:GLU:O	41:BG:18:GLU:HB3	2.15	0.46
7:CG:39:ALA:O	7:CG:41:ARG:N	2.49	0.46
26:B0:72:ARG:CD	26:B0:75:LEU:HD13	2.42	0.46
1:AA:761:G:H2'	1:AA:762:C:C6	2.51	0.46
35:BA:1435:G:H2'	35:BA:1436:G:O4'	2.16	0.46
35:BA:2556:C:H2'	35:BA:2557:G:O4'	2.16	0.46
35:BA:1839:G:C5	35:BA:1840:G:N7	2.84	0.46
35:BA:1490:A:H2	38:BD:75:ILE:HD12	1.81	0.46
35:BA:1668:A:C8	35:BA:1674:G:C6	3.04	0.46
2:AB:114:ARG:HH11	2:AB:118:LEU:HD23	1.81	0.46
35:BA:2251:G:H2'	35:BA:2252:G:O4'	2.16	0.46
35:DA:1371:G:H8	35:DA:1371:G:O5'	1.98	0.46
1:CA:23:C:C2'	1:CA:24:U:H5'	2.46	0.46
35:DA:733:G:O6	35:DA:761:A:N7	2.49	0.46
35:BA:641:C:H2'	35:BA:642:G:O4'	2.16	0.46
3:CC:159:GLY:O	3:CC:160:ALA:C	2.54	0.46
35:BA:1305:C:O2'	35:BA:1306:C:H5'	2.15	0.46
9:AI:25:LYS:HG3	9:AI:25:LYS:O	2.16	0.46
35:BA:822:U:H2'	35:BA:822:U:O2	2.16	0.46
35:DA:954:G:OP1	47:DQ:15:GLY:N	2.48	0.46
35:DA:2865:U:H3'	35:DA:2866:U:O2	2.16	0.46
45:DO:59:LYS:O	45:DO:86:ILE:HG23	2.16	0.46
45:DO:62:VAL:CG1	45:DO:65:THR:HG22	2.46	0.46
45:DO:64:ARG:HD3	45:DO:101:PRO:C	2.36	0.46
35:BA:1800:C:C4	35:BA:1818:U:O2	2.69	0.46
38:DD:16:MET:HG3	38:DD:206:LEU:O	2.15	0.46
41:DG:114:ILE:HG13	41:DG:117:PHE:CB	2.46	0.46
41:DG:144:ILE:HD12	41:DG:145:THR:N	2.28	0.46
35:BA:1665:A:C2'	35:BA:1666:G:H5'	2.46	0.46
45:BO:43:VAL:HG11	45:BO:46:ALA:HB2	1.98	0.46
50:BT:31:SER:O	50:BT:32:TYR:O	2.34	0.46
39:BE:9:VAL:HG23	50:BT:8:LYS:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:BZ:128:VAL:HG22	56:BZ:129:SER:N	2.31	0.46
56:BZ:5:LEU:HB2	56:BZ:59:LEU:CD2	2.45	0.46
35:BA:1011:G:OP2	51:BU:70:ARG:NH2	2.49	0.46
42:DH:130:ARG:CB	42:DH:130:ARG:HH11	2.29	0.46
54:BX:83:VAL:HG23	54:BX:83:VAL:O	2.16	0.46
35:BA:2206:G:N2	35:BA:2207:G:C5'	2.73	0.46
35:BA:2220:G:C4	35:BA:2221:G:C8	3.03	0.46
41:BG:113:ARG:O	41:BG:114:ILE:CG1	2.64	0.46
41:BG:169:ALA:C	41:BG:173:LEU:HD23	2.37	0.46
54:DX:37:THR:HG23	54:DX:54:VAL:HB	1.98	0.46
35:DA:2419:U:H2'	35:DA:2420:C:H6	1.80	0.46
41:BG:27:ASN:ND2	41:BG:29:TRP:H	2.14	0.46
1:AA:1049:U:O2'	1:AA:1050:G:OP2	2.29	0.46
3:AC:150:LYS:O	3:AC:201:TYR:N	2.45	0.46
47:DQ:53:ALA:CA	47:DQ:56:ARG:HB3	2.45	0.46
3:CC:109:PRO:HA	3:CC:115:LEU:HD12	1.97	0.46
49:BS:56:LEU:O	49:BS:57:LYS:HB3	2.16	0.46
1:CA:544:G:H2'	1:CA:545:C:H6	1.79	0.46
4:CD:148:VAL:HG21	4:CD:181:MET:HB2	1.98	0.46
4:CD:30:LYS:HA	4:CD:35:ARG:HD2	1.98	0.46
46:BP:16:ARG:O	46:BP:18:ARG:N	2.49	0.46
35:BA:2571:C:H5'	35:BA:2572:A:C5'	2.46	0.46
35:BA:2577:A:H5''	35:BA:2578:G:C5'	2.42	0.46
39:BE:120:TRP:O	39:BE:121:ASN:C	2.53	0.46
35:DA:2415:G:C4'	46:DP:66:GLY:HA3	2.44	0.46
27:B1:37:ILE:CD1	27:B1:37:ILE:H	2.11	0.46
35:BA:1223:G:C5	35:BA:1225:G:OP2	2.68	0.46
35:BA:1259:G:H2'	35:BA:1260:G:C8	2.50	0.46
35:BA:811:U:H1'	35:BA:1251:C:H5''	1.96	0.46
20:AT:74:LYS:CG	20:AT:75:ASN:H	2.28	0.46
35:BA:2714:G:C5	35:BA:2715:C:C4	3.04	0.46
49:DS:101:LEU:HD21	49:DS:103:GLU:HG3	1.97	0.46
49:DS:95:HIS:O	49:DS:98:VAL:HG23	2.16	0.46
44:DN:29:LYS:C	44:DN:31:ALA:H	2.19	0.46
15:CO:66:LEU:O	15:CO:67:LEU:C	2.54	0.46
40:DF:51:THR:HG23	40:DF:92:PRO:HG2	1.98	0.46
52:DV:82:ARG:NH1	52:DV:84:LYS:HD3	2.31	0.46
4:AD:13:ARG:NH1	4:AD:40:PRO:HA	2.30	0.46
18:AR:72:ARG:O	18:AR:75:ILE:N	2.43	0.46
1:CA:778:G:H2'	1:CA:779:C:O4'	2.15	0.46
1:CA:794:A:O2'	1:CA:795:C:H5'	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1236:A:H4'	1:CA:1304:G:H4'	1.97	0.46
1:CA:1227:A:O2'	13:CM:115:LYS:HB2	2.16	0.46
1:AA:374:A:C6	1:AA:375:U:C4	3.04	0.46
25:AY:29:ARG:NH1	25:AY:110:ARG:NH2	2.64	0.46
53:BW:73:ALA:HB3	53:BW:106:ILE:CD1	2.28	0.46
17:CQ:29:HIS:CE1	17:CQ:31:LEU:H	2.33	0.46
42:BH:25:LYS:HB3	42:BH:32:GLU:OE2	2.15	0.46
25:AY:149:LEU:HB3	25:AY:153:GLU:CB	2.46	0.46
6:AF:54:LYS:O	6:AF:56:PRO:HD3	2.15	0.46
11:AK:102:GLY:O	11:AK:103:LEU:O	2.34	0.46
18:AR:87:ARG:HB3	18:AR:87:ARG:HH11	1.77	0.46
35:BA:1426:G:C6	35:BA:1427:A:N1	2.84	0.46
19:AS:40:ILE:HD13	19:AS:62:ILE:CD1	2.45	0.46
35:DA:2261:C:C2	35:DA:2280:G:C2	3.04	0.46
43:BI:94:ALA:HA	43:BI:97:ILE:HG13	1.96	0.46
35:BA:109:G:O2'	35:BA:110:G:H5'	2.15	0.46
22:AV:37:A:C8	22:AV:38:U:C5	3.04	0.46
23:AW:38:A:H2'	23:AW:39:A:H5'	1.98	0.46
13:AM:97:PRO:O	13:AM:98:VAL:N	2.49	0.46
35:DA:661:C:H2'	35:DA:662:G:H8	1.77	0.46
8:AH:114:THR:CG2	8:AH:117:GLY:O	2.64	0.46
8:AH:127:LEU:HD12	8:AH:129:VAL:HG13	1.97	0.46
1:AA:197:A:N6	1:AA:221:C:H5'	2.31	0.46
5:AE:20:GLN:O	5:AE:23:GLY:O	2.34	0.46
25:CY:79:ILE:O	25:CY:82:ALA:HB3	2.16	0.46
1:CA:1118:C:P	9:CI:104:ARG:HG3	2.56	0.46
8:AH:49:GLU:HG2	8:AH:62:TYR:HE2	1.81	0.46
8:AH:51:VAL:HG11	8:AH:60:ARG:CG	2.46	0.46
9:AI:89:ASN:HB3	9:AI:92:TYR:CD1	2.51	0.46
35:BA:2473:U:O2	35:BA:2473:U:C2'	2.64	0.46
35:DA:2120:G:O2'	35:DA:2121:G:H5'	2.16	0.46
1:CA:377:G:O2'	1:CA:378:G:H5'	2.15	0.46
38:DD:123:ALA:HB3	38:DD:131:LEU:HD23	1.98	0.46
35:BA:2883:A:H5'	35:BA:2884:U:H5'	1.98	0.46
2:AB:173:ALA:O	2:AB:174:VAL:C	2.54	0.46
1:CA:678:U:H3	1:CA:713:G:N2	2.14	0.46
1:CA:1423:G:N3	1:CA:1424:C:C6	2.84	0.46
26:D0:36:ILE:HA	26:D0:60:PHE:HB3	1.97	0.46
1:CA:62:U:H5''	1:CA:385:C:O2	2.16	0.46
3:CC:87:LEU:CB	3:CC:101:LEU:HD11	2.46	0.46
1:CA:577:G:C8	1:CA:816:A:C6	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1946:U:HO2'	35:DA:1947:C:H5'	1.81	0.46
35:BA:447:A:N3	35:BA:473:G:C8	2.84	0.46
35:BA:2355:C:C4	35:BA:2356:C:C4	3.04	0.46
1:AA:895:G:C6	1:AA:896:C:N4	2.84	0.46
35:BA:737:C:C2'	35:BA:738:G:O5'	2.63	0.46
13:CM:13:LYS:O	13:CM:45:VAL:HG23	2.16	0.46
1:AA:726:C:H2'	1:AA:727:G:H8	1.81	0.46
1:AA:1405:G:H1	1:AA:1496:C:H42	1.64	0.46
1:AA:1097:C:H2'	1:AA:1098:C:H6	1.79	0.46
1:CA:1095:U:H5'	1:CA:1109:C:O2	2.15	0.46
31:B5:42:PRO:C	31:B5:43:HIS:HD2	2.20	0.46
35:BA:2193:G:C4	35:BA:2194:G:C8	3.04	0.46
35:BA:2194:G:C4	35:BA:2195:C:C5	3.04	0.46
17:CQ:82:MET:HA	17:CQ:85:VAL:HG23	1.97	0.46
35:BA:286:C:C2'	35:BA:286:C:O2	2.60	0.46
35:DA:2773:C:OP1	39:DE:164:ARG:HG2	2.15	0.46
35:BA:2008:C:H2'	35:BA:2009:G:C8	2.51	0.46
44:BN:13:TRP:O	44:BN:135:PRO:HD2	2.15	0.46
1:CA:1295:G:O2'	13:CM:14:ARG:NH1	2.48	0.46
35:DA:1406:U:C3'	35:DA:1407:C:H6	2.29	0.46
17:CQ:12:SER:HA	17:CQ:14:LYS:NZ	2.30	0.46
10:AJ:3:LYS:O	10:AJ:100:THR:HA	2.15	0.46
53:DW:66:GLU:HA	53:DW:69:LEU:HD21	1.96	0.46
35:DA:884:C:H4'	35:DA:892:G:N7	2.30	0.46
7:AG:42:ILE:HG23	7:AG:117:ALA:HA	1.97	0.46
35:BA:2842:G:C6	35:BA:2876:G:C6	3.04	0.46
1:CA:1002:G:H2'	1:CA:1003:G:O4'	2.16	0.46
35:BA:304:G:H1	35:BA:313:C:N4	2.11	0.46
35:DA:2839:G:H1'	48:DR:93:GLY:H	1.80	0.46
11:AK:86:GLY:N	11:AK:112:THR:OG1	2.48	0.46
1:CA:651:C:H2'	1:CA:652:U:H6	1.81	0.46
35:BA:1553:A:N7	35:BA:1555:G:C5	2.83	0.46
35:BA:701:G:O2'	35:BA:702:G:H5'	2.15	0.46
35:BA:1662:C:O2'	35:BA:2687:U:OP1	2.34	0.46
1:CA:789:U:O2	1:CA:789:U:H2'	2.16	0.46
35:BA:433:C:H2'	35:BA:434:U:C6	2.51	0.46
35:DA:210:C:H2'	35:DA:211:A:C8	2.51	0.46
37:BC:51:PRO:O	37:BC:52:ARG:HB2	2.16	0.46
35:DA:451:C:H41	35:DA:453:C:H3'	1.80	0.46
35:DA:2792:G:H2'	35:DA:2792:G:N3	2.30	0.46
1:AA:1001:A:H2	1:AA:1001(A):G:O6	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1011:G:O2'	1:AA:1012:U:H5'	2.16	0.46
1:CA:1111:A:N1	3:CC:177:THR:OG1	2.44	0.46
35:DA:764:A:N1	35:DA:781:A:C2	2.84	0.46
1:CA:411:A:H2'	1:CA:412:A:H4'	1.97	0.46
53:BW:28:SER:O	53:BW:29:LEU:C	2.52	0.46
55:DY:46:LYS:C	55:DY:47:LYS:HD2	2.36	0.46
50:DT:113:LYS:C	50:DT:114:LEU:HD23	2.35	0.46
50:DT:53:ARG:NE	50:DT:60:THR:OG1	2.49	0.46
43:BI:85:GLU:O	43:BI:86:THR:O	2.34	0.46
41:DG:14:GLU:HG2	41:DG:15:VAL:N	2.30	0.46
1:AA:774:G:H1	1:AA:805:C:N4	2.13	0.46
35:BA:1819:A:H5''	38:BD:161:THR:CG2	2.46	0.46
1:CA:16:A:C2	1:CA:17:U:C5	3.04	0.46
1:CA:918:A:H2'	1:CA:919:A:C8	2.51	0.46
38:DD:211:ARG:NH1	38:DD:211:ARG:HG2	2.31	0.46
35:DA:2312:U:H2'	35:DA:2313:C:C5'	2.43	0.46
41:DG:131:TYR:O	41:DG:159:VAL:CG2	2.64	0.46
41:DG:35:GLU:HB3	41:DG:160:VAL:HG11	1.98	0.46
45:BO:14:THR:HG21	45:BO:86:ILE:CG1	2.46	0.46
50:BT:52:ILE:CG2	50:BT:61:PHE:HB2	2.44	0.46
56:BZ:127:LYS:HB2	56:BZ:164:ALA:HB2	1.96	0.46
39:BE:179:GLU:O	39:BE:180:ASN:HB3	2.16	0.46
39:BE:83:ASP:O	39:BE:84:PHE:HB2	2.16	0.46
35:BA:1152:C:O2'	35:BA:1153:C:H5'	2.15	0.46
27:B1:47:GLN:C	27:B1:47:GLN:NE2	2.69	0.46
41:BG:68:PRO:HA	41:BG:92:VAL:HB	1.98	0.46
28:D2:15:LYS:O	28:D2:17:SER:N	2.49	0.46
35:BA:2598:A:H5''	38:BD:236:GLY:CA	2.42	0.46
42:BH:85:LYS:HD3	42:BH:133:VAL:HB	1.98	0.46
47:DQ:28:ALA:HB3	47:DQ:105:GLU:OE2	2.15	0.46
56:DZ:53:ILE:HG22	56:DZ:71:VAL:HG23	1.97	0.46
44:DN:46:VAL:CG1	44:DN:47:ALA:H	1.99	0.46
35:DA:995:C:C2	51:DU:57:PHE:HE2	2.33	0.46
14:AN:3:ARG:O	14:AN:7:ILE:HG23	2.16	0.46
47:DQ:50:ALA:O	47:DQ:54:MET:CB	2.64	0.46
49:BS:25:ARG:HD3	49:BS:42:ASP:OD2	2.16	0.46
49:BS:87:PHE:CZ	49:BS:97:ARG:NH2	2.83	0.46
1:CA:407:G:O2'	4:CD:116:GLN:HG3	2.16	0.46
4:CD:61:LYS:HA	4:CD:203:VAL:CG2	2.31	0.46
47:BQ:20:ALA:HA	47:BQ:98:LYS:HD3	1.98	0.46
25:AY:70:SER:HB3	25:AY:76:LEU:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:394:A:H2'	35:DA:395:U:H5'	1.97	0.46
34:B8:52:LYS:HE3	34:B8:52:LYS:CA	2.43	0.46
39:DE:115:GLY:HA2	39:DE:157:ALA:CB	2.45	0.46
48:DR:88:ARG:NH2	48:DR:89:ASP:OD1	2.48	0.46
35:BA:1281:G:H2'	35:BA:1282:U:H6	1.81	0.46
48:BR:17:ARG:CG	48:BR:17:ARG:NH1	2.76	0.46
48:BR:38:VAL:CB	48:BR:39:PRO:HD3	2.34	0.46
35:BA:2845:G:H5''	50:BT:55:ASN:HA	1.98	0.46
2:CB:83:MET:O	2:CB:86:GLU:N	2.49	0.46
2:AB:165:VAL:CG2	2:AB:166:ASP:N	2.58	0.46
2:AB:36:ARG:HB3	2:AB:41:ILE:CD1	2.42	0.46
35:DA:2240:C:O2'	35:DA:2241:A:H5'	2.16	0.46
2:CB:178:ARG:HH11	2:CB:178:ARG:CG	2.28	0.46
2:CB:54:THR:HG21	2:CB:201:ILE:CD1	2.44	0.46
34:D8:52:LYS:HE3	34:D8:52:LYS:CA	2.43	0.46
35:DA:1214:A:H2'	35:DA:1215:G:C8	2.51	0.46
4:AD:24:GLU:O	4:AD:27:TYR:HB2	2.15	0.46
19:AS:36:ARG:HB3	19:AS:36:ARG:NH1	2.31	0.46
35:DA:105:C:H5'	35:DA:106:C:OP2	2.15	0.46
4:AD:13:ARG:CG	4:AD:14:ARG:H	2.28	0.46
4:AD:13:ARG:HG2	4:AD:14:ARG:H	1.81	0.46
4:AD:65:ARG:NH1	4:AD:72:GLU:CA	2.78	0.46
43:DI:69:LYS:C	43:DI:71:ILE:H	2.19	0.46
35:DA:1916:A:H5'	35:DA:1917:U:OP2	2.15	0.46
35:DA:571:A:H5''	35:DA:2030:A:H62	1.78	0.46
25:CY:3:LEU:O	25:CY:4:LYS:C	2.53	0.46
35:BA:746:A:C5	35:BA:2611:U:H5''	2.51	0.46
16:CP:23:ASP:OD2	16:CP:25:ARG:NH2	2.49	0.46
1:CA:182:U:H2'	1:CA:183:G:O4'	2.16	0.46
25:AY:114:LEU:CD2	25:AY:183:ILE:HG23	2.46	0.46
25:AY:32:ARG:HH21	25:AY:88:LEU:HG	1.81	0.46
42:BH:43:VAL:HB	42:BH:51:ARG:O	2.16	0.46
11:AK:73:MET:SD	11:AK:103:LEU:HD13	2.56	0.46
11:AK:60:ALA:O	11:AK:61:ALA:C	2.54	0.46
11:AK:72:ALA:HB1	11:AK:77:MET:HE3	1.97	0.46
11:AK:73:MET:HA	11:AK:77:MET:HB3	1.98	0.46
33:B7:24:THR:O	33:B7:28:ARG:HG3	2.16	0.46
35:DA:2263:C:O2'	35:DA:2264:C:H5'	2.16	0.46
55:BY:42:VAL:CB	55:BY:65:ALA:HB3	2.46	0.46
7:AG:149:ARG:HB3	11:AK:59:TYR:CE2	2.51	0.46
13:AM:91:ARG:HB2	13:AM:98:VAL:HG22	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:98:PRO:O	20:AT:100:ILE:N	2.49	0.46
42:BH:19:VAL:CG1	42:BH:44:VAL:HG22	2.46	0.46
1:AA:1396:A:H4'	1:AA:1398:A:H1'	1.97	0.46
1:AA:1080:A:C5'	5:AE:16:THR:HG21	2.46	0.46
1:CA:1349:A:H3'	9:CI:118:LYS:CE	2.34	0.46
56:DZ:110:GLY:O	56:DZ:111:VAL:HG12	2.16	0.46
9:CI:28:VAL:HG22	9:CI:63:ILE:O	2.15	0.46
9:CI:4:TYR:HA	9:CI:88:TYR:CE1	2.51	0.46
5:CE:147:ASP:O	5:CE:151:LEU:HG	2.16	0.46
38:BD:117:VAL:CG2	38:BD:118:VAL:N	2.75	0.46
38:BD:172:TYR:CD1	38:BD:186:HIS:CA	2.94	0.46
46:BP:101:VAL:O	46:BP:103:ALA:N	2.49	0.46
46:BP:131:SER:O	46:BP:135:LEU:N	2.49	0.46
40:BF:167:ALA:HB1	40:BF:173:VAL:CG1	2.46	0.46
35:BA:2605:U:H2'	35:BA:2606:C:C6	2.51	0.46
1:CA:685:G:H21	1:CA:686:U:H3	1.63	0.46
53:BW:14:PRO:O	53:BW:15:ARG:C	2.54	0.46
35:DA:2732:G:H2'	35:DA:2733:A:H5'	1.96	0.46
1:AA:1075:C:H5'	2:AB:103:THR:HG21	1.98	0.46
35:DA:374:A:H2'	35:DA:375:C:H5'	1.98	0.46
1:AA:932:C:H4'	7:AG:4:ARG:NH2	2.31	0.46
40:DF:9:ILE:HG23	40:DF:14:PRO:HA	1.98	0.46
20:CT:26:ASN:O	20:CT:27:LYS:C	2.54	0.46
1:AA:116:A:H61	1:AA:313:A:H1'	1.80	0.46
5:CE:101:ILE:HG12	5:CE:118:ILE:O	2.16	0.46
3:AC:178:LEU:H	3:AC:178:LEU:HD22	1.81	0.46
1:CA:728:A:C2	1:CA:729:A:C5	3.04	0.46
35:BA:467:G:H2'	35:BA:468:G:C8	2.40	0.46
29:B3:11:SER:OG	29:B3:12:PRO:HD2	2.16	0.46
35:DA:1710:C:O2'	35:DA:1711:C:H5'	2.16	0.46
1:AA:854:G:OP2	1:AA:871:U:C5	2.69	0.46
35:DA:1644:C:C2'	35:DA:1645:G:H5'	2.46	0.46
36:BB:66:A:C2	36:BB:109:C:C2	3.04	0.46
1:CA:893:C:H2'	1:CA:894:G:H8	1.81	0.46
1:CA:343:U:O2'	1:CA:344:A:H2'	2.16	0.46
23:CW:34:U:O2'	23:CW:36:A:N7	2.45	0.46
31:D5:42:PRO:C	31:D5:43:HIS:CD2	2.89	0.46
35:DA:2193:G:C4	35:DA:2194:G:C8	3.04	0.46
1:AA:29:G:H5'	1:AA:296:U:OP1	2.16	0.46
1:CA:136:C:H42	1:CA:227:G:H1	1.64	0.46
1:AA:818:G:C3'	1:AA:819:A:C5'	2.91	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:819:A:C8	1:AA:1529:G:N1	2.83	0.46
35:BA:552:G:H1'	35:BA:1220:A:C2	2.51	0.46
35:BA:1853:A:N1	35:BA:2087:G:H1'	2.30	0.46
35:BA:1331:A:H2'	35:BA:1333:C:H5	1.81	0.46
35:BA:1387:C:C5'	35:BA:1469:A:H4'	2.46	0.46
35:BA:1467:C:N4	35:BA:1525:G:H1	2.14	0.46
1:CA:474:G:O2'	1:CA:475:G:H5'	2.16	0.46
45:BO:19:ILE:HG22	45:BO:42:SER:C	2.36	0.46
1:CA:829:G:H2'	1:CA:830:G:C8	2.51	0.46
55:BY:84:ARG:O	55:BY:85:VAL:HG22	2.16	0.46
35:BA:1130:U:O2	35:BA:2025:C:H5''	2.15	0.46
43:BI:42:SER:C	43:BI:44:LEU:N	2.69	0.46
35:BA:1021:A:C3'	35:BA:1021:A:C8	2.99	0.46
12:AL:104:VAL:HG12	12:AL:105:TYR:N	2.30	0.46
35:DA:790:C:H4'	35:DA:790:C:OP1	2.16	0.46
35:DA:1360:A:C5	35:DA:1372:U:C4	3.04	0.46
1:AA:517:G:N3	1:AA:531:U:H5'	2.31	0.46
35:BA:1831:G:H2'	35:BA:1832:C:H6	1.81	0.46
35:BA:1479:G:H2'	35:BA:1480:G:O4'	2.15	0.46
36:DB:63:G:N3	36:DB:63:G:H2'	2.31	0.46
35:BA:134:C:O2'	35:BA:135:G:H5'	2.15	0.46
35:BA:2362:G:O2'	35:BA:2363:C:H5'	2.15	0.46
56:BZ:47:VAL:O	56:BZ:51:ALA:HB3	2.15	0.46
50:BT:17:THR:O	50:BT:18:ASP:HB3	2.16	0.46
35:DA:2683:C:O2'	35:DA:2684:U:H5'	2.16	0.46
45:DO:68:GLU:HB3	45:DO:78:ARG:CD	2.46	0.46
45:DO:71:ARG:HH12	50:DT:74:ARG:HH22	1.63	0.46
50:DT:105:LEU:O	50:DT:113:LYS:NZ	2.49	0.46
35:BA:1803:A:C8	35:BA:1804:C:C5	3.03	0.46
38:BD:233:HIS:O	38:BD:234:GLY:C	2.54	0.46
38:DD:61:LEU:HD12	38:DD:62:TYR:N	2.31	0.46
35:BA:2287:A:C2	35:BA:2289:G:C8	3.04	0.46
47:DQ:127:ILE:HG22	47:DQ:128:LYS:N	2.21	0.46
35:BA:1675:C:C2	39:BE:129:HIS:CD2	3.04	0.46
35:BA:2684:U:C2'	35:BA:2685:G:H5'	2.46	0.46
45:BO:31:LYS:HD2	45:BO:32:TYR:CE1	2.49	0.46
35:BA:1666:G:O3'	45:BO:6:THR:HG23	2.14	0.46
16:AP:19:ILE:HB	16:AP:37:GLY:C	2.35	0.46
56:BZ:94:GLU:HA	56:BZ:95:PRO:HD2	1.83	0.46
39:BE:4:ILE:HG12	39:BE:28:ALA:HB1	1.96	0.46
35:DA:1494:A:C3'	35:DA:1494:A:N3	2.73	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1494:A:O2'	35:DA:1495:A:H5''	2.16	0.46
42:DH:162:ILE:C	42:DH:163:TYR:CD1	2.89	0.46
1:AA:972:C:C4'	10:AJ:57:LYS:HG3	2.44	0.46
28:B2:26:ARG:NH2	54:BX:6:ASP:HA	2.31	0.46
28:B2:51:ARG:HE	28:B2:55:ARG:NH1	2.14	0.46
35:BA:58:G:H1	35:BA:69:C:N4	2.14	0.46
35:DA:2633:G:N2	35:DA:2634:G:H1'	2.31	0.46
27:B1:46:LEU:N	27:B1:46:LEU:CD1	2.74	0.46
27:B1:48:LYS:HA	27:B1:48:LYS:HE3	1.97	0.46
41:BG:37:VAL:HG12	41:BG:94:LEU:HD12	1.98	0.46
35:DA:1346:G:H1	35:DA:1600:C:H42	1.65	0.46
28:D2:26:ARG:CD	54:DX:5:TYR:HB3	2.45	0.46
42:BH:92:ILE:O	42:BH:94:TYR:N	2.48	0.46
56:DZ:166:SER:OG	56:DZ:169:GLU:HB3	2.15	0.46
51:DU:78:THR:C	51:DU:80:ILE:H	2.19	0.46
52:DV:3:ALA:HB3	52:DV:14:VAL:CB	2.45	0.46
1:CA:434:U:H2'	1:CA:435:C:N1	2.31	0.46
4:CD:72:GLU:O	4:CD:76:ARG:N	2.44	0.46
43:DI:119:PRO:O	43:DI:121:LYS:N	2.48	0.46
35:BA:598:G:C6	35:BA:660:G:C6	3.04	0.46
35:DA:245:G:H5'	46:DP:70:GLN:H	1.80	0.46
35:BA:2052:G:N2	39:BE:149:ARG:HA	2.30	0.46
46:DP:64:LYS:HB3	46:DP:65:ARG:H	1.56	0.46
35:BA:588:U:H1'	40:BF:90:PHE:HB3	1.97	0.46
40:BF:53:THR:HG23	40:BF:56:GLU:CB	2.28	0.46
35:BA:814:C:OP1	52:BV:84:LYS:HA	2.16	0.46
40:DF:112:MET:O	40:DF:113:ALA:C	2.55	0.46
55:BY:76:CYS:HB3	55:BY:96:ILE:CD1	2.44	0.46
35:BA:2820:A:C8	39:BE:191:PRO:CB	2.99	0.46
1:AA:106:C:O2'	1:AA:107:G:H5'	2.16	0.46
20:AT:43:LEU:HA	20:AT:46:GLU:HB3	1.97	0.46
35:BA:1288:U:C2	35:BA:1327:C:O2	2.69	0.46
35:BA:1653:G:O2'	35:BA:1654:A:OP2	2.28	0.46
2:AB:69:LEU:HB2	2:AB:162:ILE:HG22	1.98	0.46
35:DA:2533:A:C3'	35:DA:2534:A:H5''	2.44	0.46
35:DA:198:C:H6	35:DA:198:C:O5'	1.99	0.46
44:DN:17:ASP:OD1	44:DN:56:ASN:HB3	2.16	0.46
44:BN:122:VAL:HG12	44:BN:123:TYR:N	2.30	0.46
44:BN:28:THR:HG22	44:BN:29:LYS:N	2.31	0.46
44:BN:17:ASP:OD1	44:BN:56:ASN:HB3	2.16	0.46
15:CO:39:LEU:O	15:CO:42:HIS:HB3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:CR:37:VAL:O	18:CR:40:LEU:N	2.49	0.46
1:AA:984:C:H2'	1:AA:985:C:C6	2.51	0.46
1:AA:544:G:C4	1:AA:545:C:C5	3.03	0.46
47:DQ:86:GLY:C	47:DQ:88:GLY:H	2.20	0.46
2:AB:115:LEU:HD21	2:AB:153:ARG:NE	2.31	0.46
1:CA:1305:G:H5'	21:CU:4:GLY:CA	2.39	0.46
12:CL:27:LEU:C	12:CL:29:GLY:N	2.69	0.46
20:CT:98:PRO:O	20:CT:100:ILE:N	2.49	0.46
25:AY:61:PRO:HD2	25:AY:65:THR:C	2.36	0.46
25:AY:84:ARG:C	25:AY:86:SER:N	2.69	0.46
1:AA:1016:A:H2'	1:AA:1017:G:H5'	1.97	0.46
25:AY:6:LEU:O	25:AY:9:GLU:N	2.48	0.46
53:BW:4:LYS:HA	53:BW:106:ILE:HA	1.98	0.46
1:CA:583:A:H2'	1:CA:584:G:C8	2.51	0.46
35:BA:1131:G:C2	35:BA:1132:A:C5	3.04	0.46
33:B7:16:HIS:HD1	33:B7:21:ARG:NH2	2.14	0.46
35:BA:774:A:HO2'	35:BA:775:G:H8	1.63	0.46
43:BI:110:ASP:O	43:BI:114:LEU:HG	2.15	0.46
7:AG:84:ASN:HB2	23:AW:33:C:O2'	2.16	0.46
23:AW:40:C:H2'	23:AW:41:C:H6	1.80	0.46
13:AM:89:GLY:O	13:AM:90:LEU:O	2.34	0.46
35:BA:926:A:C4	35:BA:927:G:C8	3.04	0.46
40:BF:132:VAL:O	40:BF:133:ASN:C	2.54	0.46
2:CB:142:LEU:HD23	2:CB:142:LEU:C	2.36	0.46
2:CB:142:LEU:O	2:CB:142:LEU:HD23	2.16	0.46
3:CC:172:ARG:NH1	3:CC:174:PRO:HG2	2.31	0.46
12:AL:90:VAL:CG1	12:AL:93:LEU:HG	2.44	0.46
8:CH:26:VAL:CG2	8:CH:32:LYS:NZ	2.73	0.46
37:DC:35:ALA:O	37:DC:36:LYS:HE3	2.15	0.46
9:CI:27:THR:C	9:CI:28:VAL:HG23	2.37	0.46
9:CI:37:PHE:CZ	9:CI:74:ILE:HG12	2.51	0.46
46:DP:126:VAL:CA	46:DP:145:PRO:HG2	2.45	0.46
5:CE:147:ASP:C	5:CE:150:ARG:HB3	2.37	0.46
56:BZ:140:ASP:OD2	56:BZ:140:ASP:N	2.49	0.46
35:BA:627:A:H8	35:BA:627:A:OP1	1.99	0.46
1:CA:374:A:C6	1:CA:375:U:C4	3.04	0.46
54:BX:18:TYR:O	54:BX:21:PHE:HB2	2.15	0.46
1:AA:777:A:H2'	1:AA:778:G:C8	2.51	0.46
46:BP:75:ILE:HD13	46:BP:77:ARG:NH2	2.30	0.46
35:BA:1271:G:N2	35:BA:1617:C:C4'	2.79	0.46
35:BA:2884:U:C2'	35:BA:2885:C:H5'	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2205:C:H1'	35:DA:2220:G:N2	2.31	0.46
29:D3:7:LYS:O	29:D3:9:VAL:HG13	2.16	0.46
23:AW:16:C:H4'	23:AW:20:G:OP1	2.16	0.46
7:AG:64:GLN:O	7:AG:66:VAL:N	2.49	0.46
35:DA:49:A:OP2	35:DA:50:U:H3'	2.16	0.46
35:BA:1578:U:C2'	35:BA:1579:A:H5''	2.46	0.46
17:CQ:15:MET:HG2	17:CQ:16:GLN:N	2.31	0.46
3:CC:88:ARG:HG2	3:CC:101:LEU:CB	2.45	0.46
3:AC:84:ILE:CA	3:AC:87:LEU:HD12	2.40	0.46
35:BA:2637:U:H1'	35:BA:2782:G:N2	2.30	0.46
25:CY:107:THR:OG1	25:CY:108:GLU:N	2.48	0.46
25:CY:107:THR:HA	25:CY:111:ARG:NH1	2.31	0.46
36:BB:78:A:H2'	36:BB:79:C:O4'	2.16	0.46
29:B3:29:ARG:O	29:B3:30:ARG:C	2.54	0.46
53:BW:17:VAL:O	53:BW:20:VAL:CG2	2.64	0.46
8:CH:53:VAL:HG12	8:CH:54:ASP:OD2	2.16	0.46
48:BR:103:ARG:HB3	48:BR:109:ALA:O	2.15	0.46
1:AA:1466:C:H2'	1:AA:1467:G:C8	2.51	0.46
35:BA:2073:C:H2'	35:BA:2074:U:H6	1.81	0.46
1:CA:1243:C:OP2	21:CU:10:ARG:NH1	2.49	0.46
35:DA:2008:C:H2'	35:DA:2009:G:C8	2.50	0.46
40:DF:126:VAL:O	40:DF:127:GLU:HB2	2.15	0.46
33:D7:48:LYS:CD	33:D7:48:LYS:N	2.78	0.46
23:CW:14:A:H2'	23:CW:15:G:H5'	1.98	0.46
35:BA:979:G:N2	35:BA:985:C:N4	2.64	0.46
1:CA:769:G:H1	1:CA:810:C:H42	1.64	0.46
35:DA:2087:G:C2'	35:DA:2088:G:H5'	2.46	0.46
1:CA:670:G:H2'	1:CA:671:G:O4'	2.16	0.46
43:DI:28:ASN:C	43:DI:32:PRO:HG2	2.35	0.46
43:DI:29:TYR:CD2	43:DI:30:LEU:HD23	2.51	0.46
1:AA:1030(C):G:N7	1:AA:1031:G:N2	2.64	0.46
39:BE:93:VAL:C	39:BE:95:ILE:N	2.67	0.46
35:BA:1444:G:N2	35:BA:1548:C:C2	2.83	0.46
1:CA:1019:C:H2'	1:CA:1020:U:O4'	2.16	0.46
3:CC:94:LEU:HD12	3:CC:95:THR:N	2.31	0.46
35:BA:372:G:O2'	35:BA:373:U:P	2.74	0.46
35:DA:2068:U:N3	35:DA:2430:A:C2	2.80	0.46
1:AA:1494:G:C5'	35:BA:1913:A:C6	2.99	0.46
35:BA:118:A:H1'	35:BA:178:G:O4'	2.16	0.46
1:AA:1333:A:H2'	1:AA:1334:G:O4'	2.16	0.46
35:DA:1164:G:C6	35:DA:1165:U:C4	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:221:LEU:HD13	2:CB:221:LEU:C	2.37	0.46
9:CI:99:LEU:O	9:CI:100:GLY:C	2.54	0.46
35:DA:1692:U:H2'	35:DA:1694:C:C5	2.51	0.46
35:DA:954:G:N3	35:DA:954:G:H2'	2.30	0.46
4:CD:167:GLY:O	4:CD:168:ARG:C	2.55	0.46
9:AI:99:LEU:O	9:AI:100:GLY:C	2.54	0.46
55:DY:60:PHE:O	55:DY:62:GLU:OE2	2.34	0.45
45:DO:10:VAL:HB	45:DO:12:ASP:OD2	2.15	0.45
50:DT:102:ILE:O	50:DT:103:ARG:C	2.54	0.45
50:DT:52:ILE:HA	50:DT:61:PHE:HA	1.98	0.45
45:DO:77:ILE:HD13	50:DT:74:ARG:HG3	1.99	0.45
1:CA:972:C:C4'	10:CJ:57:LYS:HG3	2.41	0.45
14:CN:41:ARG:HG3	14:CN:42:ILE:N	2.30	0.45
35:BA:729:G:C4	35:BA:1775:U:C2	3.03	0.45
38:BD:49:ILE:O	38:BD:49:ILE:HG13	2.15	0.45
35:DA:1568:G:P	38:DD:63:ARG:HH22	2.38	0.45
35:DA:1775:U:H2'	35:DA:1776:G:O5'	2.16	0.45
41:DG:113:ARG:C	41:DG:114:ILE:HG12	2.36	0.45
41:DG:38:VAL:HG13	41:DG:92:VAL:O	2.16	0.45
45:BO:1:MET:HE2	45:BO:1:MET:N	2.30	0.45
50:BT:70:VAL:HG12	50:BT:71:GLY:O	2.16	0.45
50:BT:32:TYR:HD2	50:BT:81:PRO:CB	2.29	0.45
56:BZ:54:HIS:HB3	56:BZ:101:PRO:CD	2.46	0.45
56:BZ:79:ARG:O	56:BZ:79:ARG:HG2	2.15	0.45
47:BQ:141:GLN:OE1	56:BZ:89:PHE:HB3	2.16	0.45
39:BE:48:GLN:CG	39:BE:78:LEU:HD12	2.45	0.45
1:AA:1062:U:H2'	1:AA:1063:C:C5	2.51	0.45
51:BU:111:GLU:O	51:BU:115:ALA:CB	2.64	0.45
52:BV:39:LEU:HD11	52:BV:53:GLU:CA	2.45	0.45
42:DH:84:SER:O	42:DH:133:VAL:O	2.34	0.45
1:AA:1223:C:OP2	1:AA:1224:G:H8	1.98	0.45
35:BA:1341:U:H2'	35:BA:1397:U:O2	2.15	0.45
54:BX:59:VAL:HG22	54:BX:74:PRO:O	2.16	0.45
35:BA:2312:U:O3'	41:BG:71:THR:HG21	2.15	0.45
54:DX:72:LYS:O	54:DX:73:ARG:HB3	2.16	0.45
44:DN:42:TRP:HE3	44:DN:48:MET:SD	2.39	0.45
52:DV:22:VAL:CG2	52:DV:96:ILE:HB	2.45	0.45
10:AJ:4:ILE:HG23	10:AJ:98:ILE:CG2	2.41	0.45
47:DQ:55:VAL:CG2	47:DQ:56:ARG:N	2.79	0.45
32:D6:26:ASN:O	32:D6:27:LYS:HD3	2.15	0.45
49:BS:74:ALA:HB2	49:BS:101:LEU:HD11	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BS:15:ARG:HA	49:BS:17:ARG:HG2	1.98	0.45
27:D1:64:ALA:O	27:D1:67:ILE:CG1	2.57	0.45
35:DA:371:A:C4	35:DA:373:U:C4	3.04	0.45
52:BV:72:VAL:CG1	52:BV:73:SER:H	2.21	0.45
35:DA:1453:U:H4'	35:DA:1455:G:OP1	2.16	0.45
48:DR:14:SER:O	48:DR:16:HIS:N	2.49	0.45
35:DA:1278:A:C5'	48:DR:36:THR:HG22	2.45	0.45
48:BR:74:LYS:O	48:BR:75:LEU:C	2.55	0.45
2:CB:74:LYS:O	2:CB:75:LYS:C	2.55	0.45
2:CB:77:ALA:C	2:CB:80:ILE:HG23	2.37	0.45
44:DN:122:VAL:HG12	44:DN:123:TYR:N	2.29	0.45
6:CF:9:VAL:HG12	6:CF:10:LEU:N	2.30	0.45
2:CB:72:GLY:HA2	2:CB:165:VAL:HG22	1.98	0.45
35:DA:585:G:C5	35:DA:1251:C:C4	3.04	0.45
40:DF:55:GLY:O	40:DF:56:GLU:C	2.53	0.45
52:DV:83:ARG:NH1	52:DV:83:ARG:CG	2.68	0.45
4:AD:101:LEU:O	4:AD:104:VAL:HB	2.17	0.45
1:AA:409:G:H5'	4:AD:25:ARG:HB2	1.97	0.45
55:DY:28:LYS:HZ1	55:DY:37:VAL:HA	1.74	0.45
1:AA:1357:A:N6	1:AA:1363(A):A:H2	2.14	0.45
4:AD:13:ARG:O	4:AD:14:ARG:C	2.54	0.45
35:DA:957:A:OP1	35:DA:957:A:H8	1.99	0.45
47:DQ:70:PRO:HA	47:DQ:95:ALA:HB2	1.98	0.45
35:BA:2764:A:H2'	35:BA:2766:G:C8	2.51	0.45
1:CA:1493:A:H5''	1:CA:1494:G:OP1	2.15	0.45
25:CY:30:THR:O	25:CY:32:ARG:N	2.49	0.45
35:BA:1215:G:H2'	35:BA:1216:G:O4'	2.16	0.45
43:BI:2:LYS:O	43:BI:39:ALA:HB2	2.16	0.45
13:CM:116:THR:HG22	13:CM:117:VAL:H	1.79	0.45
16:AP:48:TRP:O	16:AP:49:LEU:C	2.52	0.45
16:AP:67:THR:HG21	16:AP:69:THR:HG23	1.98	0.45
16:CP:23:ASP:OD1	16:CP:24:ALA:N	2.49	0.45
1:CA:193:C:H2'	1:CA:194:C:C6	2.51	0.45
1:CA:193:C:O2'	1:CA:194:C:H5'	2.16	0.45
25:AY:66:LEU:N	25:AY:66:LEU:HD12	2.31	0.45
1:AA:1015:A:H2'	1:AA:1016:A:H8	1.81	0.45
1:AA:551:U:C2	1:AA:552:U:C5	3.04	0.45
35:BA:1425:G:H2'	35:BA:1426:G:C8	2.51	0.45
42:DH:35:VAL:O	42:DH:37:VAL:HG23	2.16	0.45
42:DH:61:HIS:O	42:DH:65:HIS:HB3	2.17	0.45
55:BY:37:VAL:CG2	55:BY:38:ILE:H	2.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:CT:74:LYS:CG	20:CT:75:ASN:H	2.28	0.45
7:AG:149:ARG:HD3	11:AK:59:TYR:CE1	2.51	0.45
1:CA:1118:C:O5'	9:CI:104:ARG:HG3	2.16	0.45
8:AH:85:ARG:HA	8:AH:135:CYS:HB3	1.97	0.45
9:AI:47:LEU:CB	9:AI:50:LEU:HD12	2.46	0.45
9:AI:5:TYR:OH	9:AI:7:THR:HG23	2.16	0.45
9:AI:85:LEU:C	9:AI:85:LEU:HD12	2.36	0.45
8:CH:35:ILE:HG22	8:CH:111:ILE:HD13	1.99	0.45
31:D5:49:CYS:O	31:D5:57:VAL:HG22	2.16	0.45
1:AA:1351:U:O4	9:AI:118:LYS:HE2	2.16	0.45
35:BA:2745:C:H1'	42:BH:143:GLN:HG2	1.97	0.45
46:DP:126:VAL:HG22	46:DP:145:PRO:CB	2.46	0.45
35:BA:1986:A:H3'	35:BA:1987:G:C5'	2.37	0.45
5:CE:144:THR:O	5:CE:145:LYS:C	2.54	0.45
42:DH:13:LYS:CE	42:DH:13:LYS:HA	2.36	0.45
53:DW:10:VAL:HB	53:DW:101:SER:O	2.17	0.45
56:BZ:108:PRO:HB2	56:BZ:144:LEU:O	2.16	0.45
38:DD:131:LEU:H	38:DD:131:LEU:HD12	1.80	0.45
1:AA:677:U:H3	1:AA:713:G:N2	2.12	0.45
53:BW:10:VAL:CG2	53:BW:101:SER:O	2.65	0.45
7:AG:66:VAL:C	7:AG:68:ASN:H	2.18	0.45
1:CA:445:G:C6	1:CA:490:G:O6	2.69	0.45
35:DA:271(W):G:H5'	35:DA:271(X):G:OP1	2.16	0.45
17:CQ:67:LYS:O	17:CQ:69:LYS:N	2.49	0.45
35:DA:1300:U:O2'	35:DA:1301:A:P	2.74	0.45
17:AQ:67:LYS:C	17:AQ:70:ARG:HH12	2.18	0.45
1:AA:36:C:O2'	1:AA:37:U:H5'	2.15	0.45
1:CA:1462:G:O2'	1:CA:1463:C:H5'	2.16	0.45
1:CA:321:A:N7	1:CA:328:C:O2	2.49	0.45
35:BA:524:U:H4'	35:BA:555:U:H4'	1.97	0.45
35:BA:1711:C:H2'	35:BA:1712:C:C6	2.50	0.45
26:B0:38:VAL:CG2	26:B0:59:LEU:HB2	2.46	0.45
13:CM:10:PRO:HB2	13:CM:18:ALA:HB1	1.98	0.45
46:BP:56:SER:C	46:BP:58:THR:N	2.69	0.45
35:DA:1806:C:C5	35:DA:1807:G:N7	2.84	0.45
1:CA:1098:C:C2	1:CA:1099:G:C8	3.04	0.45
35:BA:2101:G:C6	35:BA:2102:U:C6	3.04	0.45
35:DA:614:U:O2	35:DA:614:U:O4'	2.31	0.45
52:DV:43:GLU:HA	52:DV:47:VAL:N	2.31	0.45
7:CG:150:ALA:C	7:CG:152:ALA:N	2.68	0.45
43:BI:62:LYS:C	43:BI:62:LYS:HD3	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:15:ASP:O	7:AG:19:GLY:HA2	2.16	0.45
1:CA:799:G:C2'	1:CA:800:G:H5'	2.46	0.45
9:CI:18:PHE:HD1	9:CI:62:TYR:CD2	2.34	0.45
1:AA:1295:G:O2'	13:AM:14:ARG:NH1	2.49	0.45
35:BA:2057:A:O2'	35:BA:2058:A:H5'	2.15	0.45
35:BA:1935:G:C3'	35:BA:1962:C:H42	2.28	0.45
1:AA:927:G:H4'	1:AA:1503:A:N7	2.31	0.45
11:CK:86:GLY:N	11:CK:112:THR:HG23	2.29	0.45
1:CA:1161:C:H2'	1:CA:1162:C:H6	1.81	0.45
9:CI:48:GLU:N	9:CI:49:PRO:CD	2.79	0.45
4:CD:25:ARG:C	4:CD:27:TYR:N	2.69	0.45
35:DA:858:U:O2	35:DA:2268:A:H2'	2.16	0.45
35:BA:2650:U:H2'	35:BA:2651:C:H6	1.80	0.45
35:DA:2870:C:H2'	35:DA:2871:C:C5'	2.46	0.45
1:AA:573:A:C2	1:AA:574:A:C2	3.05	0.45
35:BA:947:G:H2'	35:BA:948:G:H8	1.81	0.45
35:BA:2523:G:H5'	35:BA:2523:G:H8	1.80	0.45
41:BG:52:ILE:O	41:BG:54:GLU:HG3	2.15	0.45
35:DA:1647:G:OP2	35:DA:1647:G:H3'	2.17	0.45
25:AY:184:LEU:CD2	25:AY:185:GLY:N	2.79	0.45
7:AG:133:GLY:HA2	7:AG:136:LYS:CG	2.46	0.45
35:BA:2793:G:C2	35:BA:2794:C:N3	2.85	0.45
1:CA:1262:C:C2	1:CA:1263:C:C5	3.05	0.45
35:BA:2584:U:O4'	35:BA:2584:U:O2	2.34	0.45
1:AA:27:G:H2'	1:AA:28:G:H8	1.81	0.45
15:CO:41:GLU:O	15:CO:44:LYS:HB3	2.16	0.45
35:BA:2295:C:O2'	35:BA:2296:U:H5'	2.16	0.45
45:DO:14:THR:HG21	45:DO:86:ILE:CG1	2.46	0.45
41:DG:21:ARG:HH11	41:DG:22:ARG:HB2	1.81	0.45
38:DD:61:LEU:HD12	38:DD:62:TYR:H	1.80	0.45
38:DD:25:THR:HG21	38:DD:82:ILE:H	1.81	0.45
32:B6:27:LYS:HE2	35:BA:2285:C:H5	1.81	0.45
45:BO:60:ALA:HA	45:BO:87:ILE:H	1.82	0.45
56:BZ:71:VAL:HG13	56:BZ:86:VAL:HG13	1.97	0.45
39:BE:88:GLY:O	39:BE:89:ASP:CB	2.64	0.45
51:BU:111:GLU:C	51:BU:113:ALA:N	2.68	0.45
52:BV:3:ALA:HB3	52:BV:14:VAL:CB	2.42	0.45
14:AN:27:CYS:O	14:AN:27:CYS:SG	2.74	0.45
28:B2:26:ARG:O	28:B2:29:LYS:N	2.48	0.45
35:BA:60:G:C5	35:BA:63:U:C4	3.04	0.45
35:BA:76:C:H2'	35:BA:77:C:C6	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DE:61:ARG:CG	39:DE:62:PRO:HD3	2.44	0.45
35:DA:71:A:C8	35:DA:71:A:H5'	2.51	0.45
44:DN:38:HIS:CG	44:DN:39:ARG:H	2.34	0.45
52:DV:17:GLY:HA2	52:DV:98:GLU:O	2.16	0.45
10:AJ:28:ARG:NH2	10:AJ:34:VAL:O	2.50	0.45
49:BS:26:LEU:CD2	49:BS:28:VAL:HG22	2.46	0.45
35:BA:225:A:O2'	35:BA:257:A:H4'	2.16	0.45
40:BF:24:LEU:O	40:BF:25:PRO:C	2.53	0.45
40:BF:25:PRO:HB3	40:BF:119:ARG:HD3	1.98	0.45
40:BF:28:ILE:CD1	40:BF:28:ILE:N	2.78	0.45
39:BE:116:VAL:CG2	39:BE:122:PHE:CG	2.99	0.45
39:BE:120:TRP:CD2	39:BE:155:LYS:HD3	2.51	0.45
27:D1:87:PRO:CB	27:D1:91:LYS:HZ2	2.29	0.45
34:D8:30:ARG:NE	46:DP:62:LEU:HB2	2.29	0.45
46:BP:70:GLN:CG	46:BP:71:VAL:N	2.77	0.45
35:BA:1186:G:O2'	35:BA:1187:G:H5'	2.16	0.45
35:BA:806:C:O2'	35:BA:807:U:H5'	2.16	0.45
52:BV:75:PHE:CE1	52:BV:89:GLN:HB2	2.51	0.45
5:AE:55:VAL:O	5:AE:58:ALA:HB3	2.16	0.45
35:BA:2695:C:H2'	35:BA:2696:U:C6	2.50	0.45
2:AB:51:LEU:O	2:AB:55:PHE:HD2	1.98	0.45
35:BA:9:U:O2'	35:BA:10:G:O5'	2.33	0.45
18:CR:36:ASN:HB2	18:CR:39:VAL:CG2	2.46	0.45
52:DV:75:PHE:HB2	52:DV:87:HIS:HB3	1.97	0.45
1:AA:1412:C:H2'	1:AA:1413:A:H8	1.70	0.45
1:AA:1488:G:H2'	1:AA:1489:G:C8	2.51	0.45
43:DI:110:ASP:O	43:DI:114:LEU:HG	2.17	0.45
35:DA:2034:U:H2'	35:DA:2035:G:H5'	1.98	0.45
35:DA:563:G:OP2	35:DA:572:A:H5'	2.15	0.45
7:AG:104:LEU:H	7:AG:104:LEU:HD22	1.80	0.45
35:DA:580:C:H2'	35:DA:581:C:H6	1.80	0.45
25:CY:134:ARG:HG2	25:CY:138:ASP:OD1	2.16	0.45
12:CL:95:GLY:O	12:CL:97:ARG:N	2.49	0.45
13:CM:91:ARG:HB2	13:CM:98:VAL:HG22	1.98	0.45
16:AP:39:TYR:C	16:AP:39:TYR:CD1	2.90	0.45
1:CA:261:U:O2	1:CA:263:A:C8	2.68	0.45
11:AK:21:ILE:HG13	11:AK:30:VAL:HG12	1.98	0.45
33:B7:23:ARG:O	33:B7:28:ARG:NH1	2.48	0.45
26:D0:11:ARG:O	26:D0:12:ASN:OD1	2.33	0.45
35:BA:105:C:H5'	35:BA:106:C:OP2	2.16	0.45
55:BY:34:LYS:O	55:BY:35:TYR:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:148:ASN:O	7:AG:150:ALA:N	2.50	0.45
11:AK:23:ALA:O	11:AK:87:THR:N	2.49	0.45
1:AA:959:A:H3'	1:AA:960:U:H5''	1.99	0.45
8:AH:114:THR:HG21	8:AH:119:LEU:HD21	1.97	0.45
1:AA:16:A:N1	1:AA:919:A:C2	2.81	0.45
25:CY:83:ILE:HG22	25:CY:84:ARG:N	2.31	0.45
1:CA:1351:U:O4	9:CI:118:LYS:HE2	2.16	0.45
9:CI:9:ARG:HA	9:CI:14:VAL:HA	1.99	0.45
1:AA:522:C:H1'	1:AA:536:C:H5'	1.97	0.45
8:AH:11:THR:CA	8:AH:14:ARG:HH12	2.29	0.45
1:AA:1150:U:O3'	10:AJ:41:PRO:HA	2.16	0.45
12:CL:37:CYS:O	12:CL:79:GLU:O	2.34	0.45
9:CI:17:VAL:HG21	9:CI:81:ILE:HD13	1.96	0.45
38:BD:133:LEU:HB2	38:BD:187:GLY:HA2	1.98	0.45
53:DW:10:VAL:O	53:DW:11:ARG:CB	2.64	0.45
35:BA:2606:C:C2'	35:BA:2607:G:H5'	2.46	0.45
11:CK:33:THR:HG22	11:CK:39:PRO:HA	1.98	0.45
1:CA:1486:G:C6	1:CA:1487:G:C6	3.05	0.45
35:DA:2704:C:C4	35:DA:2705:A:N7	2.84	0.45
35:DA:120:U:O4	35:DA:177:G:C8	2.69	0.45
1:CA:1054:C:O2'	1:CA:1055:A:H5''	2.16	0.45
20:CT:25:ARG:CZ	20:CT:25:ARG:HB2	2.46	0.45
35:DA:1937:A:O2'	35:DA:1938:A:OP1	2.26	0.45
54:BX:62:LYS:CD	54:BX:68:ARG:HD2	2.47	0.45
1:CA:726:C:H2'	1:CA:727:G:H8	1.80	0.45
25:CY:108:GLU:O	25:CY:109:GLU:C	2.53	0.45
1:AA:1279:A:N3	1:AA:1279:A:H2'	2.30	0.45
35:BA:1315:C:H42	35:BA:1337:G:H1	1.63	0.45
29:B3:19:GLN:O	29:B3:21:ALA:N	2.50	0.45
35:BA:966:G:H2'	35:BA:967:C:H6	1.80	0.45
54:BX:12:VAL:HG13	54:BX:17:ALA:HB2	1.96	0.45
35:DA:852:G:C2'	35:DA:853:G:H5'	2.46	0.45
1:CA:243:A:C2	1:CA:245:C:C2	3.05	0.45
35:DA:2352:A:C2'	35:DA:2353:G:H5'	2.46	0.45
35:DA:1866:C:H2'	35:DA:1876:A:O4'	2.15	0.45
1:CA:137:C:H2'	1:CA:138:G:C8	2.52	0.45
25:CY:46:TYR:C	25:CY:48:ALA:H	2.17	0.45
1:CA:929:G:O2'	1:CA:930:C:H5'	2.16	0.45
1:AA:630:G:H2'	1:AA:631:G:C5'	2.45	0.45
1:AA:241:C:C1'	1:AA:286:G:N2	2.79	0.45
1:CA:902:G:O2'	1:CA:903:G:H5'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:993:G:H22	1:AA:1046:A:H1'	1.82	0.45
25:CY:43:VAL:HB	25:CY:50:VAL:HG23	1.98	0.45
38:DD:109:ASP:CB	38:DD:195:ALA:HB3	2.45	0.45
1:CA:1006:C:H2'	1:CA:1007:C:C6	2.51	0.45
1:CA:76:C:N4	1:CA:93:G:H1	2.14	0.45
35:DA:826:U:H3'	35:DA:828:U:C6	2.51	0.45
3:AC:207:VAL:HG12	3:AC:207:VAL:O	2.15	0.45
20:AT:93:GLU:N	20:AT:93:GLU:OE1	2.49	0.45
2:CB:221:LEU:O	2:CB:221:LEU:HD22	2.15	0.45
5:CE:60:TYR:CE2	5:CE:64:ARG:NH2	2.84	0.45
53:DW:92:ARG:HG2	53:DW:92:ARG:HH11	1.80	0.45
1:CA:1157:A:H1'	1:CA:1181:G:N2	2.32	0.45
46:BP:25:SER:OG	46:BP:26:GLY:N	2.47	0.45
14:CN:13:THR:N	14:CN:14:PRO:CD	2.80	0.45
10:AJ:65:LEU:HD12	14:AN:55:GLY:HA3	1.97	0.45
1:AA:505:G:C6	1:AA:535:A:C2	3.04	0.45
1:CA:617:G:H4'	16:CP:44:THR:O	2.16	0.45
35:DA:2000:G:O2'	35:DA:2689:U:H5	1.96	0.45
35:DA:1813:G:H1'	38:DD:50:THR:OG1	2.16	0.45
35:DA:1820:U:H4'	35:DA:1821:A:OP2	2.17	0.45
41:DG:39:ILE:CB	41:DG:157:ILE:HG22	2.45	0.45
56:BZ:134:PRO:O	56:BZ:135:GLU:C	2.54	0.45
39:BE:1:MET:H3	39:BE:84:PHE:HB2	1.82	0.45
35:DA:1497:U:H3	35:DA:1578:U:P	2.39	0.45
44:BN:38:HIS:CG	44:BN:39:ARG:N	2.84	0.45
42:DH:146:ALA:O	42:DH:148:ILE:N	2.50	0.45
28:B2:49:LYS:O	28:B2:52:ASP:HB3	2.15	0.45
35:BA:60:G:N2	35:BA:74:A:H2'	2.31	0.45
27:B1:16:ASN:HB3	27:B1:46:LEU:CG	2.29	0.45
41:BG:171:ALA:O	41:BG:173:LEU:N	2.49	0.45
28:D2:21:LEU:HD23	28:D2:24:LEU:HD22	1.98	0.45
35:DA:1341:U:H2'	35:DA:1397:U:O2	2.16	0.45
35:DA:70:G:H21	35:DA:71:A:N6	2.15	0.45
54:DX:36:LYS:O	54:DX:37:THR:C	2.54	0.45
35:BA:2775:A:O2'	35:BA:2776:A:C5'	2.65	0.45
1:CA:502:G:C6	1:CA:544:G:C6	3.04	0.45
4:CD:22:LYS:HB3	4:CD:22:LYS:HZ2	1.81	0.45
4:CD:32:ALA:O	4:CD:36:ARG:N	2.49	0.45
35:BA:609:A:H2'	35:BA:610:G:O4'	2.17	0.45
40:BF:45:ARG:NH1	40:BF:97:TYR:CD2	2.84	0.45
27:D1:75:GLU:HB2	27:D1:76:ARG:HH21	1.76	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:395:U:H1'	35:DA:396:G:N7	2.32	0.45
35:BA:195:A:H5''	35:BA:196:A:OP2	2.16	0.45
47:BQ:70:PRO:HA	47:BQ:94:VAL:O	2.15	0.45
1:AA:62:U:H5''	1:AA:385:C:O2	2.16	0.45
20:AT:27:LYS:C	20:AT:27:LYS:HD3	2.36	0.45
35:BA:1277:G:H2'	35:BA:1278:A:H8	1.81	0.45
2:AB:178:ARG:CG	2:AB:178:ARG:HH11	2.29	0.45
2:AB:46:LYS:O	2:AB:47:THR:C	2.54	0.45
27:D1:23:LYS:O	27:D1:37:ILE:CG1	2.65	0.45
18:CR:31:LEU:HG	18:CR:65:ILE:HD13	1.99	0.45
35:DA:823:G:H2'	35:DA:824:A:H8	1.81	0.45
35:DA:1247:A:OP1	40:DF:95:ARG:NH2	2.49	0.45
55:DY:15:VAL:O	55:DY:16:ALA:HB2	2.17	0.45
55:DY:19:LYS:O	55:DY:19:LYS:HG2	2.15	0.45
1:AA:908:A:C2	1:AA:909:A:N7	2.84	0.45
6:AF:67:MET:CE	6:AF:72:VAL:H	2.29	0.45
1:CA:780:A:H2	1:CA:803:G:C6	2.32	0.45
1:AA:1375:A:C4	1:AA:1376:U:C5	3.04	0.45
7:AG:30:ILE:HD13	7:AG:105:VAL:HG13	1.98	0.45
25:CY:31:GLY:O	25:CY:32:ARG:HB2	2.16	0.45
25:AY:64:ARG:O	25:AY:65:THR:OG1	2.31	0.45
25:AY:15:GLN:HA	25:AY:168:PHE:CZ	2.51	0.45
1:CA:568:G:O6	12:CL:5:PRO:HD3	2.16	0.45
42:DH:43:VAL:CG2	42:DH:43:VAL:O	2.61	0.45
12:AL:84:LEU:HB3	12:AL:101:VAL:HB	1.98	0.45
35:BA:2283:C:C5	35:BA:2389:G:H2'	2.51	0.45
2:CB:100:GLY:O	2:CB:104:ASN:N	2.49	0.45
7:AG:86:GLN:NE2	23:AW:32:G:N2	2.63	0.45
1:AA:1226:C:C5'	19:AS:80:TYR:HE2	2.29	0.45
25:CY:83:ILE:O	25:CY:85:ASP:N	2.50	0.45
9:AI:28:VAL:HG13	9:AI:63:ILE:C	2.36	0.45
8:CH:14:ARG:HB3	8:CH:14:ARG:HH11	1.80	0.45
8:CH:87:SER:OG	8:CH:92:ARG:HA	2.16	0.45
31:B5:30:LEU:HD23	31:B5:41:PRO:HB3	1.97	0.45
9:CI:92:TYR:HB3	9:CI:95:LYS:HD2	1.99	0.45
1:AA:1168:A:H2'	1:AA:1169:A:H8	1.79	0.45
35:DA:64:A:C2	35:DA:65:C:C2	3.03	0.45
1:AA:445:G:C6	1:AA:490:G:O6	2.70	0.45
16:CP:49:LEU:HD11	16:CP:51:VAL:CG2	2.38	0.45
40:BF:169:ASN:ND2	40:BF:169:ASN:O	2.49	0.45
53:BW:8:ARG:HG3	53:BW:8:ARG:NH1	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:311:C:O2'	1:CA:312:C:H5'	2.15	0.45
35:DA:2171:A:HO2'	35:DA:2172:U:H6	1.60	0.45
1:AA:122:G:H2'	1:AA:123:C:C6	2.52	0.45
5:CE:101:ILE:O	5:CE:120:THR:OG1	2.34	0.45
35:DA:1945:G:C6	35:DA:1946:U:O4	2.70	0.45
35:DA:290:G:O2'	35:DA:291:C:H5'	2.16	0.45
35:BA:914:C:C2'	35:BA:915:C:H5'	2.41	0.45
13:CM:54:VAL:O	13:CM:58:GLU:HG2	2.16	0.45
25:AY:74:ASN:HA	25:AY:77:LYS:HG2	1.98	0.45
1:AA:659:U:H2'	1:AA:660:G:C8	2.50	0.45
29:D3:40:THR:OG1	29:D3:41:PRO:HD2	2.16	0.45
11:AK:126:ARG:O	11:AK:127:LYS:C	2.54	0.45
48:DR:4:LEU:HD22	48:DR:4:LEU:O	2.17	0.45
35:BA:154(A):C:O4'	35:BA:154(A):C:O2	2.34	0.45
1:CA:894:G:H2'	1:CA:895:G:C8	2.51	0.45
45:DO:87:ILE:HD13	45:DO:87:ILE:HA	1.79	0.45
35:DA:1221(A):C:C2'	35:DA:1222:C:H5'	2.45	0.45
7:CG:6:ARG:O	7:CG:7:ALA:C	2.55	0.45
1:AA:302:G:C4	1:AA:303:A:C8	3.04	0.45
25:CY:45:TYR:HD2	25:CY:78:ALA:HB2	1.80	0.45
35:DA:897:C:O2'	35:DA:898:C:H5'	2.16	0.45
4:AD:194:LEU:N	4:AD:194:LEU:CD2	2.74	0.45
1:CA:1030(D):A:C2'	1:CA:1031:G:H5'	2.45	0.45
35:BA:601:C:O2'	35:BA:605:C:H5''	2.16	0.45
1:CA:1153:C:H2'	1:CA:1154:G:O5'	2.17	0.45
25:AY:111:ARG:O	25:AY:115:VAL:HG23	2.16	0.45
17:CQ:57:VAL:HA	17:CQ:77:VAL:HG23	1.99	0.45
35:BA:1331:A:H2'	35:BA:1333:C:C5	2.51	0.45
1:CA:650:G:O2'	1:CA:651:C:H5'	2.16	0.45
3:AC:95:THR:HG22	3:AC:97:LYS:HB2	1.96	0.45
38:BD:109:ASP:CB	38:BD:195:ALA:HB3	2.46	0.45
16:CP:80:PHE:N	16:CP:80:PHE:CD1	2.85	0.45
37:DC:86:ALA:HA	37:DC:89:ALA:HB2	1.99	0.45
35:DA:151:C:H2'	35:DA:152:G:H8	1.81	0.45
29:D3:38:GLU:CD	29:D3:38:GLU:H	2.20	0.45
3:CC:92:ALA:C	3:CC:94:LEU:N	2.70	0.45
35:DA:2428:G:H5''	35:DA:2429:G:O5'	2.16	0.45
1:AA:486:U:H2'	1:AA:487:A:H8	1.81	0.45
35:BA:2663:G:H2'	35:BA:2664:G:O4'	2.16	0.45
35:DA:2523:G:H5'	35:DA:2523:G:H8	1.81	0.45
37:DC:77:ILE:HG13	37:DC:96:GLY:O	2.15	0.45

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:37:VAL:HG12	42:BH:38:SER:N	2.31	0.45
42:BH:66:GLY:O	42:BH:67:LEU:C	2.54	0.45
33:D7:18:PHE:O	33:D7:21:ARG:N	2.49	0.45
33:D7:5:TRP:HE1	33:D7:7:PRO:HG3	1.80	0.45
35:DA:1608:A:H1'	35:DA:1610:A:OP2	2.17	0.45
35:BA:2319:G:C5	35:BA:2320:A:N6	2.85	0.45
35:DA:548:A:O2'	35:DA:549:G:OP2	2.26	0.45
19:AS:52:TYR:CG	19:AS:53:ASN:N	2.84	0.45
46:DP:96:THR:HB	46:DP:126:VAL:HB	1.98	0.45
38:BD:66:ASP:OD2	38:BD:103:ARG:NH2	2.49	0.45
35:DA:1264:G:C3'	35:DA:1265:A:H5''	2.46	0.45
35:DA:2225:A:H1'	35:DA:2226:C:OP2	2.17	0.45
35:DA:1262:A:P	53:DW:99:ARG:HH12	2.40	0.45
35:BA:1263:U:C5	35:BA:1264:G:C6	3.05	0.45
35:BA:2832:U:O4	35:BA:2883:A:H5''	2.16	0.45
35:BA:493:G:HO2'	53:BW:8:ARG:H	1.64	0.45
41:BG:53:LEU:H	41:BG:53:LEU:CD2	2.22	0.45
1:CA:255:G:H5''	17:CQ:17:LYS:HB2	1.98	0.45
35:DA:2355:C:C4	35:DA:2356:C:C4	3.05	0.45
20:CT:24:LEU:O	20:CT:27:LYS:HB3	2.15	0.45
27:D1:8:SER:HB3	35:DA:1364:G:C5'	2.46	0.45
5:CE:76:ILE:CG2	5:CE:77:PRO:N	2.79	0.45
29:B3:40:THR:O	29:B3:43:ILE:N	2.50	0.45
35:DA:2801:A:O2'	35:DA:2895:U:C4'	2.65	0.45
26:B0:77:ARG:NH2	35:BA:857:C:OP2	2.48	0.45
36:BB:100:A:C4	36:BB:101:G:C8	3.05	0.45
29:B3:12:PRO:O	29:B3:14:GLY:N	2.50	0.45
1:CA:1473:A:O2'	35:DA:1702:G:H4'	2.17	0.45
1:AA:66:G:C4'	1:AA:173:U:C4	3.00	0.45
8:CH:53:VAL:O	8:CH:54:ASP:CB	2.64	0.45
4:CD:3:ARG:HG2	4:CD:3:ARG:HH21	1.80	0.45
38:DD:45:ASN:C	38:DD:46:GLN:OE1	2.55	0.45
35:BA:1112:G:O2'	35:BA:1113:U:H5''	2.17	0.45
35:BA:360:G:H2'	35:BA:361:G:C8	2.50	0.45
6:CF:83:ASP:C	6:CF:85:VAL:N	2.70	0.45
1:AA:137:C:H2'	1:AA:138:G:C8	2.51	0.45
35:BA:132:G:H2'	35:BA:133:C:C6	2.51	0.45
35:DA:1550:C:H2'	35:DA:1551:C:C6	2.41	0.45
35:BA:186:G:C2'	35:BA:187:G:H5'	2.47	0.45
35:DA:2350:C:O2'	35:DA:2351:G:H5'	2.16	0.45
1:AA:557:G:H2'	1:AA:558:G:C8	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1289:A:H3'	1:AA:1290:G:H8	1.81	0.45
7:AG:15:ASP:HB3	7:AG:20:ASP:H	1.81	0.45
1:AA:695:A:O2'	1:AA:696:A:H5'	2.16	0.45
1:CA:1288:A:O5'	1:CA:1288:A:H8	1.99	0.45
53:DW:24:ILE:O	53:DW:71:VAL:HG11	2.16	0.45
35:DA:703:U:H2'	35:DA:704:G:C5'	2.43	0.45
1:CA:885:G:H1	1:CA:912:C:H42	1.64	0.45
1:AA:1164:G:H2'	1:AA:1165:C:H5'	1.97	0.45
35:BA:412:A:H3'	35:BA:413:C:C6	2.51	0.45
16:AP:80:PHE:CD1	16:AP:80:PHE:N	2.83	0.45
3:CC:99:VAL:HG23	3:CC:99:VAL:O	2.15	0.45
35:BA:2023:G:C2	35:BA:2024:G:C5	3.05	0.45
17:CQ:62:SER:OG	17:CQ:72:ARG:HG3	2.16	0.45
35:DA:147:U:H2'	35:DA:148:C:C6	2.51	0.45
1:CA:788:U:C2	1:CA:789:U:C6	3.04	0.45
35:DA:179:G:C4	35:DA:180:G:C8	3.03	0.45
11:AK:48:ILE:C	11:AK:50:TYR:H	2.20	0.45
35:DA:2550:G:H2'	35:DA:2551:C:C6	2.51	0.45
14:AN:13:THR:N	14:AN:14:PRO:CD	2.79	0.45
23:CW:52:C:N4	23:CW:53:G:C6	2.84	0.45
50:DT:28:VAL:HG21	50:DT:46:GLU:OE2	2.17	0.45
50:DT:52:ILE:HG22	50:DT:61:PHE:HB3	1.97	0.45
41:DG:7:LEU:O	41:DG:10:LYS:HB2	2.15	0.45
35:BA:1810:A:H2'	35:BA:1811:G:O4'	2.16	0.45
38:BD:245:PRO:O	38:BD:246:PRO:C	2.54	0.45
38:BD:45:ASN:C	38:BD:46:GLN:OE1	2.54	0.45
5:CE:127:ASN:O	5:CE:128:PRO:C	2.55	0.45
38:DD:213:ARG:O	38:DD:214:TRP:C	2.54	0.45
16:CP:32:TYR:CE2	16:CP:35:LYS:HB2	2.51	0.45
41:DG:180:PHE:HB2	41:DG:182:LYS:HE3	1.99	0.45
41:DG:40:ASN:OD1	41:DG:41:GLN:N	2.50	0.45
35:BA:2383:G:H2'	35:BA:2384:G:C8	2.51	0.45
50:BT:92:GLY:C	50:BT:94:ALA:H	2.18	0.45
56:BZ:166:SER:CB	56:BZ:168:GLU:N	2.79	0.45
35:DA:2513:G:H2'	35:DA:2514:U:C6	2.52	0.45
52:BV:5:VAL:CG2	52:BV:6:LYS:N	2.80	0.45
3:AC:25:GLY:O	3:AC:28:GLN:N	2.49	0.45
14:AN:47:LEU:HB3	14:AN:53:LEU:HG	1.98	0.45
27:B1:69:LYS:NZ	27:B1:95:LEU:HD12	2.31	0.45
41:BG:46:ALA:HA	41:BG:51:ARG:HG3	1.96	0.45
55:DY:88:LYS:CD	55:DY:88:LYS:N	2.78	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D2:22:GLU:O	28:D2:24:LEU:N	2.50	0.45
28:D2:53:LEU:O	28:D2:53:LEU:HG	2.16	0.45
54:DX:35:THR:O	54:DX:36:LYS:O	2.34	0.45
35:DA:143:G:O4'	54:DX:38:GLU:HG3	2.17	0.45
35:DA:2637:U:H1'	35:DA:2782:G:H22	1.82	0.45
51:DU:92:ARG:CG	51:DU:95:LEU:H	2.18	0.45
10:AJ:8:LEU:CA	10:AJ:96:ILE:HG22	2.45	0.45
35:DA:2482:G:H1	47:DQ:53:ALA:HB2	1.82	0.45
4:CD:92:VAL:O	4:CD:96:LEU:HD22	2.16	0.45
43:DI:81:VAL:CG2	43:DI:142:VAL:HG13	2.41	0.45
47:BQ:68:ILE:H	47:BQ:68:ILE:CD1	2.21	0.45
35:BA:607:U:H3	35:BA:621:A:H2	1.64	0.45
35:BA:618:C:H2'	35:BA:619:G:C8	2.52	0.45
35:BA:619:G:H5''	35:BA:620:G:OP2	2.17	0.45
35:BA:619:G:H3'	35:BA:620:G:N2	2.31	0.45
35:BA:660:G:H4'	40:BF:38:ARG:NH1	2.32	0.45
46:BP:16:ARG:NH1	46:BP:18:ARG:CG	2.79	0.45
34:D8:29:LYS:NZ	34:D8:44:LYS:CB	2.79	0.45
35:BA:2059:A:C5	35:BA:2503:A:C2	3.04	0.45
35:BA:675:A:C8	35:BA:804:A:C6	3.05	0.45
46:BP:48:PRO:CG	46:BP:49:ARG:N	2.79	0.45
40:DF:45:ARG:CD	40:DF:46:ARG:H	2.30	0.45
40:DF:45:ARG:CG	40:DF:46:ARG:N	2.79	0.45
47:BQ:76:LYS:N	47:BQ:88:GLY:HA3	2.31	0.45
1:AA:1423:G:H2'	1:AA:1424:C:H6	1.81	0.45
49:DS:28:VAL:CG1	49:DS:29:PHE:H	2.09	0.45
2:AB:43:ASP:OD2	2:AB:46:LYS:N	2.44	0.45
27:D1:41:ARG:HH11	27:D1:41:ARG:CG	2.21	0.45
1:CA:666:G:H1'	1:CA:741:G:H22	1.80	0.45
1:CA:673:G:C6	1:CA:734:G:C6	3.05	0.45
2:CB:178:ARG:HH11	2:CB:178:ARG:CB	2.27	0.45
52:DV:71:LEU:CD1	52:DV:72:VAL:N	2.80	0.45
1:AA:1412:C:C2'	1:AA:1413:A:C8	2.83	0.45
35:DA:106:C:H1'	55:DY:2:ARG:CZ	2.41	0.45
35:BA:366:C:C4	35:BA:404:C:H5	2.34	0.45
47:BQ:53:ALA:CA	47:BQ:56:ARG:HB3	2.47	0.45
35:DA:1131:G:C2	35:DA:1132:A:N7	2.84	0.45
35:DA:574:C:N3	39:DE:145:LYS:HE2	2.31	0.45
35:DA:2764:A:H2'	35:DA:2766:G:C8	2.52	0.45
2:AB:115:LEU:HA	2:AB:145:LEU:HD11	1.99	0.45
25:CY:18:LEU:C	25:CY:20:VAL:N	2.67	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1268:A:H2'	1:CA:1269:A:C8	2.52	0.45
35:BA:1204:A:N1	35:BA:1241:A:C2	2.85	0.45
12:CL:25:PRO:C	12:CL:27:LEU:H	2.19	0.45
12:CL:28:LYS:C	12:CL:30:ALA:N	2.68	0.45
1:CA:1228:C:O3'	13:CM:116:THR:HA	2.17	0.45
13:CM:89:GLY:C	13:CM:90:LEU:O	2.55	0.45
25:AY:155:LYS:HA	25:AY:158:GLU:HB3	1.98	0.45
43:BI:98:ALA:O	43:BI:109:ILE:HG21	2.17	0.45
43:BI:109:ILE:HD12	43:BI:111:PRO:HD3	1.98	0.45
1:AA:693:G:N2	23:AW:38:A:C2	2.77	0.45
7:AG:140:ASP:O	7:AG:143:ARG:HB2	2.17	0.45
11:AK:23:ALA:CB	11:AK:91:ARG:HG2	2.45	0.45
22:AV:41:C:H2'	22:AV:42:C:C6	2.51	0.45
13:AM:86:CYS:SG	13:AM:89:GLY:N	2.90	0.45
11:CK:60:ALA:O	11:CK:62:GLN:N	2.49	0.45
11:CK:72:ALA:HB1	11:CK:77:MET:HE3	1.99	0.45
20:AT:58:LYS:O	20:AT:62:LEU:HB2	2.16	0.45
1:AA:866:C:C2	1:AA:867:G:H1'	2.51	0.45
1:AA:865:A:C2	1:AA:918:A:H4'	2.52	0.45
25:CY:38:LEU:O	25:CY:40:HIS:N	2.44	0.45
8:AH:8:ASP:O	8:AH:12:ARG:HG3	2.16	0.45
9:AI:118:LYS:HB2	9:AI:121:ARG:HB2	1.97	0.45
12:CL:89:ARG:HB2	12:CL:89:ARG:CZ	2.46	0.45
9:CI:93:ARG:C	9:CI:95:LYS:H	2.19	0.45
46:DP:113:LYS:HG2	46:DP:115:LEU:CD2	2.46	0.45
46:DP:114:ILE:HD11	46:DP:130:PHE:CZ	2.52	0.45
38:BD:133:LEU:HD12	38:BD:186:HIS:O	2.17	0.45
56:BZ:143:GLY:C	56:BZ:144:LEU:HD22	2.37	0.45
35:BA:323:G:O2'	35:BA:1205:U:N3	2.43	0.45
35:BA:2672:G:C3'	35:BA:2673:G:H5''	2.45	0.45
1:CA:389:A:H2'	1:CA:390:C:H5'	1.98	0.45
1:CA:390:C:O5'	1:CA:390:C:H6	1.98	0.45
54:DX:62:LYS:HB3	54:DX:69:TYR:H	1.82	0.45
1:AA:1443:G:C6	1:AA:1460:A:C2	3.04	0.45
17:CQ:59:ILE:CD1	17:CQ:73:VAL:HA	2.47	0.45
1:AA:255:G:H5''	17:AQ:17:LYS:HB2	1.99	0.45
35:BA:2704:C:C4	35:BA:2705:A:N7	2.85	0.45
32:D6:37:ARG:O	32:D6:48:VAL:O	2.33	0.45
20:CT:24:LEU:O	20:CT:25:ARG:C	2.54	0.45
1:AA:389:A:H2'	1:AA:390:C:H5'	1.99	0.45
35:DA:1786:A:C2	35:DA:2606:C:H1'	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:158:HIS:HE1	42:DH:168:PRO:HB2	1.82	0.45
35:DA:1953:A:H2	35:DA:2549:G:N3	2.14	0.45
26:B0:25:ARG:HG3	26:B0:29:GLN:HE21	1.81	0.45
26:B0:42:GLY:HA3	35:BA:2331:G:O4'	2.16	0.45
35:BA:290:G:N2	35:BA:291:C:H1'	2.32	0.45
35:BA:347:A:H2'	35:BA:348:G:H8	1.80	0.45
35:BA:916:G:H2'	35:BA:917:A:H5''	1.98	0.45
9:AI:13:ALA:HB2	9:AI:68:GLY:HA3	1.98	0.45
1:AA:1095:U:H2'	1:AA:1096:C:H6	1.82	0.45
4:CD:4:TYR:O	4:CD:5:ILE:CB	2.64	0.45
4:CD:4:TYR:O	4:CD:5:ILE:HB	2.16	0.45
46:BP:56:SER:O	46:BP:57:THR:CB	2.65	0.45
1:CA:895:G:H2'	1:CA:896:C:C6	2.51	0.45
35:BA:977:G:C6	35:BA:987:G:C6	3.05	0.45
53:DW:12:ILE:HG13	53:DW:42:ARG:NH1	2.31	0.45
1:AA:245:C:O2	1:AA:283:C:N3	2.49	0.45
1:CA:928:G:C2	1:CA:1390:U:O2	2.70	0.45
1:AA:885:G:H2'	1:AA:886:G:H8	1.81	0.45
35:DA:2840:C:O2'	35:DA:2841:C:H5'	2.17	0.45
1:CA:1040:U:H2'	1:CA:1041:A:H8	1.81	0.45
35:DA:645:C:O2	35:DA:645:C:C2'	2.64	0.45
3:AC:92:ALA:HB2	3:AC:99:VAL:HG22	1.97	0.45
37:DC:75:LEU:C	37:DC:75:LEU:HD23	2.37	0.45
53:BW:9:TYR:CD2	53:BW:9:TYR:N	2.83	0.45
16:CP:53:VAL:HG23	16:CP:54:GLU:N	2.31	0.45
1:CA:1015:A:H8	1:CA:1015:A:O5'	1.99	0.45
1:AA:650:G:O2'	1:AA:651:C:H5'	2.16	0.45
35:BA:532:A:H4'	35:BA:533:G:C1'	2.46	0.45
38:DD:69:ARG:C	38:DD:71:ASP:H	2.20	0.45
35:BA:2322:A:H2'	35:BA:2323:G:O4'	2.16	0.45
1:CA:373:A:C8	1:CA:482:A:C8	3.05	0.45
9:CI:33:PHE:C	9:CI:35:GLU:H	2.19	0.45
1:CA:189(K):U:H2'	1:CA:189(L):G:C8	2.51	0.45
35:DA:2330:G:N2	35:DA:2386:C:C2	2.84	0.45
35:BA:1048:A:N6	35:BA:1106:A:C8	2.84	0.45
36:DB:13:A:N1	36:DB:69:G:O2'	2.50	0.45
1:AA:411:A:H2'	1:AA:412:A:H4'	1.99	0.45
35:BA:2003:G:C6	35:BA:2004:G:C5	3.05	0.45
53:DW:45:TYR:C	53:DW:45:TYR:CD2	2.89	0.45
35:DA:1145:C:H2'	35:DA:1146:C:C6	2.51	0.45
45:DO:76:ALA:HB3	50:DT:75:ILE:HD13	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DT:61:PHE:CZ	50:DT:76:PHE:HB3	2.52	0.45
35:DA:1778:U:C5	35:DA:1784:A:N3	2.84	0.45
38:DD:35:LYS:HZ1	38:DD:104:TYR:HB2	1.80	0.45
16:CP:19:ILE:CG2	16:CP:36:ILE:HG13	2.42	0.45
35:BA:2759:G:H5'	35:BA:2759:G:H8	1.81	0.45
50:BT:115:ARG:HB3	50:BT:116:ALA:H	1.65	0.45
50:BT:33:LYS:HE2	50:BT:43:GLN:OE1	2.17	0.45
56:BZ:28:MET:HA	56:BZ:88:PHE:HB2	1.99	0.45
56:BZ:71:VAL:HG13	56:BZ:86:VAL:CG1	2.47	0.45
35:DA:2057:A:O2'	35:DA:2058:A:H5'	2.17	0.45
44:BN:33:LEU:HD23	44:BN:38:HIS:CE1	2.52	0.45
28:B2:13:ALA:N	28:B2:14:ARG:HE	2.15	0.45
28:B2:17:SER:O	28:B2:18:PRO:C	2.53	0.45
35:DA:1862:G:C2	35:DA:1863:G:C8	3.05	0.45
27:B1:71:TYR:O	27:B1:75:GLU:HG2	2.16	0.45
41:BG:41:GLN:O	41:BG:43:LEU:N	2.45	0.45
34:B8:6:THR:O	34:B8:8:LYS:N	2.50	0.45
54:DX:31:HIS:HD2	54:DX:33:LYS:O	2.00	0.45
54:DX:76:ARG:O	54:DX:77:LYS:HB2	2.17	0.45
47:DQ:110:THR:HG1	47:DQ:113:GLN:HG3	1.80	0.45
56:DZ:10:ARG:HG2	56:DZ:38:TYR:HD2	1.81	0.45
56:DZ:89:PHE:CE1	56:DZ:96:VAL:HG21	2.52	0.45
51:DU:76:TYR:O	51:DU:80:ILE:HG12	2.16	0.45
51:DU:96:ALA:C	51:DU:98:LEU:N	2.69	0.45
47:DQ:58:PHE:O	47:DQ:59:ARG:C	2.54	0.45
19:CS:10:PHE:CD1	19:CS:10:PHE:N	2.84	0.45
36:BB:28:C:H42	36:BB:56:G:H1	1.62	0.45
49:BS:101:LEU:HD13	49:BS:101:LEU:O	2.16	0.45
35:BA:610:G:C6	35:BA:611:C:N4	2.85	0.45
40:BF:20:LEU:HD12	40:BF:199:TRP:HH2	1.82	0.45
40:BF:20:LEU:HD13	40:BF:203:GLN:OE1	2.17	0.45
27:D1:89:GLU:C	27:D1:93:GLU:OE2	2.54	0.45
34:D8:40:GLU:CD	34:D8:44:LYS:HE3	2.37	0.45
35:DA:2415:G:O3'	46:DP:66:GLY:CA	2.50	0.45
34:B8:56:GLU:O	34:B8:58:ILE:N	2.50	0.45
35:BA:804:A:H2'	35:BA:806:C:N4	2.31	0.45
47:BQ:43:THR:HG1	47:BQ:45:GLN:HB2	1.80	0.45
47:BQ:75:THR:HA	47:BQ:88:GLY:CA	2.28	0.45
1:AA:1421:G:H2'	1:AA:1422:G:C8	2.51	0.45
49:DS:28:VAL:C	49:DS:89:ARG:HG2	2.37	0.45
27:D1:23:LYS:NZ	27:D1:23:LYS:CA	2.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DN:28:THR:O	44:DN:31:ALA:HB3	2.17	0.45
44:BN:26:LEU:CD2	44:BN:30:ILE:HD11	2.47	0.45
2:CB:47:THR:O	2:CB:51:LEU:HG	2.17	0.45
4:AD:172:PRO:HD2	4:AD:173:TRP:CZ3	2.52	0.45
4:AD:187:ARG:NH1	4:AD:187:ARG:HG2	2.29	0.45
55:DY:65:ALA:O	55:DY:67:LEU:N	2.50	0.45
43:DI:114:LEU:O	43:DI:129:THR:O	2.35	0.45
47:DQ:90:VAL:O	47:DQ:90:VAL:HG12	2.16	0.45
18:AR:31:LEU:HG	18:AR:65:ILE:HD13	1.99	0.45
18:AR:73:ALA:HB3	18:AR:79:LEU:HD12	1.97	0.45
25:CY:121:TYR:O	25:CY:124:GLU:HB2	2.17	0.45
43:BI:39:ALA:O	43:BI:40:THR:C	2.55	0.45
35:BA:296:C:N4	35:BA:343:C:H42	2.15	0.45
1:CA:259:G:H2'	1:CA:260:G:H8	1.80	0.45
1:CA:263:A:OP2	20:CT:79:ARG:NH1	2.50	0.45
1:CA:939:G:C4	1:CA:940:C:C5	3.04	0.45
12:CL:6:THR:HG23	12:CL:9:GLN:N	2.11	0.45
27:B1:32:LYS:HG2	35:BA:2396:G:O2'	2.17	0.45
35:BA:1310:G:H1	35:BA:1604:C:H42	1.65	0.45
43:BI:98:ALA:HB1	43:BI:109:ILE:CG1	2.46	0.45
55:BY:19:LYS:HG2	55:BY:19:LYS:O	2.17	0.45
1:AA:691:G:O2'	1:AA:692:U:H5'	2.17	0.45
23:AW:31:G:C5	23:AW:32:G:N7	2.85	0.45
9:CI:118:LYS:HB2	9:CI:121:ARG:HB2	1.99	0.45
9:AI:47:LEU:N	9:AI:47:LEU:CD1	2.80	0.45
31:D5:40:LYS:NZ	31:D5:50:GLY:HA2	2.30	0.45
1:CA:512:U:H2'	1:CA:513:C:H6	1.81	0.45
35:DA:1609:A:C5	35:DA:1616:A:C8	3.05	0.45
35:BA:2298:A:C2	35:BA:2321:G:C4	3.05	0.45
35:DA:542:C:C4	35:DA:543:C:N4	2.82	0.45
46:BP:96:THR:HG22	46:BP:126:VAL:H	1.82	0.45
7:CG:66:VAL:C	7:CG:68:ASN:H	2.19	0.45
46:BP:77:ARG:CB	46:BP:78:PRO:HD2	2.38	0.45
1:CA:1380:U:O2	7:CG:3:ARG:NH1	2.46	0.45
1:CA:936:C:H2'	1:CA:937:A:O4'	2.16	0.45
14:AN:8:GLU:O	14:AN:11:LYS:N	2.44	0.45
35:BA:2308:G:N7	35:BA:2310:A:H5'	2.31	0.45
1:CA:328:C:O2'	1:CA:329:A:OP2	2.28	0.45
1:AA:460:G:N2	1:AA:472:A:H62	2.14	0.45
5:CE:89:ILE:CD1	5:CE:91:LEU:HD11	2.46	0.45
35:DA:2579:C:H4'	39:DE:134:ILE:CD1	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:B0:37:LEU:O	26:B0:38:VAL:HG22	2.17	0.45
35:BA:1303:G:N2	35:BA:1304:C:C2	2.84	0.45
1:AA:1303:C:O2	1:AA:1303:C:C2'	2.59	0.45
54:DX:14:SER:O	54:DX:15:GLU:C	2.55	0.45
38:BD:247:ALA:HB2	38:BD:253:GLN:HA	1.99	0.45
35:BA:1528(A):A:N7	35:BA:1529:G:C8	2.85	0.45
1:AA:1397:C:N4	24:AX:22:U:C4	2.81	0.45
1:AA:136:C:H42	1:AA:227:G:H1	1.65	0.45
1:CA:302:G:H2'	1:CA:303:A:O4'	2.16	0.45
35:BA:2762:G:C3'	35:BA:2763:G:C5'	2.94	0.45
1:CA:1387:G:C6	1:CA:1388:C:N4	2.85	0.45
35:DA:361:G:C3'	35:DA:362:U:H5''	2.47	0.45
35:BA:2009:G:C2	35:BA:2010:G:C8	3.05	0.45
1:AA:299:G:C6	1:AA:300:A:N1	2.85	0.45
35:DA:987:G:H2'	35:DA:988:A:O4'	2.17	0.45
55:BY:49:VAL:O	55:BY:53:PRO:CG	2.65	0.45
7:AG:22:LEU:HD12	7:AG:22:LEU:O	2.16	0.45
55:DY:49:VAL:O	55:DY:53:PRO:CG	2.65	0.45
25:AY:108:GLU:O	25:AY:111:ARG:N	2.43	0.45
35:DA:1517:G:C2'	35:DA:1518:U:H5'	2.47	0.45
35:DA:426:C:HO2'	35:DA:427:U:H5'	1.82	0.45
35:BA:1655:A:H4'	39:BE:115:GLY:N	2.30	0.45
50:BT:58:ASN:ND2	50:BT:58:ASN:O	2.50	0.45
1:AA:363:A:O2'	1:AA:364:A:H5'	2.16	0.45
53:DW:9:TYR:CD2	53:DW:9:TYR:N	2.84	0.45
50:DT:58:ASN:O	50:DT:58:ASN:ND2	2.50	0.45
35:DA:1165:U:O2'	35:DA:1166:C:H5'	2.16	0.45
1:CA:1235:U:O3'	21:CU:3:LYS:HB2	2.17	0.45
35:BA:2792:G:N3	35:BA:2792:G:H2'	2.31	0.45
35:BA:1745(A):C:H5'	35:BA:1746:G:OP2	2.16	0.45
35:BA:2474:C:H2'	35:BA:2474:C:O2	2.16	0.45
35:BA:791:C:O2	35:BA:794:G:H5'	2.16	0.45
9:AI:33:PHE:C	9:AI:35:GLU:H	2.19	0.45
35:DA:1051:G:C2'	35:DA:1052:C:H5''	2.47	0.45
55:DY:61:ILE:O	55:DY:62:GLU:HB2	2.16	0.45
35:DA:1753:G:C8	35:DA:1755:A:OP2	2.70	0.45
35:DA:2725:A:N7	35:DA:2727:G:C5	2.85	0.45
50:DT:80:SER:CB	50:DT:81:PRO:HD2	2.35	0.45
1:CA:973:G:O3'	14:CN:41:ARG:NH2	2.49	0.45
35:BA:1799:G:O3'	38:BD:264:LYS:NZ	2.47	0.45
38:BD:106:ILE:HD13	38:BD:157:ARG:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:218:ARG:HG3	38:BD:218:ARG:HH11	1.82	0.45
1:CA:18:C:H5'	5:CE:127:ASN:ND2	2.32	0.45
38:DD:21:PHE:O	38:DD:22:SER:C	2.54	0.45
41:DG:107:LEU:HD13	41:DG:178:PHE:HE1	1.82	0.45
41:DG:104:GLU:O	41:DG:108:ASN:N	2.50	0.45
35:BA:631:A:H4'	46:BP:65:ARG:HG3	1.98	0.45
50:BT:29:ARG:HG3	50:BT:84:GLN:O	2.15	0.45
47:BQ:66:ILE:HG22	47:BQ:104:PHE:HE2	1.74	0.45
56:BZ:28:MET:HG2	56:BZ:37:VAL:HG22	1.99	0.45
39:DE:48:GLN:CG	39:DE:78:LEU:HD12	2.45	0.45
2:AB:88:ALA:CB	2:AB:223:ILE:HD11	2.47	0.45
51:DU:52:ARG:O	51:DU:55:ARG:N	2.49	0.45
32:D6:51:GLU:O	32:D6:52:VAL:HB	2.17	0.45
49:BS:38:GLN:HG3	49:BS:49:VAL:O	2.16	0.45
49:BS:87:PHE:HZ	49:BS:97:ARG:HH21	1.63	0.45
4:CD:104:VAL:HG21	4:CD:140:VAL:CG2	2.47	0.45
4:CD:173:TRP:C	4:CD:186:LEU:HB2	2.37	0.45
4:CD:178:VAL:C	4:CD:180:GLY:H	2.19	0.45
36:DB:74:U:C3'	36:DB:75:G:C5'	2.90	0.45
35:DA:2640:G:C8	35:DA:2640:G:H5'	2.51	0.45
44:BN:67:LEU:C	44:BN:69:GLN:N	2.69	0.45
35:BA:443:A:OP1	40:BF:46:ARG:HB2	2.16	0.45
35:BA:621:A:H2'	35:BA:622:G:C5'	2.42	0.45
40:BF:101:LEU:HD12	40:BF:102:PRO:CD	2.39	0.45
44:DN:65:LYS:C	44:DN:66:LYS:HE3	2.37	0.45
34:B8:22:VAL:HB	34:B8:53:PRO:HB3	1.95	0.45
35:BA:1187:G:OP1	52:BV:82:ARG:NH2	2.42	0.45
35:BA:832:G:OP1	46:BP:40:SER:HB3	2.16	0.45
35:DA:443:A:OP1	40:DF:46:ARG:HB2	2.17	0.45
40:DF:1:MET:O	40:DF:3:GLU:N	2.49	0.45
47:BQ:7:MET:O	47:BQ:8:LYS:HB3	2.17	0.45
48:DR:76:VAL:HG13	48:DR:77:ARG:N	2.31	0.45
39:BE:163:GLU:O	39:BE:165:VAL:N	2.50	0.45
35:BA:2820:A:H8	39:BE:191:PRO:CB	2.30	0.45
1:AA:1423:G:H2'	1:AA:1424:C:C6	2.52	0.45
1:AA:1436:U:O2'	1:AA:1437:C:H5'	2.17	0.45
50:BT:106:SER:C	50:BT:107:ASP:OD1	2.55	0.45
50:BT:109:GLU:O	50:BT:110:ILE:C	2.54	0.45
2:AB:72:GLY:HA2	2:AB:165:VAL:HG22	1.99	0.45
44:DN:17:ASP:OD2	44:DN:55:VAL:O	2.34	0.45
1:CA:656:C:O2'	1:CA:657:G:H5'	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:10:LEU:HD12	6:CF:10:LEU:N	2.31	0.45
11:CK:116:HIS:O	11:CK:117:ASN:HB3	2.17	0.45
18:CR:44:LEU:O	18:CR:51:LEU:HD21	2.17	0.45
35:DA:1204:A:N1	35:DA:1241:A:C2	2.85	0.45
1:AA:408:A:H2'	1:AA:409:G:O4'	2.15	0.45
4:AD:170:VAL:CG1	4:AD:174:LEU:HB2	2.46	0.45
35:DA:307:G:N2	35:DA:309:G:H3'	2.32	0.45
1:AA:1315:U:O2'	1:AA:1316:G:H5'	2.16	0.45
35:DA:869:G:O2'	35:DA:870:A:H5'	2.16	0.45
47:DQ:85:LYS:HG3	47:DQ:86:GLY:H	1.79	0.45
18:AR:43:PHE:CD1	18:AR:43:PHE:N	2.81	0.45
47:BQ:54:MET:HG3	47:BQ:64:ILE:HD13	1.99	0.45
51:DU:26:GLY:C	51:DU:28:ARG:H	2.20	0.45
1:AA:1105:A:H2'	1:AA:1106:G:H8	1.82	0.45
35:DA:295:G:C2	35:DA:296:C:C6	3.05	0.45
7:AG:102:ARG:HG3	7:AG:106:GLN:NE2	2.30	0.45
35:DA:29:U:O2'	35:DA:30:G:H5'	2.16	0.45
35:BA:1213:A:H2'	35:BA:1214:A:C8	2.47	0.45
1:CA:190:U:O2'	1:CA:191:G:H5'	2.17	0.45
25:AY:6:LEU:C	25:AY:6:LEU:HD23	2.37	0.45
25:AY:6:LEU:C	25:AY:8:ALA:N	2.70	0.45
7:CG:94:ARG:HG3	7:CG:94:ARG:H	1.63	0.45
33:B7:39:ARG:HH11	33:B7:39:ARG:HG2	1.80	0.45
35:DA:2755:C:H6	35:DA:2755:C:H3'	1.81	0.45
42:DH:66:GLY:O	42:DH:67:LEU:C	2.54	0.45
55:BY:15:VAL:HG12	55:BY:17:SER:H	1.81	0.45
2:CB:102:LEU:HD22	2:CB:176:GLU:HB3	1.98	0.45
23:AW:40:C:O2'	23:AW:41:C:H5'	2.17	0.45
8:AH:120:THR:O	8:AH:122:ARG:N	2.50	0.45
24:AX:13:A:HO2'	24:AX:14:U:H5'	1.81	0.45
8:AH:45:ILE:HD13	8:AH:62:TYR:O	2.16	0.45
1:AA:1346:A:H5''	9:AI:120:ARG:NH1	2.24	0.45
42:BH:67:LEU:C	42:BH:71:LEU:HD22	2.37	0.45
9:CI:17:VAL:HA	9:CI:63:ILE:HG23	1.98	0.45
33:D7:29:LYS:HZ2	33:D7:32:LYS:NZ	2.14	0.45
56:BZ:108:PRO:C	56:BZ:109:ALA:O	2.52	0.45
46:BP:100:LEU:CD2	46:BP:100:LEU:N	2.79	0.45
46:BP:80:TYR:CZ	46:BP:111:ARG:HG2	2.52	0.45
7:CG:121:ALA:N	7:CG:124:LEU:HD12	2.31	0.45
35:BA:1786:A:C2	35:BA:2606:C:H1'	2.51	0.45
7:AG:69:VAL:HG12	7:AG:69:VAL:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:374:A:H2'	35:DA:375:C:O4'	2.17	0.45
26:D0:36:ILE:HA	26:D0:60:PHE:CB	2.47	0.45
1:CA:1465:C:H2'	1:CA:1466:C:H6	1.81	0.45
13:CM:71:ARG:O	13:CM:74:VAL:HB	2.16	0.45
39:DE:173:VAL:CG1	39:DE:174:ASP:N	2.80	0.45
11:AK:96:ARG:O	11:AK:99:GLN:HG2	2.16	0.45
1:CA:814:A:C8	1:CA:816:A:C8	3.05	0.45
13:AM:36:LYS:HB2	13:AM:59:TYR:CZ	2.51	0.45
13:AM:68:GLY:O	13:AM:70:LEU:N	2.49	0.45
26:B0:36:ILE:HA	26:B0:60:PHE:CB	2.47	0.45
2:CB:22:LYS:O	2:CB:24:TRP:N	2.50	0.45
1:AA:277:C:OP1	17:AQ:41:LYS:HE3	2.17	0.45
29:D3:29:ARG:O	29:D3:30:ARG:C	2.55	0.45
7:AG:47:CYS:CA	7:AG:58:PRO:HG3	2.47	0.45
15:AO:82:ILE:HG23	15:AO:83:GLU:N	2.32	0.45
35:BA:1635:G:H2'	35:BA:1636:C:H6	1.82	0.45
28:D2:30:ARG:N	28:D2:30:ARG:CD	2.78	0.45
54:DX:89:ILE:O	54:DX:89:ILE:CG2	2.65	0.45
46:BP:59:LEU:HA	46:BP:61:ARG:HD2	1.99	0.45
36:BB:82:G:H2'	36:BB:83:G:C8	2.49	0.45
1:CA:243:A:C2	1:CA:246:A:C8	3.05	0.45
1:CA:245:C:C2'	1:CA:246:A:H5'	2.47	0.45
1:AA:21:G:H2'	1:AA:22:G:C8	2.51	0.45
1:AA:902:G:O2'	1:AA:903:G:H5'	2.17	0.45
35:DA:479:A:HO2'	35:DA:481:G:H8	1.63	0.45
53:DW:50:VAL:HG13	53:DW:105:VAL:HG21	1.99	0.45
35:DA:718:A:H2'	35:DA:719:C:O4'	2.16	0.45
1:CA:1030(C):G:N7	1:CA:1031:G:N2	2.65	0.45
35:BA:448:U:H4'	35:BA:449:A:OP2	2.17	0.45
19:CS:22:LEU:C	19:CS:22:LEU:HD13	2.37	0.45
35:DA:1759:A:H2'	35:DA:1760:A:H8	1.80	0.45
1:AA:761:G:H2'	1:AA:762:C:H6	1.81	0.45
56:DZ:175:VAL:HA	56:DZ:176:PRO:HD3	1.84	0.45
35:BA:1655:A:O2'	39:BE:115:GLY:HA3	2.17	0.45
1:AA:1006:C:H2'	1:AA:1007:C:C6	2.52	0.45
38:BD:138:VAL:HG21	38:BD:166:GLN:O	2.17	0.45
35:BA:373:U:H1'	35:BA:423:A:N3	2.32	0.45
1:AA:936:C:H2'	1:AA:937:A:O4'	2.17	0.45
35:BA:1695:G:H2'	35:BA:1696:G:C4'	2.46	0.45
35:BA:1910:G:N1	35:BA:1921:G:C5	2.85	0.45
11:CK:48:ILE:C	11:CK:50:TYR:H	2.20	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:CW:51:U:H3	23:CW:65:G:H22	1.64	0.45
35:DA:2553:G:H3'	35:DA:2554:U:H5''	1.98	0.45
2:CB:23:ARG:HG2	2:CB:23:ARG:O	2.16	0.45
42:BH:59:ARG:HG2	42:BH:59:ARG:O	2.17	0.45
1:CA:152:A:N6	1:CA:170:U:N3	2.65	0.45
10:AJ:47:PHE:HD1	10:AJ:47:PHE:O	2.00	0.45
16:AP:29:ASP:OD2	16:AP:29:ASP:N	2.50	0.45
35:DA:1638:C:H1'	35:DA:2698:U:O2'	2.17	0.45
35:DA:2711:A:OP2	35:DA:2712(A):A:OP2	2.35	0.45
45:DO:44:LYS:HA	45:DO:44:LYS:HD3	1.81	0.45
50:DT:62:THR:CG2	50:DT:75:ILE:HA	2.24	0.45
1:CA:1231:G:O2'	1:CA:1232:U:H5'	2.16	0.45
38:BD:198:ASN:ND2	38:BD:198:ASN:C	2.69	0.45
1:CA:920:U:C2	1:CA:921:U:C5	3.05	0.45
41:DG:39:ILE:HA	41:DG:157:ILE:CB	2.46	0.45
41:DG:180:PHE:CB	41:DG:182:LYS:HG3	2.47	0.45
34:B8:35:GLN:NE2	34:B8:36:LYS:HZ2	2.15	0.45
35:BA:2683:C:O2'	35:BA:2684:U:H5'	2.16	0.45
35:BA:2689:U:O2'	35:BA:2690:C:OP2	2.26	0.45
45:BO:6:THR:CG2	45:BO:7:TYR:H	2.23	0.45
50:BT:66:VAL:HG13	50:BT:71:GLY:N	2.31	0.45
39:DE:119:ARG:HD2	39:DE:120:TRP:CE2	2.51	0.45
35:BA:2041:U:H2'	35:BA:2042:A:C8	2.52	0.45
35:BA:996:A:H4'	51:BU:92:ARG:NE	2.32	0.45
51:BU:105:VAL:HG12	51:BU:109:LEU:HD11	1.99	0.45
42:DH:136:ILE:H	42:DH:136:ILE:CD1	2.23	0.45
42:DH:151:ILE:HD13	42:DH:151:ILE:N	2.32	0.45
39:DE:83:ASP:O	39:DE:84:PHE:HB2	2.17	0.45
2:AB:236:TYR:HB3	2:AB:239:VAL:HB	1.99	0.45
2:AB:74:LYS:O	2:AB:75:LYS:C	2.55	0.45
41:BG:161:THR:HG22	41:BG:163:ALA:N	2.31	0.45
54:DX:82:GLN:HG3	54:DX:83:VAL:H	1.74	0.45
35:DA:904:C:H2'	35:DA:905:U:H5'	1.99	0.45
35:DA:2467:C:H4'	47:DQ:123:HIS:CE1	2.52	0.45
51:DU:87:GLY:O	51:DU:88:ILE:HG23	2.16	0.45
19:CS:10:PHE:HE2	19:CS:70:LYS:NZ	2.15	0.45
1:CA:502:G:C2	1:CA:544:G:C2	3.05	0.45
47:BQ:20:ALA:O	47:BQ:23:GLY:N	2.37	0.45
40:BF:103:LYS:HA	40:BF:106:ARG:HE	1.81	0.45
35:BA:2050:C:H2'	35:BA:2051:A:C8	2.51	0.45
35:BA:1224:C:O2'	35:BA:1225:G:H5'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2070:G:C2	35:BA:2071:A:C4	3.05	0.45
35:DA:443:A:OP1	40:DF:46:ARG:CB	2.64	0.45
35:BA:869:G:O2'	47:BQ:8:LYS:HD3	2.17	0.45
3:AC:112:SER:OG	3:AC:114:PRO:HD2	2.17	0.45
1:AA:63:C:H42	1:AA:104:G:H1	1.64	0.45
1:AA:327:A:C2	1:AA:329:A:C4	3.05	0.45
35:DA:2376:A:H2'	35:DA:2377:A:O4'	2.17	0.45
36:DB:7:G:H2'	36:DB:8:U:O4'	2.16	0.45
49:DS:89:ARG:CB	49:DS:97:ARG:HH22	2.30	0.45
2:CB:236:TYR:HB3	2:CB:239:VAL:HB	1.99	0.45
2:AB:47:THR:O	2:AB:51:LEU:HG	2.16	0.45
35:DA:202:U:O2'	35:DA:203:C:H5'	2.16	0.45
44:BN:103:VAL:O	44:BN:106:MET:HB2	2.16	0.45
2:CB:69:LEU:C	2:CB:69:LEU:CD1	2.85	0.45
35:DA:674:G:H2'	35:DA:804:A:H61	1.82	0.45
35:DA:808:G:O2'	35:DA:1254:A:O2'	2.30	0.45
46:DP:23:PRO:HB2	46:DP:33:ARG:NE	2.32	0.45
35:DA:684:G:N2	35:DA:787:U:H2'	2.31	0.45
35:BA:1885:A:H2'	35:BA:1886:C:O4'	2.17	0.45
1:AA:1316:G:H2'	1:AA:1317:C:H5'	1.99	0.45
18:AR:40:LEU:O	18:AR:42:ARG:N	2.50	0.45
35:BA:2738:A:C2	35:BA:2739:U:C6	3.05	0.45
1:CA:780:A:C2	1:CA:803:G:C6	3.05	0.45
35:DA:2740:A:C2'	35:DA:2741:A:C8	2.92	0.45
35:DA:27:G:H2'	35:DA:28:A:OP2	2.17	0.45
25:CY:64:ARG:N	25:CY:64:ARG:HD2	2.31	0.45
21:CU:24:ARG:HD2	21:CU:24:ARG:N	2.32	0.45
12:CL:32:PHE:CB	12:CL:84:LEU:HD21	2.46	0.45
25:AY:172:ALA:O	25:AY:175:LEU:N	2.49	0.45
11:AK:41:THR:HG21	11:AK:71:LYS:CD	2.47	0.45
26:B0:16:SER:CB	35:BA:2261:C:H3'	2.47	0.45
55:BY:71:LYS:HB2	55:BY:71:LYS:HZ2	1.82	0.45
35:DA:619:G:H3'	35:DA:620:G:N2	2.31	0.45
11:CK:64:ALA:C	11:CK:66:LEU:N	2.69	0.45
11:CK:41:THR:HG21	11:CK:71:LYS:CD	2.47	0.45
1:CA:1105:A:H2'	1:CA:1106:G:H8	1.81	0.45
1:AA:863:U:H2'	1:AA:865:A:OP2	2.16	0.45
1:AA:922:G:H4'	5:AE:20:GLN:HA	1.99	0.45
1:AA:18:C:C5'	5:AE:127:ASN:HD21	2.28	0.45
43:DI:12:LEU:N	43:DI:12:LEU:HD23	2.32	0.45
1:CA:1351:U:H6	1:CA:1351:U:O5'	2.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:AH:26:VAL:CG1	8:AH:59:LEU:HB2	2.47	0.45
9:AI:89:ASN:C	9:AI:91:ASP:H	2.19	0.45
8:CH:10:LEU:O	8:CH:14:ARG:HB2	2.17	0.45
8:CH:5:PRO:O	8:CH:8:ASP:HB3	2.16	0.45
5:AE:147:ASP:C	5:AE:150:ARG:HB3	2.37	0.45
9:AI:119:ALA:O	9:AI:120:ARG:HB2	2.17	0.45
1:CA:514:C:O2'	1:CA:515:G:H5'	2.17	0.45
38:BD:133:LEU:O	38:BD:136:ILE:HG13	2.16	0.45
1:CA:932:C:H4'	7:CG:4:ARG:NH2	2.32	0.45
7:AG:120:ILE:HG22	7:AG:124:LEU:CD1	2.46	0.45
6:AF:45:LEU:CD1	6:AF:46:ARG:N	2.78	0.45
26:D0:7:LEU:CA	47:DQ:83:MET:SD	3.05	0.45
1:CA:1425:U:H1'	1:CA:1476:G:N2	2.32	0.45
35:BA:1578:U:H2'	35:BA:1579:A:H5''	1.99	0.45
1:AA:1197:G:O2'	1:AA:1198:G:H5'	2.17	0.45
17:AQ:59:ILE:HG23	17:AQ:71:PHE:HB3	1.98	0.45
5:AE:77:PRO:HG2	5:AE:78:HIS:H	1.82	0.45
3:CC:178:LEU:C	3:CC:180:ALA:H	2.19	0.45
1:CA:10:A:H2'	1:CA:11:G:C8	2.51	0.45
46:DP:95:VAL:HG23	46:DP:125:VAL:CB	2.46	0.45
35:BA:2014:A:C2	35:BA:2015:A:C2	3.05	0.45
35:DA:469:G:C2'	35:DA:470:A:H5''	2.46	0.45
33:D7:2:LYS:HG2	35:DA:1620:G:O2'	2.17	0.45
53:DW:86:LEU:HA	53:DW:87:PRO:HD3	1.81	0.45
8:CH:107:LEU:HD23	8:CH:107:LEU:O	2.17	0.45
1:CA:1277:C:H2'	1:CA:1278:U:H5'	1.99	0.45
1:AA:276:G:O2'	1:AA:277:C:H5'	2.17	0.45
7:AG:50:ILE:O	7:AG:50:ILE:HG22	2.16	0.45
15:AO:32:LEU:O	15:AO:36:ILE:HG13	2.16	0.45
15:AO:53:HIS:O	15:AO:56:LEU:HB3	2.16	0.45
3:AC:76:VAL:CG2	3:AC:77:ILE:N	2.79	0.45
35:BA:361:G:C3'	35:BA:362:U:H5''	2.46	0.45
35:DA:523:C:C5	35:DA:524:U:H5	2.34	0.45
35:BA:184:C:H2'	35:BA:185:U:H6	1.77	0.45
38:DD:247:ALA:CB	38:DD:253:GLN:HA	2.46	0.45
56:DZ:100:VAL:HG22	56:DZ:101:PRO:HD2	1.99	0.45
33:B7:48:LYS:CD	33:B7:48:LYS:N	2.79	0.45
36:BB:60:C:O2'	36:BB:61:G:H5'	2.16	0.45
1:AA:359:U:H2'	1:AA:360:A:H8	1.80	0.45
35:DA:1531:C:H3'	35:DA:1532:C:C5'	2.46	0.45
23:CW:43:G:H2'	23:CW:44:A:C5'	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2861:G:C2	35:DA:2862:G:C8	3.05	0.45
6:AF:98:LEU:HD12	6:AF:98:LEU:N	2.31	0.45
35:DA:1350:C:C2'	35:DA:1351:C:H5'	2.47	0.45
35:BA:2037:G:H2'	35:BA:2038:G:H8	1.79	0.45
35:DA:1013:C:O2'	35:DA:1014:U:H5'	2.16	0.45
35:DA:949:C:O2'	35:DA:950:G:H5'	2.16	0.45
11:AK:18:ARG:O	11:AK:33:THR:N	2.47	0.45
35:BA:1557:C:OP2	35:BA:1558:A:O2'	2.35	0.45
35:BA:2552:U:H2'	35:BA:2554:U:H5''	1.98	0.45
7:AG:57:GLU:C	7:AG:59:LEU:H	2.20	0.45
38:DD:85:ASP:OD1	38:DD:87:ASN:HB2	2.17	0.45
4:AD:21:LEU:HD22	4:AD:115:ARG:HG3	1.98	0.45
35:DA:2228:G:C6	35:DA:2229:C:C4	3.05	0.45
35:DA:1989:G:H2'	35:DA:1990:C:H5'	1.98	0.45
45:DO:11:ALA:HB2	45:DO:64:ARG:NH2	2.32	0.45
14:CN:37:PHE:CE1	14:CN:53:LEU:HD22	2.50	0.45
38:BD:206:LEU:HD23	38:BD:211:ARG:NH1	2.32	0.45
5:CE:20:GLN:O	5:CE:23:GLY:O	2.35	0.45
50:BT:83:ILE:CG1	50:BT:84:GLN:HG2	2.45	0.45
36:BB:74:U:H3'	36:BB:75:G:H5''	1.97	0.45
56:BZ:125:LEU:O	56:BZ:165:VAL:CG2	2.65	0.45
35:BA:994:C:H1'	52:BV:10:LYS:HE2	1.99	0.45
52:BV:2:PHE:O	52:BV:3:ALA:HB2	2.16	0.45
1:AA:972:C:H5'	10:AJ:57:LYS:HZ3	1.82	0.45
28:B2:32:LEU:HG	28:B2:33:MET:H	1.81	0.45
28:B2:46:GLN:O	28:B2:50:ILE:O	2.35	0.45
35:BA:1601:G:OP2	54:BX:58:HIS:CD2	2.70	0.45
39:DE:88:GLY:O	39:DE:89:ASP:CB	2.64	0.45
35:DA:61:G:H1	35:DA:94:C:N4	2.13	0.45
54:DX:51:VAL:CG1	54:DX:80:ILE:N	2.79	0.45
56:DZ:69:THR:O	56:DZ:70:LEU:HD23	2.17	0.45
1:AA:1057:G:H5''	3:AC:154:SER:HG	1.80	0.45
49:BS:101:LEU:C	49:BS:101:LEU:HD13	2.38	0.45
49:BS:89:ARG:CB	49:BS:97:ARG:HH22	2.30	0.45
4:CD:58:LEU:CD1	4:CD:59:ARG:N	2.77	0.45
4:CD:63:LYS:O	4:CD:64:LEU:C	2.54	0.45
43:DI:87:LYS:HD2	43:DI:121:LYS:O	2.17	0.45
43:DI:89:TYR:O	43:DI:121:LYS:HE2	2.17	0.45
35:BA:239:U:O2'	35:BA:622:G:H4'	2.16	0.45
40:BF:34:TRP:O	40:BF:35:GLU:C	2.54	0.45
46:BP:16:ARG:HD3	46:BP:16:ARG:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:55:VAL:O	5:CE:58:ALA:HB3	2.16	0.45
35:BA:1256:G:O2'	40:BF:82:ILE:HD12	2.16	0.45
35:BA:27:G:C2'	35:BA:28:A:OP2	2.64	0.45
35:BA:576:U:H2'	35:BA:577:G:H8	1.82	0.45
35:BA:814:C:H1'	35:BA:1225:G:H21	1.81	0.45
52:BV:72:VAL:O	52:BV:73:SER:HB3	2.17	0.45
52:BV:85:LYS:O	52:BV:87:HIS:N	2.45	0.45
35:BA:300:A:C6	35:BA:334:C:H5'	2.52	0.45
49:DS:27:SER:CA	49:DS:89:ARG:HD2	2.42	0.45
49:DS:97:ARG:O	49:DS:98:VAL:C	2.54	0.45
2:AB:197:VAL:HB	2:AB:200:ILE:HG12	1.99	0.45
44:DN:29:LYS:O	44:DN:31:ALA:N	2.49	0.45
47:BQ:110:THR:HG1	47:BQ:113:GLN:HG3	1.81	0.45
6:CF:72:VAL:O	6:CF:75:LEU:HB2	2.17	0.45
15:CO:56:LEU:O	15:CO:57:LEU:C	2.55	0.45
34:D8:59:LYS:CB	34:D8:59:LYS:NZ	2.75	0.45
4:AD:108:LEU:N	4:AD:108:LEU:HD12	2.32	0.45
35:DA:79:G:C4	35:DA:80:G:C8	3.05	0.45
4:AD:61:LYS:NZ	4:AD:62:GLN:NE2	2.65	0.45
6:AF:10:LEU:HD13	6:AF:61:LEU:CD1	2.45	0.45
6:AF:69:GLU:O	6:AF:70:ASP:C	2.55	0.45
18:AR:44:LEU:O	18:AR:51:LEU:HD21	2.17	0.45
1:CA:802:A:C2'	1:CA:803:G:H5'	2.46	0.45
35:DA:2024:G:H2'	35:DA:2025:C:C6	2.50	0.45
44:DN:77:GLY:O	44:DN:78:TYR:CB	2.64	0.45
1:AA:1106:G:H5''	3:AC:172:ARG:HG2	1.98	0.45
25:CY:150:SER:C	25:CY:152:ASP:N	2.71	0.45
43:BI:12:LEU:HD23	43:BI:12:LEU:N	2.32	0.45
1:AA:451:A:C1'	1:AA:452:A:C8	2.99	0.45
16:AP:40:ASP:H	16:AP:48:TRP:HB2	1.82	0.45
1:CA:192:U:C2	1:CA:193:C:C5	3.05	0.45
44:BN:76:SER:O	44:BN:77:GLY:O	2.34	0.45
1:AA:685:G:H21	1:AA:686:U:H3	1.61	0.45
11:AK:69:ALA:O	11:AK:73:MET:HG2	2.17	0.45
35:DA:2746:U:H2'	35:DA:2747:G:H8	1.81	0.45
1:CA:602:A:O2'	1:CA:603:U:H5'	2.17	0.45
35:BA:2247:A:H2'	35:BA:2248:C:H6	1.81	0.45
1:CA:1075:C:H5'	2:CB:103:THR:HG21	1.99	0.45
39:DE:132:HIS:CD2	39:DE:135:HIS:NE2	2.84	0.45
8:CH:23:SER:HB2	8:CH:61:VAL:O	2.16	0.45
1:AA:1342:C:H2'	1:AA:1343:G:C8	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:66:GLY:O	42:BH:69:ARG:N	2.50	0.45
9:CI:47:LEU:N	9:CI:47:LEU:CD1	2.79	0.45
5:CE:145:LYS:C	5:CE:148:VAL:HB	2.36	0.45
35:BA:1175:U:O3'	35:BA:1176:G:H3'	2.16	0.45
46:BP:114:ILE:HD11	46:BP:130:PHE:CE2	2.52	0.45
35:DA:2092:U:C4'	35:DA:2093:G:H5''	2.37	0.45
31:B5:23:HIS:O	31:B5:24:ALA:C	2.56	0.45
40:BF:178:PRO:HG2	40:BF:179:GLU:HG3	1.99	0.45
35:BA:2831:G:P	39:BE:58:ARG:NH1	2.90	0.45
35:DA:121:G:H2'	35:DA:122:G:C8	2.52	0.45
23:CW:19:G:H1'	23:CW:59:A:C2	2.51	0.45
26:D0:51:VAL:CG2	26:D0:81:VAL:HG23	2.47	0.45
4:AD:128:VAL:CG1	4:AD:129:ASN:H	2.12	0.45
1:AA:662:G:O2'	1:AA:836:G:H5''	2.17	0.45
1:AA:833:U:H2'	1:AA:834:C:C5	2.52	0.45
35:BA:523:C:C4	35:BA:524:U:C5	3.05	0.45
35:BA:2627:G:N2	35:BA:2781:A:C2	2.85	0.45
35:DA:470:A:H2'	35:DA:471:A:O4'	2.17	0.45
54:BX:63:LYS:O	54:BX:68:ARG:HA	2.17	0.45
35:BA:1710:C:H2'	35:BA:1711:C:H6	1.80	0.45
35:BA:447:A:C4	35:BA:473:G:C8	3.05	0.45
26:B0:39:ARG:NH2	35:BA:2354:G:N2	2.64	0.45
1:AA:1302:U:O2'	1:AA:1303:C:H5'	2.17	0.45
12:CL:119:LYS:HD3	12:CL:120:TYR:CE1	2.50	0.45
29:D3:40:THR:O	29:D3:43:ILE:N	2.49	0.45
28:D2:36:ARG:NH1	54:DX:92:LEU:HD22	2.32	0.45
35:DA:916:G:H2'	35:DA:917:A:H5''	1.99	0.45
35:DA:154:G:C6	35:DA:173:G:C6	3.05	0.45
35:BA:2350:C:H2'	35:BA:2351:G:O4'	2.17	0.45
35:DA:479:A:H61	35:DA:503:A:H61	1.65	0.45
1:AA:296:U:H2'	1:AA:297:G:O4'	2.17	0.45
17:AQ:10:VAL:HG12	17:AQ:53:LEU:CD1	2.46	0.45
35:BA:1406:U:H3'	35:BA:1407:C:C6	2.46	0.45
53:DW:65:LEU:CD2	53:DW:67:ASP:HB2	2.47	0.45
53:DW:65:LEU:HD22	53:DW:68:ARG:H	1.81	0.45
35:DA:1935:G:H1'	35:DA:1964:G:H21	1.82	0.45
1:AA:1046:A:H2'	1:AA:1046:A:N3	2.30	0.45
36:DB:16:G:H2'	36:DB:17:C:C6	2.51	0.45
1:AA:1040:U:H2'	1:AA:1041:A:H8	1.81	0.45
35:BA:1444:G:C2	35:BA:1548:C:C2	3.05	0.45
35:BA:838:C:N4	35:BA:940:G:H1	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:702:G:C2	35:BA:731:C:N3	2.85	0.45
35:DA:702:G:C2	35:DA:731:C:N3	2.85	0.45
1:CA:189(E):U:O2'	1:CA:189(F):U:H5'	2.16	0.45
11:CK:48:ILE:O	11:CK:50:TYR:N	2.42	0.45
35:BA:178:G:O2'	35:BA:179:G:H5'	2.17	0.45
35:BA:151:C:H2'	35:BA:152:G:H8	1.80	0.45
2:AB:221:LEU:C	2:AB:221:LEU:HD13	2.37	0.45
2:AB:114:ARG:HD2	2:AB:118:LEU:HG	1.99	0.45
39:DE:72:VAL:O	39:DE:73:GLU:O	2.34	0.45
53:DW:103:ILE:HG13	53:DW:103:ILE:O	2.17	0.45
35:DA:2474:C:O2	35:DA:2474:C:C2'	2.64	0.45
9:CI:25:LYS:HG3	9:CI:25:LYS:O	2.16	0.45
9:AI:125:TYR:CD2	9:AI:125:TYR:C	2.88	0.45
37:DC:42:GLU:O	37:DC:212:VAL:HA	2.17	0.45
35:DA:2713:A:C2'	35:DA:2714:G:H5'	2.47	0.45
50:DT:100:TYR:CD2	50:DT:103:ARG:CZ	2.95	0.45
50:DT:109:GLU:O	50:DT:110:ILE:C	2.54	0.45
50:DT:83:ILE:O	50:DT:84:GLN:C	2.55	0.45
43:BI:87:LYS:CE	43:BI:121:LYS:HG2	2.47	0.45
1:CA:1230:C:C2'	1:CA:1231:G:H5'	2.46	0.45
10:CJ:48:THR:CB	10:CJ:62:HIS:HB3	2.47	0.45
14:CN:24:CYS:HB3	14:CN:27:CYS:O	2.16	0.45
14:CN:26:ARG:HB2	14:CN:39:LEU:CD2	2.47	0.45
35:BA:1798:U:N3	35:BA:1819:A:C2	2.85	0.45
38:BD:241:PRO:O	38:BD:242:ARG:HB2	2.16	0.45
38:BD:39:LYS:HB2	38:BD:62:TYR:CB	2.47	0.45
35:DA:729:G:C4	35:DA:1775:U:C2	3.05	0.45
34:B8:25:MET:HB3	34:B8:26:LYS:H	1.52	0.45
34:B8:30:ARG:O	34:B8:30:ARG:CG	2.65	0.45
47:DQ:34:LEU:HG	47:DQ:103:MET:HB2	1.99	0.45
56:BZ:27:VAL:O	56:BZ:27:VAL:HG13	2.16	0.45
39:BE:1:MET:H2	39:BE:84:PHE:HB2	1.82	0.45
44:BN:38:HIS:O	44:BN:40:PRO:HD3	2.16	0.45
51:BU:108:GLU:OE1	51:BU:112:ARG:NH2	2.46	0.45
28:B2:53:LEU:HG	35:BA:77:C:H5'	1.97	0.45
54:BX:35:THR:HG23	54:BX:36:LYS:N	2.32	0.45
39:DE:65:GLY:O	39:DE:66:HIS:C	2.55	0.45
2:AB:236:TYR:C	2:AB:238:LEU:H	2.20	0.45
41:BG:133:LEU:C	41:BG:133:LEU:CD1	2.86	0.45
41:BG:77:ILE:C	41:BG:79:ASN:N	2.70	0.45
42:BH:146:ALA:O	42:BH:148:ILE:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:89:ILE:HG12	42:BH:90:LYS:N	2.32	0.45
10:AJ:8:LEU:HB2	10:AJ:16:LEU:HD11	1.98	0.45
1:AA:1203:C:H2'	1:AA:1204:A:O4'	2.18	0.45
36:BB:49:C:O2'	36:BB:50:G:H5'	2.17	0.45
49:BS:25:ARG:HA	49:BS:87:PHE:O	2.17	0.45
4:CD:154:ASN:HB2	4:CD:159:ARG:HH21	1.82	0.45
35:BA:259:G:N2	35:BA:621:A:H8	2.07	0.45
35:DA:1018:C:H2'	35:DA:1019:U:H6	1.82	0.45
35:BA:27:G:H2'	35:BA:28:A:OP2	2.17	0.45
40:DF:107:LYS:O	40:DF:108:LYS:C	2.55	0.45
40:DF:114:VAL:HG12	40:DF:192:LEU:CD1	2.47	0.45
35:DA:1586:A:N1	35:DA:1587:A:C4	2.85	0.45
35:DA:1652:A:H62	48:DR:11:ASN:ND2	2.14	0.45
1:AA:61:G:O2'	1:AA:62:U:H5'	2.17	0.45
35:BA:1281:G:O6	35:BA:1286:A:N7	2.50	0.45
35:BA:1753:G:C8	35:BA:1755:A:OP2	2.70	0.45
35:BA:2714:G:H8	35:BA:2714:G:H5''	1.81	0.45
48:BR:41:ALA:C	48:BR:43:GLU:N	2.68	0.45
49:DS:66:ALA:O	49:DS:67:ARG:HB2	2.17	0.45
44:BN:30:ILE:O	44:BN:30:ILE:HG22	2.16	0.45
44:BN:35:ARG:HD3	44:BN:37:LYS:HD3	1.99	0.45
55:DY:11:ASP:OD1	55:DY:12:THR:N	2.50	0.45
55:DY:22:GLY:O	55:DY:23:ARG:CG	2.59	0.45
18:AR:36:ASN:HB2	18:AR:39:VAL:CG2	2.46	0.45
35:DA:2023:G:O2'	35:DA:2024:G:H5'	2.17	0.45
7:AG:6:ARG:O	7:AG:7:ALA:C	2.55	0.45
25:CY:161:ILE:O	25:CY:162:GLN:C	2.56	0.45
1:CA:1446:U:C2	1:CA:1457:G:N1	2.85	0.45
50:DT:11:GLU:N	50:DT:11:GLU:OE1	2.47	0.45
7:CG:104:LEU:H	7:CG:104:LEU:HD22	1.82	0.45
1:AA:553:A:O2'	1:AA:554:C:H5'	2.16	0.45
1:CA:691:G:O2'	1:CA:692:U:H5'	2.17	0.45
11:CK:23:ALA:O	11:CK:87:THR:N	2.48	0.45
7:CG:92:SER:CB	7:CG:94:ARG:HE	2.30	0.45
35:DA:2245:U:H5'	35:DA:2246:G:C5'	2.41	0.45
43:BI:97:ILE:CD1	43:BI:116:LEU:HD22	2.46	0.45
40:DF:132:VAL:CG2	40:DF:133:ASN:H	2.05	0.45
26:B0:12:ASN:O	26:B0:14:ARG:N	2.50	0.45
55:BY:31:LEU:CD1	55:BY:34:LYS:N	2.77	0.45
1:AA:690:G:N1	1:AA:691:G:C2	2.85	0.45
40:DF:102:PRO:O	40:DF:103:LYS:C	2.55	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:AT:64:ASP:OD1	20:AT:81:LYS:HD2	2.17	0.45
1:CA:1118:C:OP1	9:CI:104:ARG:HD3	2.16	0.45
8:AH:7:ALA:HA	8:AH:10:LEU:HG	1.98	0.45
31:B5:40:LYS:HZ3	31:B5:46:CYS:N	2.14	0.45
54:DX:26:TYR:HD1	54:DX:26:TYR:H	1.62	0.45
42:BH:38:SER:C	42:BH:40:GLU:N	2.71	0.45
33:D7:39:ARG:HH11	33:D7:39:ARG:HG2	1.82	0.45
40:BF:139:PHE:O	40:BF:142:TRP:HB3	2.17	0.45
35:BA:1264:G:C3'	35:BA:1265:A:H5''	2.47	0.45
1:AA:586:C:H1'	1:AA:878:G:O2'	2.17	0.45
1:CA:1490:C:H2'	1:CA:1491:G:O4'	2.17	0.45
35:BA:491:G:N2	35:BA:492:A:H1'	2.32	0.45
2:AB:105:PHE:O	2:AB:106:LYS:C	2.55	0.45
35:BA:16:G:H2'	35:BA:17:G:H8	1.82	0.45
1:CA:712:A:O2'	1:CA:713:G:H5'	2.17	0.45
17:CQ:60:ILE:HG12	17:CQ:61:GLU:N	2.31	0.45
1:CA:1437:C:H2'	1:CA:1438:G:O5'	2.17	0.45
20:CT:12:ALA:C	20:CT:14:LYS:H	2.20	0.45
35:DA:1937:A:H2'	35:DA:1938:A:H5'	1.99	0.45
31:D5:25:LEU:HD12	53:DW:23:LEU:HD11	1.98	0.45
35:DA:1364:G:H2'	35:DA:1364:G:N3	2.32	0.45
5:CE:76:ILE:HG23	5:CE:77:PRO:CD	2.46	0.45
32:B6:32:ASN:CG	32:B6:33:LYS:N	2.64	0.45
1:CA:1255:G:H5'	3:CC:26:LYS:NZ	2.32	0.45
35:BA:1230:C:O2'	35:BA:1231:G:H5'	2.17	0.45
8:CH:31:PHE:HA	8:CH:34:GLU:HG2	1.98	0.45
19:AS:41:VAL:CG1	19:AS:44:MET:HB2	2.46	0.45
35:BA:967:C:C2'	35:BA:968:G:H5'	2.47	0.45
13:AM:8:GLU:C	13:AM:9:ILE:HD12	2.38	0.45
35:BA:1301:A:O2'	35:BA:1302:A:P	2.75	0.45
1:AA:1118:C:P	9:AI:104:ARG:HG3	2.57	0.45
35:BA:2392:A:H1'	46:BP:60:MET:HE3	1.99	0.45
46:BP:59:LEU:CA	46:BP:61:ARG:CZ	2.90	0.45
35:DA:2660:A:H2'	35:DA:2661:G:O4'	2.16	0.45
27:B1:41:ARG:HH12	35:BA:189:G:C3'	2.30	0.45
35:DA:1450:G:H2'	35:DA:1450(A):C:H6	1.81	0.45
35:DA:523:C:C4	35:DA:524:U:C5	3.05	0.45
35:BA:2350:C:O2'	35:BA:2351:G:H5'	2.16	0.45
1:CA:299:G:C6	1:CA:300:A:C6	3.05	0.45
17:AQ:12:SER:HA	17:AQ:14:LYS:HZ1	1.82	0.45
1:AA:785:G:C2'	1:AA:786:G:H5'	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1293:G:O2'	1:AA:1294:G:P	2.75	0.45
53:DW:62:HIS:O	53:DW:64:MET:HG3	2.16	0.45
36:BB:61:G:C2	36:BB:62:C:C2	3.05	0.45
50:BT:6:LEU:O	50:BT:6:LEU:HD23	2.17	0.45
1:CA:473:G:H5''	16:CP:81:ARG:NE	2.30	0.45
29:B3:22:ALA:O	29:B3:25:ALA:HB3	2.16	0.45
1:CA:1246:C:H2'	1:CA:1247:U:H6	1.81	0.45
35:DA:35:G:O2'	35:DA:36:G:H5'	2.17	0.45
35:DA:2828:C:H2'	35:DA:2829:C:H6	1.80	0.45
35:DA:1668:A:C5	35:DA:1674:G:C5	3.04	0.45
35:DA:2560:C:C2'	35:DA:2561:A:H5'	2.46	0.45
35:DA:2359:C:H2'	35:DA:2360:A:O4'	2.16	0.45
35:BA:1831:G:H2'	35:BA:1832:C:C6	2.52	0.45
35:DA:764:A:C2	35:DA:781:A:C2	3.05	0.45
35:BA:2474:C:O2	35:BA:2474:C:C2'	2.65	0.45
1:AA:1476:G:C2	1:AA:1477:C:C2	3.05	0.45
36:DB:97:G:C2	36:DB:98:G:C8	3.05	0.45
5:CE:136:MET:HB3	5:CE:140:ARG:HH21	1.81	0.45
35:DA:2654:A:N1	35:DA:2665:A:H5''	2.32	0.45
56:DZ:156:LYS:O	56:DZ:156:LYS:HG2	2.17	0.45
25:AY:142:LYS:HD2	25:AY:142:LYS:O	2.17	0.45
3:CC:27:LYS:NZ	3:CC:27:LYS:O	2.50	0.45
51:DU:43:GLY:HA3	52:DV:76:LYS:HB2	1.99	0.45
42:BH:39:PRO:O	42:BH:42:ARG:HG3	2.17	0.45
40:BF:77:ASP:C	40:BF:79:GLY:N	2.71	0.45
35:DA:1991:U:H2'	35:DA:1992:G:H5''	1.96	0.44
35:DA:2000:G:C2	35:DA:2001:A:C8	3.05	0.44
45:DO:107:ARG:NH1	50:DT:36:GLU:N	2.61	0.44
1:CA:1232:U:H2'	1:CA:1233:G:O4'	2.17	0.44
35:DA:2313:C:H2'	35:DA:2314:C:C6	2.52	0.44
1:CA:1125:U:O4	10:CJ:5:ARG:HD3	2.17	0.44
32:B6:26:ASN:O	32:B6:27:LYS:HD3	2.16	0.44
34:B8:32:LEU:HD23	34:B8:35:GLN:C	2.38	0.44
34:B8:29:LYS:HZ1	34:B8:44:LYS:HB3	1.82	0.44
45:BO:76:ALA:HB3	50:BT:75:ILE:CG1	2.46	0.44
35:DA:2056:G:C8	35:DA:2577:A:C6	3.05	0.44
44:BN:44:PRO:O	44:BN:46:VAL:N	2.49	0.44
54:BX:53:LYS:HZ2	54:BX:55:ASN:HD21	1.63	0.44
27:B1:56:GLN:HG3	27:B1:57:GLU:N	2.31	0.44
41:BG:111:LEU:HB3	41:BG:117:PHE:CE2	2.51	0.44
41:BG:135:LEU:HG	41:BG:136:ARG:N	2.28	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:169:ALA:CA	41:BG:173:LEU:HD23	2.47	0.44
41:BG:173:LEU:N	41:BG:173:LEU:CD2	2.72	0.44
42:BH:92:ILE:CG2	42:BH:93:GLY:N	2.73	0.44
35:DA:2636:U:H2'	35:DA:2637:U:H6	1.81	0.44
3:AC:134:ILE:HD11	3:AC:153:VAL:CG2	2.46	0.44
19:CS:6:LYS:HG2	19:CS:7:LYS:NZ	2.32	0.44
45:DO:114:ILE:N	45:DO:114:ILE:CD1	2.71	0.44
1:CA:402:G:O2'	1:CA:403:C:H5'	2.17	0.44
4:CD:29:PRO:C	4:CD:30:LYS:HG2	2.38	0.44
4:CD:65:ARG:NH1	4:CD:72:GLU:CA	2.80	0.44
36:DB:74:U:H3'	36:DB:75:G:H5''	1.94	0.44
40:BF:102:PRO:O	40:BF:104:LYS:N	2.50	0.44
40:BF:5:ALA:C	40:BF:6:VAL:HG22	2.38	0.44
27:D1:46:LEU:HD22	27:D1:48:LYS:CE	2.47	0.44
35:BA:1254:A:H5'	35:BA:1255:U:C5'	2.47	0.44
35:BA:2498:C:C2'	35:BA:2499:C:H5'	2.47	0.44
40:BF:53:THR:CG2	40:BF:56:GLU:OE1	2.65	0.44
40:DF:123:LEU:HD12	40:DF:124:LEU:N	2.31	0.44
40:DF:45:ARG:HG3	40:DF:46:ARG:N	2.32	0.44
55:BY:77:PRO:O	55:BY:78:ALA:CB	2.64	0.44
55:BY:86:ARG:NH2	55:BY:95:LYS:NZ	2.63	0.44
1:AA:1422:G:H1	1:AA:1479:C:N4	2.14	0.44
20:AT:51:GLU:O	20:AT:52:ALA:C	2.55	0.44
48:BR:97:VAL:HG13	48:BR:114:VAL:HG23	1.98	0.44
48:BR:28:LEU:HD12	48:BR:29:LEU:CD1	2.47	0.44
48:BR:53:HIS:CA	48:BR:56:LYS:HB2	2.46	0.44
49:DS:26:LEU:HG	49:DS:39:ILE:HD11	1.99	0.44
2:AB:188:ALA:HB1	2:AB:192:SER:HB2	1.99	0.44
27:D1:41:ARG:NH2	35:DA:205:G:C6	2.85	0.44
44:DN:22:THR:N	44:DN:61:ARG:HB2	2.32	0.44
45:BO:113:LYS:HA	45:BO:116:SER:OG	2.16	0.44
6:CF:10:LEU:HD13	6:CF:61:LEU:CD1	2.46	0.44
6:CF:69:GLU:CD	6:CF:69:GLU:N	2.70	0.44
35:DA:577:G:H2'	35:DA:578:A:H8	1.80	0.44
35:DA:809:G:H2'	35:DA:810:U:C6	2.52	0.44
40:DF:63:LYS:HZ3	40:DF:67:GLN:HB3	1.80	0.44
46:DP:47:ASP:CG	46:DP:49:ARG:HB3	2.37	0.44
35:DA:1242:A:N1	46:DP:8:PRO:CG	2.79	0.44
4:AD:162:LEU:O	4:AD:165:MET:HB2	2.17	0.44
1:AA:756:C:H2'	1:AA:757:U:O4'	2.17	0.44
47:BQ:50:ALA:O	47:BQ:54:MET:CB	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2740:A:C6	35:BA:2764:A:C8	3.05	0.44
35:DA:563:G:C6	35:DA:564:C:N4	2.85	0.44
51:DU:21:ALA:O	51:DU:22:LYS:C	2.55	0.44
35:DA:472:A:H2'	35:DA:473:G:H5'	1.99	0.44
12:CL:84:LEU:HB3	12:CL:101:VAL:HB	2.00	0.44
12:CL:97:ARG:C	12:CL:98:TYR:CD1	2.90	0.44
19:CS:40:ILE:HD13	19:CS:62:ILE:CD1	2.47	0.44
21:AU:21:TYR:HD1	21:AU:21:TYR:N	2.14	0.44
16:AP:48:TRP:CE3	16:AP:49:LEU:N	2.83	0.44
35:BA:2020:A:C5	35:BA:2022:U:C5	3.05	0.44
52:BV:78:LYS:CD	52:BV:79:VAL:N	2.68	0.44
33:B7:28:ARG:O	33:B7:29:LYS:C	2.56	0.44
35:BA:1353:A:C5	35:BA:1378:A:C5	3.05	0.44
19:AS:40:ILE:HG21	19:AS:62:ILE:HD11	1.99	0.44
55:BY:18:GLY:O	55:BY:20:TYR:N	2.51	0.44
1:AA:790:A:C6	1:AA:791:G:C6	3.04	0.44
1:AA:1307:U:C4'	13:AM:109:THR:HG21	2.47	0.44
13:AM:89:GLY:C	13:AM:90:LEU:O	2.55	0.44
1:AA:190:U:O2'	1:AA:191:G:H5'	2.16	0.44
20:AT:63:ILE:O	20:AT:64:ASP:C	2.55	0.44
1:CA:1106:G:H5''	3:CC:172:ARG:HG2	1.99	0.44
5:CE:36:ASP:CG	5:CE:37:ARG:N	2.70	0.44
12:AL:76:ASN:HD21	12:AL:108:ALA:HB2	1.82	0.44
18:CR:53:ARG:HH22	18:CR:59:SER:C	2.20	0.44
1:CA:511:C:O2'	1:CA:512:U:H6	2.00	0.44
56:DZ:145:GLU:HA	56:DZ:145:GLU:OE1	2.17	0.44
9:CI:58:ARG:HD3	9:CI:59:PHE:CE1	2.51	0.44
35:DA:1264:G:H2'	35:DA:1265:A:C8	2.51	0.44
7:CG:64:GLN:O	7:CG:66:VAL:N	2.50	0.44
23:AW:44:A:H2'	23:AW:45:A:C8	2.53	0.44
40:BF:148:LEU:CD2	40:BF:191:ARG:HD3	2.47	0.44
53:DW:8:ARG:HG3	53:DW:8:ARG:NH1	2.31	0.44
53:BW:96:ILE:HG13	53:BW:97:LYS:H	1.82	0.44
39:DE:14:ILE:O	39:DE:20:ALA:HA	2.18	0.44
8:AH:87:SER:OG	8:AH:92:ARG:HA	2.17	0.44
35:BA:1578:U:OP2	35:BA:1578:U:C6	2.69	0.44
17:AQ:47:PRO:HG2	17:AQ:48:GLU:CD	2.37	0.44
7:CG:47:CYS:CA	7:CG:58:PRO:HG3	2.47	0.44
1:AA:313:A:H2'	1:AA:314:C:H6	1.76	0.44
37:DC:70:LYS:C	37:DC:72:VAL:H	2.19	0.44
35:BA:447:A:C2	35:BA:473:G:C8	3.05	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D3:16:PRO:HB2	29:D3:18:ASP:OD1	2.16	0.44
35:BA:1301:A:O2'	35:BA:1302:A:C2'	2.59	0.44
12:CL:38:THR:CG2	12:CL:57:LYS:HB2	2.47	0.44
12:CL:119:LYS:O	12:CL:120:TYR:CB	2.62	0.44
35:BA:1388:G:H1	35:BA:1399:C:N4	2.15	0.44
35:DA:1289:C:O2'	35:DA:1290:C:H5'	2.16	0.44
35:DA:1444:G:C2	35:DA:1548:C:C2	3.05	0.44
36:BB:64:C:O2'	36:BB:65:C:H5'	2.17	0.44
53:BW:43:GLY:O	53:BW:44:ALA:C	2.55	0.44
1:AA:1521:G:H2'	1:AA:1522:U:C6	2.51	0.44
35:BA:1906:G:C8	35:BA:1929:G:C4	3.05	0.44
10:AJ:22:LYS:O	10:AJ:24:VAL:N	2.41	0.44
39:DE:38:THR:C	39:DE:40:GLU:N	2.69	0.44
35:BA:639:U:C4	35:BA:640:C:N4	2.86	0.44
35:DA:977:G:C6	35:DA:987:G:C6	3.04	0.44
4:CD:192:GLU:C	4:CD:194:LEU:N	2.70	0.44
35:DA:717:G:H2'	35:DA:718:A:O4'	2.16	0.44
1:CA:124:G:C6	1:CA:125:U:C4	3.05	0.44
35:BA:608:A:H2'	35:BA:608:A:N3	2.32	0.44
1:CA:651:C:O2'	1:CA:652:U:H5'	2.17	0.44
37:BC:86:ALA:HA	37:BC:89:ALA:HB2	1.98	0.44
35:BA:845:G:C8	35:BA:845:G:OP2	2.69	0.44
35:DA:1431:U:O2'	35:DA:1432:C:H5'	2.16	0.44
35:BA:151:C:N4	35:BA:175:G:H1	2.15	0.44
35:BA:785:G:C4	35:BA:786:C:C5	3.05	0.44
37:BC:65:PRO:HG2	37:BC:189:ILE:CA	2.48	0.44
1:AA:839:U:O2	1:AA:839:U:O4'	2.33	0.44
35:DA:1923:U:H2'	35:DA:1924:C:H6	1.82	0.44
5:CE:60:TYR:HE2	5:CE:64:ARG:NE	2.15	0.44
35:DA:2295:C:O2'	35:DA:2296:U:H5'	2.17	0.44
1:AA:318:G:H2'	1:AA:319:G:H8	1.81	0.44
35:DA:1831:G:O2'	35:DA:1832:C:H5'	2.16	0.44
37:DC:105:ASP:O	37:DC:106:ALA:HB2	2.16	0.44
35:BA:2330:G:N2	35:BA:2386:C:C2	2.85	0.44
1:CA:1440:C:N4	1:CA:1441:G:C2	2.85	0.44
35:DA:2714:G:C5	35:DA:2715:C:C4	3.05	0.44
45:DO:101:PRO:C	45:DO:102:VAL:HG22	2.38	0.44
45:DO:85:VAL:CG1	45:DO:86:ILE:N	2.80	0.44
50:DT:53:ARG:HG2	50:DT:53:ARG:O	2.16	0.44
50:DT:32:TYR:HD2	50:DT:81:PRO:CB	2.30	0.44
50:DT:92:GLY:C	50:DT:94:ALA:H	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DG:23:PHE:HZ	41:DG:167:GLU:HB3	1.82	0.44
38:BD:34:VAL:HG22	38:BD:35:LYS:NZ	2.33	0.44
1:CA:922:G:N3	1:CA:1398:A:C2	2.76	0.44
1:CA:922:G:C6	1:CA:923:A:C6	3.05	0.44
35:DA:1790:C:H2'	35:DA:1791:A:N7	2.33	0.44
38:DD:94:LEU:HD13	38:DD:94:LEU:C	2.37	0.44
35:DA:2313:C:H4'	41:DG:40:ASN:ND2	2.33	0.44
41:DG:135:LEU:HB3	41:DG:155:MET:HE3	1.99	0.44
41:DG:131:TYR:O	41:DG:159:VAL:HG21	2.17	0.44
35:BA:1992:G:N1	35:BA:1997:G:N1	2.65	0.44
50:BT:75:ILE:N	50:BT:75:ILE:CD1	2.77	0.44
39:BE:179:GLU:O	39:BE:180:ASN:CB	2.65	0.44
39:BE:78:LEU:C	39:BE:79:ARG:HD2	2.37	0.44
19:AS:78:ARG:HH11	19:AS:78:ARG:HG3	1.80	0.44
35:BA:93:G:H2'	35:BA:94:C:O4'	2.18	0.44
27:B1:68:PRO:O	27:B1:69:LYS:C	2.54	0.44
41:BG:170:ARG:NH1	41:BG:170:ARG:HG3	2.33	0.44
35:BA:253:C:C2'	35:BA:254:G:H5'	2.47	0.44
54:DX:32:PRO:O	54:DX:75:ASP:OD2	2.35	0.44
54:DX:84:ALA:O	54:DX:86:GLY:N	2.50	0.44
42:BH:144:VAL:O	42:BH:144:VAL:CG1	2.65	0.44
42:BH:88:LEU:O	42:BH:89:ILE:CG2	2.65	0.44
47:DQ:134:ARG:HH12	56:DZ:119:GLU:CD	2.20	0.44
56:DZ:165:VAL:HG12	56:DZ:166:SER:N	2.31	0.44
1:CA:1065:U:H5'	1:CA:1190:G:N2	2.12	0.44
49:BS:106:ARG:O	49:BS:106:ARG:HD2	2.17	0.44
49:BS:38:GLN:CG	49:BS:39:ILE:N	2.78	0.44
49:BS:77:ALA:O	49:BS:80:LEU:N	2.45	0.44
4:CD:12:CYS:SG	4:CD:18:LYS:HG2	2.57	0.44
36:DB:75:G:N7	36:DB:76:G:N7	2.65	0.44
47:BQ:125:LEU:HB3	47:BQ:127:ILE:CD1	2.47	0.44
40:BF:39:TRP:CG	40:BF:101:LEU:HB2	2.52	0.44
25:AY:34:ASN:ND2	25:AY:36:ALA:HB3	2.32	0.44
46:BP:71:VAL:HG22	46:BP:72:PRO:CG	2.47	0.44
35:BA:814:C:H1'	35:BA:1225:G:N2	2.32	0.44
27:B1:40:ARG:NH1	35:BA:2081:C:O2'	2.50	0.44
35:BA:806:C:O2	35:BA:2444:G:O2'	2.34	0.44
40:BF:64:ILE:HG12	40:BF:65:TRP:NE1	2.33	0.44
52:BV:75:PHE:HE1	52:BV:89:GLN:HB2	1.83	0.44
35:DA:1655:A:O2'	39:DE:115:GLY:HA3	2.18	0.44
35:BA:2820:A:HO2'	35:BA:2821:A:P	2.40	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1464:G:C2	1:AA:1465:C:C5	3.05	0.44
1:AA:1473:A:O2'	1:AA:1474:G:H5'	2.15	0.44
35:BA:1456:G:C4	35:BA:1457:A:N7	2.85	0.44
35:BA:2713:A:H3'	35:BA:2714:G:H5'	1.99	0.44
48:BR:17:ARG:NH1	48:BR:17:ARG:HG2	2.28	0.44
50:BT:102:ILE:O	50:BT:103:ARG:C	2.56	0.44
36:DB:57:A:H1'	41:DG:30:GLU:CA	2.47	0.44
49:DS:25:ARG:HA	49:DS:87:PHE:O	2.18	0.44
2:CB:75:LYS:CA	2:CB:75:LYS:HE3	2.48	0.44
44:BN:51:PHE:CZ	44:BN:119:ARG:HD2	2.52	0.44
15:CO:36:ILE:HG22	15:CO:37:ASN:N	2.32	0.44
18:CR:33:ASP:OD2	18:CR:34:TYR:N	2.49	0.44
52:DV:73:SER:OG	52:DV:89:GLN:O	2.29	0.44
35:DA:1204:A:N1	35:DA:1241:A:H2	2.15	0.44
1:AA:402:G:C6	1:AA:403:C:C4	3.04	0.44
19:AS:10:PHE:CD1	19:AS:10:PHE:N	2.85	0.44
12:AL:7:ILE:O	12:AL:8:ASN:C	2.56	0.44
47:DQ:73:PRO:HG3	47:DQ:93:TYR:CE2	2.53	0.44
35:DA:1131:G:N2	35:DA:1132:A:C5	2.85	0.44
35:DA:532:A:H4'	35:DA:533:G:O4'	2.17	0.44
42:DH:17:VAL:HG12	42:DH:19:VAL:HG23	1.99	0.44
7:AG:107:ALA:O	7:AG:110:GLN:HB2	2.16	0.44
25:CY:150:SER:N	25:CY:153:GLU:OE1	2.36	0.44
25:CY:15:GLN:N	25:CY:168:PHE:HZ	2.16	0.44
13:CM:89:GLY:O	13:CM:90:LEU:O	2.34	0.44
25:AY:170:ALA:O	25:AY:172:ALA:N	2.50	0.44
1:CA:756:C:O2'	1:CA:757:U:H5'	2.18	0.44
35:BA:2034:U:C2'	35:BA:2035:G:H5'	2.47	0.44
16:CP:55:ARG:O	16:CP:56:ALA:C	2.56	0.44
11:AK:62:GLN:C	11:AK:64:ALA:N	2.69	0.44
33:B7:16:HIS:ND1	35:BA:465:G:H4'	2.32	0.44
35:DA:2426:A:C3'	35:DA:2427:C:C5'	2.84	0.44
35:DA:1591:G:H2'	35:DA:1592:C:H5'	1.99	0.44
35:BA:2245:U:H5'	35:BA:2246:G:C5'	2.41	0.44
55:BY:28:LYS:CB	55:BY:39:VAL:H	2.30	0.44
2:CB:180:LEU:C	2:CB:182:ILE:H	2.20	0.44
11:CK:73:MET:SD	11:CK:103:LEU:CD1	3.06	0.44
11:CK:67:ASP:HA	11:CK:70:LYS:HB3	1.98	0.44
1:AA:184:G:O4'	1:AA:224:C:H4'	2.16	0.44
35:DA:926:A:H5'	35:DA:926:A:C8	2.51	0.44
1:AA:824:C:H2'	1:AA:825:G:H8	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B3:4:LEU:C	29:B3:4:LEU:HD23	2.37	0.44
42:BH:61:HIS:C	42:BH:63:SER:N	2.71	0.44
35:DA:1175:U:O3'	35:DA:1176:G:H3'	2.18	0.44
5:CE:147:ASP:HA	5:CE:150:ARG:CB	2.43	0.44
35:BA:543:C:C6	35:BA:547:A:C8	3.04	0.44
31:D5:23:HIS:O	31:D5:24:ALA:C	2.53	0.44
53:BW:14:PRO:O	53:BW:16:LYS:N	2.50	0.44
35:BA:17:G:H4'	51:BU:25:TRP:HH2	1.77	0.44
40:DF:167:ALA:O	40:DF:168:ARG:C	2.55	0.44
35:BA:120:U:O4	35:BA:177:G:C8	2.70	0.44
20:CT:26:ASN:HD22	20:CT:27:LYS:N	2.14	0.44
1:AA:662:G:O2'	1:AA:836:G:C5'	2.65	0.44
35:BA:523:C:C5	35:BA:524:U:H5	2.35	0.44
19:CS:33:THR:CG2	19:CS:51:VAL:HG22	2.48	0.44
37:BC:70:LYS:C	37:BC:72:VAL:H	2.20	0.44
32:D6:33:LYS:CA	32:D6:33:LYS:HE2	2.40	0.44
1:CA:66:G:H2'	1:CA:66:G:N3	2.31	0.44
26:B0:51:VAL:CG2	26:B0:81:VAL:HG23	2.48	0.44
35:BA:1945:G:C6	35:BA:1946:U:O4	2.71	0.44
35:BA:968:G:H2'	35:BA:969:U:C6	2.51	0.44
15:AO:56:LEU:HA	15:AO:59:MET:CE	2.47	0.44
31:D5:15:ARG:HA	31:D5:18:ALA:HB2	1.98	0.44
35:DA:2101:G:C6	35:DA:2102:U:C6	3.05	0.44
35:BA:154:G:H1	35:BA:172:C:N4	2.08	0.44
31:B5:42:PRO:C	31:B5:43:HIS:CD2	2.91	0.44
35:DA:1843:C:H1'	38:DD:255:LYS:HZ3	1.82	0.44
35:DA:1526:G:H2'	35:DA:1527:G:O4'	2.18	0.44
35:DA:1464:C:H1'	35:DA:1528(A):A:N3	2.32	0.44
35:DA:2464:C:O2'	35:DA:2465:C:O5'	2.35	0.44
6:AF:19:LEU:HD23	6:AF:19:LEU:O	2.16	0.44
35:DA:2775:A:O2'	35:DA:2776:A:C5'	2.64	0.44
19:CS:43:GLU:C	19:CS:45:VAL:N	2.64	0.44
17:AQ:11:VAL:HG23	17:AQ:20:THR:HB	1.99	0.44
35:BA:897:C:O2'	35:BA:898:C:H5'	2.17	0.44
7:AG:23:VAL:HG12	7:AG:27:ILE:HD11	1.98	0.44
7:AG:15:ASP:OD2	7:AG:44:TYR:OH	2.35	0.44
36:BB:61:G:H2'	36:BB:62:C:H6	1.77	0.44
3:CC:181:ASN:HD21	3:CC:204:LEU:HB2	1.82	0.44
35:DA:1889:A:N1	35:DA:2234:G:H1'	2.32	0.44
35:BA:304:G:C2	35:BA:305:U:C2	3.06	0.44
1:AA:76:C:N4	1:AA:93:G:H1	2.14	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:356:A:H1'	1:CA:368:U:O2'	2.18	0.44
17:AQ:56:VAL:O	17:AQ:76:LEU:HD12	2.17	0.44
3:AC:99:VAL:HG23	3:AC:99:VAL:O	2.17	0.44
35:BA:1525:G:H2'	35:BA:1526:G:C8	2.52	0.44
1:AA:524:G:H2'	1:AA:525:C:H6	1.79	0.44
1:CA:831:U:H2'	1:CA:832:C:C5	2.53	0.44
35:BA:39:C:C4	35:BA:40:C:N4	2.85	0.44
1:AA:1419:G:N2	1:AA:1482:G:N9	2.66	0.44
23:AW:68:C:O2'	23:AW:69:C:H5'	2.17	0.44
35:BA:147:U:H2'	35:BA:148:C:C6	2.52	0.44
35:BA:182:A:N3	35:BA:433:C:O2'	2.46	0.44
35:DA:2531:A:H2	35:DA:2658:C:O2	2.00	0.44
46:DP:138:LEU:HD23	46:DP:142:GLY:HA3	1.98	0.44
35:BA:1305:C:C2'	35:BA:1306:C:H5'	2.47	0.44
3:AC:190:ARG:O	3:AC:191:THR:O	2.35	0.44
35:DA:641:C:H2'	35:DA:642:G:O4'	2.17	0.44
35:DA:1478:G:HO2'	35:DA:1558:A:H2	1.66	0.44
46:DP:29:LYS:N	46:DP:29:LYS:HD2	2.32	0.44
1:AA:189(K):U:H2'	1:AA:189(L):G:C8	2.52	0.44
35:BA:2654:A:N1	35:BA:2665:A:H5''	2.32	0.44
35:DA:2727:G:C4	35:DA:2728:U:C5	3.05	0.44
50:DT:78:LEU:O	50:DT:78:LEU:HD23	2.18	0.44
39:DE:11:MET:N	50:DT:8:LYS:HE3	2.33	0.44
14:CN:47:LEU:HB3	14:CN:53:LEU:HG	2.00	0.44
14:CN:47:LEU:O	14:CN:51:GLY:N	2.51	0.44
35:BA:1807:G:C2	35:BA:1811:G:O6	2.69	0.44
1:CA:16:A:C2	1:CA:17:U:C6	3.05	0.44
45:BO:43:VAL:HG21	45:BO:52:VAL:CG1	2.47	0.44
45:BO:87:ILE:HD13	45:BO:92:GLU:C	2.38	0.44
50:BT:51:ARG:O	50:BT:61:PHE:HA	2.17	0.44
56:BZ:11:GLU:HB2	56:BZ:13:GLU:OE2	2.16	0.44
35:BA:2892:A:N6	35:BA:2893:G:N2	2.65	0.44
39:BE:87:GLU:O	39:BE:88:GLY:O	2.35	0.44
52:BV:18:LEU:CD2	52:BV:19:LYS:N	2.70	0.44
52:BV:20:LEU:N	52:BV:20:LEU:HD12	2.32	0.44
42:DH:121:ILE:CG2	42:DH:133:VAL:HG11	2.47	0.44
39:DE:4:ILE:HD11	39:DE:29:GLY:H	1.82	0.44
35:DA:60:G:C5	35:DA:63:U:C4	3.05	0.44
28:D2:26:ARG:NH2	54:DX:6:ASP:CA	2.75	0.44
55:BY:46:LYS:C	55:BY:47:LYS:HD2	2.38	0.44
56:DZ:118:GLN:HG3	56:DZ:120:ILE:CD1	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DZ:28:MET:CE	56:DZ:37:VAL:HG21	2.48	0.44
51:DU:111:GLU:C	51:DU:113:ALA:N	2.69	0.44
1:AA:1051:C:H2'	1:AA:1052:U:H6	1.83	0.44
35:BA:1860:G:H2'	35:BA:1861:G:C8	2.52	0.44
1:CA:434:U:H2'	1:CA:435:C:C1'	2.47	0.44
44:BN:96:GLU:HG2	44:BN:97:ARG:N	2.32	0.44
35:BA:234:C:O5'	35:BA:234:C:H6	2.00	0.44
35:DA:389:G:C8	35:DA:2413:G:H4'	2.53	0.44
27:D1:14:VAL:O	27:D1:15:ALA:O	2.34	0.44
3:CC:8:ILE:C	3:CC:10:PHE:N	2.70	0.44
35:BA:990:A:O5'	35:BA:991:C:OP2	2.36	0.44
40:DF:20:LEU:HD12	40:DF:199:TRP:HH2	1.81	0.44
35:BA:908:C:O2'	35:BA:909:A:H5'	2.17	0.44
48:DR:24:GLN:CB	48:DR:44:LEU:HD21	2.41	0.44
1:AA:101:A:H2'	1:AA:102:G:C8	2.51	0.44
1:AA:1434:A:H2'	1:AA:1435:G:C8	2.52	0.44
35:BA:2712(A):A:OP2	35:BA:2714:G:OP2	2.35	0.44
49:DS:106:ARG:HB3	49:DS:106:ARG:HE	1.51	0.44
49:DS:31:SER:CB	49:DS:34:HIS:O	2.66	0.44
49:DS:38:GLN:HG3	49:DS:49:VAL:O	2.17	0.44
49:DS:53:SER:OG	49:DS:54:LEU:N	2.47	0.44
35:BA:2476:A:N3	35:BA:2476:A:H2'	2.31	0.44
18:CR:26:LEU:HD21	18:CR:42:ARG:NH1	2.32	0.44
35:DA:2070:G:H2'	35:DA:2071:A:C8	2.52	0.44
35:DA:824:A:H2'	35:DA:825:C:C6	2.52	0.44
46:DP:47:ASP:HB3	46:DP:48:PRO:CA	2.47	0.44
1:AA:429:U:H4'	1:AA:430:A:O5'	2.14	0.44
4:AD:114:ARG:O	4:AD:117:ALA:HB3	2.17	0.44
43:DI:68:LEU:HD23	43:DI:136:VAL:HG11	1.99	0.44
43:DI:94:ALA:HB1	43:DI:114:LEU:HD12	1.99	0.44
43:DI:93:THR:O	43:DI:96:ASP:OD2	2.35	0.44
6:AF:21:LEU:CA	6:AF:24:GLU:HG2	2.46	0.44
6:AF:33:TYR:HD1	6:AF:75:LEU:CG	2.24	0.44
18:AR:29:PHE:HD2	18:AR:29:PHE:H	1.66	0.44
1:CA:1504:G:OP1	1:CA:1507:A:H4'	2.17	0.44
35:DA:2027:G:C6	35:DA:2028:U:C4	3.06	0.44
35:DA:2498:C:C2'	35:DA:2499:C:H5'	2.46	0.44
42:DH:19:VAL:HG22	42:DH:24:VAL:HG13	1.99	0.44
2:AB:142:LEU:HD23	2:AB:142:LEU:C	2.37	0.44
35:DA:579:G:C6	35:DA:580:C:N4	2.86	0.44
25:CY:160:GLU:C	25:CY:164:ILE:HD13	2.38	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1304:G:N7	1:CA:1305:G:C6	2.85	0.44
35:BA:296:C:C2'	35:BA:297:C:H5'	2.48	0.44
16:AP:73:LEU:CD2	16:AP:73:LEU:N	2.79	0.44
20:CT:43:LEU:HA	20:CT:46:GLU:HB3	2.00	0.44
1:CA:261:U:OP1	20:CT:79:ARG:NH2	2.50	0.44
1:CA:881:G:P	12:CL:12:ARG:HH22	2.40	0.44
35:BA:2617:C:O2'	35:BA:2618:G:H5'	2.17	0.44
11:CK:23:ALA:CB	11:CK:91:ARG:HG2	2.47	0.44
35:DA:2388:A:H5'	35:DA:2389:G:OP2	2.18	0.44
40:DF:160:ASN:HB3	40:DF:163:VAL:CG2	2.46	0.44
40:DF:160:ASN:CB	40:DF:163:VAL:HG23	2.48	0.44
42:DH:54:ARG:HB2	42:DH:61:HIS:HD2	1.83	0.44
7:AG:148:ASN:C	7:AG:150:ALA:N	2.70	0.44
40:DF:34:TRP:O	40:DF:35:GLU:C	2.55	0.44
11:CK:64:ALA:O	11:CK:66:LEU:N	2.51	0.44
35:DA:926:A:C4	35:DA:927:G:C8	3.06	0.44
2:CB:115:LEU:CB	2:CB:145:LEU:HD11	2.46	0.44
18:AR:53:ARG:HH12	18:AR:59:SER:CA	2.26	0.44
8:CH:35:ILE:N	8:CH:35:ILE:HD13	2.31	0.44
12:AL:54:LYS:HD2	12:AL:54:LYS:H	1.79	0.44
35:BA:1174:A:OP1	35:BA:1175:U:H5''	2.17	0.44
53:BW:88:ARG:HB2	53:BW:93:ALA:HA	1.99	0.44
40:DF:178:PRO:HG2	40:DF:179:GLU:HG3	1.98	0.44
39:DE:101:ARG:HH11	39:DE:169:ASN:HD22	1.66	0.44
38:DD:218:ARG:HG3	38:DD:218:ARG:NH1	2.33	0.44
1:CA:445:G:N1	1:CA:490:G:C6	2.85	0.44
35:DA:121:G:H4'	35:DA:149:A:H5'	1.99	0.44
35:DA:149:A:H2'	35:DA:150:C:H6	1.83	0.44
12:AL:41:ARG:HG2	12:AL:42:THR:H	1.83	0.44
5:AE:103:GLY:C	5:AE:106:PRO:HD2	2.37	0.44
35:BA:1042:G:H3'	35:BA:1043:C:O4'	2.18	0.44
1:CA:101:A:H2'	1:CA:102:G:C8	2.49	0.44
20:CT:26:ASN:CB	20:CT:71:THR:HG23	2.42	0.44
19:AS:33:THR:HG22	19:AS:49:ILE:HG22	2.00	0.44
1:AA:116:A:H2'	1:AA:117:G:O4'	2.17	0.44
1:AA:835:U:O2'	1:AA:836:G:H5'	2.18	0.44
5:CE:110:LEU:HB3	5:CE:115:VAL:HG21	1.99	0.44
5:CE:72:GLN:OE1	5:CE:77:PRO:HA	2.18	0.44
13:CM:23:TYR:HB3	13:CM:67:GLU:HA	2.00	0.44
13:CM:73:GLU:HG2	13:CM:77:ASN:HD21	1.83	0.44
13:AM:33:ALA:HA	13:AM:59:TYR:CE2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1231:G:H2'	35:BA:1232:G:H8	1.81	0.44
35:DA:348:G:H2'	35:DA:349:G:H8	1.82	0.44
35:DA:966:G:H2'	35:DA:967:C:H6	1.83	0.44
13:AM:13:LYS:O	13:AM:45:VAL:HG23	2.17	0.44
35:BA:1298:C:H3'	35:BA:1299:G:C8	2.49	0.44
20:AT:83:ARG:HA	20:AT:86:ARG:HD3	1.98	0.44
1:AA:66:G:N2	1:AA:172:A:C2	2.85	0.44
35:DA:1425:G:H2'	35:DA:1426:G:C8	2.50	0.44
1:CA:1300:G:HO2'	1:CA:1301:U:P	2.41	0.44
35:BA:1448:G:H5'	35:BA:1449:A:OP1	2.16	0.44
35:BA:2763:G:C8	35:BA:2763:G:H5'	2.52	0.44
1:CA:341:C:H2'	1:CA:342:C:H6	1.80	0.44
35:BA:2008:C:H2'	35:BA:2009:G:H8	1.83	0.44
35:BA:481:G:O2'	35:BA:482:A:P	2.74	0.44
35:BA:2075:U:C4	35:BA:2238:G:C6	3.06	0.44
1:AA:688:G:H5'	11:AK:46:GLY:C	2.38	0.44
35:BA:2352:A:C2'	35:BA:2353:G:H5'	2.47	0.44
35:DA:1388:G:O2'	35:DA:1389:G:H5'	2.17	0.44
35:DA:976:C:H2'	35:DA:977:G:C8	2.53	0.44
1:CA:1365:G:H2'	1:CA:1366:C:O4'	2.17	0.44
1:AA:243:A:C2	1:AA:245:C:C2	3.05	0.44
1:CA:1293:G:O2'	1:CA:1294:G:P	2.76	0.44
1:CA:799:G:H2'	1:CA:800:G:H5'	1.99	0.44
4:AD:192:GLU:O	4:AD:194:LEU:N	2.51	0.44
7:CG:27:ILE:HD11	7:CG:43:PHE:CE2	2.51	0.44
1:CA:1030(B):C:H2'	1:CA:1030(C):G:H5'	1.99	0.44
35:DA:2088:G:H2'	35:DA:2089:U:O4'	2.17	0.44
6:CF:37:VAL:HG13	6:CF:65:VAL:HG11	1.99	0.44
19:CS:22:LEU:HD21	19:CS:28:LYS:N	2.33	0.44
35:DA:2881:C:C4	35:DA:2882:A:N7	2.86	0.44
35:BA:884:C:H4'	35:BA:892:G:C8	2.52	0.44
7:AG:11:GLN:HG3	7:AG:12:LEU:N	2.31	0.44
17:CQ:64:PRO:C	17:CQ:65:ILE:HD12	2.37	0.44
42:BH:30:LYS:HZ1	42:BH:81:GLU:HA	1.82	0.44
9:CI:49:PRO:HG3	9:CI:78:LYS:HG2	1.98	0.44
3:AC:92:ALA:C	3:AC:94:LEU:N	2.71	0.44
37:BC:75:LEU:HD23	37:BC:75:LEU:C	2.38	0.44
35:DA:151:C:N4	35:DA:175:G:H1	2.14	0.44
3:CC:95:THR:HG22	3:CC:97:LYS:HB2	1.98	0.44
35:BA:1180:C:C2'	35:BA:1181:C:H5'	2.46	0.44
1:AA:794:A:O2'	1:AA:795:C:H5'	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:935:A:H2'	1:AA:936:C:H6	1.83	0.44
1:CA:524:G:H2'	1:CA:525:C:H6	1.81	0.44
35:DA:1381:G:O2'	35:DA:1382:G:H5'	2.17	0.44
1:AA:373:A:C8	1:AA:482:A:C8	3.05	0.44
1:AA:1011:G:C2'	1:AA:1012:U:H5'	2.47	0.44
35:DA:1051:G:C2	35:DA:1052:C:N4	2.86	0.44
35:DA:1831:G:H2'	35:DA:1832:C:C6	2.52	0.44
53:BW:29:LEU:HD21	53:BW:33:ARG:HH21	1.82	0.44
50:DT:114:LEU:N	50:DT:114:LEU:HD23	2.31	0.44
35:BA:1806:C:H42	35:BA:1812:A:N6	2.15	0.44
35:BA:782:A:H8	35:BA:782:A:P	2.40	0.44
38:BD:81:ALA:N	38:BD:94:LEU:CD1	2.79	0.44
35:DA:1791:A:OP2	35:DA:1791:A:H8	2.00	0.44
41:DG:102:PHE:CZ	41:DG:141:PHE:HE1	2.35	0.44
34:B8:29:LYS:NZ	34:B8:44:LYS:HB2	2.32	0.44
35:BA:1675:C:H2'	35:BA:1676:A:O4'	2.17	0.44
35:BA:2851:A:H2'	35:BA:2852:G:C8	2.52	0.44
50:BT:119:LYS:O	50:BT:123:GLN:HG2	2.17	0.44
36:BB:103:G:O2'	36:BB:104:U:H5'	2.16	0.44
47:BQ:134:ARG:CG	47:BQ:135:ASP:N	2.79	0.44
51:BU:58:ARG:HB3	57:BU:201:MG:MG	1.42	0.44
52:BV:61:VAL:O	52:BV:62:LEU:HD23	2.18	0.44
42:DH:102:ALA:HB2	42:DH:116:GLU:HA	1.98	0.44
1:AA:971:G:H5''	1:AA:972:C:H5''	1.99	0.44
54:BX:31:HIS:O	54:BX:32:PRO:C	2.54	0.44
54:BX:55:ASN:O	54:BX:77:LYS:HB3	2.18	0.44
54:BX:8:ILE:H	54:BX:8:ILE:CD1	2.22	0.44
35:DA:2808:U:H5'	35:DA:2891:G:O6	2.18	0.44
39:DE:49:LEU:HD23	39:DE:81:ILE:CG1	2.48	0.44
27:B1:43:TYR:HD2	27:B1:45:ASN:HD21	1.63	0.44
41:BG:138:GLN:NE2	41:BG:152:LEU:HA	2.32	0.44
41:BG:77:ILE:C	41:BG:79:ASN:H	2.21	0.44
55:DY:7:VAL:HB	55:DY:8:LYS:NZ	2.32	0.44
35:DA:142(A):C:C4	35:DA:143:G:N7	2.86	0.44
35:DA:60:G:C2	35:DA:74:A:C4	3.05	0.44
35:BA:483:A:H2'	35:BA:484:C:O4'	2.17	0.44
56:DZ:150:LEU:HD23	56:DZ:171:ILE:HG13	2.00	0.44
56:DZ:47:VAL:O	56:DZ:48:PHE:C	2.56	0.44
44:DN:39:ARG:HA	44:DN:40:PRO:HD2	1.86	0.44
51:DU:110:VAL:O	51:DU:113:ALA:HB3	2.17	0.44
52:DV:19:LYS:NZ	52:DV:20:LEU:N	2.60	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1188:A:H2'	1:CA:1189:C:O4'	2.18	0.44
36:BB:115:G:O4'	49:BS:47:THR:HB	2.17	0.44
4:CD:21:LEU:HD22	4:CD:115:ARG:HG3	1.98	0.44
4:CD:64:LEU:HG	4:CD:65:ARG:N	2.31	0.44
1:CA:1057:G:H2'	1:CA:1058:G:C5'	2.47	0.44
40:BF:32:LEU:HD23	40:BF:33:LEU:N	2.31	0.44
25:AY:34:ASN:HD21	25:AY:36:ALA:HB3	1.82	0.44
44:DN:96:GLU:HG2	44:DN:97:ARG:N	2.32	0.44
34:B8:59:LYS:HB2	34:B8:59:LYS:NZ	2.27	0.44
52:BV:70:ILE:CG2	52:BV:90:PRO:HB2	2.48	0.44
40:DF:123:LEU:HD13	40:DF:192:LEU:HD22	1.99	0.44
40:DF:25:PRO:HG3	40:DF:119:ARG:CA	2.47	0.44
40:DF:5:ALA:C	40:DF:6:VAL:HG22	2.38	0.44
47:BQ:71:ASP:N	47:BQ:94:VAL:O	2.40	0.44
39:DE:163:GLU:O	39:DE:165:VAL:N	2.51	0.44
48:DR:19:ALA:O	48:DR:20:LEU:C	2.53	0.44
48:DR:28:LEU:HA	48:DR:34:ILE:CD1	2.47	0.44
48:DR:2:ARG:NE	48:DR:5:LYS:CE	2.81	0.44
35:BA:2820:A:O2'	35:BA:2821:A:OP1	2.33	0.44
35:BA:1278:A:O2'	35:BA:1279:G:H5'	2.17	0.44
2:CB:12:GLU:O	2:CB:14:GLY:N	2.51	0.44
44:DN:51:PHE:CZ	44:DN:119:ARG:HD2	2.53	0.44
44:DN:23:LEU:O	44:DN:25:ARG:N	2.48	0.44
2:CB:195:ASP:C	2:CB:197:VAL:H	2.19	0.44
35:DA:814:C:OP1	52:DV:84:LYS:HA	2.16	0.44
40:DF:70:THR:O	40:DF:72:ARG:N	2.49	0.44
35:DA:1239:G:H2'	35:DA:1240:U:O4'	2.17	0.44
4:AD:100:ARG:NH2	4:AD:137:SER:HA	2.31	0.44
3:AC:14:ILE:HG12	3:AC:15:THR:N	2.32	0.44
6:AF:69:GLU:CD	6:AF:69:GLU:N	2.71	0.44
1:CA:570:G:O6	1:CA:873:A:C2	2.70	0.44
16:AP:55:ARG:O	16:AP:56:ALA:C	2.55	0.44
19:CS:63:THR:HG22	19:CS:66:MET:HE2	1.99	0.44
1:CA:183:G:O6	1:CA:194:C:N4	2.51	0.44
25:AY:18:LEU:HD22	25:AY:171:LYS:HB3	2.00	0.44
25:AY:154:THR:O	25:AY:157:ALA:N	2.51	0.44
35:DA:2262:U:H4'	35:DA:2328:A:H2	1.79	0.44
42:DH:38:SER:C	42:DH:40:GLU:N	2.71	0.44
35:BA:925:C:C2'	35:BA:926:A:C5'	2.84	0.44
8:AH:97:VAL:CG1	8:AH:98:LYS:H	2.18	0.44
25:CY:41:LEU:H	25:CY:41:LEU:CD1	2.23	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:11:LYS:C	9:CI:13:ALA:N	2.70	0.44
8:AH:35:ILE:HG22	8:AH:111:ILE:HD13	1.99	0.44
1:AA:1372:U:OP1	9:AI:71:SER:HB3	2.16	0.44
8:CH:14:ARG:HB3	8:CH:14:ARG:NH1	2.32	0.44
8:CH:1:MET:HE2	8:CH:2:LEU:H	1.82	0.44
8:CH:45:ILE:HD13	8:CH:62:TYR:O	2.17	0.44
1:AA:1348:U:H2'	1:AA:1349:A:H8	1.83	0.44
12:CL:45:PRO:HA	12:CL:93:LEU:CD2	2.47	0.44
1:CA:1150:U:O3'	10:CJ:41:PRO:HA	2.17	0.44
33:D7:5:TRP:C	33:D7:6:GLN:NE2	2.70	0.44
35:DA:1309:G:C2'	35:DA:1310:G:H5'	2.48	0.44
38:BD:77:ALA:HB1	38:BD:97:TYR:HA	1.99	0.44
40:BF:160:ASN:OD1	40:BF:163:VAL:HG23	2.18	0.44
1:CA:935:A:H2'	1:CA:936:C:H6	1.81	0.44
39:DE:201:THR:HG22	39:DE:202:LYS:N	2.32	0.44
39:BE:201:THR:HG22	39:BE:203:LYS:HB3	1.99	0.44
29:D3:9:VAL:HG23	29:D3:10:LYS:N	2.33	0.44
41:BG:53:LEU:N	41:BG:53:LEU:CD2	2.81	0.44
35:BA:1418:G:H1	35:BA:1579:A:C5'	2.26	0.44
40:DF:148:LEU:HD13	40:DF:154:VAL:HG21	1.99	0.44
40:DF:164:ARG:O	40:DF:166:ALA:N	2.50	0.44
32:B6:13:CYS:O	32:B6:21:TYR:HA	2.17	0.44
5:AE:82:VAL:HG11	5:AE:134:ALA:O	2.18	0.44
1:CA:63:C:H42	1:CA:104:G:H1	1.64	0.44
7:CG:54:THR:OG1	7:CG:56:GLN:HG2	2.18	0.44
27:D1:18:ILE:HG23	27:D1:42:GLN:O	2.16	0.44
35:BA:852:G:C2'	35:BA:853:G:H5'	2.47	0.44
25:CY:108:GLU:CG	25:CY:111:ARG:NH2	2.80	0.44
1:CA:64:G:H4'	1:CA:66:G:OP1	2.18	0.44
46:DP:57:THR:HG22	46:DP:57:THR:O	2.16	0.44
19:CS:41:VAL:CG1	19:CS:44:MET:HB2	2.47	0.44
1:AA:1118:C:OP1	9:AI:104:ARG:HD3	2.18	0.44
1:AA:658:G:H1'	15:AO:22:THR:CB	2.41	0.44
38:DD:164:GLN:C	38:DD:165:ILE:HD12	2.38	0.44
52:BV:43:GLU:HA	52:BV:47:VAL:N	2.33	0.44
10:AJ:23:ILE:HG23	10:AJ:85:LEU:HD13	1.99	0.44
35:BA:2351:G:HO2'	35:BA:2352:A:H8	1.63	0.44
3:CC:76:VAL:CG2	3:CC:77:ILE:N	2.81	0.44
1:CA:1242:C:P	21:CU:10:ARG:HH12	2.40	0.44
36:DB:24:G:H4'	36:DB:25:A:N7	2.33	0.44
35:BA:1853:A:N6	35:BA:1889:A:C8	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:704:G:N2	35:DA:726:G:C4	2.85	0.44
1:CA:629:G:H2'	1:CA:630:G:O4'	2.17	0.44
1:AA:1030(B):C:H2'	1:AA:1030(C):G:H5'	1.98	0.44
35:DA:306:U:H2'	35:DA:306:U:O2	2.18	0.44
56:BZ:133:ILE:O	56:BZ:133:ILE:HG22	2.18	0.44
35:BA:2555:U:H2'	35:BA:2556:C:C5'	2.48	0.44
35:BA:644:A:C2'	35:BA:645:C:H5''	2.47	0.44
43:BI:41:GLU:O	43:BI:44:LEU:HB3	2.17	0.44
13:CM:40:ASN:HA	13:CM:41:PRO:HD3	1.80	0.44
35:DA:68:G:H2'	35:DA:68:G:N3	2.32	0.44
35:BA:1396:U:O2	35:BA:1396:U:C2'	2.65	0.44
1:AA:622:A:C8	1:AA:623:C:C6	3.05	0.44
35:DA:1358:G:N7	35:DA:1371:G:C6	2.86	0.44
40:BF:17:ARG:HG3	40:BF:17:ARG:NH1	2.32	0.44
35:DA:2123:G:H21	37:DC:42:GLU:CD	2.20	0.44
31:B5:19:ARG:HG3	35:BA:2046:G:H5'	2.00	0.44
1:AA:1135:U:H2'	1:AA:1137:C:O2	2.18	0.44
35:DA:1284:A:H2'	35:DA:1285:G:O4'	2.17	0.44
35:BA:954:G:N3	35:BA:954:G:H2'	2.33	0.44
26:B0:84:LEU:HD12	26:B0:84:LEU:C	2.38	0.44
39:BE:107:THR:O	39:BE:190:GLY:HA2	2.17	0.44
50:DT:78:LEU:HD23	50:DT:79:HIS:ND1	2.33	0.44
1:CA:1223:C:OP2	1:CA:1224:G:H8	2.00	0.44
35:DA:1825:A:H2'	35:DA:1826:G:C8	2.52	0.44
41:DG:56:ALA:O	41:DG:60:LEU:HB2	2.18	0.44
34:B8:36:LYS:HE2	34:B8:36:LYS:HB2	1.80	0.44
35:BA:1989:G:H2'	35:BA:1990:C:H5'	1.99	0.44
45:BO:87:ILE:HD13	45:BO:87:ILE:HA	1.87	0.44
45:BO:93:PRO:C	45:BO:95:GLY:N	2.69	0.44
56:BZ:128:VAL:HG21	56:BZ:132:ASN:O	2.18	0.44
56:BZ:76:LEU:HD23	56:BZ:76:LEU:N	2.33	0.44
35:BA:2808:U:H5'	35:BA:2891:G:O6	2.17	0.44
39:BE:47:VAL:CG1	39:BE:49:LEU:HD21	2.47	0.44
39:BE:52:LEU:HD23	39:BE:75:VAL:HG22	1.96	0.44
42:DH:92:ILE:O	42:DH:94:TYR:N	2.49	0.44
35:DA:2811:G:H5''	35:DA:2811:G:H8	1.82	0.44
2:AB:12:GLU:O	2:AB:14:GLY:N	2.51	0.44
41:BG:173:LEU:O	41:BG:174:GLU:C	2.56	0.44
34:D8:32:LEU:HD11	34:D8:41:ILE:HG22	1.98	0.44
42:BH:130:ARG:CB	42:BH:130:ARG:HH11	2.30	0.44
56:DZ:53:ILE:CG2	56:DZ:71:VAL:HB	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DN:110:GLY:O	44:DN:111:PRO:C	2.55	0.44
44:DN:38:HIS:CG	44:DN:39:ARG:N	2.86	0.44
44:DN:46:VAL:CG2	44:DN:48:MET:HG3	2.48	0.44
51:DU:63:VAL:O	51:DU:64:ARG:C	2.55	0.44
4:CD:98:GLU:C	4:CD:100:ARG:N	2.71	0.44
1:CA:1203:C:H2'	1:CA:1204:A:O4'	2.18	0.44
40:BF:102:PRO:O	40:BF:103:LYS:C	2.55	0.44
40:BF:25:PRO:HG3	40:BF:119:ARG:CA	2.48	0.44
35:BA:1254:A:H5'	35:BA:1255:U:H5'	1.99	0.44
35:BA:572:A:H5'	35:BA:573:G:OP2	2.18	0.44
40:BF:90:PHE:O	40:BF:91:GLY:C	2.56	0.44
46:BP:48:PRO:HG2	46:BP:49:ARG:H	1.83	0.44
46:BP:48:PRO:O	46:BP:50:ARG:N	2.51	0.44
40:DF:192:LEU:C	40:DF:192:LEU:HD23	2.37	0.44
48:DR:73:VAL:HG23	48:DR:74:LYS:HD3	1.98	0.44
1:AA:103:C:OP2	20:AT:14:LYS:HD2	2.17	0.44
1:AA:59:A:C2	1:AA:331:G:C2	3.06	0.44
48:BR:73:VAL:HG23	48:BR:74:LYS:H	1.82	0.44
36:DB:51:G:H2'	36:DB:52:A:C1'	2.48	0.44
2:CB:211:ILE:O	2:CB:212:GLN:C	2.56	0.44
35:BA:2467:C:H4'	47:BQ:123:HIS:CE1	2.52	0.44
44:BN:26:LEU:HG	44:BN:27:ALA:N	2.31	0.44
15:CO:62:GLN:O	15:CO:63:ARG:C	2.55	0.44
15:CO:60:VAL:O	15:CO:63:ARG:N	2.49	0.44
35:DA:942:G:C6	35:DA:943:U:N3	2.85	0.44
46:DP:47:ASP:HB2	46:DP:51:PHE:HD2	1.83	0.44
52:DV:72:VAL:O	52:DV:73:SER:HB3	2.17	0.44
52:DV:90:PRO:CD	52:DV:91:TYR:H	2.31	0.44
19:AS:72:GLY:O	19:AS:74:PHE:N	2.51	0.44
35:DA:908:C:O2'	35:DA:909:A:H5'	2.17	0.44
6:AF:97:PHE:N	18:AR:30:ASP:OD1	2.49	0.44
1:CA:1502:A:C2	1:CA:1505:G:N2	2.83	0.44
35:DA:2034:U:C2'	35:DA:2035:G:H5'	2.47	0.44
16:AP:55:ARG:O	16:AP:58:TYR:N	2.50	0.44
35:DA:27:G:C2'	35:DA:28:A:OP2	2.66	0.44
35:DA:18:C:C2	35:DA:19:C:C5	3.06	0.44
21:AU:24:ARG:HD2	21:AU:24:ARG:N	2.32	0.44
1:CA:757:U:O2'	1:CA:879:C:H1'	2.17	0.44
33:B7:31:LEU:HD23	33:B7:42:LEU:HD22	1.98	0.44
35:BA:1431:U:C2'	35:BA:1432:C:H5'	2.48	0.44
35:DA:2282:G:O2'	35:DA:2283:C:OP2	2.24	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:37:CYS:O	12:AL:79:GLU:O	2.35	0.44
7:AG:78:ARG:HG3	7:AG:79:ARG:N	2.32	0.44
1:AA:1228:C:OP1	13:AM:115:LYS:HG3	2.18	0.44
40:DF:103:LYS:HA	40:DF:106:ARG:HE	1.83	0.44
1:AA:601:C:H42	1:AA:637:G:H1	1.65	0.44
5:AE:12:LEU:HD22	5:AE:12:LEU:C	2.38	0.44
12:AL:117:ARG:NH2	12:AL:124:LYS:HA	2.32	0.44
35:DA:2475:C:N4	35:DA:2529:G:H22	1.97	0.44
1:AA:1129:C:H4'	1:AA:1130:A:H5'	1.98	0.44
9:AI:83:ARG:O	9:AI:86:VAL:CG1	2.64	0.44
8:CH:26:VAL:CG2	8:CH:32:LYS:HZ3	2.27	0.44
35:BA:2752:C:C5	35:BA:2753:A:N7	2.86	0.44
9:CI:28:VAL:CG1	9:CI:29:ASN:H	2.31	0.44
9:CI:27:THR:HG23	9:CI:31:GLN:O	2.17	0.44
1:CA:1168:A:H2'	1:CA:1169:A:H8	1.83	0.44
35:DA:627:A:OP1	35:DA:627:A:H8	2.00	0.44
46:DP:82:GLY:HA2	46:DP:113:LYS:O	2.17	0.44
46:BP:96:THR:HB	46:BP:97:PRO:HD2	2.00	0.44
16:CP:39:TYR:CD1	16:CP:39:TYR:C	2.90	0.44
19:CS:52:TYR:CG	19:CS:53:ASN:N	2.86	0.44
31:B5:16:ARG:CG	31:B5:16:ARG:NH1	2.77	0.44
35:BA:1615:C:C5	35:BA:1617:C:C6	3.05	0.44
53:BW:13:SER:HA	53:BW:14:PRO:HD3	1.79	0.44
8:AH:88:LYS:O	8:AH:92:ARG:HD2	2.17	0.44
38:DD:53:PHE:HB3	38:DD:218:ARG:HB2	1.99	0.44
35:DA:1042:G:H3'	35:DA:1043:C:O4'	2.18	0.44
13:AM:22:ILE:N	13:AM:22:ILE:HD12	2.32	0.44
5:AE:103:GLY:O	5:AE:106:PRO:CD	2.65	0.44
5:AE:90:VAL:HG21	5:AE:121:LYS:HB3	1.97	0.44
1:CA:1464:G:C2	1:CA:1465:C:C5	3.06	0.44
7:CG:47:CYS:HB3	7:CG:58:PRO:CG	2.48	0.44
35:DA:1983:C:H4'	35:DA:2606:C:H4'	1.99	0.44
32:B6:32:ASN:HD22	32:B6:33:LYS:HE3	1.82	0.44
35:BA:1707:G:C4	35:BA:1708:C:C5	3.05	0.44
1:CA:767:A:H2'	1:CA:768:A:C8	2.51	0.44
26:B0:29:GLN:HB2	26:B0:67:VAL:HG23	1.99	0.44
39:BE:38:THR:C	39:BE:40:GLU:N	2.70	0.44
35:BA:1334:G:O2'	35:BA:1335:U:H5'	2.17	0.44
35:BA:968:G:C2	35:BA:969:U:C2	3.05	0.44
35:DA:1684:C:O2'	35:DA:1685:C:H5'	2.18	0.44
9:AI:8:GLY:O	9:AI:14:VAL:HG13	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:66:LEU:N	15:AO:66:LEU:HD12	2.32	0.44
1:CA:761:G:H2'	1:CA:762:C:C6	2.53	0.44
1:AA:1095:U:H5'	1:AA:1109:C:O2	2.17	0.44
36:DB:78:A:H2'	36:DB:79:C:O4'	2.17	0.44
35:BA:2463:C:O2'	35:BA:2464:C:H5'	2.17	0.44
35:BA:1450:G:H2'	35:BA:1450(A):C:H6	1.83	0.44
1:CA:1097:C:H2'	1:CA:1098:C:H6	1.81	0.44
6:AF:83:ASP:C	6:AF:85:VAL:N	2.70	0.44
1:AA:137:C:N4	1:AA:226:G:H1	2.09	0.44
1:CA:149:A:C2	1:CA:150:C:C4	3.06	0.44
1:CA:1315:U:O2'	1:CA:1316:G:H5'	2.17	0.44
35:BA:2073:C:O2'	35:BA:2074:U:H5'	2.17	0.44
35:BA:976:C:H2'	35:BA:977:G:H8	1.83	0.44
12:CL:76:ASN:HD21	12:CL:108:ALA:HB2	1.83	0.44
13:CM:16:ASP:OD2	13:CM:16:ASP:N	2.51	0.44
1:CA:783:C:C6	1:CA:784:C:H5	2.36	0.44
35:DA:601:C:H2'	35:DA:602:G:O4'	2.17	0.44
17:CQ:9:VAL:O	17:CQ:21:VAL:HG13	2.18	0.44
25:AY:112:LYS:HG3	25:AY:116:ARG:HD2	1.99	0.44
36:DB:16:G:H2'	36:DB:17:C:H6	1.83	0.44
38:BD:125:ILE:H	38:BD:125:ILE:HD12	1.77	0.44
1:CA:50:A:N3	1:CA:52:G:H1'	2.33	0.44
1:CA:52:G:C6	1:CA:360:A:C2	3.05	0.44
35:BA:1350:C:C2'	35:BA:1351:C:H5'	2.47	0.44
35:DA:632:A:C2	35:DA:2403:C:H1'	2.52	0.44
35:BA:1467:C:H42	35:BA:1525:G:H1	1.64	0.44
37:DC:82:LYS:O	37:DC:83:ILE:HD13	2.17	0.44
1:AA:1415:G:C2	1:AA:1416:G:C8	3.06	0.44
35:DA:1217:C:OP2	51:DU:15:LYS:NZ	2.27	0.44
1:AA:127:G:OP1	1:AA:635:G:H1'	2.18	0.44
35:DA:948:G:H2'	35:DA:949:C:C6	2.53	0.44
1:CA:573:A:C2	1:CA:574:A:C2	3.05	0.44
1:AA:611:A:C2'	1:AA:612:C:H5'	2.47	0.44
25:CY:61:PRO:HD2	25:CY:65:THR:O	2.17	0.44
1:AA:509:A:C2	1:AA:510:A:C2	3.05	0.44
35:DA:1267:U:C2'	35:DA:1267:U:O2	2.64	0.44
12:CL:104:VAL:HG12	12:CL:105:TYR:N	2.32	0.44
35:DA:1955:U:O2'	35:DA:1956:U:H5'	2.17	0.44
23:CW:52:C:H2'	23:CW:53:G:O4'	2.17	0.44
53:DW:43:GLY:O	53:DW:44:ALA:C	2.56	0.44
5:CE:136:MET:O	5:CE:137:GLU:C	2.56	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:727:A:H3'	35:BA:728:G:C8	2.52	0.44
35:DA:715:G:H2'	35:DA:716:A:C8	2.53	0.44
2:CB:152:PHE:CD1	2:CB:152:PHE:C	2.91	0.44
30:D4:13:ARG:O	30:D4:15:ILE:N	2.43	0.44
1:CA:346:G:H2'	1:CA:346:G:N3	2.32	0.44
50:DT:61:PHE:CE1	50:DT:76:PHE:HD1	2.36	0.44
50:DT:51:ARG:HB3	50:DT:62:THR:OG1	2.18	0.44
50:DT:29:ARG:HG3	50:DT:84:GLN:O	2.17	0.44
19:CS:78:ARG:CD	19:CS:78:ARG:H	2.31	0.44
35:BA:1784:A:H4'	35:BA:1785:A:O5'	2.18	0.44
38:BD:92:ILE:CA	38:BD:107:ALA:HB2	2.48	0.44
5:CE:20:GLN:O	5:CE:21:ALA:C	2.56	0.44
38:DD:233:HIS:O	38:DD:234:GLY:C	2.56	0.44
38:DD:39:LYS:HB2	38:DD:62:TYR:CB	2.48	0.44
16:CP:9:PHE:HE2	16:CP:18:ARG:NE	2.15	0.44
41:DG:117:PHE:CZ	41:DG:179:PRO:HG3	2.53	0.44
35:DA:2312:U:OP1	41:DG:73:ALA:HA	2.18	0.44
1:AA:1441:G:H4'	1:AA:1442:G:C4	2.53	0.44
35:BA:1992:G:C2	35:BA:1997:G:C6	3.06	0.44
35:BA:2679:A:H2'	35:BA:2680:C:H6	1.82	0.44
50:BT:30:VAL:CG1	50:BT:44:ASP:HA	2.38	0.44
56:BZ:10:ARG:HG2	56:BZ:11:GLU:N	2.28	0.44
56:BZ:120:ILE:O	56:BZ:121:HIS:HB2	2.18	0.44
56:BZ:3:TYR:N	56:BZ:57:ILE:HG13	2.33	0.44
56:BZ:24:LEU:HB2	56:BZ:41:LEU:HD23	1.99	0.44
56:BZ:69:THR:HG22	56:BZ:90:VAL:HG22	2.00	0.44
35:DA:2052:G:P	39:DE:141:ILE:HD11	2.58	0.44
44:BN:41:ASP:O	44:BN:42:TRP:C	2.55	0.44
54:BX:29:TRP:HE3	54:BX:76:ARG:HB3	1.82	0.44
39:DE:105:THR:HG22	39:DE:106:GLY:N	2.33	0.44
35:DA:1882:C:H5'	35:DA:1883:G:OP2	2.17	0.44
55:DY:81:LYS:HD3	55:DY:97:ARG:N	2.32	0.44
54:DX:55:ASN:O	54:DX:77:LYS:CB	2.65	0.44
54:DX:60:ARG:CB	54:DX:72:LYS:H	2.31	0.44
54:DX:75:ASP:C	54:DX:76:ARG:HG3	2.38	0.44
35:DA:2420:C:O2'	35:DA:2421:G:H5'	2.18	0.44
42:BH:160:LYS:O	42:BH:163:TYR:CE1	2.70	0.44
35:DA:2039:C:H2'	35:DA:2040:C:C6	2.52	0.44
35:DA:2778:A:H4'	35:DA:2779:U:OP1	2.17	0.44
52:DV:93:GLU:HG2	52:DV:94:LEU:H	1.82	0.44
47:DQ:54:MET:HG3	47:DQ:64:ILE:HD13	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:CS:12:ASP:HB3	19:CS:15:LEU:CD2	2.45	0.44
19:CS:36:ARG:HB3	19:CS:36:ARG:HH11	1.82	0.44
35:BA:1862:G:C2	35:BA:1863:G:C8	3.06	0.44
36:BB:52:A:O2'	36:BB:53:A:C8	2.67	0.44
49:BS:54:LEU:O	49:BS:56:LEU:N	2.48	0.44
49:BS:72:ALA:C	49:BS:76:LYS:HG2	2.38	0.44
4:CD:64:LEU:O	4:CD:65:ARG:C	2.55	0.44
4:CD:68:TYR:CE2	4:CD:97:LEU:HD22	2.52	0.44
36:DB:74:U:C5	36:DB:75:G:N7	2.85	0.44
44:BN:72:TYR:HB2	44:BN:85:ILE:HB	1.99	0.44
40:BF:117:ARG:NH2	40:BF:187:VAL:HA	2.32	0.44
40:BF:186:ILE:HG23	40:BF:192:LEU:HD12	1.98	0.44
46:DP:71:VAL:CB	46:DP:72:PRO:HD3	2.43	0.44
35:BA:2569:G:C2	35:BA:2570:G:C8	3.05	0.44
35:BA:2579:C:H4'	39:BE:134:ILE:CD1	2.47	0.44
34:D8:25:MET:HB2	46:DP:62:LEU:CD1	2.48	0.44
35:DA:1142(A):A:C5	35:DA:1144:G:N7	2.85	0.44
55:BY:88:LYS:O	55:BY:90:LEU:HD23	2.18	0.44
35:BA:870:A:N1	35:BA:871:U:C2	2.86	0.44
2:CB:236:TYR:HA	2:CB:239:VAL:HG21	1.97	0.44
2:CB:83:MET:HB2	2:CB:84:GLU:H	1.52	0.44
44:DN:56:ASN:HA	44:DN:124:ALA:CA	2.37	0.44
44:BN:55:VAL:CG1	44:BN:126:PRO:HA	2.48	0.44
1:CA:738:C:C2	1:CA:739:C:C5	3.06	0.44
35:DA:812:C:O2	35:DA:1250:G:N1	2.51	0.44
40:DF:53:THR:C	40:DF:55:GLY:N	2.70	0.44
52:DV:88:ARG:HG3	52:DV:88:ARG:HH11	1.83	0.44
55:DY:15:VAL:HG12	55:DY:17:SER:H	1.82	0.44
4:AD:33:MET:C	4:AD:35:ARG:H	2.20	0.44
43:DI:94:ALA:HA	43:DI:97:ILE:HG13	2.00	0.44
47:DQ:16:ARG:CG	47:DQ:17:LEU:H	2.22	0.44
47:BQ:52:VAL:CG1	47:BQ:53:ALA:N	2.67	0.44
1:CA:1530:G:C4	1:CA:1531:A:C8	3.06	0.44
51:DU:8:VAL:O	51:DU:9:VAL:C	2.56	0.44
25:CY:34:ASN:ND2	25:CY:36:ALA:HB3	2.33	0.44
21:CU:12:LYS:O	21:CU:22:ARG:NH1	2.51	0.44
1:CA:1307:U:C4'	13:CM:109:THR:HG21	2.48	0.44
1:AA:1312:G:N2	1:AA:1326:C:C2	2.86	0.44
25:AY:144:ALA:O	25:AY:147:LEU:O	2.35	0.44
1:AA:686:U:H1'	1:AA:687:A:C8	2.52	0.44
11:AK:21:ILE:HG23	11:AK:30:VAL:HG12	2.00	0.44

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BB:24:G:H4'	36:BB:25:A:H8	1.81	0.44
37:DC:21:THR:O	37:DC:22:ILE:C	2.55	0.44
35:BA:601:C:H2'	35:BA:602:G:O4'	2.18	0.44
19:CS:22:LEU:HD22	19:CS:27:GLU:HB2	2.00	0.44
53:BW:65:LEU:O	53:BW:69:LEU:HG	2.17	0.44
35:BA:839:U:H2'	35:BA:840:C:C6	2.53	0.44
35:BA:2068:U:N3	35:BA:2430:A:C2	2.80	0.44
35:BA:1912:A:H5'	35:BA:1918:A:N1	2.33	0.44
1:CA:132:C:N4	1:CA:231:G:N1	2.65	0.44
1:AA:814:A:C8	1:AA:816:A:C8	3.06	0.44
53:BW:80:PRO:O	53:BW:100:THR:HG22	2.17	0.44
1:AA:189(B):C:H2'	1:AA:189(C):C:H6	1.82	0.44
39:DE:16:ARG:O	39:DE:18:ASP:N	2.51	0.44
17:CQ:100:LYS:HA	17:CQ:100:LYS:HD3	1.80	0.44
35:BA:1832:C:H2'	35:BA:1833:U:O4'	2.16	0.44
7:CG:115:ARG:HB2	7:CG:118:VAL:CG2	2.48	0.44
1:CA:39:G:O2'	1:CA:40:C:H5'	2.17	0.44
35:DA:2793:G:C2	35:DA:2794:C:N3	2.85	0.44
1:AA:1111:A:N1	3:AC:177:THR:OG1	2.45	0.44
38:DD:147:LEU:HB3	38:DD:148:GLU:H	1.59	0.44
13:AM:4:ILE:HG22	13:AM:5:ALA:H	1.82	0.44
35:BA:1051:G:C2'	35:BA:1052:C:H5''	2.47	0.44
2:AB:152:PHE:CD1	2:AB:152:PHE:C	2.90	0.44
16:CP:29:ASP:OD2	16:CP:29:ASP:N	2.49	0.44
35:DA:139(A):G:N2	54:DX:44:GLU:OE1	2.50	0.44
1:AA:889:A:H5'	1:AA:891:U:O4'	2.17	0.44
35:DA:483:A:H2'	35:DA:484:C:O4'	2.17	0.44
1:CA:1229:A:H2'	1:CA:1230:C:C6	2.52	0.44
35:BA:1813:G:N3	38:BD:50:THR:HB	2.33	0.44
38:BD:61:LEU:HD12	38:BD:62:TYR:H	1.83	0.44
35:DA:1778:U:H2'	35:DA:1779:U:H6	1.82	0.44
35:DA:1783:A:C2	35:DA:2587:A:C5	3.06	0.44
35:DA:729:G:N3	35:DA:729:G:H3'	2.32	0.44
38:DD:92:ILE:HD12	38:DD:92:ILE:C	2.37	0.44
34:B8:32:LEU:HD11	34:B8:41:ILE:HG22	1.99	0.44
35:BA:2727:G:C4	35:BA:2728:U:C5	3.06	0.44
47:BQ:137:TYR:HE2	56:BZ:76:LEU:HD22	1.83	0.44
56:BZ:157:LEU:HA	56:BZ:158:PRO:HD2	1.68	0.44
35:DA:2512:C:H4'	39:DE:122:PHE:CE2	2.53	0.44
52:BV:4:ILE:CD1	52:BV:40:LEU:HD11	2.48	0.44
52:BV:36:PRO:HG2	52:BV:60:GLU:CD	2.38	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1232:U:H2'	1:AA:1233:G:O4'	2.17	0.44
1:AA:961:U:O2'	1:AA:962:C:H5'	2.18	0.44
1:AA:973:G:O3'	14:AN:41:ARG:NH2	2.51	0.44
28:B2:44:LEU:HD12	28:B2:44:LEU:HA	1.76	0.44
54:BX:35:THR:O	54:BX:36:LYS:C	2.56	0.44
39:DE:4:ILE:CD1	39:DE:28:ALA:HB1	2.48	0.44
2:AB:213:LEU:HD22	2:AB:214:ILE:HG12	2.00	0.44
41:BG:101:ILE:HG23	41:BG:102:PHE:H	1.83	0.44
41:BG:120:LEU:HD22	41:BG:133:LEU:CD2	2.48	0.44
28:D2:13:ALA:C	28:D2:14:ARG:NE	2.71	0.44
35:DA:1341:U:H5'	54:DX:57:LEU:HD21	1.99	0.44
54:DX:33:LYS:O	54:DX:34:ALA:C	2.54	0.44
54:DX:8:ILE:H	54:DX:8:ILE:CD1	2.25	0.44
35:DA:559:G:H2'	35:DA:560:C:H6	1.82	0.44
44:DN:44:PRO:O	44:DN:46:VAL:N	2.51	0.44
51:DU:57:PHE:O	51:DU:58:ARG:C	2.55	0.44
1:AA:1057:G:H2'	1:AA:1058:G:C5'	2.47	0.44
47:DQ:52:VAL:O	47:DQ:53:ALA:C	2.55	0.44
3:CC:52:LEU:CD2	3:CC:52:LEU:H	2.21	0.44
19:CS:6:LYS:N	19:CS:6:LYS:CD	2.80	0.44
49:BS:28:VAL:H	49:BS:89:ARG:CB	2.29	0.44
4:CD:100:ARG:O	4:CD:101:LEU:C	2.56	0.44
4:CD:33:MET:C	4:CD:35:ARG:H	2.21	0.44
4:CD:56:VAL:C	4:CD:58:LEU:H	2.21	0.44
40:BF:34:TRP:HA	40:BF:37:VAL:CG2	2.48	0.44
35:DA:1024:G:P	35:DA:1025:G:H3'	2.58	0.44
35:BA:666:G:C5	35:BA:667:U:C5	3.06	0.44
46:BP:30:THR:O	46:BP:33:ARG:N	2.46	0.44
40:DF:43:LYS:HG3	40:DF:44:ARG:N	2.33	0.44
35:BA:2819:G:H2'	35:BA:2821:A:N7	2.32	0.44
35:BA:1638:C:OP1	35:BA:2710:C:O2'	2.36	0.44
48:BR:75:LEU:O	48:BR:79:LEU:HB2	2.18	0.44
41:DG:25:TYR:OH	41:DG:168:GLU:HG3	2.18	0.44
2:CB:213:LEU:C	2:CB:213:LEU:CD2	2.86	0.44
2:CB:219:VAL:O	2:CB:222:ILE:HG22	2.17	0.44
44:DN:17:ASP:O	44:DN:19:GLU:HG3	2.18	0.44
44:BN:55:VAL:HG11	44:BN:127:ASP:H	1.83	0.44
15:CO:66:LEU:N	15:CO:66:LEU:HD12	2.32	0.44
6:CF:100:ASN:CB	18:CR:28:GLU:HA	2.46	0.44
2:CB:164:VAL:O	2:CB:165:VAL:O	2.36	0.44
2:CB:203:GLY:O	2:CB:204:ASN:O	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:250:G:H2'	35:DA:251:A:H8	1.83	0.44
55:DY:28:LYS:NZ	55:DY:37:VAL:HG12	2.28	0.44
1:AA:719:C:O2	18:AR:50:ILE:N	2.36	0.44
6:AF:24:GLU:HG3	6:AF:25:ILE:HD13	1.99	0.44
18:AR:66:LEU:O	18:AR:69:THR:OG1	2.30	0.44
18:AR:76:LEU:O	18:AR:78:LEU:HG	2.17	0.44
2:AB:142:LEU:HD23	2:AB:142:LEU:O	2.18	0.44
7:AG:104:LEU:O	7:AG:107:ALA:HB3	2.17	0.44
25:CY:139:LYS:O	25:CY:142:LYS:N	2.51	0.44
35:BA:1204:A:N1	35:BA:1241:A:H2	2.16	0.44
1:CA:954:G:C5	1:CA:955:U:C4	3.06	0.44
1:AA:1323:G:H4'	1:AA:1363:C:O2	2.18	0.44
1:CA:1457:G:O2'	1:CA:1458:G:H5'	2.17	0.44
20:CT:51:GLU:O	20:CT:52:ALA:C	2.56	0.44
25:AY:66:LEU:HB2	25:AY:101:ILE:HD13	1.99	0.44
25:AY:133:ARG:NH1	25:AY:162:GLN:OE1	2.51	0.44
7:CG:102:ARG:HG3	7:CG:106:GLN:NE2	2.33	0.44
7:CG:26:PHE:CZ	7:CG:30:ILE:HD11	2.53	0.44
12:AL:27:LEU:O	12:AL:28:LYS:C	2.56	0.44
11:AK:72:ALA:O	11:AK:77:MET:HB2	2.17	0.44
35:BA:1608:A:H1'	35:BA:1610:A:OP2	2.17	0.44
35:DA:2748:A:C2	35:DA:2757:A:C4	3.05	0.44
35:BA:2646:C:H2'	35:BA:2647:U:C6	2.52	0.44
1:AA:638:G:O2'	1:AA:639:G:H5'	2.18	0.44
8:AH:125:ARG:HG3	8:AH:125:ARG:HH11	1.83	0.44
5:AE:37:ARG:NH1	5:AE:37:ARG:HG2	2.33	0.44
1:AA:1079:G:O3'	5:AE:14:ARG:NH2	2.51	0.44
9:AI:58:ARG:HD3	9:AI:59:PHE:CE1	2.53	0.44
8:CH:86:ILE:HG13	8:CH:133:LEU:HD23	2.00	0.44
31:D5:31:VAL:HG11	35:DA:2886:G:H21	1.83	0.44
35:DA:2121:G:C6	35:DA:2176:A:N6	2.86	0.44
1:AA:1346:A:N6	1:AA:1374:A:H3'	2.31	0.44
1:CA:511:C:C2	1:CA:512:U:C4	3.06	0.44
33:D7:34:ARG:C	33:D7:36:GLN:N	2.71	0.44
35:BA:2299:G:C2	35:BA:2318:G:C8	3.05	0.44
35:DA:542:C:H2'	35:DA:542:C:O2	2.18	0.44
5:CE:150:ARG:HB2	5:CE:150:ARG:CZ	2.48	0.44
35:BA:1175:U:C4'	35:BA:1176:G:H3'	2.45	0.44
46:BP:101:VAL:CB	46:BP:107:LYS:HA	2.48	0.44
35:BA:2121:G:C6	35:BA:2176:A:N6	2.86	0.44
39:DE:137:HIS:CB	39:DE:138:PRO:HD2	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CK:96:ARG:O	11:CK:99:GLN:HG2	2.17	0.44
38:DD:43:ARG:HB2	38:DD:54:ARG:HB2	1.98	0.44
1:CA:269:C:H2'	1:CA:270:A:C8	2.52	0.44
35:DA:374:A:C2'	35:DA:375:C:H5'	2.47	0.44
1:AA:1457:G:C2	1:AA:1458:G:C5	3.05	0.44
26:D0:23:VAL:CG1	26:D0:24:LYS:N	2.80	0.44
35:BA:49:A:OP1	35:BA:50:U:H3'	2.17	0.44
20:CT:22:ARG:O	20:CT:26:ASN:ND2	2.51	0.44
35:DA:1930:G:H22	35:DA:1968:G:C3'	2.31	0.44
35:DA:1930:G:HO2'	35:DA:1931:U:P	2.40	0.44
1:AA:1255:G:H5'	3:AC:26:LYS:NZ	2.32	0.44
35:DA:2795:G:O6	35:DA:2801(A):A:C2	2.71	0.44
35:BA:737:C:H2'	35:BA:738:G:O5'	2.17	0.44
13:AM:10:PRO:HB2	13:AM:18:ALA:HB1	2.00	0.44
35:BA:1298:C:H2'	35:BA:1299:G:H8	1.82	0.44
1:AA:1300:G:HO2'	1:AA:1301:U:P	2.41	0.44
35:DA:1353:A:H4'	38:DD:38:LYS:HZ1	1.83	0.44
1:CA:1298:C:O4'	1:CA:1299:A:C4	2.71	0.44
1:AA:810:C:H2'	1:AA:811:C:O4'	2.17	0.44
1:AA:226:G:O2'	1:AA:227:G:H5'	2.18	0.44
1:AA:227:G:C6	1:AA:228:A:C6	3.05	0.44
52:DV:1:MET:CE	52:DV:46:VAL:HG23	2.48	0.44
41:BG:33:ARG:HB2	41:BG:162:THR:OG1	2.18	0.44
23:CW:34:U:O2	23:CW:36:A:C8	2.70	0.44
35:DA:1388:G:H1	35:DA:1399:C:N4	2.14	0.44
7:CG:140:ASP:OD1	7:CG:143:ARG:NH2	2.44	0.44
1:AA:570:G:C6	1:AA:873:A:N1	2.85	0.44
1:CA:126:G:H5'	1:CA:633:G:H22	1.81	0.44
10:CJ:22:LYS:O	10:CJ:24:VAL:N	2.42	0.44
1:AA:1030(D):A:C2'	1:AA:1031:G:H5'	2.47	0.44
35:DA:2880:C:H4'	48:DR:90:ARG:NH1	2.33	0.44
35:DA:644:A:C2'	35:DA:645:C:H5''	2.48	0.44
29:B3:23:LEU:H	29:B3:23:LEU:HD12	1.83	0.44
3:CC:206:GLU:HB3	3:CC:207:VAL:H	1.58	0.44
35:BA:1910:G:C2	35:BA:1921:G:C4	3.06	0.44
35:DA:2650:U:H2'	35:DA:2651:C:H6	1.83	0.44
1:AA:125:U:H2'	1:AA:126:G:C8	2.53	0.44
1:AA:858:G:O6	1:AA:869:G:H3'	2.17	0.44
1:AA:132:C:N4	1:AA:231:G:N1	2.65	0.44
3:AC:37:GLN:NE2	14:AN:52:GLN:OE1	2.50	0.44
43:DI:42:SER:C	43:DI:44:LEU:H	2.21	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D3:23:LEU:O	29:D3:28:LEU:HB2	2.17	0.44
35:BA:2254:C:C5	35:BA:2255:G:N7	2.86	0.44
1:CA:1157:A:H4'	1:CA:1158:C:O5'	2.17	0.44
35:BA:2792:G:O6	35:BA:2804:C:N3	2.51	0.44
35:DA:2228:G:P	38:DD:263:ARG:HH21	2.40	0.44
35:DA:1035:U:H5''	42:DH:59:ARG:NH1	2.33	0.44
36:BB:39:A:H2'	36:BB:39:A:N3	2.33	0.44
1:AA:401:C:O5'	1:AA:401:C:H6	2.01	0.44
50:DT:32:TYR:HB2	50:DT:33:LYS:H	1.45	0.44
50:DT:65:LYS:HG3	50:DT:66:VAL:N	2.33	0.44
50:DT:79:HIS:O	50:DT:80:SER:HB2	2.18	0.44
50:DT:88:ILE:HG22	50:DT:89:VAL:HG23	2.00	0.44
1:CA:949:A:C2	1:CA:1233:G:N3	2.86	0.44
38:BD:211:ARG:C	38:BD:213:ARG:N	2.69	0.44
38:DD:91:ARG:O	38:DD:107:ALA:HB3	2.18	0.44
38:DD:206:LEU:HD23	38:DD:211:ARG:NH1	2.32	0.44
38:DD:268:ARG:HB2	38:DD:268:ARG:CZ	2.47	0.44
41:DG:109:VAL:O	41:DG:110:ALA:C	2.56	0.44
41:DG:131:TYR:CE1	41:DG:133:LEU:HG	2.53	0.44
32:B6:51:GLU:O	32:B6:52:VAL:HB	2.18	0.44
35:BA:249:C:H5'	35:BA:2394:C:O2'	2.18	0.44
36:BB:103:G:H1'	56:BZ:73:GLN:HE22	1.83	0.44
47:BQ:138:ASP:OD1	56:BZ:99:TYR:HE1	2.00	0.44
52:BV:36:PRO:CG	52:BV:60:GLU:OE1	2.66	0.44
1:AA:949:A:C2	1:AA:1233:G:N3	2.86	0.44
28:B2:46:GLN:HE21	28:B2:47:ASN:N	2.14	0.44
28:B2:52:ASP:OD2	35:BA:72:U:H1'	2.18	0.44
35:DA:1863:G:H1	35:DA:1879:C:H42	1.66	0.44
27:B1:52:ARG:NH1	35:BA:2199:A:H5'	2.33	0.44
2:AB:77:ALA:HB1	2:AB:211:ILE:HD13	1.99	0.44
30:B4:6:HIS:N	41:BG:67:LYS:HE3	2.32	0.44
42:BH:121:ILE:HG22	42:BH:133:VAL:HG11	1.99	0.44
42:BH:87:LEU:CD1	42:BH:148:ILE:HG21	2.48	0.44
35:DA:559:G:N2	51:DU:49:HIS:HD2	2.14	0.44
35:DA:559:G:O2'	35:DA:560:C:H5'	2.17	0.44
52:DV:61:VAL:HG21	52:DV:100:ARG:H	1.82	0.44
10:AJ:98:ILE:HG22	10:AJ:99:LYS:N	2.33	0.44
1:AA:1049:U:OP1	14:AN:3:ARG:NH1	2.50	0.44
4:CD:14:ARG:C	4:CD:16:GLY:N	2.71	0.44
25:AY:58:VAL:HG22	25:AY:68:VAL:HG13	1.99	0.44
34:B8:2:PRO:O	34:B8:3:LYS:HB2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2029:G:H2'	35:BA:2031:A:OP2	2.18	0.44
35:BA:585:G:H2'	35:BA:586:A:N7	2.32	0.44
35:BA:664:C:H4'	35:BA:941:A:OP1	2.18	0.44
40:BF:53:THR:HG23	40:BF:56:GLU:H	1.83	0.44
51:BU:7:GLY:C	51:BU:8:VAL:CG2	2.86	0.44
3:AC:109:PRO:HA	3:AC:115:LEU:HD12	1.99	0.44
1:AA:100:C:H2'	1:AA:101:A:C8	2.53	0.44
36:DB:115:G:H2'	36:DB:116:G:C8	2.52	0.44
49:DS:56:LEU:O	49:DS:57:LYS:HB3	2.18	0.44
44:BN:19:GLU:C	44:BN:21:LYS:H	2.21	0.44
6:CF:39:LYS:CG	6:CF:40:VAL:H	2.28	0.44
34:D8:56:GLU:HA	34:D8:59:LYS:CE	2.47	0.44
35:DA:792:G:N3	35:DA:2072:G:H1'	2.33	0.44
40:DF:89:VAL:HG12	40:DF:90:PHE:CD1	2.53	0.44
46:DP:48:PRO:CG	46:DP:49:ARG:N	2.81	0.44
1:AA:1410:G:N2	1:AA:1491:G:H1'	2.33	0.44
3:AC:11:ARG:O	3:AC:14:ILE:O	2.35	0.44
1:AA:583:A:H2'	1:AA:584:G:C8	2.53	0.44
47:DQ:70:PRO:HA	47:DQ:94:VAL:C	2.38	0.44
6:AF:9:VAL:HG12	6:AF:10:LEU:N	2.33	0.44
18:AR:37:VAL:O	18:AR:40:LEU:N	2.50	0.44
1:CA:1500:A:OP1	1:CA:1505:G:OP1	2.35	0.44
35:DA:2029:G:C4	35:DA:2031:A:OP2	2.70	0.44
35:DA:567:A:N1	35:DA:568:U:O2	2.51	0.44
51:DU:8:VAL:O	51:DU:10:ARG:N	2.51	0.44
25:CY:10:THR:C	25:CY:14:MET:HG3	2.33	0.44
25:CY:25:LEU:C	25:CY:27:GLY:N	2.71	0.44
16:AP:23:ASP:OD1	16:AP:24:ALA:N	2.50	0.44
1:AA:1009:G:O2'	1:AA:1010:G:H5'	2.18	0.44
1:CA:756:C:H2'	1:CA:757:U:O4'	2.18	0.44
35:BA:2163:C:O2'	35:BA:2164:C:P	2.75	0.44
35:BA:2701:C:C3'	35:BA:2702:U:H5''	2.31	0.44
35:BA:530:G:C5	35:BA:2022:U:H5''	2.52	0.44
1:AA:708:C:H2'	1:AA:709:G:H8	1.83	0.44
19:AS:63:THR:HG22	19:AS:66:MET:CE	2.48	0.44
26:D0:16:SER:CB	35:DA:2261:C:H3'	2.48	0.44
35:DA:2262:U:H2'	35:DA:2263:C:C5'	2.41	0.44
8:AH:122:ARG:CA	8:AH:125:ARG:HB3	2.43	0.44
8:CH:63:LEU:HB3	8:CH:64:LYS:H	1.64	0.44
35:DA:2128:C:H5'	35:DA:2173:A:H2	1.83	0.44
42:BH:13:LYS:CA	42:BH:13:LYS:HE2	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:CR:62:GLU:O	18:CR:63:GLN:C	2.56	0.44
42:BH:41:MET:HE1	42:BH:55:PRO:HD2	1.99	0.44
35:DA:1175:U:H4'	35:DA:1176:G:H5'	1.98	0.44
46:BP:113:LYS:HG2	46:BP:115:LEU:CD2	2.48	0.44
1:CA:452:A:H4'	16:CP:72:ARG:CZ	2.47	0.44
40:BF:167:ALA:O	40:BF:168:ARG:C	2.56	0.44
40:BF:160:ASN:HB3	40:BF:163:VAL:CG2	2.47	0.44
11:CK:30:VAL:HG21	11:CK:68:ALA:HB2	2.00	0.44
35:DA:707:G:H3'	35:DA:708:C:C6	2.53	0.44
35:BA:614:U:C4'	35:BA:614(C):A:H62	2.31	0.44
39:DE:103:ASP:OD1	39:DE:201:THR:HA	2.18	0.44
38:DD:72:LYS:HB2	38:DD:97:TYR:HE2	1.82	0.44
1:CA:677:U:H2'	1:CA:678:U:C6	2.53	0.44
26:D0:39:ARG:NH2	35:DA:2354:G:N2	2.65	0.44
5:AE:105:VAL:HB	5:AE:106:PRO:HD3	2.00	0.44
1:CA:385:C:H2'	1:CA:386:C:C6	2.51	0.44
20:CT:27:LYS:C	20:CT:27:LYS:HD3	2.38	0.44
1:AA:664:G:P	18:AR:64:ARG:HH21	2.41	0.44
1:CA:725:G:O2'	1:CA:726:C:H5'	2.17	0.44
53:BW:75:TYR:HE1	53:BW:104:THR:HB	1.74	0.44
23:CW:17:C:H5''	23:CW:18:U:C6	2.53	0.44
46:DP:57:THR:C	46:DP:59:LEU:N	2.70	0.44
8:AH:53:VAL:O	8:AH:54:ASP:CB	2.66	0.44
53:BW:19:LEU:O	53:BW:20:VAL:C	2.56	0.44
35:BA:1720:U:H2'	35:BA:1721:G:C5'	2.48	0.44
36:DB:100:A:C4	36:DB:101:G:C8	3.05	0.44
35:DA:2660:A:H2'	35:DA:2661:G:C8	2.53	0.44
35:DA:695:G:C6	35:DA:696:G:N7	2.86	0.44
52:BV:46:VAL:HG12	52:BV:47:VAL:N	2.33	0.44
35:BA:2352:A:H2'	35:BA:2353:G:H5'	2.00	0.44
1:AA:1243:C:OP2	21:AU:10:ARG:NH1	2.50	0.44
45:DO:13:ASN:HD22	45:DO:97:ARG:HG2	1.82	0.44
17:AQ:14:LYS:HB2	17:AQ:14:LYS:HZ3	1.82	0.44
53:BW:24:ILE:O	53:BW:26:GLY:N	2.50	0.44
35:BA:7:G:H4'	44:BN:13:TRP:CZ2	2.52	0.44
7:AG:27:ILE:HD11	7:AG:43:PHE:CD2	2.53	0.44
35:BA:431:U:H6	35:BA:431:U:O5'	2.00	0.44
1:CA:241:C:C1'	1:CA:286:G:N2	2.81	0.44
35:DA:1853:A:N1	35:DA:2087:G:H1'	2.33	0.44
6:CF:37:VAL:HG13	6:CF:65:VAL:HG12	1.99	0.44
35:BA:1517:G:C2'	35:BA:1518:U:H5'	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BO:47:ILE:HG23	45:BO:48:PRO:N	2.33	0.44
35:BA:426:C:H2'	35:BA:427:U:C5'	2.48	0.44
3:CC:61:ALA:O	3:CC:62:ASP:HB2	2.18	0.44
35:DA:42:G:H2'	35:DA:43:A:H8	1.78	0.44
35:BA:422:A:C6	35:BA:423:A:C6	3.06	0.44
35:DA:2517:C:C4	35:DA:2542:A:C6	3.06	0.44
35:DA:40:C:H2'	35:DA:41:C:C6	2.50	0.44
35:DA:751:A:H62	35:DA:789:A:N6	2.15	0.44
35:DA:1669:A:H5''	35:DA:2550:G:OP1	2.18	0.44
17:AQ:99:SER:O	17:AQ:100:LYS:HE2	2.18	0.44
35:BA:641:C:C2'	35:BA:642:G:H5'	2.48	0.44
13:AM:4:ILE:HG22	13:AM:5:ALA:N	2.33	0.44
42:DH:59:ARG:HG2	42:DH:59:ARG:O	2.18	0.44
7:CG:57:GLU:O	7:CG:59:LEU:N	2.49	0.44
35:BA:1507:A:C2	35:BA:1508:A:H1'	2.53	0.44
1:CA:433:C:H6	1:CA:433:C:O5'	2.01	0.44
35:BA:761:A:H8	35:BA:761:A:O5'	2.01	0.44
35:BA:688:U:H5'	35:BA:1780:A:C2	2.53	0.44
7:CG:32:ARG:O	7:CG:33:ASP:HB2	2.18	0.44
35:DA:2711:A:C8	35:DA:2714:G:O4'	2.71	0.44
45:DO:43:VAL:HG11	45:DO:46:ALA:HB2	1.99	0.44
50:DT:62:THR:HG22	50:DT:75:ILE:CA	2.23	0.44
50:DT:29:ARG:HG2	50:DT:86:ILE:N	2.33	0.44
14:CN:22:THR:O	14:CN:23:ARG:HB2	2.17	0.44
41:DG:16:ARG:HG3	41:DG:16:ARG:NH1	2.32	0.44
35:DA:1788:C:C2	35:DA:1789:A:C8	3.06	0.44
35:DA:1802:A:H2'	35:DA:1803:A:C8	2.53	0.44
41:DG:88:ILE:HG22	41:DG:89:GLY:N	2.33	0.44
41:DG:93:THR:C	41:DG:94:LEU:HD23	2.39	0.44
34:B8:39:LYS:HZ2	34:B8:40:GLU:HA	1.82	0.44
35:BA:2285:C:H6	35:BA:2285:C:H3'	1.83	0.44
56:BZ:120:ILE:HB	56:BZ:171:ILE:O	2.17	0.44
39:DE:140:SER:OG	39:DE:141:ILE:N	2.51	0.44
51:BU:54:LYS:O	51:BU:58:ARG:HG3	2.18	0.44
9:AI:114:TYR:HE1	10:AJ:60:ARG:H	1.58	0.44
14:AN:26:ARG:HB2	14:AN:39:LEU:CD2	2.47	0.44
14:AN:41:ARG:HG3	14:AN:42:ILE:N	2.31	0.44
28:B2:14:ARG:NE	28:B2:14:ARG:H	2.15	0.44
35:BA:1601:G:OP2	54:BX:58:HIS:HD2	2.01	0.44
54:BX:49:VAL:HG13	54:BX:85:PRO:HB3	1.98	0.44
35:DA:2892:A:N6	35:DA:2893:G:N2	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DE:33:VAL:HG11	39:DE:89:ASP:N	2.11	0.44
39:DE:51:PHE:C	39:DE:51:PHE:CD1	2.91	0.44
27:B1:10:LYS:HA	27:B1:13:ILE:CG2	2.47	0.44
41:BG:114:ILE:HD12	41:BG:117:PHE:CD2	2.53	0.44
41:BG:73:ALA:HB2	41:BG:87:PRO:CG	2.44	0.44
55:DY:90:LEU:HD23	55:DY:90:LEU:N	2.33	0.44
28:D2:32:LEU:CG	28:D2:33:MET:N	2.81	0.44
56:DZ:33:LEU:CD2	56:DZ:35:ARG:HB2	2.42	0.44
56:DZ:48:PHE:CE2	56:DZ:52:SER:HA	2.53	0.44
51:DU:74:LEU:HD12	51:DU:74:LEU:O	2.17	0.44
4:CD:101:LEU:CD2	4:CD:121:VAL:HG13	2.46	0.44
40:BF:41:LEU:HA	40:BF:44:ARG:CG	2.48	0.44
27:D1:62:VAL:CG2	27:D1:67:ILE:HA	2.28	0.44
35:DA:373:U:H1'	35:DA:423:A:N3	2.32	0.44
35:BA:1262:A:P	53:BW:99:ARG:HH12	2.41	0.44
40:DF:192:LEU:HD21	40:DF:194:MET:CE	2.46	0.44
47:BQ:70:PRO:HA	47:BQ:94:VAL:C	2.38	0.44
35:DA:1654:A:O2'	35:DA:1655:A:H5'	2.17	0.44
1:AA:1438:G:H2'	1:AA:1439:C:H6	1.82	0.44
48:BR:72:ASP:HB3	48:BR:75:LEU:HB2	2.00	0.44
49:DS:58:LEU:CD2	49:DS:65:VAL:HG13	2.48	0.44
49:DS:72:ALA:C	49:DS:76:LYS:HG2	2.37	0.44
2:CB:80:ILE:CD1	2:CB:215:LEU:HD12	2.47	0.44
44:DN:104:LYS:C	44:DN:106:MET:H	2.22	0.44
44:BN:17:ASP:O	44:BN:19:GLU:HG3	2.18	0.44
15:CO:83:GLU:O	15:CO:83:GLU:HG2	2.18	0.44
18:CR:22:VAL:HG13	18:CR:25:THR:HB	2.00	0.44
2:CB:51:LEU:O	2:CB:55:PHE:HD2	2.01	0.44
4:AD:126:ILE:CG2	4:AD:127:THR:N	2.79	0.44
4:AD:173:TRP:C	4:AD:186:LEU:HB2	2.39	0.44
46:DP:147:LEU:HB2	46:DP:148:LEU:H	1.57	0.44
4:AD:62:GLN:HB3	4:AD:66:ARG:HH22	1.81	0.44
35:DA:1130:U:O2	35:DA:2025:C:H5"	2.18	0.44
51:DU:39:LEU:O	51:DU:40:PHE:C	2.55	0.44
1:CA:1312:G:N2	1:CA:1326:C:C2	2.86	0.44
16:AP:74:LEU:O	16:AP:77:ALA:HB3	2.18	0.44
25:AY:18:LEU:O	25:AY:19:GLU:C	2.56	0.44
11:AK:109:VAL:HG22	18:AR:85:LEU:O	2.18	0.44
43:BI:112:LYS:C	43:BI:114:LEU:H	2.22	0.44
12:AL:38:THR:CG2	12:AL:57:LYS:HB2	2.47	0.44
8:CH:125:ARG:HG3	8:CH:125:ARG:HH11	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:121:ASP:O	8:CH:125:ARG:NE	2.51	0.44
55:BY:11:ASP:OD1	55:BY:12:THR:N	2.51	0.44
55:BY:15:VAL:HG12	55:BY:16:ALA:N	2.25	0.44
35:DA:975(A):G:N3	35:DA:1156:A:H2	2.15	0.44
1:AA:511:C:O2'	1:AA:512:U:H6	2.01	0.44
9:AI:17:VAL:HG22	9:AI:63:ILE:CG2	2.48	0.44
31:D5:40:LYS:NZ	31:D5:46:CYS:H	2.16	0.44
4:AD:145:GLU:C	4:AD:146:ILE:HD13	2.38	0.44
42:BH:66:GLY:CA	42:BH:69:ARG:HB2	2.36	0.44
9:CI:3:GLN:HA	9:CI:19:LEU:O	2.17	0.44
9:CI:28:VAL:O	9:CI:30:GLY:N	2.51	0.44
9:CI:5:TYR:HE1	9:CI:7:THR:OG1	1.99	0.44
35:BA:1175:U:H4'	35:BA:1176:G:H5'	2.00	0.44
15:CO:11:VAL:HG13	15:CO:15:PHE:CE1	2.53	0.44
46:BP:95:VAL:HG23	46:BP:125:VAL:CB	2.46	0.44
35:BA:1615:C:H5	35:BA:1617:C:C5	2.35	0.44
39:DE:167:VAL:HG22	39:DE:170:LEU:HD11	2.00	0.44
35:BA:1484:G:H3'	35:BA:1485:G:C5'	2.46	0.44
35:BA:2795:G:O6	35:BA:2801(A):A:C2	2.71	0.44
36:BB:20:C:H2'	36:BB:21:G:C5'	2.38	0.44
53:DW:6:ILE:HG22	53:DW:6:ILE:O	2.17	0.44
16:AP:12:LYS:O	16:AP:13:HIS:HB2	2.17	0.44
3:AC:88:ARG:HG2	3:AC:101:LEU:CB	2.47	0.44
12:CL:21:LYS:CD	12:CL:21:LYS:H	2.09	0.44
5:CE:41:VAL:CG1	5:CE:113:ALA:HA	2.48	0.44
1:CA:1254:C:H2'	1:CA:1255:G:H8	1.82	0.44
1:CA:766:A:C5	1:CA:814:A:C2	3.06	0.44
35:BA:290:G:O2'	35:BA:291:C:H5'	2.18	0.44
13:CM:8:GLU:C	13:CM:9:ILE:HD12	2.38	0.44
11:CK:127:LYS:O	11:CK:127:LYS:HE2	2.18	0.44
15:AO:85:LEU:HB2	15:AO:87:ILE:CD1	2.48	0.44
35:DA:1807:G:C2	35:DA:1811:G:O6	2.71	0.44
31:D5:15:ARG:HH11	31:D5:15:ARG:HG3	1.83	0.44
35:BA:2195:C:C2'	35:BA:2196:C:H5'	2.48	0.44
1:CA:339:C:O2'	1:CA:340:U:H5'	2.17	0.44
53:BW:50:VAL:HG13	53:BW:105:VAL:HG21	1.99	0.44
1:CA:1340:A:O2'	22:CV:31:U:H5'	2.18	0.44
34:B8:17:THR:HG22	35:BA:650:C:O2'	2.17	0.44
1:CA:1242:C:O5'	21:CU:10:ARG:NH1	2.51	0.44
29:B3:58:VAL:HG12	29:B3:59:VAL:N	2.33	0.44
1:AA:565:U:H2'	1:AA:566:G:H8	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:718:A:H2'	35:BA:719:C:O4'	2.18	0.44
1:CA:125:U:H2'	1:CA:126:G:C8	2.53	0.44
53:DW:65:LEU:O	53:DW:69:LEU:HG	2.18	0.44
9:CI:42:ARG:NH2	9:CI:75:ASP:OD1	2.51	0.44
43:DI:25:TYR:HE2	43:DI:29:TYR:CD2	2.36	0.44
36:BB:16:G:H2'	36:BB:17:C:C6	2.52	0.44
45:DO:17:ARG:O	45:DO:18:LYS:CG	2.66	0.44
35:DA:2073:C:H2'	35:DA:2074:U:H6	1.83	0.44
38:DD:109:ASP:HB2	38:DD:197:GLY:HA2	2.00	0.44
35:DA:1227:G:OP1	51:DU:13:LYS:HE2	2.18	0.44
1:CA:1161:C:H2'	1:CA:1162:C:C6	2.53	0.44
1:CA:828:A:H2'	1:CA:829:G:O4'	2.17	0.44
50:DT:121:ILE:CG2	50:DT:122:ASP:N	2.80	0.44
53:BW:9:TYR:H	53:BW:9:TYR:HD2	1.66	0.44
3:CC:35:GLU:OE2	3:CC:95:THR:HG23	2.18	0.44
35:DA:826:U:H2'	35:DA:828:U:O4'	2.18	0.44
35:DA:38:A:H2'	35:DA:39:C:H6	1.83	0.44
35:DA:1305:C:C2'	35:DA:1306:C:H5'	2.48	0.44
50:DT:57:PHE:CG	50:DT:58:ASN:N	2.85	0.44
43:BI:42:SER:C	43:BI:44:LEU:H	2.20	0.44
15:CO:6:GLU:N	15:CO:6:GLU:OE1	2.33	0.44
1:AA:44:G:N2	1:AA:45:U:H1'	2.33	0.44
25:AY:184:LEU:O	25:AY:185:GLY:OXT	2.35	0.44
7:AG:115:ARG:HB2	7:AG:118:VAL:CG2	2.48	0.44
35:DA:2004:G:H2'	35:DA:2005:A:C8	2.53	0.44
1:CA:152:A:N6	1:CA:170:U:C2	2.86	0.44
35:DA:2584:U:O2	35:DA:2584:U:O4'	2.33	0.44
35:DA:2696:U:H2'	35:DA:2697:G:C8	2.52	0.43
35:DA:2726:U:HO2'	35:DA:2727:G:C5'	2.31	0.43
43:BI:79:ILE:C	43:BI:81:VAL:H	2.21	0.43
43:BI:91:SER:H	43:BI:121:LYS:HE2	1.82	0.43
10:CJ:48:THR:HG1	10:CJ:62:HIS:CG	2.36	0.43
14:CN:22:THR:HB	14:CN:33:VAL:HG21	1.99	0.43
41:DG:11:TYR:O	41:DG:12:TYR:C	2.56	0.43
38:BD:267:SER:HA	38:BD:270:ILE:CG1	2.48	0.43
38:BD:43:ARG:HB2	38:BD:54:ARG:HB2	2.00	0.43
38:DD:241:PRO:O	38:DD:242:ARG:HB2	2.18	0.43
38:DD:82:ILE:HA	38:DD:92:ILE:O	2.18	0.43
41:DG:92:VAL:CG2	41:DG:93:THR:H	2.27	0.43
47:DQ:68:ILE:CD1	47:DQ:68:ILE:N	2.80	0.43
1:AA:1442:G:C8	1:AA:1442(B):A:C2	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2864:G:H5'	35:BA:2864:G:C8	2.49	0.43
56:BZ:27:VAL:O	56:BZ:88:PHE:N	2.41	0.43
35:BA:2810:A:C2'	39:BE:61:ARG:NH2	2.81	0.43
35:BA:996:A:C1'	51:BU:92:ARG:HH21	2.31	0.43
35:BA:1346:G:H1	35:BA:1600:C:H42	1.65	0.43
35:BA:393:C:H2'	35:BA:394:A:C8	2.50	0.43
2:AB:212:GLN:HE22	2:AB:216:SER:HB2	1.76	0.43
41:BG:108:ASN:C	41:BG:112:PRO:HG2	2.39	0.43
41:BG:133:LEU:HD12	41:BG:133:LEU:C	2.38	0.43
28:D2:13:ALA:O	28:D2:14:ARG:O	2.35	0.43
42:BH:124:GLU:HB2	42:BH:132:ARG:O	2.18	0.43
56:DZ:40:ASP:OD1	56:DZ:43:GLU:N	2.34	0.43
44:DN:39:ARG:HG3	44:DN:39:ARG:HH11	1.83	0.43
51:DU:106:PHE:O	51:DU:107:ALA:C	2.56	0.43
35:BA:1882:C:O2	35:BA:1882:C:H2'	2.18	0.43
1:CA:1057:G:C2'	1:CA:1058:G:H5'	2.48	0.43
1:CA:1203:C:OP1	14:CN:3:ARG:CD	2.63	0.43
40:BF:157:VAL:HB	40:BF:194:MET:CB	2.48	0.43
35:BA:2052:G:H2'	35:BA:2053:G:C8	2.41	0.43
27:D1:87:PRO:O	27:D1:91:LYS:N	2.40	0.43
35:BA:579:G:C2	35:BA:1262:A:C4	3.07	0.43
46:BP:48:PRO:CG	46:BP:49:ARG:H	2.31	0.43
40:DF:182:ASN:O	40:DF:182:ASN:OD1	2.36	0.43
40:DF:21:ALA:C	40:DF:23:ASP:N	2.71	0.43
47:BQ:16:ARG:HG2	47:BQ:17:LEU:N	2.25	0.43
48:DR:81:ASP:O	48:DR:82:GLU:HB2	2.17	0.43
48:BR:2:ARG:HE	48:BR:5:LYS:HZ2	1.66	0.43
20:AT:24:LEU:O	20:AT:27:LYS:CB	2.66	0.43
35:BA:1326:U:C2'	35:BA:1327:C:H5'	2.48	0.43
48:BR:19:ALA:O	48:BR:20:LEU:C	2.55	0.43
36:DB:28:C:H42	36:DB:56:G:H1	1.66	0.43
49:DS:26:LEU:CD2	49:DS:28:VAL:HG22	2.47	0.43
2:CB:236:TYR:C	2:CB:238:LEU:H	2.20	0.43
18:CR:40:LEU:O	18:CR:43:PHE:HD1	2.02	0.43
18:CR:76:LEU:O	18:CR:78:LEU:HG	2.17	0.43
35:DA:1259:G:H2'	35:DA:1260:G:C8	2.52	0.43
35:DA:813:U:H2'	35:DA:814:C:H6	1.77	0.43
35:DA:685:A:C2	35:DA:787:U:H1'	2.53	0.43
1:AA:407:G:O2'	4:AD:116:GLN:HG3	2.18	0.43
1:AA:434:U:H2'	1:AA:435:C:C1'	2.48	0.43
4:AD:160:GLN:O	4:AD:163:GLU:HB3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1410:G:C2	1:AA:1491:G:N3	2.86	0.43
12:AL:6:THR:H	12:AL:9:GLN:NE2	2.15	0.43
17:AQ:27:PHE:O	17:AQ:36:ILE:HG13	2.18	0.43
1:AA:1357:A:N7	1:AA:1358:U:C4	2.86	0.43
4:AD:18:LYS:HE3	4:AD:31:CYS:CB	2.48	0.43
4:AD:74:GLN:C	4:AD:76:ARG:N	2.71	0.43
1:AA:735:C:HO2'	1:AA:736:C:H5'	1.80	0.43
1:CA:1497:G:C6	1:CA:1498:U:O4	2.71	0.43
35:DA:1912:A:H5'	35:DA:1918:A:N1	2.33	0.43
35:DA:961:C:C5	35:DA:2031:A:C2	3.06	0.43
25:CY:10:THR:O	25:CY:12:SER:N	2.51	0.43
1:CA:1323:G:H4'	1:CA:1363:C:O2	2.18	0.43
1:CA:1268:A:H4'	21:CU:20:LYS:H	1.82	0.43
35:DA:17:G:H2'	35:DA:18:C:C6	2.52	0.43
17:CQ:29:HIS:ND1	17:CQ:31:LEU:N	2.52	0.43
35:BA:1131:G:C2	35:BA:1132:A:N7	2.85	0.43
1:CA:692:U:H5	11:CK:26:ASN:CG	2.21	0.43
38:BD:31:LYS:O	38:BD:32:SER:O	2.35	0.43
40:DF:160:ASN:OD1	40:DF:163:VAL:HG23	2.18	0.43
13:AM:91:ARG:CB	13:AM:96:LEU:O	2.63	0.43
35:DA:261:G:HO2'	35:DA:609:A:H2	1.61	0.43
46:DP:16:ARG:O	46:DP:18:ARG:N	2.51	0.43
1:AA:15:G:H1'	5:AE:19:MET:HG2	1.99	0.43
25:CY:41:LEU:HD22	25:CY:83:ILE:CD1	2.48	0.43
12:AL:119:LYS:HD3	12:AL:120:TYR:CE1	2.52	0.43
1:CA:561:U:O2'	1:CA:562:C:P	2.76	0.43
1:CA:824:C:H4'	8:CH:1:MET:H1	1.83	0.43
5:AE:147:ASP:O	5:AE:151:LEU:HG	2.18	0.43
1:AA:561:U:O2'	1:AA:562:C:P	2.76	0.43
12:CL:47:LYS:HG2	12:CL:48:PRO:HD3	2.00	0.43
31:B5:31:VAL:O	31:B5:32:PRO:O	2.36	0.43
1:CA:1169:A:C2	1:CA:1170:A:C4	3.06	0.43
46:DP:131:SER:O	46:DP:135:LEU:N	2.51	0.43
1:AA:445:G:N1	1:AA:490:G:C6	2.86	0.43
56:BZ:19:ARG:HB3	56:BZ:19:ARG:HH11	1.83	0.43
1:CA:933:G:OP2	7:CG:3:ARG:HB3	2.17	0.43
5:AE:99:GLY:O	5:AE:117:ASP:HA	2.18	0.43
35:DA:724:U:H2'	35:DA:725:G:H5'	2.00	0.43
35:BA:2883:A:C5'	35:BA:2884:U:H5'	2.48	0.43
35:DA:2704:C:C2	35:DA:2705:A:C8	3.05	0.43
2:AB:100:GLY:O	2:AB:104:ASN:C	2.56	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:724:U:H2'	35:BA:725:G:H5'	1.98	0.43
7:AG:66:VAL:HB	7:AG:67:GLU:OE2	2.18	0.43
35:DA:2832:U:O4	35:DA:2883:A:H5''	2.18	0.43
35:DA:2831:G:O2'	35:DA:2883:A:H2'	2.17	0.43
35:BA:444:C:O2'	35:BA:445:C:H5'	2.18	0.43
35:BA:1042:G:N3	35:BA:1114:G:N2	2.66	0.43
1:CA:1434:A:H2'	1:CA:1435:G:O4'	2.18	0.43
37:DC:59:ARG:HB2	37:DC:62:VAL:CG2	2.41	0.43
1:AA:831:U:H2'	1:AA:832:C:C5	2.53	0.43
35:DA:1982:C:C2	35:DA:1983:C:C5	3.05	0.43
35:BA:2636:U:H2'	35:BA:2637:U:H6	1.83	0.43
35:DA:1615:C:H5	35:DA:1617:C:C2	2.37	0.43
35:BA:855:G:C6	35:BA:856:C:C4	3.06	0.43
35:DA:974:G:C4	35:DA:989:G:C2	3.05	0.43
13:AM:9:ILE:HD13	41:BG:146:TYR:OH	2.17	0.43
9:AI:9:ARG:HA	9:AI:14:VAL:HA	1.99	0.43
1:AA:1299:A:C5	1:AA:1301:U:N3	2.86	0.43
15:AO:33:THR:HG23	15:AO:63:ARG:HH11	1.81	0.43
38:DD:139:GLY:H	38:DD:165:ILE:HB	1.82	0.43
1:CA:1239:A:N6	1:CA:1299:A:H62	2.08	0.43
36:DB:64:C:O2'	36:DB:65:C:H5'	2.18	0.43
1:AA:227:G:C2	1:AA:228:A:C4	3.05	0.43
1:CA:1271:G:H5'	1:CA:1314:C:C5'	2.42	0.43
35:DA:552:G:H1'	35:DA:1220:A:C2	2.53	0.43
1:CA:783:C:H2'	1:CA:784:C:H6	1.83	0.43
35:DA:604:G:H2'	35:DA:605:C:C6	2.53	0.43
35:DA:604:G:O6	35:DA:625:G:C6	2.70	0.43
35:BA:1889:A:H1'	35:BA:2087:G:O4'	2.18	0.43
53:DW:67:ASP:N	53:DW:69:LEU:HD11	2.33	0.43
35:DA:1853:A:H2'	35:DA:1854:A:O4'	2.17	0.43
19:AS:22:LEU:HD22	19:AS:27:GLU:HB2	1.99	0.43
35:DA:838:C:O2'	35:DA:839:U:H5'	2.17	0.43
35:BA:1767:C:O2	35:BA:1985:G:N2	2.43	0.43
35:BA:2882:A:OP1	48:BR:96:ARG:HD3	2.17	0.43
1:CA:702:A:C3'	1:CA:703:G:H5'	2.48	0.43
35:BA:40:C:H2'	35:BA:41:C:C6	2.51	0.43
35:DA:826:U:C2	35:DA:828:U:H1'	2.53	0.43
5:AE:87:SER:OG	5:AE:125:SER:CB	2.66	0.43
52:DV:58:VAL:HG12	52:DV:101:GLY:C	2.38	0.43
53:DW:80:PRO:O	53:DW:100:THR:HG22	2.17	0.43
35:DA:2460:U:C2'	35:DA:2461:C:H5'	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:44:G:C2	1:CA:399:G:C2	3.05	0.43
3:AC:121:ALA:HB1	3:AC:188:LEU:O	2.18	0.43
35:DA:118:A:H1'	35:DA:178:G:O4'	2.17	0.43
7:CG:133:GLY:HA2	7:CG:136:LYS:CG	2.47	0.43
35:BA:2374:C:O2'	35:BA:2375:G:H5'	2.18	0.43
4:AD:167:GLY:O	4:AD:168:ARG:C	2.56	0.43
5:AE:62:ALA:O	5:AE:65:ASN:N	2.47	0.43
1:AA:433:C:H6	1:AA:433:C:O5'	2.00	0.43
35:DA:2400:G:H2'	35:DA:2401:U:H6	1.83	0.43
1:AA:1086:U:O2'	1:AA:1087:G:H5'	2.18	0.43
45:DO:67:LYS:O	45:DO:68:GLU:C	2.55	0.43
45:DO:65:THR:HA	45:DO:82:ASN:HA	2.00	0.43
50:DT:107:ASP:CG	50:DT:109:GLU:H	2.20	0.43
45:DO:76:ALA:CB	50:DT:75:ILE:HD13	2.47	0.43
1:CA:1050:G:H2'	1:CA:1051:C:H6	1.82	0.43
1:CA:1049:U:O2'	1:CA:1050:G:OP2	2.29	0.43
1:CA:951:G:C6	1:CA:1231:G:C6	3.06	0.43
1:CA:1080:A:C5'	5:CE:16:THR:HG21	2.48	0.43
35:DA:1813:G:N3	38:DD:50:THR:HB	2.33	0.43
41:DG:38:VAL:O	41:DG:38:VAL:HG12	2.17	0.43
35:BA:2566:A:N6	45:BO:28:SER:HB2	2.33	0.43
45:BO:43:VAL:HG12	45:BO:43:VAL:O	2.18	0.43
50:BT:28:VAL:O	50:BT:29:ARG:CD	2.66	0.43
50:BT:48:ILE:CD1	50:BT:48:ILE:N	2.81	0.43
35:BA:902:C:H2'	35:BA:903:C:H6	1.81	0.43
35:BA:2633:G:H5'	35:BA:2811:G:O2'	2.17	0.43
39:BE:35:GLN:HE22	39:BE:37:ARG:HH21	1.65	0.43
52:BV:29:PRO:C	52:BV:31:ALA:H	2.21	0.43
1:AA:972:C:C2'	10:AJ:55:LYS:HD3	2.47	0.43
10:AJ:57:LYS:HD2	10:AJ:60:ARG:HH21	1.83	0.43
54:BX:60:ARG:CG	54:BX:74:PRO:HD2	2.33	0.43
39:DE:50:GLY:HA3	39:DE:74:PRO:HG3	2.00	0.43
35:DA:1882:C:H2'	35:DA:1882:C:O2	2.17	0.43
37:DC:49:ILE:HB	37:DC:50:ASP:H	1.50	0.43
35:BA:2300:G:H1	35:BA:2316:C:N4	2.10	0.43
35:BA:242:G:N3	35:BA:254:G:C6	2.87	0.43
28:D2:41:ILE:N	28:D2:41:ILE:CD1	2.75	0.43
56:DZ:29:TYR:HA	56:DZ:33:LEU:O	2.18	0.43
56:DZ:37:VAL:O	56:DZ:37:VAL:HG23	2.17	0.43
51:DU:90:VAL:O	51:DU:92:ARG:N	2.48	0.43
52:DV:22:VAL:HB	52:DV:94:LEU:CB	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:DQ:57:HIS:ND1	47:DQ:58:PHE:N	2.66	0.43
19:CS:72:GLY:O	19:CS:74:PHE:N	2.51	0.43
45:DO:118:ALA:HA	45:DO:119:PRO:HD2	1.87	0.43
32:D6:27:LYS:HG3	35:DA:2286:A:OP2	2.16	0.43
35:DA:2287:A:C2	35:DA:2289:G:C8	3.05	0.43
36:BB:51:G:H2'	36:BB:52:A:C1'	2.48	0.43
49:BS:13:ARG:O	49:BS:15:ARG:HD3	2.18	0.43
4:CD:100:ARG:NH2	4:CD:137:SER:HA	2.34	0.43
4:CD:109:GLY:O	4:CD:161:ASN:HB3	2.18	0.43
4:CD:64:LEU:CD2	4:CD:203:VAL:HG21	2.48	0.43
40:BF:114:VAL:HG11	40:BF:202:PHE:CE2	2.47	0.43
40:BF:3:GLU:HB3	40:BF:20:LEU:O	2.18	0.43
35:BA:389:G:H22	46:BP:71:VAL:CG1	2.10	0.43
34:B8:56:GLU:CA	34:B8:59:LYS:NZ	2.80	0.43
35:BA:572:A:H2'	35:BA:573:G:O4'	2.18	0.43
35:BA:585:G:C5	35:BA:1251:C:C4	3.05	0.43
46:BP:47:ASP:OD1	46:BP:50:ARG:HG3	2.19	0.43
40:DF:114:VAL:CG1	40:DF:202:PHE:HE2	2.31	0.43
47:BQ:12:GLN:HE21	47:BQ:72:LYS:HA	1.83	0.43
48:DR:10:LEU:HB3	48:DR:17:ARG:HE	1.83	0.43
48:DR:53:HIS:O	48:DR:56:LYS:CB	2.65	0.43
1:AA:322:C:O2'	1:AA:323:U:H5'	2.18	0.43
20:AT:36:LEU:O	20:AT:37:SER:C	2.56	0.43
35:BA:1453:U:H4'	35:BA:1455:G:OP1	2.19	0.43
36:DB:7:G:C4'	49:DS:29:PHE:HE2	2.31	0.43
44:BN:31:ALA:O	44:BN:32:THR:C	2.56	0.43
2:CB:169:LYS:O	2:CB:172:ILE:CD1	2.66	0.43
35:DA:675:A:O2'	35:DA:676:A:H5'	2.18	0.43
35:DA:823:G:N1	35:DA:835:A:C4	2.86	0.43
35:DA:942:G:H2'	35:DA:943:U:O4'	2.18	0.43
52:DV:89:GLN:NE2	52:DV:89:GLN:HA	2.33	0.43
19:AS:11:VAL:HG22	19:AS:16:LEU:HD11	1.98	0.43
19:AS:6:LYS:HG2	19:AS:7:LYS:NZ	2.32	0.43
35:DA:78:A:N1	35:DA:109:G:C6	2.87	0.43
35:DA:99:U:OP1	35:DA:102:G:OP1	2.36	0.43
55:DY:28:LYS:HZ2	55:DY:37:VAL:CG1	2.26	0.43
55:DY:37:VAL:O	55:DY:38:ILE:CB	2.65	0.43
1:AA:584:G:O2'	1:AA:585:G:H5'	2.18	0.43
35:BA:366:C:C4	35:BA:404:C:C5	3.06	0.43
47:DQ:7:MET:O	47:DQ:8:LYS:HB3	2.18	0.43
6:AF:33:TYR:CE1	6:AF:75:LEU:HA	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:AF:88:VAL:CG1	6:AF:89:MET:N	2.81	0.43
1:CA:1403:C:C1'	1:CA:1500:A:N1	2.71	0.43
35:DA:2736:G:H2'	35:DA:2737:G:H8	1.82	0.43
12:CL:28:LYS:O	12:CL:30:ALA:N	2.51	0.43
1:CA:1227:A:N7	1:CA:1228:C:C2	2.86	0.43
35:DA:2702:U:OP1	35:DA:2702:U:O4'	2.36	0.43
25:AY:28:LEU:O	25:AY:30:THR:N	2.49	0.43
25:AY:122:ALA:O	25:AY:126:ARG:NH1	2.51	0.43
7:CG:30:ILE:HD13	7:CG:105:VAL:HG13	1.99	0.43
35:BA:2123:G:H21	37:BC:42:GLU:CD	2.21	0.43
11:CK:29:ILE:CG2	11:CK:44:SER:HB3	2.35	0.43
25:AY:158:GLU:CD	25:AY:158:GLU:C	2.76	0.43
33:B7:19:ARG:HH11	33:B7:19:ARG:HG2	1.83	0.43
35:BA:1605:C:H2'	35:BA:1606:G:O4'	2.18	0.43
26:D0:16:SER:HB3	35:DA:2261:C:H3'	2.00	0.43
2:CB:105:PHE:HA	2:CB:108:ILE:CG2	2.48	0.43
1:AA:1228:C:O3'	13:AM:116:THR:HA	2.18	0.43
35:BA:924:C:O2'	35:BA:925:C:H5'	2.18	0.43
1:AA:192:U:C2	1:AA:193:C:C5	3.06	0.43
1:AA:260:G:H2'	1:AA:261:U:C6	2.53	0.43
1:AA:1502:A:H2	1:AA:1505:G:N1	2.12	0.43
8:AH:48:TYR:O	8:AH:49:GLU:HB3	2.19	0.43
1:AA:1342:C:O2'	1:AA:1343:G:H5'	2.17	0.43
1:CA:515:G:N2	1:CA:537:G:C4	2.87	0.43
31:B5:31:VAL:CB	31:B5:32:PRO:HD2	2.34	0.43
46:BP:85:LEU:HB2	46:BP:120:ALA:HB2	2.00	0.43
33:D7:16:HIS:CE1	35:DA:465:G:C4'	3.01	0.43
35:DA:543:C:C6	35:DA:547:A:C8	3.06	0.43
5:CE:147:ASP:CA	5:CE:150:ARG:HH11	2.18	0.43
38:BD:69:ARG:C	38:BD:71:ASP:H	2.21	0.43
46:BP:114:ILE:HD11	46:BP:130:PHE:CZ	2.53	0.43
7:CG:111:ARG:HH11	7:CG:111:ARG:HB3	1.83	0.43
46:DP:75:ILE:O	46:DP:76:LYS:C	2.56	0.43
40:BF:164:ARG:O	40:BF:165:ARG:C	2.56	0.43
35:BA:2832:U:C5	35:BA:2884:U:H5''	2.54	0.43
39:BE:169:ASN:OD1	39:BE:201:THR:CG2	2.66	0.43
1:CA:1115:C:H2'	1:CA:1116:C:C6	2.53	0.43
13:AM:19:LEU:O	13:AM:22:ILE:HB	2.18	0.43
35:DA:49:A:H4'	35:DA:50:U:H5''	1.99	0.43
1:AA:1054:C:O2'	1:AA:1055:A:H5''	2.18	0.43
35:DA:856:C:H4'	35:DA:857:C:OP2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:102:ALA:CB	5:AE:106:PRO:HG2	2.47	0.43
1:AA:35:G:C4	1:AA:550:G:N2	2.86	0.43
20:CT:71:THR:HB	20:CT:72:LEU:H	1.49	0.43
35:DA:462:C:O2'	35:DA:463:G:H5'	2.18	0.43
35:DA:1958:C:O2'	35:DA:1959:G:H5'	2.18	0.43
13:AM:23:TYR:HB3	13:AM:67:GLU:HA	1.99	0.43
13:AM:73:GLU:HG2	13:AM:77:ASN:HD21	1.82	0.43
29:B3:11:SER:OG	29:B3:13:ILE:HG12	2.18	0.43
35:BA:1300:U:H1'	35:BA:1626:G:N2	2.33	0.43
35:DA:1683:C:H2'	35:DA:1684:C:H6	1.83	0.43
7:AG:54:THR:OG1	7:AG:56:GLN:HG2	2.18	0.43
15:AO:85:LEU:CD1	15:AO:87:ILE:HD11	2.48	0.43
35:DA:1334:G:O2'	35:DA:1335:U:H5'	2.18	0.43
54:DX:88:LYS:HB3	54:DX:89:ILE:HD12	1.99	0.43
35:DA:1528(A):A:N7	35:DA:1529:G:C8	2.86	0.43
35:DA:2464:C:N4	35:DA:2487:G:N1	2.66	0.43
6:AF:12:PRO:HG2	6:AF:13:ASN:H	1.82	0.43
22:CV:29:G:H2'	22:CV:30:A:H8	1.84	0.43
35:DA:986:C:C2'	35:DA:987:G:H5'	2.47	0.43
10:CJ:32:ALA:N	10:CJ:78:ASN:CG	2.71	0.43
35:BA:1889:A:N1	35:BA:2234:G:H1'	2.33	0.43
35:DA:1935:G:H3'	35:DA:1962:C:N4	2.29	0.43
35:BA:695:G:C6	35:BA:696:G:N7	2.87	0.43
35:DA:608:A:N3	35:DA:608:A:H2'	2.33	0.43
35:BA:36:G:O2'	35:BA:37:C:H5'	2.18	0.43
40:BF:22:ALA:HB1	40:BF:26:ALA:CB	2.48	0.43
3:AC:61:ALA:O	3:AC:62:ASP:HB2	2.19	0.43
8:CH:91:ARG:CG	8:CH:91:ARG:NH1	2.79	0.43
35:DA:947:G:H2'	35:DA:948:G:H8	1.83	0.43
38:BD:75:ILE:HG21	38:BD:99:ASP:HB2	2.00	0.43
1:AA:829:G:H2'	1:AA:830:G:C8	2.53	0.43
1:AA:859:A:O2'	1:AA:860:A:H5'	2.18	0.43
2:CB:114:ARG:HD2	2:CB:118:LEU:HG	1.99	0.43
4:AD:138:TYR:C	4:AD:138:TYR:CD2	2.92	0.43
1:AA:318:G:C2	1:AA:319:G:C5	3.06	0.43
32:D6:44:ARG:HG2	32:D6:44:ARG:HH11	1.83	0.43
3:AC:27:LYS:O	3:AC:27:LYS:NZ	2.50	0.43
5:CE:68:GLU:OE2	5:CE:70:PRO:HD3	2.18	0.43
39:DE:9:VAL:CG2	50:DT:8:LYS:HB2	2.49	0.43
3:CC:25:GLY:O	3:CC:28:GLN:N	2.51	0.43
1:CA:866:C:C2	1:CA:867:G:H1'	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1823:G:O2'	35:DA:1824:G:H5'	2.18	0.43
38:DD:34:VAL:HG22	38:DD:35:LYS:NZ	2.33	0.43
35:DA:2306:C:N4	41:DG:43:LEU:O	2.43	0.43
39:BE:188:VAL:O	39:BE:188:VAL:HG13	2.18	0.43
1:AA:608:A:H2'	1:AA:609:A:O4'	2.18	0.43
56:BZ:167:PRO:O	56:BZ:168:GLU:CB	2.66	0.43
35:DA:2051:A:C4'	39:DE:141:ILE:HD11	2.47	0.43
39:DE:120:TRP:CD2	39:DE:155:LYS:HD3	2.53	0.43
39:BE:53:PRO:O	39:BE:55:ASN:OD1	2.36	0.43
39:BE:49:LEU:HD23	39:BE:81:ILE:CG1	2.48	0.43
35:BA:1011:G:C5	35:BA:1151:G:N1	2.86	0.43
44:BN:110:GLY:O	44:BN:113:GLY:N	2.51	0.43
44:BN:36:GLY:HA3	44:BN:48:MET:SD	2.58	0.43
44:BN:39:ARG:HG3	44:BN:39:ARG:HH11	1.83	0.43
44:BN:42:TRP:HE3	44:BN:48:MET:SD	2.41	0.43
51:BU:59:ARG:C	51:BU:61:TRP:N	2.68	0.43
51:BU:88:ILE:O	51:BU:88:ILE:CD1	2.66	0.43
1:AA:973:G:C8	1:AA:974:A:C8	3.06	0.43
28:B2:20:GLU:O	28:B2:23:LYS:HB3	2.18	0.43
28:B2:57:ILE:CD1	28:B2:59:ARG:CZ	2.96	0.43
54:BX:35:THR:O	54:BX:36:LYS:O	2.36	0.43
39:DE:3:GLY:O	39:DE:4:ILE:CB	2.66	0.43
34:B8:11:LYS:O	34:B8:11:LYS:CG	2.67	0.43
34:B8:6:THR:CB	34:B8:63:PRO:HD3	2.48	0.43
28:D2:15:LYS:O	28:D2:16:LEU:C	2.56	0.43
28:D2:41:ILE:O	28:D2:43:GLN:N	2.51	0.43
35:DA:70:G:H21	35:DA:71:A:H62	1.65	0.43
35:DA:74:A:O2'	35:DA:75:G:OP2	2.32	0.43
54:DX:36:LYS:HZ2	54:DX:39:ILE:HA	1.78	0.43
41:BG:27:ASN:CG	41:BG:28:VAL:N	2.72	0.43
42:BH:83:TYR:HD1	42:BH:84:SER:N	2.16	0.43
56:DZ:30:ASN:O	56:DZ:32:HIS:N	2.51	0.43
52:DV:3:ALA:O	52:DV:14:VAL:N	2.46	0.43
14:AN:3:ARG:HB3	14:AN:3:ARG:NH1	2.32	0.43
1:CA:1220:G:H21	19:CS:54:GLY:HA2	1.83	0.43
35:DA:2284:C:N3	35:DA:2384:G:N2	2.48	0.43
49:BS:66:ALA:CA	49:BS:69:VAL:HG12	2.48	0.43
1:CA:544:G:C5	1:CA:545:C:C5	3.06	0.43
4:CD:13:ARG:O	4:CD:14:ARG:C	2.56	0.43
4:CD:58:LEU:C	4:CD:58:LEU:HD13	2.38	0.43
47:BQ:127:ILE:HG22	47:BQ:128:LYS:N	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BN:66:LYS:HA	44:BN:66:LYS:HE3	2.01	0.43
1:CA:994:A:H2	14:CN:4:LYS:HG3	1.83	0.43
3:CC:150:LYS:O	3:CC:201:TYR:N	2.46	0.43
35:BA:606:U:H2'	35:BA:607:U:O4'	2.17	0.43
27:D1:85:LEU:CD2	27:D1:85:LEU:H	2.31	0.43
34:D8:29:LYS:NZ	34:D8:44:LYS:HB2	2.33	0.43
35:DA:1142(A):A:C4	35:DA:1144:G:N7	2.86	0.43
44:DN:62:VAL:HG21	44:DN:66:LYS:HB2	2.00	0.43
35:BA:1164:G:C6	35:BA:1165:U:C4	3.07	0.43
40:DF:155:LEU:HD12	40:DF:174:VAL:O	2.18	0.43
40:DF:6:VAL:HB	40:DF:7:TYR:H	1.62	0.43
35:BA:869:G:C4	35:BA:870:A:C8	3.06	0.43
35:DA:1281:G:H1	35:DA:1286:A:H62	1.65	0.43
35:DA:2821:A:H2'	35:DA:2822:G:H8	1.76	0.43
48:DR:62:ALA:O	48:DR:63:ARG:C	2.56	0.43
35:BA:1638:C:H1'	35:BA:2698:U:O2'	2.18	0.43
2:CB:212:GLN:NE2	2:CB:216:SER:CB	2.78	0.43
44:BN:23:LEU:O	44:BN:25:ARG:N	2.48	0.43
44:BN:26:LEU:CD2	44:BN:99:LEU:HD11	2.48	0.43
15:CO:70:LEU:HD12	15:CO:70:LEU:HA	1.85	0.43
2:CB:36:ARG:HG3	2:CB:37:ASN:N	2.33	0.43
34:D8:56:GLU:O	34:D8:59:LYS:NZ	2.39	0.43
35:DA:1187:G:OP1	52:DV:82:ARG:NH2	2.40	0.43
35:DA:804:A:H2'	35:DA:806:C:N4	2.33	0.43
4:AD:105:VAL:HG13	4:AD:110:PHE:HB2	2.01	0.43
4:AD:150:GLU:O	4:AD:153:ARG:N	2.48	0.43
4:AD:157:LEU:O	4:AD:161:ASN:OD1	2.35	0.43
4:AD:161:ASN:O	4:AD:165:MET:HB2	2.18	0.43
19:AS:10:PHE:HE2	19:AS:70:LYS:NZ	2.14	0.43
35:DA:103:A:H2'	35:DA:104:U:C6	2.53	0.43
55:DY:14:LEU:O	55:DY:72:VAL:HA	2.17	0.43
55:DY:34:LYS:O	55:DY:35:TYR:HB3	2.18	0.43
4:AD:30:LYS:HA	4:AD:35:ARG:HD2	1.99	0.43
6:AF:72:VAL:O	6:AF:75:LEU:HB2	2.18	0.43
35:DA:1916:A:H3'	35:DA:1917:U:H6	1.82	0.43
35:DA:564:C:H2'	35:DA:565:C:H6	1.75	0.43
3:AC:172:ARG:NH1	3:AC:172:ARG:HB3	2.33	0.43
35:DA:510:C:OP1	35:DA:511:U:OP2	2.36	0.43
25:CY:105:PRO:O	25:CY:106:LEU:HD23	2.19	0.43
25:CY:171:LYS:HD3	25:CY:171:LYS:HA	1.83	0.43
1:CA:953:G:O2'	1:CA:954:G:H5'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1328:C:P	21:AU:21:TYR:HH	2.42	0.43
1:AA:452:A:H4'	16:AP:72:ARG:CZ	2.48	0.43
25:AY:132:ILE:O	25:AY:136:ALA:HB2	2.19	0.43
7:CG:62:PHE:CG	7:CG:62:PHE:O	2.71	0.43
1:AA:552:U:H2'	1:AA:553:A:C8	2.53	0.43
12:AL:28:LYS:O	12:AL:30:ALA:N	2.51	0.43
35:BA:2173:A:P	35:BA:2173:A:H3'	2.58	0.43
35:BA:975(A):G:N3	35:BA:1156:A:H2	2.15	0.43
11:AK:92:GLU:HA	11:AK:95:ILE:HG12	2.01	0.43
35:BA:1309:G:H2'	35:BA:1310:G:C5'	2.48	0.43
8:CH:120:THR:C	8:CH:122:ARG:H	2.21	0.43
1:AA:1340:A:OP2	23:AW:36:A:H5'	2.17	0.43
23:AW:39:A:H2'	23:AW:40:C:C5'	2.47	0.43
35:DA:260:G:N3	35:DA:260:G:H2'	2.32	0.43
35:DA:619:G:H5''	35:DA:620:G:OP2	2.18	0.43
35:DA:598:G:C6	35:DA:660:G:C6	3.06	0.43
1:AA:640:A:H2'	1:AA:641:U:H5'	2.00	0.43
8:AH:127:LEU:HD13	8:AH:127:LEU:C	2.39	0.43
2:CB:115:LEU:HD21	2:CB:153:ARG:NE	2.32	0.43
1:CA:381:C:H2'	1:CA:382:A:O4'	2.18	0.43
9:CI:116:LYS:HA	9:CI:121:ARG:O	2.18	0.43
8:AH:14:ARG:HH11	8:AH:14:ARG:HB3	1.82	0.43
8:AH:36:LEU:O	8:AH:37:ARG:C	2.57	0.43
39:DE:132:HIS:O	39:DE:135:HIS:CD2	2.72	0.43
8:CH:12:ARG:HA	8:CH:15:ASN:HD22	1.82	0.43
8:CH:51:VAL:HG11	8:CH:60:ARG:CG	2.45	0.43
8:CH:85:ARG:HH11	8:CH:85:ARG:HG3	1.83	0.43
5:AE:150:ARG:HB2	5:AE:150:ARG:CZ	2.46	0.43
29:B3:9:VAL:HG23	29:B3:10:LYS:N	2.33	0.43
1:CA:521:G:O2'	1:CA:522:C:H5'	2.18	0.43
33:D7:34:ARG:O	33:D7:36:GLN:N	2.52	0.43
38:BD:133:LEU:HB3	38:BD:173:VAL:HG11	2.00	0.43
35:DA:1263:U:C5	35:DA:1264:G:C6	3.06	0.43
53:DW:14:PRO:O	53:DW:15:ARG:C	2.56	0.43
16:CP:77:ALA:HB3	16:CP:79:VAL:HG23	2.00	0.43
15:AO:11:VAL:O	15:AO:14:GLU:HB3	2.18	0.43
38:DD:134:ARG:C	38:DD:136:ILE:H	2.21	0.43
1:AA:780:A:H2	1:AA:803:G:C6	2.36	0.43
11:CK:65:ALA:HB1	11:CK:98:LEU:HD23	2.01	0.43
53:BW:84:ARG:HB2	53:BW:96:ILE:CG2	2.48	0.43
35:DA:724:U:C2'	35:DA:725:G:H5'	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2199:A:H2'	35:DA:2199:A:N3	2.33	0.43
23:AW:49:C:H2'	23:AW:60:A:H4'	1.99	0.43
35:BA:723:G:C6	35:BA:724:U:C4	3.06	0.43
13:AM:19:LEU:C	13:AM:22:ILE:HD13	2.39	0.43
17:CQ:59:ILE:HG23	17:CQ:71:PHE:HB3	2.00	0.43
17:CQ:74:LEU:HD12	17:CQ:75:ARG:CG	2.41	0.43
40:DF:9:ILE:HG12	40:DF:15:SER:N	2.32	0.43
35:DA:323:G:C3'	40:DF:169:ASN:HD21	2.30	0.43
1:AA:969:A:O2'	1:AA:970:C:H5'	2.17	0.43
1:CA:61:G:O2'	1:CA:62:U:H5'	2.18	0.43
43:DI:54:GLN:HA	43:DI:57:ARG:HB3	2.00	0.43
1:CA:460:G:N2	1:CA:472:A:H62	2.15	0.43
1:AA:722:A:O2'	1:AA:723:U:C6	2.70	0.43
29:B3:14:GLY:H	29:B3:20:LYS:NZ	2.15	0.43
2:AB:22:LYS:O	2:AB:24:TRP:N	2.51	0.43
48:BR:4:LEU:HD22	48:BR:4:LEU:O	2.18	0.43
48:BR:4:LEU:O	48:BR:6:SER:N	2.51	0.43
1:CA:763:G:C5	1:CA:764:C:C5	3.06	0.43
35:BA:154:G:C6	35:BA:173:G:C6	3.06	0.43
16:AP:27:LYS:N	16:AP:27:LYS:HD2	2.28	0.43
35:DA:1525:G:H2'	35:DA:1526:G:C8	2.53	0.43
1:AA:1387:G:C6	1:AA:1388:C:N4	2.87	0.43
35:DA:2008:C:H2'	35:DA:2009:G:H8	1.82	0.43
1:AA:302:G:N3	1:AA:556:C:H4'	2.33	0.43
7:AG:25:ALA:CA	7:AG:28:ASN:HD22	2.31	0.43
35:DA:605:C:H2'	35:DA:606:U:H6	1.83	0.43
17:CQ:11:VAL:HG23	17:CQ:20:THR:CG2	2.49	0.43
10:CJ:3:LYS:O	10:CJ:100:THR:HA	2.19	0.43
35:BA:431:U:C2'	35:BA:432:A:H5'	2.48	0.43
10:CJ:23:ILE:HG23	10:CJ:85:LEU:HD22	2.00	0.43
35:BA:2880:C:H1'	48:BR:92:GLY:O	2.18	0.43
1:AA:50:A:N3	1:AA:52:G:H1'	2.34	0.43
29:D3:35:ARG:HG3	29:D3:35:ARG:NH1	2.33	0.43
37:BC:21:THR:O	37:BC:22:ILE:C	2.57	0.43
31:B5:15:ARG:HA	31:B5:18:ALA:HB2	1.98	0.43
31:B5:15:ARG:HH11	31:B5:15:ARG:HG3	1.83	0.43
1:AA:1151:A:C4	1:AA:1152:A:N7	2.86	0.43
23:CW:25:U:H2'	23:CW:26:C:O4'	2.18	0.43
35:BA:1766:U:H2'	35:BA:1767:C:C6	2.52	0.43
51:DU:14:HIS:C	51:DU:16:LYS:N	2.70	0.43
1:CA:1164:G:C2'	1:CA:1165:C:H5'	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:86:GLY:N	11:AK:112:THR:HG23	2.32	0.43
1:CA:355:C:C2	1:CA:356:A:C8	3.06	0.43
35:BA:1469:A:C2'	35:BA:1470:G:H5'	2.47	0.43
1:AA:290:C:O2'	1:AA:291:C:H5'	2.18	0.43
55:BY:84:ARG:C	55:BY:85:VAL:CG2	2.85	0.43
35:BA:121:G:H2'	35:BA:122:G:C8	2.52	0.43
35:BA:410:G:C2	35:BA:418:G:C2	3.05	0.43
35:BA:1668:A:C5	35:BA:1674:G:C5	3.06	0.43
47:DQ:77:LYS:HA	47:DQ:78:PRO:HD3	1.83	0.43
1:CA:189(B):C:H2'	1:CA:189(C):C:H6	1.82	0.43
8:AH:50:ARG:H	8:AH:50:ARG:HG3	1.61	0.43
54:DX:43:VAL:C	54:DX:45:THR:N	2.71	0.43
35:BA:2586:C:O2'	35:BA:2587:A:H5'	2.18	0.43
15:CO:3:ILE:HG13	15:CO:3:ILE:O	2.18	0.43
9:CI:125:TYR:C	9:CI:125:TYR:CD2	2.91	0.43
32:B6:44:ARG:HG2	32:B6:44:ARG:HH11	1.84	0.43
35:DA:2566:A:C6	45:DO:28:SER:HB2	2.53	0.43
45:DO:1:MET:CG	45:DO:32:TYR:CD2	2.95	0.43
50:DT:51:ARG:O	50:DT:61:PHE:HA	2.19	0.43
41:DG:14:GLU:OE1	41:DG:15:VAL:HG23	2.17	0.43
38:BD:53:PHE:HB3	38:BD:218:ARG:HB2	2.00	0.43
5:CE:12:LEU:C	5:CE:12:LEU:HD22	2.39	0.43
1:CA:1397:C:N3	24:CX:22:U:C6	2.86	0.43
35:DA:1803:A:H4'	38:DD:259:THR:CG2	2.48	0.43
35:DA:2300:G:H1	35:DA:2316:C:N4	2.10	0.43
35:DA:2313:C:OP1	41:DG:71:THR:HG21	2.19	0.43
41:DG:136:ARG:O	41:DG:136:ARG:HD3	2.17	0.43
41:DG:96:ARG:HA	41:DG:99:MET:HE2	2.01	0.43
35:BA:2727:G:C5	35:BA:2728:U:H5	2.36	0.43
45:BO:1:MET:H3	45:BO:1:MET:CE	2.30	0.43
50:BT:35:LYS:NZ	50:BT:41:ARG:HE	2.13	0.43
50:BT:72:VAL:CG1	50:BT:73:GLU:N	2.81	0.43
36:BB:74:U:C5	36:BB:75:G:N7	2.87	0.43
35:DA:2574:G:C5	35:DA:2575:C:C5	3.07	0.43
39:BE:79:ARG:NH1	39:BE:79:ARG:HG2	2.32	0.43
44:BN:46:VAL:CG2	44:BN:48:MET:HG3	2.48	0.43
42:DH:86:GLU:HA	42:DH:132:ARG:CB	2.48	0.43
10:AJ:49:VAL:HG11	14:AN:41:ARG:HB2	2.01	0.43
28:B2:51:ARG:HD3	28:B2:51:ARG:C	2.39	0.43
39:DE:49:LEU:N	39:DE:49:LEU:CD2	2.77	0.43
41:BG:174:GLU:C	41:BG:176:LEU:H	2.22	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:69:ALA:O	41:BG:90:LEU:HA	2.18	0.43
28:D2:14:ARG:HE	28:D2:15:LYS:N	2.15	0.43
54:DX:53:LYS:CE	54:DX:55:ASN:HD21	2.32	0.43
54:DX:77:LYS:HA	54:DX:77:LYS:CE	2.46	0.43
34:D8:32:LEU:HD23	34:D8:35:GLN:C	2.39	0.43
34:D8:35:GLN:HE21	34:D8:36:LYS:HZ3	1.66	0.43
56:DZ:116:VAL:HG12	56:DZ:117:LEU:N	2.31	0.43
56:DZ:5:LEU:O	56:DZ:59:LEU:HA	2.19	0.43
56:DZ:6:LYS:CB	56:DZ:8:TYR:CE1	2.98	0.43
35:DA:994:C:H1'	52:DV:10:LYS:HE2	2.00	0.43
52:DV:34:GLU:O	52:DV:62:LEU:HG	2.19	0.43
47:DQ:48:GLU:O	47:DQ:49:ALA:C	2.56	0.43
1:CA:1319:A:OP2	19:CS:5:LEU:HD23	2.18	0.43
45:DO:113:LYS:HA	45:DO:116:SER:OG	2.19	0.43
49:BS:106:ARG:NH1	49:BS:107:GLU:O	2.51	0.43
49:BS:26:LEU:N	49:BS:88:ASP:HB2	2.33	0.43
1:CA:404:U:C2	1:CA:405:U:C5	3.07	0.43
4:CD:79:PHE:HE1	4:CD:204:ILE:HA	1.82	0.43
4:CD:72:GLU:O	4:CD:76:ARG:HB2	2.19	0.43
35:BA:1022:G:O2'	35:BA:1023:U:OP2	2.32	0.43
3:CC:154:SER:O	3:CC:165:THR:HA	2.19	0.43
40:BF:32:LEU:O	40:BF:35:GLU:CB	2.67	0.43
40:BF:45:ARG:NH1	40:BF:97:TYR:CE2	2.87	0.43
35:DA:243:U:C2'	35:DA:244:A:H5'	2.48	0.43
34:B8:59:LYS:CB	34:B8:59:LYS:NZ	2.75	0.43
35:BA:1195:G:C2	35:BA:1196:C:C5	3.07	0.43
35:BA:562:U:C2'	35:BA:563:G:OP2	2.66	0.43
48:DR:49:ASP:O	48:DR:52:ILE:N	2.51	0.43
48:DR:60:LEU:HA	48:DR:63:ARG:HB2	2.00	0.43
48:DR:73:VAL:HG23	48:DR:74:LYS:N	2.33	0.43
35:BA:2714:G:C6	35:BA:2715:C:N3	2.87	0.43
48:BR:20:LEU:O	48:BR:21:TYR:C	2.54	0.43
48:BR:34:ILE:HG22	48:BR:35:THR:H	1.84	0.43
1:CA:908:A:C2'	1:CA:909:A:H8	2.08	0.43
49:DS:26:LEU:N	49:DS:88:ASP:HB2	2.34	0.43
6:CF:33:TYR:CE1	6:CF:75:LEU:HA	2.53	0.43
2:CB:71:VAL:O	2:CB:164:VAL:HG13	2.17	0.43
52:DV:75:PHE:HD1	52:DV:87:HIS:HB3	1.81	0.43
4:AD:177:ASP:O	4:AD:177:ASP:OD1	2.36	0.43
4:AD:92:VAL:O	4:AD:93:PHE:C	2.56	0.43
1:AA:1489:G:C4	1:AA:1490:C:C5	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:AS:36:ARG:HH11	19:AS:36:ARG:HB3	1.83	0.43
1:AA:582:U:H2'	1:AA:583:A:H8	1.83	0.43
1:AA:544:G:C5	1:AA:545:C:C5	3.06	0.43
43:DI:109:ILE:HD12	43:DI:111:PRO:HD3	2.00	0.43
35:DA:869:G:C4	35:DA:870:A:C8	3.06	0.43
1:CA:1497:G:HO2'	1:CA:1518:A:H2	1.65	0.43
1:CA:1518:A:N1	1:CA:1519:A:C6	2.86	0.43
35:DA:2020:A:C5	35:DA:2022:U:C5	3.06	0.43
35:DA:514:A:C2	35:DA:515:A:C4	3.06	0.43
25:CY:123:GLU:O	25:CY:126:ARG:HB2	2.18	0.43
25:CY:152:ASP:O	25:CY:155:LYS:HB2	2.18	0.43
25:AY:29:ARG:HA	25:AY:32:ARG:HE	1.83	0.43
25:AY:87:ASP:O	25:AY:88:LEU:C	2.56	0.43
12:AL:27:LEU:C	12:AL:29:GLY:N	2.71	0.43
51:BU:36:ARG:HG2	51:BU:40:PHE:CE2	2.52	0.43
11:CK:88:GLY:C	11:CK:91:ARG:HB2	2.38	0.43
25:AY:150:SER:OG	26:B0:7:LEU:CB	2.67	0.43
35:BA:2495:G:C6	35:BA:2496:C:C4	3.06	0.43
47:BQ:81:VAL:CG2	47:BQ:82:ARG:HG2	2.47	0.43
33:B7:34:ARG:NH1	35:BA:466:A:OP1	2.52	0.43
43:BI:93:THR:N	43:BI:96:ASP:OD2	2.51	0.43
35:DA:1245:G:OP1	46:DP:16:ARG:NE	2.51	0.43
20:AT:97:ALA:HA	20:AT:98:PRO:HD3	1.87	0.43
18:AR:62:GLU:O	18:AR:63:GLN:C	2.57	0.43
9:AI:17:VAL:HA	9:AI:63:ILE:HG23	1.99	0.43
8:CH:111:ILE:N	8:CH:135:CYS:O	2.51	0.43
8:CH:28:ALA:O	8:CH:29:SER:HB2	2.18	0.43
35:DA:2886:G:H2'	35:DA:2887:U:C6	2.54	0.43
18:CR:53:ARG:NH2	18:CR:60:ALA:CA	2.81	0.43
29:B3:6:VAL:HG12	29:B3:56:VAL:HA	2.00	0.43
35:BA:272(C):G:H1	35:BA:365:C:H42	1.66	0.43
35:BA:2755:C:H6	35:BA:2755:C:H3'	1.83	0.43
35:DA:1174:A:OP2	35:DA:1175:U:H5''	2.19	0.43
1:AA:1169:A:C2	1:AA:1170:A:C4	3.06	0.43
46:BP:107:LYS:C	46:BP:109:GLY:N	2.71	0.43
46:BP:95:VAL:HG23	46:BP:125:VAL:CG2	2.48	0.43
35:BA:322:A:OP1	40:BF:168:ARG:HD3	2.19	0.43
35:DA:491:G:C4	35:DA:492:A:C8	3.06	0.43
35:DA:493:G:HO2'	53:DW:8:ARG:H	1.65	0.43
1:AA:779:C:O2'	11:AK:120:ARG:HD3	2.18	0.43
6:CF:54:LYS:O	6:CF:56:PRO:HD3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:769:G:H2'	35:DA:770:G:H8	1.83	0.43
39:BE:103:ASP:OD1	39:BE:201:THR:HA	2.19	0.43
55:BY:7:VAL:HB	55:BY:8:LYS:NZ	2.33	0.43
2:AB:180:LEU:C	2:AB:182:ILE:H	2.21	0.43
35:BA:708:C:H5'	35:BA:709:U:OP2	2.18	0.43
1:CA:391:G:C6	1:CA:392:G:N7	2.86	0.43
1:AA:933:G:OP2	7:AG:3:ARG:HB3	2.19	0.43
1:AA:267:C:OP2	17:AQ:67:LYS:HD2	2.18	0.43
26:D0:25:ARG:HG3	26:D0:29:GLN:HE21	1.81	0.43
20:CT:13:LEU:HD13	20:CT:14:LYS:N	2.33	0.43
20:CT:24:LEU:O	20:CT:27:LYS:N	2.52	0.43
38:DD:145:VAL:HG12	38:DD:146:GLU:H	1.82	0.43
1:CA:723:U:H5''	1:CA:724:G:OP2	2.18	0.43
29:B3:19:GLN:C	29:B3:21:ALA:H	2.21	0.43
8:AH:53:VAL:HG12	8:AH:54:ASP:OD2	2.19	0.43
1:CA:1480:G:H2'	1:CA:1481:U:H6	1.83	0.43
1:AA:1365:G:H2'	1:AA:1366:C:O4'	2.17	0.43
35:BA:2487:G:O2'	35:BA:2488:A:H5'	2.18	0.43
36:DB:81:G:H5'	36:DB:82:G:OP2	2.18	0.43
36:BB:81:G:H4'	36:BB:81:G:OP1	2.18	0.43
35:DA:191:A:C2	35:DA:192:C:C4	3.07	0.43
25:CY:45:TYR:HB2	25:CY:78:ALA:CB	2.46	0.43
1:CA:811:C:H4'	1:CA:900:A:H62	1.80	0.43
32:D6:40:CYS:SG	32:D6:45:LYS:HD2	2.59	0.43
35:DA:884:C:H4'	35:DA:892:G:C8	2.54	0.43
26:B0:75:LEU:HD23	26:B0:75:LEU:O	2.18	0.43
37:BC:184:LYS:C	37:BC:186:ALA:N	2.71	0.43
35:BA:1526:G:H2'	35:BA:1527:G:O4'	2.18	0.43
29:B3:22:ALA:O	29:B3:26:LEU:HG	2.18	0.43
53:BW:77:ASP:O	53:BW:102:HIS:HB2	2.18	0.43
40:BF:26:ALA:HB1	40:BF:27:GLU:OE1	2.18	0.43
3:CC:92:ALA:HB2	3:CC:99:VAL:HG22	1.99	0.43
35:DA:1306:C:H2'	35:DA:1307:A:H8	1.83	0.43
38:DD:199:ALA:O	38:DD:201:HIS:N	2.52	0.43
38:DD:75:ILE:HG21	38:DD:99:ASP:HB2	2.01	0.43
1:AA:189(E):U:O2'	1:AA:189(F):U:H5'	2.18	0.43
35:DA:1474:C:H3'	35:DA:1475:G:H8	1.83	0.43
1:CA:1332:A:C2	1:CA:1333:A:C5	3.07	0.43
1:AA:44:G:C2	1:AA:399:G:C2	3.07	0.43
1:AA:23:C:C2'	1:AA:24:U:H5'	2.48	0.43
1:CA:24:U:O2'	1:CA:25:C:H5'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1035:U:H5''	42:BH:59:ARG:NH1	2.33	0.43
13:AM:124:PRO:HB2	13:AM:125:ARG:H	1.63	0.43
36:BB:70:C:O2'	36:BB:71:C:H5'	2.19	0.43
12:AL:95:GLY:O	12:AL:97:ARG:N	2.51	0.43
45:DO:61:VAL:O	45:DO:61:VAL:HG13	2.18	0.43
14:CN:34:TYR:O	14:CN:36:PHE:N	2.52	0.43
35:BA:1800:C:N3	35:BA:1818:U:O2	2.51	0.43
38:DD:271:ILE:O	38:DD:272:ALA:O	2.37	0.43
38:DD:57:GLY:O	38:DD:58:HIS:O	2.35	0.43
41:DG:139:LEU:HD22	41:DG:146:TYR:CD1	2.53	0.43
41:DG:161:THR:HG22	41:DG:163:ALA:CB	2.49	0.43
45:BO:104:ARG:HH21	50:BT:33:LYS:CE	2.31	0.43
45:BO:64:ARG:HB2	45:BO:64:ARG:HH11	1.84	0.43
1:AA:1065:U:O2'	1:AA:1066:C:OP2	2.26	0.43
35:BA:998:C:OP2	51:BU:93:LYS:NZ	2.48	0.43
42:DH:127:GLU:CB	42:DH:130:ARG:HB3	2.49	0.43
42:DH:160:LYS:O	42:DH:163:TYR:CE1	2.71	0.43
42:DH:89:ILE:HD13	42:DH:90:LYS:N	2.33	0.43
54:BX:60:ARG:CB	54:BX:72:LYS:H	2.30	0.43
35:DA:2633:G:H5'	35:DA:2811:G:O2'	2.18	0.43
35:DA:1861:G:H2'	35:DA:1862:G:H8	1.83	0.43
35:BA:2205:C:C2	35:BA:2220:G:N1	2.87	0.43
41:BG:138:GLN:HG3	41:BG:152:LEU:HD22	2.00	0.43
41:BG:5:VAL:CG1	41:BG:6:ALA:H	2.08	0.43
55:DY:86:ARG:NH2	55:DY:95:LYS:NZ	2.66	0.43
28:D2:47:ASN:O	28:D2:48:HIS:C	2.56	0.43
35:DA:93:G:H2'	35:DA:94:C:O4'	2.18	0.43
54:DX:75:ASP:O	54:DX:76:ARG:HG3	2.19	0.43
42:BH:149:ARG:HH21	42:BH:154:PRO:HG3	1.84	0.43
47:DQ:134:ARG:CG	47:DQ:135:ASP:H	2.15	0.43
56:DZ:10:ARG:CG	56:DZ:38:TYR:HD2	2.30	0.43
56:DZ:45:ASP:C	56:DZ:49:ARG:HG2	2.38	0.43
51:DU:92:ARG:HG3	51:DU:94:ASN:H	1.82	0.43
51:DU:92:ARG:CZ	52:DV:11:GLN:H	2.31	0.43
38:DD:235:GLY:O	38:DD:237:GLU:HG2	2.19	0.43
1:CA:1320:C:H5'	19:CS:70:LYS:HD3	2.00	0.43
45:DO:115:VAL:O	45:DO:118:ALA:HB3	2.19	0.43
49:BS:37:ALA:O	49:BS:38:GLN:HB2	2.18	0.43
49:BS:69:VAL:CG1	49:BS:70:GLY:N	2.81	0.43
1:CA:407:G:N1	1:CA:408:A:C5	2.87	0.43
35:BA:225:A:H2'	35:BA:226:G:O4'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:258:G:C6	35:BA:259:G:C5	3.06	0.43
34:D8:29:LYS:HZ1	34:D8:44:LYS:HB3	1.84	0.43
34:D8:30:ARG:HH21	46:DP:62:LEU:HD23	1.82	0.43
51:BU:8:VAL:O	51:BU:9:VAL:C	2.57	0.43
40:DF:2:LYS:HG3	40:DF:25:PRO:CB	2.23	0.43
35:BA:1586:A:N1	35:BA:1587:A:C4	2.86	0.43
47:BQ:90:VAL:HG12	47:BQ:90:VAL:O	2.18	0.43
39:DE:108:SER:O	39:DE:162:ALA:HA	2.17	0.43
48:DR:31:HIS:O	48:DR:33:ARG:N	2.49	0.43
1:AA:107:G:H2'	1:AA:108:G:H5'	2.00	0.43
1:AA:1423:G:C6	1:AA:1424:C:C4	3.06	0.43
2:CB:77:ALA:HB1	2:CB:211:ILE:HD13	2.00	0.43
44:DN:55:VAL:CG1	44:DN:126:PRO:HA	2.48	0.43
15:CO:32:LEU:O	15:CO:36:ILE:HG13	2.18	0.43
34:D8:22:VAL:CB	34:D8:53:PRO:HB2	2.36	0.43
34:D8:4:MET:CE	34:D8:61:LEU:HD12	2.48	0.43
40:DF:63:LYS:HA	40:DF:76:GLY:O	2.19	0.43
52:DV:70:ILE:CG2	52:DV:90:PRO:HB2	2.48	0.43
4:AD:148:VAL:O	4:AD:149:ALA:O	2.36	0.43
4:AD:39:PRO:HB3	4:AD:40:PRO:HD2	2.01	0.43
47:DQ:16:ARG:HH11	47:DQ:16:ARG:CB	2.30	0.43
1:CA:1402:C:H2'	1:CA:1403:C:C5'	2.49	0.43
35:DA:1916:A:H3'	35:DA:1917:U:C6	2.53	0.43
3:AC:173:VAL:O	3:AC:173:VAL:CG1	2.63	0.43
25:CY:3:LEU:O	25:CY:5:GLU:N	2.51	0.43
35:DA:404:C:C3'	35:DA:405:U:H5'	2.47	0.43
44:BN:15:LEU:C	44:BN:15:LEU:HD13	2.38	0.43
25:AY:64:ARG:NE	25:AY:64:ARG:HA	2.34	0.43
7:AG:92:SER:CB	7:AG:94:ARG:HE	2.31	0.43
25:AY:174:GLN:NE2	25:AY:175:LEU:N	2.67	0.43
1:CA:584:G:O2'	1:CA:585:G:H5'	2.19	0.43
23:CW:2:G:H21	23:CW:3:C:H1'	1.80	0.43
26:B0:32:ARG:HB2	26:B0:35:ASN:ND2	2.34	0.43
25:AY:150:SER:HB2	25:AY:152:ASP:OD1	2.18	0.43
35:BA:2283:C:C6	35:BA:2389:G:H2'	2.54	0.43
1:AA:692:U:H5	11:AK:26:ASN:CG	2.22	0.43
1:AA:956:U:H2'	1:AA:957:U:C6	2.54	0.43
5:AE:41:VAL:CG1	5:AE:113:ALA:HA	2.49	0.43
5:AE:6:PHE:HB2	5:AE:34:VAL:CG1	2.48	0.43
1:CA:1105:A:O2'	1:CA:1106:G:H5'	2.18	0.43
9:CI:8:GLY:O	9:CI:14:VAL:HG13	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AI:86:VAL:HG13	9:AI:87:GLN:N	2.33	0.43
46:DP:96:THR:HB	46:DP:97:PRO:HD2	2.01	0.43
38:BD:76:PRO:O	38:BD:98:VAL:HG23	2.18	0.43
56:BZ:140:ASP:O	56:BZ:142:SER:N	2.51	0.43
1:CA:376:G:O3'	16:CP:5:ARG:HD2	2.18	0.43
39:BE:14:ILE:O	39:BE:20:ALA:HA	2.18	0.43
38:DD:142:VAL:HA	38:DD:194:GLY:N	2.32	0.43
11:CK:30:VAL:HG23	11:CK:30:VAL:O	2.18	0.43
35:BA:2307:G:C3'	35:BA:2307:G:N3	2.78	0.43
35:BA:486:C:O2	35:BA:495:G:C2	2.72	0.43
7:AG:60:LYS:NZ	7:AG:63:LYS:HG2	2.34	0.43
2:AB:171:ALA:O	2:AB:174:VAL:N	2.51	0.43
7:AG:111:ARG:HB3	7:AG:111:ARG:HH11	1.82	0.43
1:CA:445:G:H2'	1:CA:446:G:O4'	2.19	0.43
17:CQ:60:ILE:HB	17:CQ:74:LEU:HD23	1.99	0.43
40:DF:170:LEU:HD23	40:DF:173:VAL:HB	2.00	0.43
32:B6:15:GLU:CD	32:B6:18:ARG:HG3	2.39	0.43
35:BA:49:A:C6	35:BA:177:G:C5	3.06	0.43
35:BA:2801:A:O2'	35:BA:2895:U:C4'	2.66	0.43
1:CA:1253:G:OP1	10:CJ:44:VAL:HG11	2.18	0.43
1:CA:731:G:O2'	1:CA:732:C:H5'	2.18	0.43
35:DA:207:A:H2'	35:DA:208:C:O4'	2.19	0.43
13:CM:36:LYS:O	13:CM:37:THR:HG23	2.17	0.43
1:AA:1296:C:H4'	1:AA:1302:U:O4	2.18	0.43
35:DA:1340:U:C5	35:DA:1603:A:C1'	3.01	0.43
1:AA:741:G:C2'	1:AA:742:G:O4'	2.66	0.43
48:DR:99:LYS:C	48:DR:100:LEU:HD22	2.39	0.43
38:DD:139:GLY:O	38:DD:140:THR:C	2.57	0.43
11:CK:79:SER:HA	11:CK:104:GLN:HB3	2.00	0.43
1:CA:1296:C:H3'	1:CA:1297:C:C6	2.52	0.43
36:DB:99:G:O2'	36:DB:100:A:O4'	2.30	0.43
1:CA:1089:G:H1	1:CA:1096:C:H42	1.66	0.43
1:CA:1095:U:H2'	1:CA:1096:C:H6	1.82	0.43
35:DA:1289:C:C2	35:DA:1290:C:C5	3.07	0.43
35:DA:2488:A:O2'	35:DA:2489:G:H5'	2.18	0.43
35:DA:1835:G:H2'	35:DA:1835:G:N3	2.33	0.43
52:BV:1:MET:CE	52:BV:46:VAL:HG23	2.47	0.43
40:BF:10:PRO:CG	40:BF:13:SER:OG	2.67	0.43
35:DA:186:G:C2'	35:DA:187:G:H5'	2.48	0.43
1:AA:246:A:O3'	1:AA:247:G:H4'	2.19	0.43
35:BA:880:G:N1	35:BA:898:C:N4	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:BW:27:LYS:H	53:BW:71:VAL:HB	1.82	0.43
35:BA:1406:U:H2'	35:BA:1407:C:C6	2.54	0.43
7:CG:18:TYR:HE1	7:CG:44:TYR:CE2	2.36	0.43
10:CJ:22:LYS:C	10:CJ:22:LYS:HD2	2.39	0.43
23:CW:8:U:O4	23:CW:14:A:N7	2.51	0.43
36:BB:24:G:H4'	36:BB:25:A:N7	2.34	0.43
40:DF:22:ALA:HB1	40:DF:26:ALA:CB	2.47	0.43
43:BI:29:TYR:C	43:BI:32:PRO:HD2	2.39	0.43
35:DA:738:G:C2'	35:DA:739:G:H5'	2.48	0.43
37:BC:82:LYS:O	37:BC:83:ILE:HD13	2.19	0.43
35:DA:1128:A:H2	35:DA:2516:G:N3	2.15	0.43
35:DA:827:U:H2'	35:DA:2068:U:H3	1.83	0.43
35:DA:2824:C:H2'	35:DA:2825:C:O4'	2.19	0.43
25:CY:180:GLU:O	25:CY:181:GLN:C	2.56	0.43
47:DQ:42:ILE:N	47:DQ:42:ILE:HD12	2.33	0.43
36:BB:43:C:H3'	36:BB:44:G:H5'	2.00	0.43
1:CA:44:G:H2'	1:CA:45:U:O4'	2.18	0.43
11:CK:92:GLU:HA	11:CK:95:ILE:HG12	2.00	0.43
35:DA:2718:G:O2'	35:DA:2719:G:H5'	2.18	0.43
35:DA:785:G:C5	35:DA:786:C:C5	3.06	0.43
21:CU:7:ARG:O	21:CU:21:TYR:HD2	2.01	0.43
35:DA:2322:A:H2'	35:DA:2323:G:O4'	2.18	0.43
1:CA:27:G:H2'	1:CA:28:G:O4'	2.18	0.43
1:AA:152:A:N6	1:AA:170:U:C2	2.87	0.43
35:DA:2228:G:H2'	35:DA:2229:C:C6	2.53	0.43
35:BA:1632:A:C6	35:BA:1633:G:C6	3.06	0.43
35:DA:2483:C:O2	35:DA:2483:C:H2'	2.18	0.43
35:BA:1511:C:H2'	35:BA:1512:U:C6	2.53	0.43
1:CA:890:G:N2	1:CA:906:G:H2'	2.33	0.43
35:DA:1507:A:C2	35:DA:1508:A:H1'	2.54	0.43
35:DA:2714:G:C6	35:DA:2715:C:N3	2.86	0.43
50:DT:115:ARG:HB3	50:DT:116:ALA:H	1.67	0.43
1:CA:971:G:H5''	1:CA:972:C:H5''	2.01	0.43
1:CA:972:C:C4'	10:CJ:57:LYS:CG	2.91	0.43
41:DG:18:GLU:HA	41:DG:18:GLU:OE1	2.18	0.43
35:DA:1800:C:OP1	38:DD:264:LYS:NZ	2.51	0.43
38:DD:61:LEU:O	38:DD:63:ARG:NH1	2.51	0.43
41:DG:135:LEU:HB3	41:DG:155:MET:HG2	2.01	0.43
41:DG:39:ILE:O	41:DG:39:ILE:HG12	2.18	0.43
34:B8:35:GLN:NE2	34:B8:36:LYS:NZ	2.67	0.43
35:BA:1997:G:C2	35:BA:1998:G:N7	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BO:105:GLU:O	45:BO:108:GLU:HB2	2.19	0.43
45:BO:23:ARG:HG3	45:BO:24:VAL:N	2.33	0.43
56:BZ:91:LEU:HD23	56:BZ:130:PRO:HG3	2.00	0.43
39:BE:65:GLY:O	39:BE:66:HIS:C	2.57	0.43
35:DA:1495:A:H2	35:DA:1496:A:C4	2.36	0.43
35:BA:537:C:C2	35:BA:538:G:C8	3.06	0.43
51:BU:92:ARG:HG3	51:BU:94:ASN:H	1.83	0.43
54:BX:72:LYS:O	54:BX:73:ARG:CB	2.67	0.43
35:DA:2805:G:H2'	35:DA:2807:G:C8	2.54	0.43
27:B1:18:ILE:HA	27:B1:44:PRO:HD2	2.00	0.43
27:B1:72:GLU:O	27:B1:76:ARG:NH2	2.51	0.43
35:BA:2314:C:H2'	35:BA:2315:G:C8	2.50	0.43
41:BG:169:ALA:C	41:BG:171:ALA:N	2.70	0.43
55:DY:81:LYS:HA	55:DY:82:PRO:HD3	1.86	0.43
51:DU:74:LEU:HD22	51:DU:78:THR:CG2	2.48	0.43
1:CA:1191:A:H5''	3:CC:4:LYS:HZ2	1.82	0.43
38:DD:14:ARG:CG	38:DD:14:ARG:NH1	2.81	0.43
38:DD:8:PRO:HB3	38:DD:14:ARG:HA	1.99	0.43
35:BA:1861:G:H2'	35:BA:1862:G:C8	2.53	0.43
4:CD:97:LEU:CD2	4:CD:97:LEU:O	2.66	0.43
35:BA:259:G:HO2'	35:BA:621:A:HO2'	1.61	0.43
3:AC:6:HIS:CD2	3:AC:8:ILE:H	2.36	0.43
35:BA:2241:A:C2	35:BA:2242:G:C5	3.06	0.43
40:BF:53:THR:N	40:BF:56:GLU:HB2	2.17	0.43
35:BA:958:U:OP2	47:BQ:14:ARG:NH1	2.51	0.43
47:BQ:16:ARG:HH11	47:BQ:16:ARG:HB3	1.78	0.43
35:DA:2819:G:H2'	35:DA:2821:A:N7	2.33	0.43
20:AT:43:LEU:O	20:AT:47:GLY:N	2.52	0.43
20:AT:84:LEU:HD13	20:AT:84:LEU:C	2.39	0.43
48:BR:44:LEU:CD1	48:BR:48:VAL:HG23	2.49	0.43
48:BR:55:ALA:HA	48:BR:80:PHE:CZ	2.54	0.43
50:BT:107:ASP:CG	50:BT:109:GLU:H	2.21	0.43
41:DG:26:GLN:N	41:DG:30:GLU:OE2	2.51	0.43
49:DS:25:ARG:HD3	49:DS:42:ASP:OD2	2.19	0.43
49:DS:83:LYS:O	49:DS:85:VAL:HG13	2.19	0.43
49:DS:92:TYR:CG	49:DS:93:LYS:N	2.83	0.43
44:DN:120:LEU:C	44:DN:120:LEU:CD1	2.86	0.43
44:BN:120:LEU:CD1	44:BN:120:LEU:C	2.87	0.43
1:CA:662:G:O2'	1:CA:836:G:C5'	2.67	0.43
35:DA:1257:C:H2'	35:DA:1258:C:H6	1.84	0.43
35:DA:833:U:H2'	35:DA:834:C:H6	1.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:869:G:H2'	35:DA:870:A:O4'	2.19	0.43
35:DA:910:A:N1	35:DA:2277:G:H1'	2.33	0.43
35:DA:532:A:H4'	35:DA:533:G:C1'	2.48	0.43
25:CY:128:ALA:O	25:CY:132:ILE:CG1	2.65	0.43
25:CY:137:LEU:O	25:CY:138:ASP:C	2.57	0.43
25:CY:167:GLU:O	25:CY:168:PHE:C	2.56	0.43
35:BA:1239:G:H2'	35:BA:1240:U:O4'	2.18	0.43
20:CT:36:LEU:O	20:CT:37:SER:C	2.56	0.43
20:CT:78:ALA:O	20:CT:81:LYS:N	2.51	0.43
35:BA:2127:G:O3'	35:BA:2128:C:C4'	2.66	0.43
35:BA:685:A:C4	35:BA:689:A:N6	2.86	0.43
35:DA:2246:G:H2'	35:DA:2247:A:H8	1.81	0.43
43:BI:111:PRO:HA	43:BI:114:LEU:CD1	2.49	0.43
55:BY:28:LYS:O	55:BY:29:GLU:C	2.57	0.43
55:BY:65:ALA:O	55:BY:67:LEU:N	2.51	0.43
1:CA:1071:C:H5''	5:CE:49:PRO:HG2	1.99	0.43
1:AA:953:G:O2'	1:AA:954:G:H5'	2.19	0.43
1:AA:954:G:C5	1:AA:955:U:C4	3.07	0.43
8:AH:120:THR:N	8:AH:123:GLU:OE1	2.52	0.43
20:AT:53:LEU:O	20:AT:56:MET:N	2.52	0.43
1:AA:514:C:N4	1:AA:537:G:H1	2.15	0.43
8:AH:46:LYS:HG3	8:AH:63:LEU:O	2.19	0.43
8:AH:26:VAL:HG12	8:AH:59:LEU:HB2	2.01	0.43
35:BA:2472:G:H5'	35:BA:2473:U:C5'	2.47	0.43
31:B5:30:LEU:HD23	31:B5:41:PRO:HA	2.00	0.43
12:AL:102:ARG:NH1	12:AL:102:ARG:CG	2.78	0.43
42:BH:12:PRO:O	42:BH:13:LYS:CB	2.67	0.43
1:AA:1368:G:H4'	14:AN:61:TRP:HZ2	1.83	0.43
54:DX:18:TYR:HA	54:DX:21:PHE:CG	2.53	0.43
35:BA:542:C:C4	35:BA:543:C:N4	2.84	0.43
46:BP:111:ARG:HA	46:BP:128:HIS:CE1	2.53	0.43
46:BP:115:LEU:HB3	46:BP:131:SER:OG	2.19	0.43
35:DA:2225:A:H4'	35:DA:2226:C:C5'	2.47	0.43
16:CP:38:TYR:CE1	16:CP:50:LYS:HB3	2.54	0.43
16:CP:48:TRP:CE3	16:CP:49:LEU:N	2.86	0.43
40:BF:164:ARG:O	40:BF:166:ALA:N	2.51	0.43
35:BA:1938:A:H4'	35:BA:1939:U:OP2	2.18	0.43
1:AA:777:A:O2'	1:AA:778:G:H5'	2.19	0.43
35:BA:1268:A:H2	53:BW:88:ARG:NH2	2.17	0.43
40:BF:178:PRO:C	40:BF:180:GLY:N	2.72	0.43
35:DA:1042:G:N3	35:DA:1114:G:N2	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:60:LYS:HD2	7:AG:63:LYS:HG2	1.99	0.43
35:DA:679:C:O2	35:DA:679:C:H2'	2.18	0.43
12:CL:41:ARG:HG2	12:CL:42:THR:H	1.83	0.43
2:AB:177:ALA:O	2:AB:180:LEU:N	2.49	0.43
35:DA:2884:U:H2'	35:DA:2885:C:C5'	2.46	0.43
35:DA:98:G:N3	35:DA:98:G:H2'	2.32	0.43
1:AA:235:C:O2'	1:AA:236:G:H5'	2.19	0.43
17:AQ:74:LEU:HD12	17:AQ:75:ARG:CG	2.42	0.43
35:BA:2171:A:O2'	35:BA:2172:U:H6	2.00	0.43
5:AE:72:GLN:OE1	5:AE:77:PRO:HA	2.18	0.43
1:CA:1466:C:O2'	1:CA:1467:G:H5'	2.18	0.43
35:DA:2189:U:H2'	35:DA:2190:G:C4'	2.49	0.43
46:DP:95:VAL:HG23	46:DP:125:VAL:CG2	2.48	0.43
13:AM:51:ALA:O	13:AM:55:ARG:HB2	2.18	0.43
26:B0:40:GLN:O	26:B0:57:PHE:HB2	2.18	0.43
11:CK:126:ARG:O	11:CK:127:LYS:C	2.56	0.43
15:AO:66:LEU:O	15:AO:69:TYR:N	2.51	0.43
1:AA:1098:C:C2	1:AA:1099:G:C8	3.06	0.43
1:CA:597:G:C6	1:CA:644:G:C6	3.07	0.43
46:BP:58:THR:O	46:BP:58:THR:HG22	2.19	0.43
31:D5:18:ALA:O	31:D5:19:ARG:C	2.55	0.43
23:AW:13:C:H42	23:AW:23:G:H1	1.66	0.43
27:B1:41:ARG:NH1	35:BA:189:G:O5'	2.51	0.43
6:CF:82:ARG:HA	6:CF:82:ARG:HH11	1.83	0.43
35:BA:2660:A:H2'	35:BA:2661:G:O4'	2.19	0.43
35:DA:171:G:C5	35:DA:172:C:C5	3.07	0.43
35:BA:1644:C:HO2'	35:BA:1645:G:H5'	1.82	0.43
35:DA:2290:G:H1	35:DA:2342:C:N4	2.17	0.43
1:AA:1288:A:O5'	1:AA:1288:A:H8	2.01	0.43
7:AG:23:VAL:C	7:AG:27:ILE:HD13	2.38	0.43
4:AD:194:LEU:O	4:AD:195:ALA:HB3	2.18	0.43
19:AS:22:LEU:HD21	19:AS:28:LYS:N	2.33	0.43
1:AA:1161:C:H2'	1:AA:1162:C:C6	2.54	0.43
1:CA:797:C:O2'	1:CA:798:G:H5'	2.19	0.43
1:CA:1163:C:H2'	1:CA:1164:G:C8	2.49	0.43
7:CG:42:ILE:HG23	7:CG:117:ALA:HA	2.00	0.43
1:CA:356:A:C4	1:CA:357:G:C8	3.06	0.43
25:CY:58:VAL:HG12	25:CY:66:LEU:HD11	1.99	0.43
3:AC:95:THR:HG22	3:AC:97:LYS:H	1.84	0.43
53:DW:9:TYR:HD2	53:DW:9:TYR:H	1.66	0.43
1:AA:792:A:N3	1:AA:794:A:C5	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:D5:9:LYS:NZ	31:D5:9:LYS:HB3	2.34	0.43
11:CK:49:GLY:C	11:CK:50:TYR:HD2	2.22	0.43
55:DY:84:ARG:O	55:DY:85:VAL:HG22	2.18	0.43
53:DW:61:ASN:HA	53:DW:61:ASN:HD22	1.55	0.43
52:BV:58:VAL:HG12	52:BV:101:GLY:C	2.38	0.43
37:DC:65:PRO:HG2	37:DC:189:ILE:CA	2.48	0.43
6:AF:100:ASN:HD22	6:AF:100:ASN:HA	1.51	0.43
25:AY:90:LEU:HD21	25:AY:104:PRO:HD2	2.01	0.43
35:BA:2553:G:H3'	35:BA:2554:U:H5''	2.01	0.43
1:AA:1146:A:C2'	1:AA:1147:C:O5'	2.67	0.43
4:CD:138:TYR:CD2	4:CD:138:TYR:C	2.92	0.43
7:CG:133:GLY:HA2	7:CG:136:LYS:HG2	2.01	0.43
5:CE:64:ARG:HH11	5:CE:64:ARG:HG3	1.83	0.43
1:CA:1328:C:P	21:CU:21:TYR:OH	2.76	0.43
26:D0:56:ASP:OD2	26:D0:58:THR:OG1	2.36	0.43
43:DI:1:MET:HB2	43:DI:21:VAL:O	2.18	0.43
35:BA:2228:G:C6	35:BA:2229:C:C4	3.07	0.43
35:DA:2330:G:H1	35:DA:2385:C:H42	1.66	0.43
1:AA:1476:G:C6	1:AA:1477:C:C4	3.07	0.43
35:DA:2540:C:N4	35:DA:2541:A:C6	2.86	0.43
30:B4:17:GLY:O	30:B4:19:GLY:N	2.39	0.43
35:BA:1145:C:H2'	35:BA:1146:C:C6	2.53	0.43
36:BB:63:G:N3	36:BB:63:G:H2'	2.32	0.43
14:AN:9:LYS:HB2	14:AN:9:LYS:HE3	1.82	0.43
1:CA:318:G:C2	1:CA:319:G:C5	3.06	0.43
35:BA:2453:A:O2'	35:BA:2454:G:H5'	2.18	0.43
12:CL:78:GLN:O	12:CL:80:HIS:N	2.51	0.43
35:DA:1638:C:H2'	35:DA:1639:U:O4'	2.17	0.43
39:DE:188:VAL:HG13	39:DE:188:VAL:O	2.19	0.43
43:BI:86:THR:O	43:BI:122:GLU:OE2	2.36	0.43
43:BI:85:GLU:HB3	43:BI:86:THR:H	1.51	0.43
1:CA:971:G:C4'	1:CA:972:C:H5''	2.43	0.43
41:DG:5:VAL:CG1	41:DG:6:ALA:N	2.61	0.43
35:BA:1778:U:H5	35:BA:1784:A:N3	2.17	0.43
35:BA:1902:C:H5'	38:BD:246:PRO:CD	2.49	0.43
38:BD:43:ARG:HB3	38:BD:54:ARG:CB	2.49	0.43
38:DD:20:ASP:OD1	38:DD:21:PHE:N	2.52	0.43
38:DD:213:ARG:C	38:DD:215:LEU:N	2.72	0.43
38:DD:240:ALA:HA	38:DD:241:PRO:HD3	1.85	0.43
38:DD:27:THR:HG21	38:DD:83:GLU:CG	2.30	0.43
35:DA:2310:A:N7	41:DG:75:LYS:NZ	2.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:28:ARG:NH2	10:CJ:34:VAL:O	2.52	0.43
35:BA:2415:G:C6	35:BA:2416:C:C4	3.07	0.43
47:DQ:20:ALA:HA	47:DQ:98:LYS:CB	2.45	0.43
35:BA:2633:G:N2	35:BA:2634:G:H1'	2.33	0.43
39:BE:4:ILE:CD1	39:BE:28:ALA:HB1	2.48	0.43
39:BE:47:VAL:CG1	39:BE:49:LEU:HD11	2.48	0.43
35:BA:1149:G:H2'	35:BA:1150:C:C6	2.54	0.43
51:BU:63:VAL:O	51:BU:64:ARG:C	2.57	0.43
42:DH:160:LYS:HB3	42:DH:161:GLY:H	1.72	0.43
1:AA:1230:C:C2'	1:AA:1231:G:H5'	2.49	0.43
39:DE:63:LEU:O	39:DE:65:GLY:N	2.52	0.43
27:B1:89:GLU:O	27:B1:93:GLU:CD	2.56	0.43
54:DX:59:VAL:HG22	54:DX:74:PRO:O	2.19	0.43
54:DX:76:ARG:O	54:DX:77:LYS:CB	2.65	0.43
42:BH:86:GLU:HA	42:BH:132:ARG:CB	2.49	0.43
35:DA:2476:A:N3	35:DA:2476:A:H2'	2.33	0.43
56:DZ:97:GLU:HB3	56:DZ:125:LEU:CD2	2.37	0.43
35:DA:2382:G:C3'	35:DA:2383:G:H5'	2.49	0.43
49:BS:51:ALA:HA	49:BS:56:LEU:HD13	2.01	0.43
1:CA:408:A:C2	1:CA:409:G:C4	3.06	0.43
4:CD:66:ARG:O	4:CD:69:GLY:N	2.51	0.43
43:DI:81:VAL:O	43:DI:83:ALA:N	2.52	0.43
47:BQ:68:ILE:N	47:BQ:68:ILE:CD1	2.79	0.43
27:D1:74:VAL:C	27:D1:76:ARG:H	2.21	0.43
46:DP:62:LEU:H	46:DP:62:LEU:HD12	1.80	0.43
27:B1:23:LYS:N	27:B1:38:SER:O	2.51	0.43
35:BA:198:C:H5'	35:BA:2244:U:OP1	2.19	0.43
35:BA:812:C:O2	35:BA:1250:G:N1	2.51	0.43
1:AA:60:A:H4'	1:AA:61:G:O5'	2.19	0.43
48:BR:12:ARG:HG3	48:BR:12:ARG:NH1	2.33	0.43
50:BT:112:ARG:C	50:BT:112:ARG:HD3	2.39	0.43
50:BT:105:LEU:O	50:BT:113:LYS:NZ	2.52	0.43
49:DS:106:ARG:HD2	49:DS:106:ARG:O	2.19	0.43
49:DS:87:PHE:CE2	49:DS:88:ASP:O	2.72	0.43
47:BQ:113:GLN:O	47:BQ:116:GLU:HB3	2.19	0.43
15:CO:87:ILE:O	15:CO:88:ARG:HB2	2.17	0.43
35:DA:1224:C:O2'	35:DA:1225:G:H5'	2.19	0.43
35:DA:792:G:N7	35:DA:2440:C:H1'	2.34	0.43
35:DA:677:A:N6	35:DA:802:A:N7	2.67	0.43
1:AA:429:U:H4'	1:AA:430:A:OP1	2.18	0.43
1:CA:1361:G:H2'	1:CA:1362:C:C6	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:5:PRO:CG	12:AL:10:LEU:HD21	2.49	0.43
12:AL:6:THR:HG23	12:AL:9:GLN:N	2.12	0.43
1:AA:502:G:C6	1:AA:503:C:C4	3.07	0.43
4:AD:14:ARG:C	4:AD:16:GLY:N	2.72	0.43
12:AL:114:LYS:HB3	12:AL:114:LYS:HE2	1.93	0.43
35:BA:402:A:C2'	35:BA:403:U:H5'	2.48	0.43
47:BQ:58:PHE:O	47:BQ:58:PHE:HD1	2.02	0.43
1:AA:450:G:OP1	1:AA:452:A:OP2	2.36	0.43
1:CA:690:G:N1	1:CA:691:G:C2	2.87	0.43
38:BD:31:LYS:HA	38:BD:31:LYS:HZ2	1.75	0.43
40:DF:160:ASN:HD21	40:DF:162:LEU:HB2	1.83	0.43
35:BA:78:A:O2'	35:BA:79:G:H5'	2.19	0.43
13:AM:92:HIS:ND1	13:AM:98:VAL:HG21	2.34	0.43
1:AA:1500:A:OP1	1:AA:1505:G:OP1	2.37	0.43
35:DA:1656:C:O2'	35:DA:1657:C:H5'	2.19	0.43
9:AI:3:GLN:HA	9:AI:19:LEU:O	2.18	0.43
16:AP:14:ASN:H	16:AP:15:PRO:CD	2.28	0.43
1:AA:563:A:H2	12:AL:15:ARG:NH1	2.17	0.43
54:DX:65:ARG:NE	54:DX:66:LEU:N	2.65	0.43
1:CA:452:A:C4	1:CA:453:A:C8	3.07	0.43
35:DA:2274:A:N6	35:DA:2276:G:C4	2.86	0.43
3:AC:104:GLN:NE2	3:AC:105:GLU:H	2.16	0.43
39:BE:103:ASP:HA	39:BE:168:MET:HA	2.00	0.43
23:AW:22:A:C6	23:AW:49:C:C2	3.07	0.43
1:AA:1459:C:C4	1:AA:1460:A:N7	2.87	0.43
17:CQ:68:ARG:HH11	17:CQ:68:ARG:HG2	1.84	0.43
1:AA:1056:U:C5'	3:AC:163:ALA:HB2	2.48	0.43
32:B6:15:GLU:O	32:B6:16:CYS:O	2.37	0.43
17:AQ:15:MET:HG2	17:AQ:16:GLN:N	2.33	0.43
3:CC:104:GLN:NE2	3:CC:105:GLU:H	2.16	0.43
1:CA:91:C:O5'	1:CA:91:C:H6	2.01	0.43
5:CE:101:ILE:HD11	5:CE:119:LEU:HD23	2.01	0.43
5:CE:73:ASN:HD22	5:CE:73:ASN:C	2.21	0.43
32:B6:28:ARG:HA	32:B6:32:ASN:CB	2.48	0.43
32:D6:32:ASN:HD22	32:D6:33:LYS:HE3	1.83	0.43
25:CY:107:THR:C	25:CY:111:ARG:NH1	2.72	0.43
13:CM:51:ALA:O	13:CM:55:ARG:HB2	2.18	0.43
1:AA:64:G:H4'	1:AA:66:G:OP1	2.18	0.43
43:BI:54:GLN:HA	43:BI:57:ARG:HB3	2.00	0.43
15:AO:85:LEU:HB2	15:AO:87:ILE:HG13	2.01	0.43
38:BD:139:GLY:O	38:BD:140:THR:C	2.56	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:475:U:O4'	35:DA:509:C:C5	2.72	0.43
44:DN:3:THR:C	44:DN:5:VAL:N	2.71	0.43
35:DA:2006:C:H2'	35:DA:2007:C:C6	2.53	0.43
1:CA:668:G:O2'	15:CO:46:HIS:CD2	2.72	0.43
25:CY:72:ASP:HB3	25:CY:75:ALA:CB	2.49	0.43
43:DI:60:GLU:C	43:DI:62:LYS:H	2.22	0.43
17:CQ:14:LYS:HB2	17:CQ:14:LYS:HZ3	1.83	0.43
13:AM:14:ARG:HB2	13:AM:16:ASP:OD2	2.18	0.43
19:AS:22:LEU:C	19:AS:22:LEU:HD13	2.37	0.43
7:CG:11:GLN:CG	7:CG:12:LEU:N	2.82	0.43
35:DA:304:G:C2	35:DA:305:U:C2	3.07	0.43
1:CA:828:A:N7	1:CA:859:A:C8	2.87	0.43
16:AP:53:VAL:HG23	16:AP:54:GLU:N	2.31	0.43
35:BA:2670:A:C2	35:BA:2671:A:C8	3.06	0.43
35:DA:730:C:O2'	35:DA:731:C:H5'	2.18	0.43
55:DY:84:ARG:C	55:DY:85:VAL:CG2	2.86	0.43
35:DA:2064:C:H1'	35:DA:2450:A:C5	2.54	0.43
40:BF:80:ALA:O	40:BF:83:PHE:HB2	2.18	0.43
35:DA:2447:G:H2'	35:DA:2500:U:OP2	2.18	0.43
35:DA:1923:U:H2'	35:DA:1924:C:C6	2.54	0.43
1:CA:55:A:N7	1:CA:56:U:C4	2.87	0.43
1:CA:318:G:H2'	1:CA:319:G:H8	1.84	0.43
1:AA:1157:A:H4'	1:AA:1158:C:O5'	2.18	0.43
1:AA:1113:C:H6	1:AA:1113:C:O5'	2.02	0.43
35:DA:2602:A:H4'	35:DA:2603:G:O5'	2.19	0.43
35:DA:483:A:N7	35:DA:497:A:H2	2.16	0.43
55:DY:43:ASN:CG	55:DY:64:GLU:HA	2.38	0.43
35:DA:2713:A:H3'	35:DA:2714:G:H5'	2.00	0.43
35:DA:2864:G:C8	35:DA:2864:G:H5'	2.47	0.43
45:DO:10:VAL:HG21	45:DO:16:ALA:O	2.18	0.43
1:CA:973:G:P	10:CJ:57:LYS:NZ	2.92	0.43
35:BA:1788:C:OP1	38:BD:222:ARG:NH2	2.52	0.43
35:DA:1826:G:H2'	35:DA:1827:C:H6	1.84	0.43
38:DD:3:VAL:HG12	38:DD:4:LYS:N	2.33	0.43
16:CP:18:ARG:HD3	16:CP:35:LYS:CD	2.46	0.43
41:DG:103:LEU:O	41:DG:107:LEU:HB2	2.18	0.43
41:DG:116:ASP:CG	41:DG:117:PHE:H	2.22	0.43
34:B8:46:ARG:NH1	34:B8:46:ARG:CB	2.60	0.43
1:AA:1442(A):G:H5'	1:AA:1442(B):A:C2	2.53	0.43
45:BO:78:ARG:HB3	50:BT:73:GLU:CG	2.48	0.43
50:BT:82:LEU:O	50:BT:83:ILE:HG12	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:136:ILE:CD1	42:DH:136:ILE:N	2.80	0.43
42:DH:83:TYR:HD1	42:DH:84:SER:N	2.16	0.43
28:B2:29:LYS:O	28:B2:32:LEU:N	2.52	0.43
28:B2:47:ASN:CG	28:B2:48:HIS:N	2.71	0.43
27:B1:62:VAL:O	27:B1:63:ALA:O	2.37	0.43
2:AB:84:GLU:HB3	2:AB:219:VAL:CG2	2.32	0.43
41:BG:110:ALA:O	41:BG:113:ARG:N	2.52	0.43
41:BG:173:LEU:HA	41:BG:176:LEU:CD1	2.27	0.43
56:DZ:147:GLY:O	56:DZ:148:ASP:CB	2.66	0.43
56:DZ:153:SER:C	56:DZ:154:ASP:OD2	2.57	0.43
56:DZ:69:THR:CG2	56:DZ:90:VAL:HG22	2.29	0.43
44:DN:38:HIS:O	44:DN:40:PRO:HD3	2.18	0.43
44:DN:46:VAL:HG11	44:DN:48:MET:CG	2.47	0.43
1:CA:984:C:H2'	1:CA:985:C:C6	2.54	0.43
19:CS:10:PHE:CE2	19:CS:70:LYS:NZ	2.87	0.43
19:CS:36:ARG:HH22	19:CS:75:ALA:CB	2.17	0.43
36:BB:7:G:H4'	49:BS:29:PHE:HE2	1.80	0.43
49:BS:31:SER:CB	49:BS:34:HIS:O	2.67	0.43
49:BS:51:ALA:HA	49:BS:56:LEU:CD1	2.48	0.43
4:CD:59:ARG:HA	4:CD:59:ARG:CZ	2.49	0.43
44:BN:62:VAL:HG21	44:BN:66:LYS:HB2	2.00	0.43
14:CN:3:ARG:O	14:CN:7:ILE:HG23	2.18	0.43
35:BA:1245:G:OP1	46:BP:16:ARG:NE	2.52	0.43
35:BA:259:G:C2	35:BA:260:G:C8	3.07	0.43
5:CE:48:ALA:O	5:CE:50:GLU:N	2.52	0.43
46:DP:65:ARG:O	46:DP:66:GLY:C	2.57	0.43
44:DN:66:LYS:HE3	44:DN:66:LYS:HA	1.99	0.43
35:BA:1195:G:C2	35:BA:1196:C:C4	3.06	0.43
35:BA:579:G:C6	35:BA:580:C:N4	2.87	0.43
35:BA:835:A:O2'	35:BA:836:G:H5'	2.19	0.43
48:DR:2:ARG:NE	48:DR:5:LYS:HZ2	2.14	0.43
1:AA:1434:A:H2'	1:AA:1435:G:H8	1.83	0.43
1:AA:61:G:H2'	1:AA:62:U:O4'	2.18	0.43
49:DS:28:VAL:H	49:DS:89:ARG:CB	2.30	0.43
49:DS:74:ALA:O	49:DS:75:GLU:C	2.57	0.43
2:AB:159:PRO:HB2	2:AB:162:ILE:HG22	2.01	0.43
2:AB:166:ASP:O	2:AB:167:PRO:O	2.37	0.43
2:CB:164:VAL:O	2:CB:186:ALA:CB	2.67	0.43
34:D8:2:PRO:HA	35:DA:591:C:O2	2.18	0.43
4:AD:172:PRO:C	4:AD:187:ARG:HH12	2.22	0.43
4:AD:98:GLU:C	4:AD:100:ARG:N	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:11:ARG:HG2	3:AC:11:ARG:NH1	2.32	0.43
19:AS:5:LEU:H	19:AS:6:LYS:NZ	2.17	0.43
55:DY:37:VAL:CG2	55:DY:38:ILE:N	2.71	0.43
1:AA:1361:G:H2'	1:AA:1362:C:C6	2.54	0.43
35:BA:366:C:H5''	35:BA:403:U:N3	2.33	0.43
43:DI:132:PRO:O	43:DI:133:HIS:O	2.36	0.43
6:AF:70:ASP:O	6:AF:71:ARG:C	2.57	0.43
18:AR:74:ARG:CZ	18:AR:81:PHE:HA	2.49	0.43
1:CA:1502:A:H2	1:CA:1505:G:H22	1.64	0.43
1:CA:781:A:H4'	1:CA:1522:U:O2'	2.19	0.43
27:B1:34:THR:O	27:B1:35:THR:HG23	2.18	0.43
21:AU:19:GLY:O	21:AU:22:ARG:O	2.36	0.43
7:CG:26:PHE:O	7:CG:30:ILE:HG12	2.19	0.43
1:CA:821:G:O2'	1:CA:822:C:H5'	2.18	0.43
16:CP:55:ARG:O	16:CP:58:TYR:HB3	2.19	0.43
25:AY:154:THR:O	25:AY:157:ALA:HB3	2.19	0.43
1:AA:706:A:N7	1:AA:707:C:H5	2.17	0.43
8:CH:114:THR:CG2	8:CH:117:GLY:O	2.67	0.43
1:AA:922:G:N3	1:AA:1396:A:C2	2.87	0.43
1:AA:920:U:C2	1:AA:921:U:C5	3.06	0.43
1:AA:15:G:O3'	5:AE:24:ARG:NH2	2.52	0.43
1:AA:1506:U:OP1	24:AX:15:G:OP1	2.37	0.43
25:CY:68:VAL:C	25:CY:98:ALA:HA	2.38	0.43
1:CA:1368:G:OP2	9:CI:112:LYS:HE3	2.18	0.43
1:AA:515:G:N2	1:AA:537:G:C4	2.87	0.43
1:AA:825:G:O2'	1:AA:826:C:H5'	2.18	0.43
8:AH:16:ALA:HB1	8:AH:63:LEU:HD21	2.01	0.43
1:CA:563:A:H2	12:CL:15:ARG:NH1	2.16	0.43
9:AI:28:VAL:O	9:AI:30:GLY:N	2.51	0.43
8:CH:5:PRO:HA	8:CH:8:ASP:HB3	2.00	0.43
35:DA:1605:C:H2'	35:DA:1606:G:O4'	2.18	0.43
7:CG:65:ALA:HB2	7:CG:124:LEU:O	2.19	0.43
35:DA:491:G:N2	35:DA:492:A:H1'	2.34	0.43
38:DD:132:PRO:HB3	38:DD:188:GLU:O	2.19	0.43
35:BA:2591:C:H6	35:BA:2591:C:O5'	2.02	0.43
1:AA:680:C:N3	1:AA:711:G:C2	2.86	0.43
1:CA:684:A:C2	11:CK:39:PRO:HG2	2.54	0.43
11:CK:99:GLN:O	11:CK:101:SER:N	2.51	0.43
35:DA:2206:G:N3	35:DA:2207:G:H5'	2.33	0.43
2:AB:105:PHE:HA	2:AB:108:ILE:CG2	2.48	0.43
35:BA:724:U:C2'	35:BA:725:G:H5'	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CN:6:LEU:C	14:CN:8:GLU:N	2.72	0.43
1:AA:932:C:H5''	7:AG:3:ARG:CD	2.37	0.43
1:AA:35:G:C4	1:AA:36:C:C5	3.06	0.43
27:D1:18:ILE:HG12	27:D1:43:TYR:HD1	1.84	0.43
20:CT:82:SER:O	20:CT:86:ARG:HB2	2.19	0.43
11:AK:99:GLN:O	11:AK:101:SER:N	2.52	0.43
26:B0:25:ARG:CB	26:B0:37:LEU:HD23	2.46	0.43
1:AA:725:G:O2'	1:AA:726:C:H5'	2.19	0.43
13:CM:33:ALA:HA	13:CM:59:TYR:CE2	2.54	0.43
13:AM:9:ILE:CD1	13:AM:9:ILE:N	2.82	0.43
35:BA:1298:C:C2'	35:BA:1299:G:C8	3.02	0.43
35:BA:1301:A:C2	35:BA:1303:G:C6	3.07	0.43
35:DA:1683:C:H2'	35:DA:1684:C:C6	2.53	0.43
38:BD:231:HIS:NE2	38:BD:249:PRO:HG3	2.33	0.43
48:BR:6:SER:HA	48:BR:8:ARG:HH21	1.79	0.43
35:DA:1569:A:O2'	35:DA:1570:A:H5'	2.19	0.43
1:AA:1496:C:H2'	1:AA:1497:G:O4'	2.19	0.43
1:CA:1479:C:H2'	1:CA:1480:G:H8	1.83	0.43
35:BA:1445(A):C:H2'	35:BA:1446:C:C6	2.52	0.43
16:AP:27:LYS:H	16:AP:27:LYS:CD	2.28	0.43
35:BA:2102:U:O4'	35:BA:2102:U:O2	2.36	0.43
1:CA:245:C:O2	1:CA:283:C:N3	2.51	0.43
35:DA:154(A):C:O2	35:DA:154(A):C:O4'	2.33	0.43
1:CA:1340:A:P	23:CW:36:A:H4'	2.58	0.43
35:DA:2543:G:O2'	35:DA:2544:G:H5'	2.19	0.43
1:CA:21:G:H2'	1:CA:22:G:C8	2.54	0.43
44:DN:128:HIS:HD2	44:DN:131:GLN:CB	2.31	0.43
7:AG:16:LEU:HD11	9:AI:42:ARG:HA	2.00	0.43
17:CQ:10:VAL:CG1	17:CQ:53:LEU:HA	2.49	0.43
35:BA:1853:A:H2'	35:BA:1854:A:O4'	2.19	0.43
1:AA:356:A:C4	1:AA:357:G:C8	3.07	0.43
29:D3:22:ALA:O	29:D3:26:LEU:HG	2.19	0.43
1:CA:630:G:H2'	1:CA:631:G:H5'	2.00	0.43
35:BA:1210:A:C8	35:BA:1237:A:N6	2.87	0.43
1:CA:786:G:C2	1:CA:797:C:O2	2.72	0.43
1:CA:357:G:O2'	1:CA:358:U:H5'	2.19	0.43
35:BA:1444:G:O6	35:BA:1466:G:C6	2.72	0.43
35:BA:1466:G:N2	35:BA:1547:C:C2	2.87	0.43
35:DA:1210:A:C8	35:DA:1237:A:N6	2.87	0.43
37:DC:184:LYS:C	37:DC:186:ALA:N	2.72	0.43
35:BA:127:A:H5''	35:BA:128:C:C6	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1358:G:N7	35:BA:1371:G:C6	2.86	0.43
1:CA:1131:G:C2	1:CA:1132:C:N4	2.87	0.43
1:CA:1132:C:C2'	1:CA:1133:G:H5'	2.49	0.43
13:AM:40:ASN:HA	13:AM:41:PRO:HD3	1.79	0.43
35:BA:392:C:H5''	35:BA:409:C:H5''	2.01	0.43
1:AA:1131:G:C2	1:AA:1132:C:N4	2.87	0.43
35:DA:1374:G:H2'	35:DA:1375:C:H6	1.83	0.43
35:DA:1560:G:OP1	35:DA:1561:G:OP2	2.37	0.43
4:AD:45:GLN:C	4:AD:46:LYS:HG3	2.39	0.43
1:CA:1011:G:H2'	1:CA:1012:U:H5'	2.01	0.43
35:BA:2447:G:H2'	35:BA:2500:U:OP2	2.18	0.43
56:BZ:47:VAL:O	56:BZ:51:ALA:CB	2.66	0.43
35:BA:1051:G:C2	35:BA:1052:C:N4	2.87	0.43
7:CG:57:GLU:C	7:CG:59:LEU:H	2.22	0.43
3:CC:190:ARG:O	3:CC:191:THR:O	2.36	0.43
12:CL:126:LYS:HA	12:CL:126:LYS:HD2	1.76	0.43
35:DA:1208:C:C4	35:DA:1209:G:N7	2.87	0.43
45:DO:105:GLU:O	45:DO:108:GLU:HB2	2.18	0.43
50:DT:48:ILE:HG22	50:DT:49:VAL:N	2.34	0.43
1:CA:1079:G:C2	1:CA:1080:A:C5	3.06	0.43
41:DG:109:VAL:C	41:DG:111:LEU:N	2.68	0.43
41:DG:130:ASN:HB3	41:DG:159:VAL:O	2.18	0.43
47:DQ:125:LEU:HB3	47:DQ:127:ILE:CD1	2.49	0.43
35:BA:1664:A:H61	35:BA:1996:C:H42	1.67	0.43
35:BA:2678:C:H2'	35:BA:2678:C:O2	2.17	0.43
35:BA:2679:A:H2'	35:BA:2680:C:C6	2.54	0.43
39:BE:23:VAL:CA	39:BE:184:VAL:O	2.66	0.43
45:BO:71:ARG:HH12	50:BT:74:ARG:HH22	1.66	0.43
45:BO:87:ILE:HG23	45:BO:88:ASN:O	2.19	0.43
50:BT:84:GLN:O	50:BT:84:GLN:HG3	2.19	0.43
16:AP:34:GLU:OE1	16:AP:36:ILE:HG23	2.19	0.43
56:BZ:11:GLU:HB2	56:BZ:13:GLU:CG	2.47	0.43
56:BZ:27:VAL:N	56:BZ:86:VAL:O	2.48	0.43
56:BZ:6:LYS:HB3	56:BZ:8:TYR:CE1	2.53	0.43
35:BA:534:U:O3'	51:BU:46:ALA:CB	2.67	0.43
44:BN:7:LYS:O	44:BN:8:GLN:C	2.58	0.43
51:BU:49:HIS:O	51:BU:52:ARG:N	2.52	0.43
35:BA:1160:G:H22	52:BV:10:LYS:HE3	1.84	0.43
42:DH:89:ILE:HG12	42:DH:90:LYS:H	1.81	0.43
14:AN:47:LEU:O	14:AN:51:GLY:N	2.52	0.43
27:B1:48:LYS:O	27:B1:49:VAL:CG2	2.65	0.43

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1720:U:H2'	35:DA:1721:G:C5'	2.49	0.43
25:CY:52:LEU:O	25:CY:53:ASN:C	2.56	0.43
35:DA:1635:G:H2'	35:DA:1636:C:H6	1.84	0.43
35:BA:1400:G:H2'	35:BA:1401:G:H8	1.84	0.43
35:DA:431:U:C2'	35:DA:432:A:H5'	2.47	0.43
24:CX:15:G:H5''	24:CX:16:U:OP1	2.19	0.43
46:BP:57:THR:O	46:BP:57:THR:HG22	2.19	0.43
3:AC:73:PRO:O	3:AC:76:VAL:N	2.52	0.43
36:BB:64:C:H2'	36:BB:65:C:C6	2.54	0.43
1:CA:338:A:C4	1:CA:339:C:C5	3.07	0.43
23:CW:33:C:O2	23:CW:37:U:H5	2.01	0.43
45:DO:88:ASN:HB3	45:DO:92:GLU:O	2.19	0.43
53:DW:5:ALA:CB	53:DW:105:VAL:HB	2.48	0.43
13:CM:14:ARG:HB2	13:CM:16:ASP:OD2	2.18	0.43
9:AI:75:ASP:O	9:AI:78:LYS:NZ	2.44	0.43
29:D3:22:ALA:HB1	29:D3:46:ASN:HD22	1.84	0.43
19:CS:24:ALA:O	19:CS:25:LYS:HB2	2.19	0.43
53:BW:69:LEU:HD12	53:BW:69:LEU:N	2.32	0.43
1:AA:783:C:N4	1:AA:784:C:H41	2.16	0.43
1:AA:799:G:H2'	1:AA:800:G:H5'	2.01	0.43
35:BA:1680:U:O2	35:BA:1763:G:H3'	2.18	0.43
38:DD:70:TRP:CZ2	38:DD:150:LYS:HA	2.54	0.43
39:DE:2:LYS:HD3	39:DE:95:ILE:HG22	2.01	0.43
42:DH:79:VAL:O	42:DH:81:GLU:N	2.48	0.43
11:CK:124:LYS:HD2	11:CK:125:PHE:CE1	2.53	0.43
17:CQ:63:ARG:HG2	17:CQ:64:PRO:HD2	2.01	0.43
35:BA:556:G:C5	35:BA:557:U:C4	3.07	0.43
54:BX:89:ILE:O	54:BX:89:ILE:CG2	2.66	0.43
35:BA:2369:A:H2'	35:BA:2370:G:H8	1.84	0.43
35:DA:1491:G:H5'	38:DD:99:ASP:OD1	2.19	0.43
1:AA:129(A):G:N2	1:AA:189(F):U:H5''	2.34	0.43
35:BA:418:G:O2'	35:BA:419:C:H5'	2.19	0.43
51:BU:51:LYS:HE2	51:BU:51:LYS:CA	2.49	0.43
35:BA:2550:G:H2'	35:BA:2551:C:C6	2.54	0.43
1:AA:1237:C:C4'	1:AA:1334:G:N2	2.82	0.43
35:DA:1560:G:C2	35:DA:1561:G:C4	3.07	0.43
9:CI:98:PRO:O	9:CI:100:GLY:N	2.52	0.43
4:CD:138:TYR:C	4:CD:138:TYR:HD2	2.23	0.43
5:AE:64:ARG:HG3	5:AE:64:ARG:HH11	1.84	0.43
35:BA:2447:G:C6	35:BA:2501:C:C2	3.07	0.43
1:CA:1157:A:C1'	1:CA:1181:G:N2	2.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1157:A:H1'	1:AA:1181:G:N2	2.34	0.43
35:BA:936:C:H2'	35:BA:937:U:C6	2.54	0.43
35:DA:1544:A:H2'	35:DA:1545:A:OP2	2.19	0.43
51:BU:43:GLY:HA3	52:BV:76:LYS:HB2	2.00	0.43
40:DF:136:THR:O	40:DF:137:LYS:C	2.57	0.43
46:BP:29:LYS:HD2	46:BP:29:LYS:N	2.33	0.43
1:AA:346:G:N3	1:AA:346:G:H2'	2.33	0.43
36:DB:110:G:H2'	36:DB:111:G:H8	1.83	0.43
35:DA:2684:U:C2'	35:DA:2685:G:H5'	2.49	0.43
39:DE:9:VAL:O	39:DE:9:VAL:HG23	2.18	0.43
45:DO:108:GLU:O	45:DO:109:LYS:C	2.57	0.43
1:CA:961:U:C2'	1:CA:962:C:H5'	2.49	0.43
41:DG:16:ARG:HG3	41:DG:16:ARG:HH11	1.83	0.43
38:BD:19:ALA:O	38:BD:21:PHE:HE1	2.01	0.43
38:BD:57:GLY:O	38:BD:58:HIS:O	2.37	0.43
1:CA:865:A:O2'	1:CA:919:A:H5'	2.19	0.43
38:DD:91:ARG:HG2	38:DD:91:ARG:NH1	2.33	0.43
38:DD:81:ALA:H	38:DD:94:LEU:CD1	2.32	0.43
41:DG:125:PHE:HA	41:DG:131:TYR:HB2	2.01	0.43
41:DG:115:ARG:NH1	41:DG:136:ARG:HD2	2.33	0.43
41:DG:40:ASN:CG	41:DG:41:GLN:H	2.23	0.43
34:B8:39:LYS:HG2	34:B8:42:ARG:HH12	1.80	0.43
1:AA:1441:G:O3'	1:AA:1442:G:C8	2.71	0.43
35:BA:1992:G:O2'	35:BA:1993:U:P	2.76	0.43
39:BE:9:VAL:CG1	39:BE:25:VAL:HG12	2.49	0.43
50:BT:53:ARG:O	50:BT:53:ARG:HG2	2.19	0.43
50:BT:65:LYS:HE3	50:BT:66:VAL:H	1.83	0.43
56:BZ:24:LEU:HB2	56:BZ:41:LEU:CD2	2.49	0.43
47:BQ:137:TYR:HE2	56:BZ:76:LEU:CD2	2.32	0.43
51:BU:83:LEU:HD12	51:BU:113:ALA:HB2	2.00	0.43
51:BU:74:LEU:HD22	51:BU:78:THR:CG2	2.49	0.43
42:DH:144:VAL:CG1	42:DH:144:VAL:O	2.65	0.43
9:AI:126:SER:O	9:AI:128:ARG:HD3	2.19	0.43
10:AJ:50:ILE:HD11	14:AN:41:ARG:HH11	1.84	0.43
10:AJ:56:HIS:O	10:AJ:58:ASP:O	2.36	0.43
14:AN:24:CYS:SG	14:AN:39:LEU:HA	2.59	0.43
27:B1:11:ARG:CB	27:B1:12:PRO:CD	2.97	0.43
27:B1:87:PRO:O	27:B1:90:ILE:N	2.34	0.43
27:B1:73:LEU:HD21	27:B1:94:LEU:HB2	1.99	0.43
35:BA:2205:C:H1'	35:BA:2220:G:N2	2.34	0.43
2:AB:211:ILE:O	2:AB:215:LEU:N	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:BG:36:LYS:HB3	41:BG:36:LYS:HE2	1.90	0.43
41:BG:85:GLY:C	41:BG:87:PRO:HD2	2.39	0.43
28:D2:25:VAL:O	28:D2:28:LYS:N	2.52	0.43
35:DA:71:A:OP2	35:DA:71:A:H3'	2.19	0.43
35:BA:2640:G:C8	35:BA:2640:G:H5'	2.54	0.43
56:DZ:148:ASP:O	56:DZ:149:SER:CB	2.66	0.43
56:DZ:57:ILE:N	56:DZ:57:ILE:CD1	2.79	0.43
51:DU:65:ILE:CD1	51:DU:65:ILE:H	2.31	0.43
51:DU:92:ARG:CG	51:DU:92:ARG:O	2.67	0.43
52:DV:27:ALA:O	52:DV:28:GLU:C	2.58	0.43
10:AJ:5:ARG:HG3	10:AJ:73:ASP:CG	2.39	0.43
10:AJ:8:LEU:HG	10:AJ:96:ILE:CG2	2.49	0.43
3:AC:150:LYS:HB3	3:AC:201:TYR:CB	2.41	0.43
35:DA:2469:A:O2'	47:DQ:56:ARG:HG3	2.19	0.43
49:BS:19:LYS:HB3	49:BS:20:ARG:NH2	2.33	0.43
49:BS:74:ALA:O	49:BS:75:GLU:C	2.58	0.43
49:BS:85:VAL:CG2	49:BS:86:ALA:H	2.17	0.43
4:CD:15:GLU:CD	4:CD:15:GLU:N	2.72	0.43
44:BN:87:LEU:O	44:BN:90:MET:HB2	2.19	0.43
35:BA:224:G:C6	35:BA:225:A:C5	3.07	0.43
40:BF:192:LEU:HD23	40:BF:192:LEU:C	2.39	0.43
46:BP:14:LYS:O	46:BP:15:ARG:CB	2.67	0.43
3:AC:8:ILE:C	3:AC:10:PHE:N	2.72	0.43
34:D8:30:ARG:CG	34:D8:30:ARG:O	2.65	0.43
35:BA:956:G:H5'	35:BA:957:A:OP2	2.19	0.43
48:DR:10:LEU:HD13	48:DR:17:ARG:CZ	2.49	0.43
39:BE:110:GLY:HA2	39:BE:161:GLY:CA	2.30	0.43
1:AA:320:C:O4'	1:AA:1434:A:H2	2.02	0.43
48:BR:53:HIS:C	48:BR:56:LYS:HB2	2.38	0.43
49:DS:28:VAL:O	49:DS:89:ARG:HG2	2.19	0.43
49:DS:36:TYR:O	49:DS:37:ALA:HB2	2.19	0.43
49:DS:54:LEU:O	49:DS:56:LEU:N	2.51	0.43
49:DS:77:ALA:O	49:DS:80:LEU:N	2.44	0.43
2:AB:33:TYR:HB2	2:AB:41:ILE:O	2.19	0.43
44:DN:17:ASP:OD2	44:DN:56:ASN:HB3	2.19	0.43
44:BN:17:ASP:OD2	44:BN:56:ASN:HB3	2.19	0.43
6:CF:24:GLU:HG3	6:CF:25:ILE:HD13	2.00	0.43
6:CF:2:ARG:N	6:CF:67:MET:O	2.50	0.43
15:CO:39:LEU:HD12	15:CO:56:LEU:HD13	2.00	0.43
15:CO:50:HIS:O	15:CO:53:HIS:CB	2.67	0.43
35:DA:818:G:H3'	35:DA:1187:G:H22	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:435:C:N3	1:AA:436:C:C5	2.87	0.43
4:AD:102:ASP:HB3	4:AD:136:PRO:HB3	2.00	0.43
1:AA:585:G:O2'	1:AA:879:C:OP1	2.37	0.43
18:AR:36:ASN:HD21	18:AR:40:LEU:HD21	1.84	0.43
1:AA:1105:A:C2	1:AA:1106:G:N7	2.87	0.43
3:AC:173:VAL:HG12	3:AC:175:LEU:HG	2.01	0.43
35:DA:28:A:C8	35:DA:513:A:C5	3.07	0.43
25:CY:160:GLU:HG3	25:CY:164:ILE:HD11	2.01	0.43
25:CY:31:GLY:O	25:CY:32:ARG:CB	2.67	0.43
25:AY:32:ARG:NH2	25:AY:88:LEU:HG	2.34	0.43
35:BA:1942:C:C4	35:BA:1943:U:C4	3.07	0.43
35:BA:2020:A:C2	35:BA:2035:G:N1	2.87	0.43
33:B7:29:LYS:HZ3	33:B7:32:LYS:HZ2	1.67	0.43
8:AH:122:ARG:NH1	8:AH:122:ARG:CB	2.82	0.43
45:BO:119:PRO:O	45:BO:120:GLU:HB2	2.17	0.43
1:AA:925:G:H1	1:AA:1391:U:H3	1.65	0.43
1:AA:867:G:N2	1:AA:868:C:C2	2.87	0.43
9:CI:118:LYS:CB	9:CI:118:LYS:NZ	2.81	0.43
12:AL:117:ARG:HD2	12:AL:122:THR:HB	2.00	0.43
8:AH:20:TYR:HA	8:AH:65:TYR:CZ	2.50	0.43
18:AR:53:ARG:HH22	18:AR:59:SER:C	2.20	0.43
8:CH:88:LYS:O	8:CH:92:ARG:HD2	2.19	0.43
31:B5:51:TYR:HB3	31:B5:52:TYR:H	1.35	0.43
35:BA:2319:G:C4	35:BA:2320:A:C6	3.07	0.43
46:BP:83:VAL:O	46:BP:83:VAL:HG13	2.19	0.43
35:BA:1983:C:H4'	35:BA:2606:C:H4'	2.01	0.43
35:BA:1266:G:N2	35:BA:2012:G:C4	2.86	0.43
39:BE:201:THR:CG2	39:BE:203:LYS:HB3	2.49	0.43
1:CA:277:C:P	17:CQ:41:LYS:HZ1	2.42	0.43
35:BA:1578:U:O2	35:BA:1578:U:H2'	2.19	0.43
17:CQ:3:LYS:O	17:CQ:4:LYS:C	2.58	0.43
26:D0:26:TYR:C	26:D0:67:VAL:HG11	2.39	0.43
35:BA:1504:C:O2'	35:BA:1505:C:H5'	2.19	0.43
35:BA:270:A:OP2	35:BA:271(X):G:N2	2.47	0.43
1:AA:33:A:H2'	1:AA:34:C:H6	1.83	0.43
1:CA:321:A:O2'	1:CA:322:C:H5'	2.19	0.43
20:CT:12:ALA:C	20:CT:14:LYS:N	2.72	0.43
1:AA:663:A:H2'	1:AA:664:G:C8	2.53	0.43
1:AA:832:C:O2'	1:AA:833:U:P	2.76	0.43
35:DA:1982:C:H2'	35:DA:1983:C:C6	2.54	0.43
35:DA:1369:G:C2	35:DA:1370:C:C6	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1276:G:C2'	1:CA:1277:C:H5'	2.49	0.43
35:DA:349:G:N3	35:DA:349:G:H2'	2.33	0.43
2:CB:24:TRP:CZ3	2:CB:26:PRO:HA	2.54	0.43
1:AA:1296:C:H3'	1:AA:1297:C:C6	2.51	0.43
1:CA:761:G:H2'	1:CA:762:C:H6	1.83	0.43
35:DA:863:A:OP1	47:DQ:21:THR:HB	2.19	0.43
56:DZ:77:ASP:O	56:DZ:78:LYS:C	2.58	0.43
56:DZ:79:ARG:C	56:DZ:80:ARG:HG2	2.39	0.43
31:B5:42:PRO:HB2	35:BA:2815:C:HO2'	1.80	0.43
44:BN:137:LYS:CG	44:BN:138:LEU:H	2.27	0.43
19:AS:43:GLU:OE1	19:AS:43:GLU:O	2.36	0.43
19:CS:43:GLU:O	19:CS:43:GLU:OE1	2.36	0.43
19:CS:45:VAL:C	19:CS:47:HIS:H	2.21	0.43
1:AA:696:A:C4	1:AA:697:U:C5	3.07	0.43
1:CA:1416:G:C6	1:CA:1485:U:O2	2.72	0.43
1:AA:1126:U:O2'	1:AA:1127:G:H5'	2.19	0.43
7:CG:23:VAL:C	7:CG:27:ILE:HD13	2.39	0.43
47:BQ:131:ILE:HD13	47:BQ:131:ILE:H	1.80	0.43
41:BG:18:GLU:O	41:BG:22:ARG:HB2	2.19	0.43
35:DA:2075:U:C4	35:DA:2238:G:C6	3.06	0.43
35:BA:826:U:H3'	35:BA:828:U:C6	2.54	0.43
1:CA:652:U:H2'	1:CA:752:G:N1	2.33	0.43
35:BA:1525:G:H2'	35:BA:1526:G:H8	1.83	0.43
47:BQ:22:LYS:NZ	47:BQ:22:LYS:CA	2.81	0.43
47:DQ:22:LYS:NZ	47:DQ:22:LYS:CA	2.82	0.43
35:BA:13:A:H2	35:BA:526:A:C5	2.35	0.43
35:BA:1488:G:N3	35:BA:1488:G:H2'	2.34	0.43
35:DA:1839:G:C4	35:DA:1840:G:C8	3.07	0.43
35:DA:751:A:H62	35:DA:789:A:H62	1.66	0.43
1:AA:38:G:C4	1:AA:397:A:N1	2.87	0.43
35:DA:382:G:H1	35:DA:392:C:H42	1.67	0.43
43:DI:42:SER:C	43:DI:44:LEU:N	2.71	0.43
39:BE:72:VAL:O	39:BE:73:GLU:O	2.37	0.43
35:BA:2083:G:O2'	35:BA:2084:C:H5'	2.19	0.43
35:DA:1745(A):C:H5'	35:DA:1746:G:OP2	2.18	0.43
4:CD:88:VAL:O	4:CD:88:VAL:HG12	2.19	0.43
35:BA:753:C:H6	35:BA:753:C:O5'	2.02	0.43
1:AA:369:C:OP2	1:AA:388:G:N2	2.46	0.43
35:DA:1997:G:C2	35:DA:1998:G:C5	3.07	0.42
35:DA:2727:G:C5	35:DA:2728:U:H5	2.37	0.42
39:DE:9:VAL:HG11	39:DE:25:VAL:HG12	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DT:74:ARG:HG2	50:DT:74:ARG:NH1	2.32	0.42
1:CA:1050:G:H2'	1:CA:1051:C:C6	2.54	0.42
14:CN:39:LEU:HD11	14:CN:47:LEU:CD1	2.49	0.42
35:BA:1566:A:OP1	38:BD:211:ARG:NE	2.51	0.42
38:BD:260:ARG:CZ	38:BD:264:LYS:HD3	2.49	0.42
38:BD:34:VAL:CG2	38:BD:35:LYS:NZ	2.82	0.42
38:BD:82:ILE:HA	38:BD:92:ILE:O	2.19	0.42
1:CA:18:C:H2'	1:CA:19:C:H6	1.84	0.42
38:DD:211:ARG:HA	38:DD:214:TRP:CE3	2.54	0.42
41:DG:138:GLN:HB3	41:DG:152:LEU:HD23	2.01	0.42
45:BO:81:ASP:CG	45:BO:81:ASP:O	2.57	0.42
50:BT:28:VAL:HG21	50:BT:46:GLU:OE2	2.19	0.42
50:BT:87:ASP:OD2	50:BT:90:GLN:HG3	2.19	0.42
35:BA:2805:G:H2'	35:BA:2807:G:C8	2.53	0.42
52:BV:39:LEU:O	52:BV:50:PRO:HA	2.19	0.42
14:AN:39:LEU:HD11	14:AN:47:LEU:CD1	2.48	0.42
28:B2:22:GLU:O	28:B2:25:VAL:HG13	2.18	0.42
54:BX:32:PRO:HB3	54:BX:72:LYS:HD2	2.01	0.42
54:BX:40:LYS:C	54:BX:42:ALA:N	2.71	0.42
54:BX:77:LYS:HA	54:BX:77:LYS:CE	2.46	0.42
39:DE:3:GLY:CA	39:DE:81:ILE:HG21	2.49	0.42
35:BA:2223:G:H2'	35:BA:2224:G:C5'	2.48	0.42
41:BG:102:PHE:O	41:BG:106:LEU:HB3	2.19	0.42
41:BG:166:ASP:OD1	41:BG:166:ASP:C	2.57	0.42
35:DA:58:G:N3	35:DA:73:A:H2	2.17	0.42
35:DA:94(A):G:H2'	35:DA:95:G:O4'	2.19	0.42
42:BH:151:ILE:HD13	42:BH:151:ILE:H	1.83	0.42
35:BA:1495:A:OP1	35:BA:1495:A:O4'	2.37	0.42
3:AC:150:LYS:CB	3:AC:201:TYR:HB2	2.40	0.42
4:CD:171:GLY:HA2	4:CD:172:PRO:HD3	1.87	0.42
4:CD:19:LEU:O	4:CD:21:LEU:N	2.46	0.42
4:CD:33:MET:HE3	4:CD:33:MET:HA	2.01	0.42
4:CD:13:ARG:HH22	4:CD:36:ARG:HH11	1.66	0.42
43:DI:79:ILE:C	43:DI:81:VAL:H	2.21	0.42
40:BF:3:GLU:O	40:BF:19:GLU:CB	2.67	0.42
35:BA:660:G:C5'	40:BF:99:TYR:CE2	3.01	0.42
25:AY:36:ALA:C	25:AY:38:LEU:H	2.23	0.42
35:BA:2572:A:C6	39:BE:144:ARG:NH2	2.87	0.42
27:D1:76:ARG:C	27:D1:78:LYS:NZ	2.72	0.42
35:DA:2415:G:C2	35:DA:2416:C:C2	3.07	0.42
35:BA:195:A:N7	35:BA:197:A:OP1	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:567:A:N1	35:BA:568:U:O2	2.51	0.42
35:BA:670:A:H5'	35:BA:671:C:OP1	2.19	0.42
35:BA:811:U:OP2	46:BP:24:GLY:HA2	2.19	0.42
40:DF:114:VAL:CG2	40:DF:115:ALA:N	2.73	0.42
48:DR:17:ARG:NH1	48:DR:17:ARG:CG	2.81	0.42
35:DA:1654:A:OP1	48:DR:2:ARG:HB2	2.19	0.42
48:DR:71:GLN:HB2	48:DR:71:GLN:HE21	1.58	0.42
48:BR:20:LEU:CG	48:BR:21:TYR:N	2.81	0.42
48:BR:30:THR:OG1	48:BR:75:LEU:HD21	2.19	0.42
48:BR:73:VAL:HG23	48:BR:74:LYS:HD3	2.00	0.42
2:CB:84:GLU:O	2:CB:219:VAL:HG11	2.19	0.42
2:CB:87:ARG:O	2:CB:223:ILE:HD11	2.19	0.42
2:AB:185:ILE:HG22	2:AB:199:TYR:CB	2.45	0.42
35:DA:200:U:H2'	35:DA:201:C:C5'	2.47	0.42
35:DA:2080:G:H2'	35:DA:2081:C:C6	2.54	0.42
44:DN:26:LEU:O	44:DN:30:ILE:HG13	2.19	0.42
44:DN:35:ARG:HD3	44:DN:37:LYS:HD3	2.00	0.42
44:BN:57:ALA:H	44:BN:124:ALA:HA	1.84	0.42
6:CF:27:GLN:O	6:CF:31:GLU:HG3	2.19	0.42
35:DA:809:G:C4'	35:DA:1254:A:H1'	2.48	0.42
46:DP:39:LYS:CD	46:DP:40:SER:N	2.65	0.42
4:AD:56:VAL:C	4:AD:58:LEU:H	2.23	0.42
43:DI:132:PRO:O	43:DI:135:GLU:HG2	2.19	0.42
35:DA:870:A:N1	35:DA:871:U:C2	2.87	0.42
18:AR:29:PHE:HD1	18:AR:39:VAL:HG11	1.83	0.42
1:CA:570:G:C5	1:CA:873:A:C6	3.07	0.42
51:DU:31:SER:HB3	51:DU:34:LYS:CG	2.48	0.42
35:DA:2738:A:C2	35:DA:2739:U:C6	3.07	0.42
2:AB:112:VAL:HG22	2:AB:149:LEU:HD22	2.01	0.42
2:AB:145:LEU:HD13	2:AB:145:LEU:C	2.39	0.42
25:CY:149:LEU:HA	25:CY:153:GLU:OE1	2.18	0.42
35:DA:19:C:H2'	35:DA:20:C:H6	1.84	0.42
1:CA:960:U:C4	1:CA:1225:A:H1'	2.54	0.42
16:AP:39:TYR:HB2	16:AP:49:LEU:HB2	1.99	0.42
51:BU:35:ALA:O	51:BU:36:ARG:C	2.57	0.42
25:AY:143:LEU:C	25:AY:145:LYS:H	2.22	0.42
25:AY:149:LEU:HA	25:AY:153:GLU:OE1	2.19	0.42
33:B7:16:HIS:CE1	35:BA:465:G:C4'	3.02	0.42
33:B7:29:LYS:NZ	33:B7:32:LYS:HZ2	2.17	0.42
35:DA:2262:U:C3'	35:DA:2263:C:H5''	2.49	0.42
35:DA:2283:C:C6	35:DA:2389:G:H2'	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1050:A:O2'	35:DA:2752:C:H1'	2.19	0.42
7:AG:143:ARG:NH1	7:AG:143:ARG:CB	2.81	0.42
1:AA:1307:U:O4'	13:AM:109:THR:HG21	2.19	0.42
8:AH:119:LEU:HB2	8:AH:120:THR:H	1.72	0.42
20:AT:78:ALA:O	20:AT:79:ARG:C	2.56	0.42
18:AR:53:ARG:NH2	18:AR:60:ALA:CA	2.82	0.42
9:AI:92:TYR:HB3	9:AI:95:LYS:HD2	2.00	0.42
8:CH:3:THR:O	8:CH:5:PRO:HD3	2.19	0.42
31:D5:40:LYS:NZ	31:D5:45:VAL:CA	2.76	0.42
16:AP:14:ASN:OD1	16:AP:16:HIS:HE1	2.02	0.42
9:AI:116:LYS:HA	9:AI:121:ARG:O	2.18	0.42
35:DA:1605:C:C5'	35:DA:1610:A:N6	2.82	0.42
35:DA:779:U:OP1	38:DD:49:ILE:HG23	2.19	0.42
1:AA:1115:C:H2'	1:AA:1116:C:C6	2.54	0.42
6:CF:53:ALA:O	6:CF:54:LYS:HB2	2.18	0.42
35:BA:1271:G:N2	35:BA:1617:C:H4'	2.34	0.42
35:BA:491:G:C4	35:BA:492:A:C8	3.07	0.42
35:DA:2223:G:O2'	35:DA:2224:G:H5'	2.19	0.42
1:CA:113:G:H2'	1:CA:114:U:H6	1.84	0.42
35:DA:2832:U:C5	35:DA:2884:U:H5''	2.54	0.42
1:AA:1459:C:C2'	1:AA:1460:A:H5'	2.49	0.42
17:CQ:67:LYS:C	17:CQ:70:ARG:HH12	2.22	0.42
40:DF:164:ARG:O	40:DF:165:ARG:C	2.58	0.42
1:AA:252:U:H5'	1:AA:253:U:OP2	2.19	0.42
5:AE:76:ILE:CG2	5:AE:78:HIS:O	2.67	0.42
5:AE:91:LEU:HD23	5:AE:110:LEU:HD11	2.00	0.42
16:AP:12:LYS:O	16:AP:13:HIS:CB	2.66	0.42
35:DA:1368:G:C6	35:DA:1369:G:N7	2.87	0.42
1:CA:66:G:O4'	1:CA:173:U:C4	2.72	0.42
35:BA:915:C:H2'	35:BA:916:G:H8	1.83	0.42
35:DA:2763:G:H8	35:DA:2763:G:H5'	1.83	0.42
35:DA:1806:C:H42	35:DA:1812:A:N6	2.17	0.42
1:CA:1088:G:C4	1:CA:1089:G:N7	2.87	0.42
43:DI:51:ILE:HA	43:DI:51:ILE:HD13	1.75	0.42
6:AF:82:ARG:HH11	6:AF:82:ARG:HA	1.84	0.42
45:BO:13:ASN:ND2	45:BO:97:ARG:HG2	2.34	0.42
25:AY:43:VAL:O	25:AY:50:VAL:HG22	2.19	0.42
39:BE:154:LYS:CE	39:BE:154:LYS:HA	2.45	0.42
40:BF:197:ASP:O	40:BF:200:GLU:HB3	2.19	0.42
1:AA:797:C:H2'	1:AA:798:G:H8	1.84	0.42
35:DA:898:C:N3	35:DA:899:A:H1'	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:809:G:C2'	1:CA:810:C:O5'	2.66	0.42
27:D1:56:GLN:O	27:D1:57:GLU:HG2	2.19	0.42
53:BW:65:LEU:HD13	53:BW:68:ARG:HD2	2.01	0.42
8:CH:78:GLN:OE1	8:CH:78:GLN:HA	2.19	0.42
52:DV:51:VAL:HG12	52:DV:52:VAL:N	2.33	0.42
29:B3:26:LEU:O	29:B3:28:LEU:HG	2.19	0.42
46:BP:108:LYS:C	46:BP:110:TYR:N	2.70	0.42
35:BA:1553:A:OP1	35:BA:1553:A:H4'	2.19	0.42
46:DP:108:LYS:C	46:DP:110:TYR:N	2.71	0.42
35:BA:271(L):U:H5''	35:BA:271(M):G:C4	2.54	0.42
1:AA:619:U:O2	4:AD:135:LEU:HD23	2.19	0.42
35:DA:325:G:H2'	35:DA:326:G:C8	2.50	0.42
1:AA:651:C:O2'	1:AA:652:U:H5'	2.19	0.42
1:AA:828:A:C8	1:AA:859:A:C4	3.07	0.42
1:AA:828:A:C8	1:AA:859:A:C5	3.07	0.42
35:BA:324:A:N6	35:BA:338:G:O2'	2.50	0.42
25:CY:62:ASP:OD1	25:CY:65:THR:HB	2.19	0.42
40:DF:17:ARG:HG3	40:DF:17:ARG:NH1	2.33	0.42
1:CA:1210:C:H4'	1:CA:1214:C:N4	2.34	0.42
1:CA:27:G:H2'	1:CA:28:G:C8	2.53	0.42
53:DW:44:ALA:O	53:DW:45:TYR:C	2.57	0.42
1:CA:1059:C:O2	10:CJ:53:PRO:HG3	2.19	0.42
10:CJ:47:PHE:HD1	10:CJ:47:PHE:O	2.01	0.42
1:CA:1135:U:H2'	1:CA:1137:C:O2	2.18	0.42
35:DA:2716:U:O2'	35:DA:2717:G:H5'	2.19	0.42
35:DA:2723:C:HO2'	35:DA:2724:C:H5'	1.84	0.42
35:DA:2851:A:C6	35:DA:2852:G:C6	3.07	0.42
50:DT:100:TYR:O	50:DT:101:PHE:C	2.57	0.42
35:DA:2685:G:OP1	50:DT:51:ARG:NH2	2.51	0.42
14:CN:33:VAL:HG12	14:CN:34:TYR:H	1.84	0.42
38:BD:45:ASN:OD1	38:BD:48:ARG:O	2.37	0.42
35:DA:1790:C:H3'	35:DA:1828:G:H22	1.84	0.42
38:DD:34:VAL:CG2	38:DD:35:LYS:NZ	2.82	0.42
16:CP:22:THR:HA	16:CP:33:ILE:HG12	2.01	0.42
41:DG:101:ILE:HG23	41:DG:102:PHE:H	1.84	0.42
41:DG:38:VAL:CG1	41:DG:91:ARG:HD3	2.48	0.42
10:CJ:98:ILE:HG22	10:CJ:99:LYS:N	2.34	0.42
47:DQ:38:GLU:HB2	47:DQ:127:ILE:HG23	2.01	0.42
50:BT:51:ARG:O	50:BT:52:ILE:HG23	2.19	0.42
56:BZ:44:PHE:C	56:BZ:44:PHE:CD1	2.93	0.42
35:DA:2052:G:C4	35:DA:2053:G:C8	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:28:ALA:O	39:BE:180:ASN:OD1	2.37	0.42
44:BN:41:ASP:CA	51:BU:64:ARG:NH1	2.82	0.42
52:BV:61:VAL:CG1	52:BV:62:LEU:N	2.79	0.42
42:DH:127:GLU:HB2	42:DH:130:ARG:HB3	2.01	0.42
1:AA:1060:C:C5'	14:AN:45:ARG:HH22	2.15	0.42
54:BX:37:THR:HG23	54:BX:54:VAL:HB	2.00	0.42
2:AB:75:LYS:HE3	2:AB:75:LYS:CA	2.49	0.42
2:AB:84:GLU:O	2:AB:219:VAL:HG11	2.19	0.42
41:BG:101:ILE:HD11	41:BG:105:LYS:CE	2.43	0.42
54:DX:83:VAL:C	54:DX:85:PRO:HD3	2.40	0.42
56:DZ:8:TYR:CA	56:DZ:62:PRO:HG2	2.47	0.42
44:DN:36:GLY:HA3	44:DN:48:MET:SD	2.60	0.42
51:DU:46:ALA:O	51:DU:49:HIS:HB2	2.18	0.42
51:DU:64:ARG:NH2	51:DU:64:ARG:CA	2.82	0.42
51:DU:91:ASP:OD2	51:DU:96:ALA:CB	2.67	0.42
4:CD:152:SER:C	4:CD:154:ASN:H	2.22	0.42
4:CD:177:ASP:O	4:CD:177:ASP:OD1	2.37	0.42
55:BY:43:ASN:CG	55:BY:64:GLU:HA	2.40	0.42
35:BA:615:G:OP2	40:BF:43:LYS:HE2	2.20	0.42
40:BF:109:GLY:C	40:BF:111:ALA:N	2.72	0.42
25:AY:52:LEU:C	25:AY:54:GLN:N	2.70	0.42
25:AY:76:LEU:HG	25:AY:99:LEU:HD21	2.01	0.42
40:DF:46:ARG:HG3	40:DF:48:THR:CG2	2.47	0.42
1:AA:1433:A:C8	1:AA:1468:A:C6	3.06	0.42
1:AA:320:C:HO2'	1:AA:1435:G:H1'	1.84	0.42
20:AT:12:ALA:C	20:AT:14:LYS:H	2.22	0.42
20:AT:24:LEU:O	20:AT:27:LYS:N	2.52	0.42
2:CB:213:LEU:HD22	2:CB:214:ILE:HG12	2.01	0.42
2:AB:164:VAL:O	2:AB:165:VAL:O	2.36	0.42
2:AB:51:LEU:O	2:AB:55:PHE:CD2	2.72	0.42
6:CF:100:ASN:O	18:CR:28:GLU:HB3	2.19	0.42
35:DA:776:G:O6	35:DA:793:A:H2'	2.19	0.42
1:CA:778:G:C2'	1:CA:779:C:H5'	2.49	0.42
35:DA:2618:G:O2'	35:DA:2619:C:H5'	2.19	0.42
25:CY:130:ARG:HG2	25:CY:130:ARG:NH1	2.35	0.42
1:CA:553:A:O2'	1:CA:554:C:H5'	2.20	0.42
44:BN:15:LEU:HD12	44:BN:136:GLU:CB	2.48	0.42
35:BA:744:G:O2'	35:BA:745:G:H5'	2.19	0.42
1:AA:1017:G:C2	1:AA:1018:C:N3	2.88	0.42
25:AY:129:ILE:O	25:AY:132:ILE:N	2.52	0.42
1:CA:939:G:H2'	1:CA:940:C:C6	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:BC:44:HIS:CD2	37:BC:175:VAL:HA	2.54	0.42
42:BH:46:GLU:CG	42:BH:51:ARG:HB2	2.50	0.42
55:BY:31:LEU:HD12	55:BY:34:LYS:N	2.35	0.42
2:CB:100:GLY:O	2:CB:104:ASN:C	2.58	0.42
2:CB:105:PHE:O	2:CB:106:LYS:C	2.57	0.42
7:AG:143:ARG:HH11	7:AG:143:ARG:HB3	1.84	0.42
13:AM:116:THR:HG22	13:AM:117:VAL:H	1.80	0.42
35:DA:258:G:C6	35:DA:259:G:C5	3.07	0.42
5:AE:129:ILE:HG22	5:AE:130:ASN:N	2.33	0.42
9:CI:8:GLY:HA3	9:CI:15:ALA:HB3	2.01	0.42
1:AA:536:C:H2'	1:AA:537:G:C8	2.53	0.42
8:AH:14:ARG:NH1	8:AH:14:ARG:HB3	2.34	0.42
35:DA:2473:U:O2	35:DA:2473:U:H2'	2.19	0.42
9:AI:3:GLN:HG2	9:AI:20:ARG:HE	1.84	0.42
35:BA:2539:C:O2	35:BA:2539:C:H2'	2.20	0.42
8:CH:7:ALA:HA	8:CH:10:LEU:HG	2.00	0.42
2:AB:170:GLU:C	2:AB:172:ILE:N	2.71	0.42
1:CA:514:C:N4	1:CA:537:G:H1	2.15	0.42
9:CI:53:VAL:HG12	9:CI:95:LYS:CE	2.49	0.42
9:CI:83:ARG:C	9:CI:86:VAL:HG12	2.39	0.42
5:CE:144:THR:C	5:CE:148:VAL:HG23	2.38	0.42
38:BD:105:ILE:O	38:BD:105:ILE:HG23	2.19	0.42
38:BD:72:LYS:HB2	38:BD:97:TYR:HE2	1.84	0.42
51:DU:17:ILE:CA	51:DU:20:LEU:HD23	2.37	0.42
7:CG:63:LYS:HD2	7:CG:63:LYS:HA	1.85	0.42
40:BF:175:THR:HG23	40:BF:175:THR:O	2.19	0.42
1:AA:714:G:N2	1:AA:777:A:H1'	2.27	0.42
35:BA:1613:G:H3'	35:BA:1614:A:H5''	2.01	0.42
17:AQ:92:ARG:O	17:AQ:93:GLN:C	2.56	0.42
38:DD:77:ALA:CB	38:DD:97:TYR:CD1	3.02	0.42
35:BA:1416:G:H1'	35:BA:1417:C:C6	2.54	0.42
12:AL:41:ARG:HH11	12:AL:41:ARG:CB	2.22	0.42
40:DF:139:PHE:O	40:DF:142:TRP:HB3	2.18	0.42
17:AQ:17:LYS:HA	17:AQ:46:ASP:O	2.18	0.42
17:AQ:67:LYS:O	17:AQ:69:LYS:N	2.52	0.42
1:CA:61:G:H2'	1:CA:62:U:O4'	2.19	0.42
20:CT:16:HIS:O	20:CT:19:SER:N	2.52	0.42
20:CT:84:LEU:HD13	20:CT:84:LEU:C	2.38	0.42
53:DW:20:VAL:O	53:DW:21:VAL:C	2.58	0.42
1:AA:91:C:H6	1:AA:91:C:O5'	2.01	0.42
4:AD:3:ARG:HG2	4:AD:3:ARG:HH21	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:460:A:C2	35:DA:470:A:C4	3.07	0.42
38:BD:164:GLN:C	38:BD:165:ILE:HD12	2.40	0.42
1:CA:1302:U:O2'	1:CA:1303:C:H5'	2.19	0.42
38:BD:13:ARG:HA	38:BD:13:ARG:HD2	1.95	0.42
29:D3:58:VAL:HG12	29:D3:59:VAL:N	2.33	0.42
35:DA:919:G:N2	35:DA:2269:A:OP2	2.47	0.42
36:DB:82:G:H2'	36:DB:83:G:C8	2.50	0.42
43:DI:48:GLU:CD	43:DI:48:GLU:C	2.77	0.42
35:DA:2464:C:O2'	35:DA:2465:C:P	2.76	0.42
1:CA:1316:G:H2'	1:CA:1317:C:H5'	2.01	0.42
35:BA:2009:G:N1	35:BA:2010:G:N7	2.67	0.42
56:BZ:139:VAL:HG12	56:BZ:141:VAL:N	2.34	0.42
7:CG:143:ARG:HH11	7:CG:143:ARG:HB3	1.82	0.42
7:CG:143:ARG:CB	7:CG:143:ARG:NH1	2.78	0.42
15:CO:43:LEU:C	15:CO:45:VAL:N	2.72	0.42
10:AJ:94:VAL:CG1	10:AJ:95:GLU:N	2.81	0.42
1:AA:68:G:N2	1:AA:69:G:H1'	2.33	0.42
17:CQ:10:VAL:HG11	17:CQ:53:LEU:HA	2.00	0.42
35:BA:704:G:N3	35:BA:726:G:C2	2.87	0.42
41:BG:14:GLU:O	41:BG:18:GLU:CB	2.66	0.42
35:DA:817:C:H4'	35:DA:932:G:C6	2.54	0.42
42:DH:79:VAL:HG23	42:DH:80:SER:N	2.34	0.42
1:AA:264:U:O2'	17:AQ:64:PRO:HB2	2.18	0.42
1:AA:474:G:H2'	1:AA:475:G:H8	1.83	0.42
35:DA:1210:A:H1'	35:DA:1212:G:C4	2.54	0.42
35:BA:2505:G:H2'	35:BA:2576:G:C6	2.54	0.42
44:DN:82:LEU:H	44:DN:82:LEU:HD12	1.83	0.42
1:AA:651:C:H2'	1:AA:652:U:H6	1.83	0.42
1:AA:828:A:N7	1:AA:859:A:C8	2.86	0.42
35:BA:1669:A:H2'	35:BA:1670:C:H5'	2.01	0.42
46:DP:29:LYS:N	46:DP:29:LYS:CD	2.82	0.42
35:DA:1208:C:C5	35:DA:1209:G:N7	2.87	0.42
35:DA:629:G:O2'	35:DA:630:G:H5'	2.19	0.42
35:BA:982:C:H6	35:BA:982:C:O5'	2.02	0.42
38:BD:88:ARG:HH11	38:BD:88:ARG:HG2	1.84	0.42
27:B1:21:ARG:HH11	27:B1:21:ARG:CG	2.32	0.42
35:DA:1664:A:OP1	35:DA:1665:A:OP2	2.36	0.42
35:DA:2697:G:C2	35:DA:2711:A:C2	3.07	0.42
50:DT:70:VAL:HG12	50:DT:71:GLY:O	2.18	0.42
43:BI:90:GLY:O	43:BI:91:SER:C	2.57	0.42
1:CA:974:A:C8	14:CN:31:ARG:NE	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:783:A:H2'	35:BA:784:A:C4'	2.47	0.42
38:BD:211:ARG:HA	38:BD:214:TRP:CE3	2.53	0.42
38:BD:265:PRO:CG	38:BD:266:SER:N	2.82	0.42
38:BD:94:LEU:O	38:BD:94:LEU:CD1	2.65	0.42
35:DA:1797:C:N3	35:DA:1823:G:C6	2.87	0.42
35:DA:1805:U:C2	35:DA:1813:G:C2	3.08	0.42
38:DD:81:ALA:O	38:DD:94:LEU:HD12	2.19	0.42
16:CP:22:THR:HG22	16:CP:32:TYR:CA	2.47	0.42
35:BA:2285:C:H42	35:BA:2383:G:H1	1.67	0.42
35:BA:1666:G:C2'	35:BA:1667:G:H5'	2.49	0.42
56:BZ:56:VAL:HA	56:BZ:70:LEU:CG	2.49	0.42
39:BE:63:LEU:O	39:BE:65:GLY:N	2.52	0.42
44:BN:110:GLY:O	44:BN:111:PRO:C	2.56	0.42
44:BN:46:VAL:HG11	44:BN:48:MET:CG	2.47	0.42
44:BN:46:VAL:O	44:BN:47:ALA:CB	2.67	0.42
51:BU:66:ASN:OD1	51:BU:76:TYR:HB2	2.19	0.42
42:DH:94:TYR:CE1	42:DH:160:LYS:HD2	2.54	0.42
10:AJ:48:THR:CB	10:AJ:62:HIS:HB3	2.49	0.42
39:DE:6:GLY:CA	39:DE:27:LEU:O	2.67	0.42
35:BA:2208:A:H1'	35:BA:2219:G:N3	2.34	0.42
41:BG:160:VAL:CG1	41:BG:161:THR:N	2.81	0.42
41:BG:4:ASP:O	41:BG:4:ASP:OD1	2.37	0.42
42:BH:84:SER:O	42:BH:133:VAL:O	2.37	0.42
44:DN:46:VAL:O	44:DN:47:ALA:CB	2.65	0.42
36:BB:115:G:H2'	36:BB:116:G:C8	2.54	0.42
49:BS:20:ARG:HA	49:BS:20:ARG:HD3	1.66	0.42
4:CD:161:ASN:O	4:CD:165:MET:HB2	2.19	0.42
4:CD:17:VAL:CG1	4:CD:18:LYS:N	2.79	0.42
47:BQ:23:GLY:CA	47:BQ:101:ARG:HB2	2.48	0.42
47:BQ:20:ALA:CB	47:BQ:99:PRO:HG2	2.37	0.42
35:DA:2639:A:H3'	35:DA:2640:G:C5'	2.49	0.42
40:BF:111:ALA:O	40:BF:112:MET:C	2.58	0.42
25:AY:52:LEU:O	25:AY:52:LEU:HD23	2.19	0.42
35:BA:2571:C:C2'	35:BA:2571:C:O2	2.67	0.42
35:BA:2574:G:C5	35:BA:2575:C:C5	3.07	0.42
27:D1:53:VAL:HG12	27:D1:58:ILE:HG22	2.00	0.42
27:D1:89:GLU:O	27:D1:93:GLU:OE1	2.36	0.42
35:BA:675:A:C6	35:BA:676:A:C6	3.07	0.42
46:BP:34:GLY:O	46:BP:36:LYS:HG3	2.19	0.42
55:BY:81:LYS:HD3	55:BY:97:ARG:C	2.40	0.42
55:BY:76:CYS:CB	55:BY:96:ILE:HD11	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BQ:70:PRO:HA	47:BQ:95:ALA:HB2	2.00	0.42
47:BQ:43:THR:CA	47:BQ:94:VAL:HG12	2.43	0.42
35:DA:1277:G:H2'	35:DA:1278:A:O4'	2.19	0.42
1:AA:385:C:H2'	1:AA:386:C:C6	2.53	0.42
49:DS:90:GLY:HA2	49:DS:92:TYR:CG	2.53	0.42
44:DN:55:VAL:HG11	44:DN:127:ASP:H	1.84	0.42
15:CO:55:GLY:O	15:CO:59:MET:HG3	2.19	0.42
2:CB:187:LEU:HD22	2:CB:188:ALA:N	2.35	0.42
40:DF:74:ARG:HD2	40:DF:74:ARG:H	1.84	0.42
4:AD:101:LEU:O	4:AD:104:VAL:N	2.52	0.42
46:DP:146:VAL:CG2	46:DP:147:LEU:H	2.04	0.42
1:AA:1220:G:H21	19:AS:54:GLY:HA2	1.84	0.42
4:AD:72:GLU:O	4:AD:76:ARG:N	2.48	0.42
35:DA:868:U:C4	35:DA:869:G:N7	2.88	0.42
44:DN:15:LEU:HD13	44:DN:15:LEU:C	2.40	0.42
11:AK:116:HIS:O	11:AK:117:ASN:HB3	2.19	0.42
35:BA:2483:C:N3	47:BQ:124:LYS:NZ	2.65	0.42
35:DA:2023:G:C2	35:DA:2024:G:C5	3.06	0.42
35:DA:296:C:C2'	35:DA:297:C:H5'	2.50	0.42
7:AG:26:PHE:O	7:AG:30:ILE:HG12	2.20	0.42
35:DA:29:U:H2'	35:DA:30:G:H8	1.84	0.42
21:CU:17:THR:O	21:CU:22:ARG:NH1	2.51	0.42
43:BI:133:HIS:CG	43:BI:134:PRO:HD2	2.53	0.42
42:DH:76:VAL:O	42:DH:77:LYS:C	2.57	0.42
35:BA:2261:C:O4'	35:BA:2388:A:H1'	2.19	0.42
46:DP:16:ARG:NH1	46:DP:18:ARG:CG	2.80	0.42
5:CE:112:LEU:O	5:CE:114:GLY:N	2.52	0.42
25:CY:86:SER:O	25:CY:88:LEU:N	2.51	0.42
1:CA:1348:U:H2'	1:CA:1349:A:H8	1.83	0.42
1:AA:1148:U:H2'	1:AA:1149:C:O4'	2.20	0.42
12:CL:48:PRO:HD2	12:CL:49:ASN:OD1	2.18	0.42
1:CA:522:C:N4	12:CL:53:ARG:NH2	2.59	0.42
1:CA:1372:U:OP1	9:CI:71:SER:HB3	2.19	0.42
9:CI:17:VAL:HG22	9:CI:63:ILE:CG2	2.46	0.42
9:CI:70:LYS:O	9:CI:73:GLN:HB2	2.19	0.42
9:CI:92:TYR:N	9:CI:92:TYR:CD1	2.85	0.42
46:BP:82:GLY:HA2	46:BP:113:LYS:O	2.19	0.42
23:AW:10:G:H22	23:AW:27:G:C1'	2.25	0.42
40:BF:160:ASN:ND2	40:BF:160:ASN:C	2.71	0.42
1:AA:777:A:H2'	1:AA:778:G:H8	1.84	0.42
40:BF:178:PRO:O	40:BF:180:GLY:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:201:THR:HG22	39:BE:202:LYS:N	2.34	0.42
35:BA:19:C:H2'	35:BA:20:C:H6	1.83	0.42
35:BA:2114:A:C3'	35:BA:2115:G:H5'	2.49	0.42
1:CA:1197:G:O2'	1:CA:1198:G:H5'	2.19	0.42
35:BA:2704:C:C2	35:BA:2705:A:C8	3.07	0.42
38:BD:79:VAL:HG12	38:BD:79:VAL:O	2.19	0.42
19:CS:33:THR:HG22	19:CS:49:ILE:HG22	2.01	0.42
26:B0:23:VAL:CG1	26:B0:24:LYS:N	2.82	0.42
35:BA:229:A:H3'	35:BA:230:U:C5'	2.42	0.42
1:AA:1405:G:O2'	1:AA:1406:U:C5'	2.67	0.42
35:BA:2545:G:C2	35:BA:2546:U:C2	3.06	0.42
28:D2:34:GLU:O	28:D2:36:ARG:N	2.51	0.42
2:CB:30:ARG:HG3	2:CB:31:TYR:CD2	2.55	0.42
35:BA:203:C:C6	35:BA:204:A:C8	3.07	0.42
35:DA:1526:G:H2'	35:DA:1527:G:C8	2.54	0.42
56:BZ:61:LEU:HB2	56:BZ:65:GLN:C	2.39	0.42
52:DV:1:MET:HE2	52:DV:44:LYS:HB3	2.01	0.42
35:DA:2408:U:C6	35:DA:2408:U:OP2	2.73	0.42
36:BB:66:A:O2'	36:BB:67:G:P	2.77	0.42
35:DA:648:G:O4'	35:DA:2351:G:H5''	2.19	0.42
35:BA:1906:G:O2'	35:BA:1907:G:H5'	2.19	0.42
10:AJ:22:LYS:C	10:AJ:22:LYS:HD2	2.39	0.42
1:CA:1376:U:O2'	1:CA:1377:A:H5'	2.18	0.42
15:CO:45:VAL:HG12	15:CO:46:HIS:ND1	2.34	0.42
35:DA:798:G:C6	35:DA:799:G:C6	3.07	0.42
1:AA:696:A:H1'	1:AA:786:G:O2'	2.19	0.42
35:DA:880:G:N1	35:DA:898:C:N4	2.68	0.42
53:DW:65:LEU:HD13	53:DW:68:ARG:HD2	2.01	0.42
35:BA:64:A:C2	35:BA:65:C:C2	3.08	0.42
44:BN:3:THR:C	44:BN:5:VAL:N	2.71	0.42
35:DA:817:C:O2'	35:DA:839:U:OP1	2.36	0.42
43:BI:25:TYR:O	43:BI:30:LEU:HG	2.20	0.42
29:B3:22:ALA:HB1	29:B3:46:ASN:HD22	1.84	0.42
56:BZ:163:LEU:HD23	56:BZ:163:LEU:H	1.81	0.42
35:BA:372:G:HO2'	35:BA:373:U:P	2.41	0.42
35:DA:2517:C:C6	35:DA:2542:A:N1	2.87	0.42
37:BC:56:GLN:NE2	37:BC:169:GLY:H	2.17	0.42
38:DD:203:ASN:O	38:DD:204:ILE:C	2.57	0.42
1:AA:125:U:H2'	1:AA:126:G:H8	1.84	0.42
36:BB:43:C:H4'	41:BG:66:GLN:NE2	2.34	0.42
35:DA:2785:C:H2'	35:DA:2786:U:H6	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:DG:80:PHE:O	41:DG:81:LYS:CB	2.68	0.42
6:CF:97:PHE:N	18:CR:30:ASP:OD1	2.52	0.42
35:DA:2594:C:H2'	35:DA:2595:G:O4'	2.18	0.42
4:AD:138:TYR:C	4:AD:138:TYR:HD2	2.23	0.42
35:DA:2768:C:C2'	35:DA:2769:C:H5'	2.49	0.42
6:AF:42:GLU:C	6:AF:44:GLY:H	2.22	0.42
35:DA:1560:G:H2'	35:DA:1561:G:C8	2.54	0.42
1:CA:482:A:H3'	1:CA:483:C:C6	2.54	0.42
35:DA:2228:G:C5	35:DA:2229:C:C5	3.07	0.42
35:BA:937:U:H2'	35:BA:938:G:O4'	2.19	0.42
35:DA:2374:C:O2'	35:DA:2375:G:H5'	2.19	0.42
35:BA:593:G:H2'	35:BA:594:U:H6	1.83	0.42
1:CA:353:A:H5'	1:CA:353:A:H8	1.84	0.42
35:BA:139(A):G:N2	54:BX:44:GLU:OE1	2.52	0.42
8:CH:95:VAL:HG22	8:CH:131:GLY:O	2.20	0.42
13:CM:4:ILE:HG22	13:CM:5:ALA:H	1.84	0.42
45:DO:102:VAL:HB	45:DO:106:LEU:HD11	2.02	0.42
45:DO:6:THR:O	45:DO:20:MET:HA	2.19	0.42
50:DT:28:VAL:HG11	50:DT:46:GLU:CD	2.38	0.42
50:DT:80:SER:O	50:DT:81:PRO:C	2.55	0.42
19:CS:78:ARG:HH11	19:CS:78:ARG:HG3	1.84	0.42
41:DG:18:GLU:O	41:DG:22:ARG:HB3	2.19	0.42
35:BA:1797:C:H2'	35:BA:1798:U:H6	1.84	0.42
38:BD:92:ILE:CD1	38:BD:92:ILE:C	2.88	0.42
1:CA:1079:G:H2'	1:CA:1080:A:H8	1.82	0.42
1:CA:15:G:C4	1:CA:16:A:C8	3.08	0.42
41:DG:102:PHE:HD1	41:DG:106:LEU:HD22	1.83	0.42
41:DG:70:VAL:HG23	41:DG:70:VAL:O	2.20	0.42
1:AA:1442(A):G:C2	50:BT:118:ARG:HB2	2.55	0.42
35:BA:1952:A:C6	35:BA:1953:A:C6	3.07	0.42
45:BO:6:THR:CG2	45:BO:7:TYR:N	2.74	0.42
45:BO:87:ILE:HG13	45:BO:91:LEU:HD13	2.00	0.42
50:BT:51:ARG:O	50:BT:61:PHE:HB2	2.20	0.42
56:BZ:100:VAL:O	56:BZ:123:ASP:HA	2.19	0.42
35:DA:1495:A:OP2	35:DA:1495:A:O4'	2.37	0.42
35:BA:1003:G:N2	35:BA:1153:C:C2	2.87	0.42
35:BA:1153:C:C4	35:BA:1154:G:C2	3.07	0.42
51:BU:95:LEU:HD23	51:BU:95:LEU:HA	1.89	0.42
51:BU:97:ASP:O	51:BU:100:VAL:HG23	2.19	0.42
52:BV:34:GLU:O	52:BV:62:LEU:HG	2.19	0.42
42:DH:94:TYR:CZ	42:DH:160:LYS:HD2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:BX:60:ARG:HE	54:BX:74:PRO:CG	2.33	0.42
39:DE:44:TYR:CE2	39:DE:46:ALA:HB2	2.55	0.42
39:DE:53:PRO:O	39:DE:55:ASN:OD1	2.36	0.42
41:BG:156:ASP:O	41:BG:157:ILE:C	2.57	0.42
41:BG:133:LEU:O	41:BG:157:ILE:O	2.36	0.42
41:BG:167:GLU:O	41:BG:170:ARG:HB3	2.19	0.42
42:BH:121:ILE:HG22	42:BH:133:VAL:CG1	2.49	0.42
56:DZ:40:ASP:OD1	56:DZ:42:VAL:HG13	2.18	0.42
56:DZ:56:VAL:CG1	56:DZ:57:ILE:N	2.82	0.42
35:DA:537:C:C2	35:DA:538:G:C8	3.06	0.42
51:DU:57:PHE:CD1	51:DU:60:LEU:HD12	2.54	0.42
44:DN:41:ASP:CA	51:DU:64:ARG:NH1	2.83	0.42
52:DV:20:LEU:N	52:DV:20:LEU:HD12	2.35	0.42
52:DV:36:PRO:HG2	52:DV:60:GLU:CD	2.39	0.42
4:CD:111:ALA:HA	4:CD:116:GLN:OE1	2.19	0.42
4:CD:120:LEU:N	4:CD:120:LEU:CD1	2.69	0.42
4:CD:150:GLU:O	4:CD:153:ARG:N	2.51	0.42
35:BA:1019:U:H3	35:BA:1142(A):A:N6	2.03	0.42
44:DN:70:LYS:HG2	44:DN:87:LEU:HD23	2.02	0.42
35:BA:510:C:OP1	35:BA:511:U:OP2	2.37	0.42
35:BA:562:U:O2'	35:BA:563:G:H5''	2.19	0.42
51:BU:10:ARG:O	51:BU:11:ARG:C	2.58	0.42
48:BR:53:HIS:O	48:BR:56:LYS:HB3	2.19	0.42
50:BT:108:ARG:HH11	50:BT:108:ARG:CB	2.32	0.42
1:CA:908:A:N3	1:CA:909:A:C8	2.87	0.42
49:DS:74:ALA:HB2	49:DS:101:LEU:HD11	2.00	0.42
27:D1:26:ARG:HB3	27:D1:34:THR:OG1	2.20	0.42
35:DA:201:C:H2'	35:DA:202:U:H5'	2.00	0.42
1:CA:659:U:C2	1:CA:660:G:C8	3.07	0.42
15:CO:36:ILE:O	15:CO:37:ASN:C	2.57	0.42
2:CB:167:PRO:O	2:CB:170:GLU:N	2.42	0.42
35:DA:1187:G:H8	35:DA:1187:G:O5'	2.03	0.42
40:DF:83:PHE:O	40:DF:84:VAL:C	2.57	0.42
46:DP:35:HIS:O	46:DP:35:HIS:CD2	2.72	0.42
35:DA:83:G:C4	35:DA:102:G:N2	2.88	0.42
55:DY:31:LEU:CD1	55:DY:34:LYS:N	2.79	0.42
35:BA:404:C:C3'	35:BA:405:U:H5'	2.47	0.42
47:DQ:70:PRO:O	47:DQ:71:ASP:HB3	2.19	0.42
6:AF:96:PRO:HB3	18:AR:30:ASP:CG	2.39	0.42
2:AB:113:HIS:C	2:AB:115:LEU:N	2.73	0.42
35:BA:742:G:H1	35:BA:756:C:N4	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1409:C:O2	35:BA:1594:G:N2	2.52	0.42
25:AY:7:TYR:CD2	25:AY:160:GLU:HG2	2.54	0.42
1:CA:600:C:C4	1:CA:639:G:N1	2.88	0.42
26:B0:16:SER:HB3	35:BA:2261:C:H3'	2.02	0.42
35:DA:618:C:H2'	35:DA:619:G:C8	2.54	0.42
25:CY:76:LEU:O	25:CY:79:ILE:HB	2.20	0.42
43:DI:38:LEU:HD12	43:DI:38:LEU:N	2.11	0.42
1:AA:537:G:OP1	12:AL:113:ARG:NH2	2.52	0.42
1:AA:522:C:N4	12:AL:53:ARG:NH2	2.58	0.42
1:CA:807:A:H2'	1:CA:808:C:C6	2.54	0.42
12:AL:102:ARG:CD	12:AL:108:ALA:O	2.67	0.42
1:CA:536:C:H2'	1:CA:537:G:C8	2.54	0.42
9:CI:4:TYR:H	9:CI:4:TYR:HD1	1.67	0.42
38:BD:69:ARG:NH2	38:BD:128:GLY:O	2.53	0.42
46:BP:126:VAL:HG22	46:BP:145:PRO:CB	2.48	0.42
1:CA:453:A:C6	1:CA:454:C:C4	3.08	0.42
23:AW:28:U:O4	23:AW:44:A:N1	2.53	0.42
35:BA:1982:C:H3'	35:BA:1982:C:OP1	2.20	0.42
35:DA:2704:C:C5	35:DA:2705:A:N7	2.87	0.42
1:CA:1423:G:H5'	45:DO:49:ARG:NH2	2.34	0.42
35:BA:1416:G:HO2'	35:BA:1417:C:H6	1.64	0.42
5:AE:135:THR:O	5:AE:138:ALA:HB3	2.19	0.42
32:D6:15:GLU:CD	32:D6:18:ARG:HG3	2.40	0.42
35:BA:271(V):G:H2'	35:BA:271(W):G:C8	2.54	0.42
1:CA:106:C:O2'	1:CA:107:G:H5'	2.19	0.42
29:B3:40:THR:HA	29:B3:44:ARG:CZ	2.48	0.42
35:DA:1847:A:N3	35:DA:1847:A:C2'	2.81	0.42
13:AM:69:GLU:HB2	13:AM:72:ALA:HB3	2.01	0.42
35:BA:1340:U:C5	35:BA:1603:A:C1'	3.02	0.42
36:BB:97:G:C2	36:BB:98:G:C8	3.07	0.42
1:AA:723:U:H5''	1:AA:724:G:OP2	2.18	0.42
32:B6:22:ALA:HB2	32:B6:39:TYR:CE2	2.54	0.42
7:AG:47:CYS:C	7:AG:58:PRO:HG3	2.40	0.42
11:CK:104:GLN:O	11:CK:106:LYS:N	2.52	0.42
35:DA:1710:C:H2'	35:DA:1711:C:H6	1.82	0.42
35:DA:213:A:C2'	35:DA:214:G:H5'	2.50	0.42
1:CA:1271:G:C5'	1:CA:1314:C:H5''	2.43	0.42
43:BI:48:GLU:CD	43:BI:48:GLU:C	2.78	0.42
53:BW:50:VAL:HG13	53:BW:51:LEU:N	2.34	0.42
35:BA:481:G:O2'	35:BA:482:A:H8	2.02	0.42
35:DA:920:G:O2'	35:DA:921:G:H5'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2508:G:H2'	35:BA:2509:G:H8	1.83	0.42
1:AA:243:A:C2	1:AA:246:A:C8	3.06	0.42
7:AG:18:TYR:HE1	7:AG:44:TYR:CE2	2.38	0.42
7:AG:27:ILE:HG23	7:AG:40:ALA:N	2.34	0.42
35:BA:704:G:O2'	35:BA:726:G:N2	2.46	0.42
1:AA:189(I):G:H2'	1:AA:189(J):G:H8	1.83	0.42
35:DA:1853:A:H2'	35:DA:1854:A:C8	2.54	0.42
27:D1:56:GLN:NE2	27:D1:57:GLU:HB2	2.34	0.42
53:BW:65:LEU:HD22	53:BW:68:ARG:H	1.85	0.42
35:BA:2066:C:O2'	35:BA:2067:G:H5'	2.18	0.42
1:CA:1006:C:H2'	1:CA:1007:C:H6	1.84	0.42
1:AA:474:G:O2'	1:AA:475:G:H5'	2.20	0.42
35:DA:737:C:H2'	35:DA:738:G:O5'	2.18	0.42
29:D3:1:MET:O	29:D3:3:ARG:N	2.53	0.42
35:DA:39:C:C4	35:DA:40:C:N4	2.87	0.42
35:BA:68:G:N3	35:BA:68:G:H2'	2.34	0.42
35:DA:13:A:N6	35:DA:525:U:C5	2.87	0.42
2:CB:118:LEU:O	2:CB:119:GLU:C	2.58	0.42
35:DA:2548:G:C6	35:DA:2561:A:N1	2.87	0.42
35:BA:2658:C:N4	35:BA:2664:G:N2	2.68	0.42
35:BA:2768:C:C2'	35:BA:2769:C:H5'	2.50	0.42
36:BB:87:G:C2'	36:BB:88:C:H5''	2.49	0.42
1:AA:577:G:H1'	1:AA:816:A:N3	2.34	0.42
7:AG:130:GLY:C	7:AG:132:GLY:H	2.22	0.42
1:AA:594:G:H2'	1:AA:595:G:O4'	2.20	0.42
35:DA:749:C:C4	35:DA:1618:A:C2	3.07	0.42
35:BA:1956:U:C2'	35:BA:1957:C:H5'	2.49	0.42
35:BA:479:A:H61	35:BA:503:A:H61	1.67	0.42
5:AE:60:TYR:HE2	5:AE:64:ARG:NE	2.16	0.42
1:CA:1157:A:H1'	1:CA:1181:G:H21	1.85	0.42
35:DA:1283:G:N2	35:DA:1285:G:H3'	2.34	0.42
46:BP:29:LYS:CD	46:BP:29:LYS:N	2.82	0.42
3:AC:33:LEU:O	3:AC:36:ASP:HB3	2.19	0.42
34:B8:18:ALA:HB3	35:BA:651:G:H4'	2.01	0.42
7:CG:97:GLN:O	7:CG:98:SER:C	2.57	0.42
35:BA:2256:G:H2'	35:BA:2257:U:C6	2.55	0.42
27:D1:30:VAL:O	27:D1:30:VAL:HG12	2.19	0.42
12:AL:125:PRO:HG2	12:AL:125:PRO:O	2.19	0.42
36:DB:70:C:O2'	36:DB:71:C:H5'	2.17	0.42
35:DA:1973:G:H2'	35:DA:1974:C:C6	2.54	0.42
1:CA:1441:G:H5''	1:CA:1442:G:O4'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1755:A:H2	35:DA:2716:U:C1'	2.25	0.42
45:DO:104:ARG:NH1	45:DO:104:ARG:CB	2.78	0.42
50:DT:108:ARG:HH11	50:DT:108:ARG:CB	2.33	0.42
50:DT:74:ARG:C	50:DT:75:ILE:HD12	2.40	0.42
43:BI:118:LYS:HZ2	43:BI:119:PRO:HD2	1.84	0.42
43:BI:80:PRO:O	43:BI:81:VAL:C	2.58	0.42
1:CA:1050:G:N2	1:CA:1209:C:H1'	2.34	0.42
53:DW:29:LEU:HD21	53:DW:33:ARG:HH21	1.84	0.42
1:AA:774:G:H5'	38:BD:202:LYS:NZ	2.34	0.42
35:BA:1779:U:H5	35:BA:1784:A:N7	2.14	0.42
35:BA:1794:U:O2'	35:BA:1900:A:O2'	2.35	0.42
38:BD:243:GLY:O	38:BD:244:ARG:HB3	2.19	0.42
38:BD:271:ILE:O	38:BD:272:ALA:O	2.36	0.42
38:BD:46:GLN:OE1	38:BD:46:GLN:N	2.52	0.42
38:DD:34:VAL:CG2	38:DD:35:LYS:HZ2	2.32	0.42
41:DG:36:LYS:O	41:DG:159:VAL:HA	2.19	0.42
34:B8:40:GLU:CD	34:B8:44:LYS:HE3	2.39	0.42
35:BA:1989:G:C2'	35:BA:1990:C:H5'	2.50	0.42
35:BA:1663:C:N3	35:BA:1992:G:O6	2.52	0.42
45:BO:43:VAL:C	45:BO:45:GLU:N	2.73	0.42
47:BQ:115:MET:CE	47:BQ:133:ARG:HH21	2.33	0.42
56:BZ:99:TYR:HB3	56:BZ:100:VAL:H	1.64	0.42
56:BZ:6:LYS:CE	56:BZ:6:LYS:H	2.29	0.42
47:BQ:141:GLN:OE1	56:BZ:70:LEU:CB	2.68	0.42
35:DA:1416:G:H1'	35:DA:1417:C:C6	2.55	0.42
35:BA:1152:C:HO2'	51:BU:76:TYR:HE2	1.66	0.42
35:BA:559:G:O2'	35:BA:560:C:H5'	2.19	0.42
44:BN:12:ARG:NH2	44:BN:39:ARG:NH1	2.67	0.42
51:BU:46:ALA:O	51:BU:49:HIS:HB2	2.20	0.42
35:BA:60:G:H21	35:BA:74:A:H2'	1.85	0.42
54:BX:82:GLN:O	54:BX:85:PRO:HD2	2.19	0.42
35:DA:2787:C:H2'	35:DA:2787:C:O2	2.20	0.42
39:DE:87:GLU:O	39:DE:88:GLY:O	2.37	0.42
27:B1:16:ASN:ND2	27:B1:17:SER:O	2.52	0.42
41:BG:43:LEU:HD23	41:BG:44:GLY:N	2.24	0.42
54:DX:57:LEU:CB	54:DX:76:ARG:HD2	2.43	0.42
54:DX:81:VAL:O	54:DX:82:GLN:O	2.37	0.42
56:DZ:48:PHE:CE1	56:DZ:52:SER:HA	2.54	0.42
35:DA:1159:U:H2'	35:DA:1160:G:C5'	2.48	0.42
51:DU:101:ARG:C	51:DU:102:GLU:HG2	2.39	0.42
1:AA:1123:A:C4'	10:AJ:36:GLY:HA3	2.16	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1190:G:OP2	3:CC:5:ILE:HG23	2.19	0.42
35:BA:1863:G:H1	35:BA:1879:C:H42	1.66	0.42
49:BS:87:PHE:HB2	49:BS:106:ARG:HD3	2.00	0.42
49:BS:28:VAL:C	49:BS:89:ARG:HG2	2.39	0.42
1:CA:544:G:C4	1:CA:545:C:C5	3.07	0.42
43:DI:80:PRO:O	43:DI:81:VAL:C	2.58	0.42
39:BE:134:ILE:N	39:BE:134:ILE:CD1	2.80	0.42
27:D1:71:TYR:O	27:D1:74:VAL:N	2.52	0.42
34:D8:39:LYS:NZ	34:D8:40:GLU:HA	2.35	0.42
35:BA:1165:U:O2'	35:BA:1166:C:H5'	2.20	0.42
55:BY:76:CYS:CB	55:BY:77:PRO:CD	2.98	0.42
48:DR:28:LEU:C	48:DR:30:THR:N	2.72	0.42
48:DR:59:ASP:O	48:DR:61:HIS:N	2.53	0.42
48:DR:73:VAL:HG23	48:DR:74:LYS:H	1.84	0.42
48:BR:9:LYS:O	48:BR:10:LEU:CD2	2.67	0.42
36:DB:7:G:C5'	49:DS:29:PHE:HE2	2.33	0.42
36:DB:7:G:C4'	49:DS:29:PHE:CE2	2.95	0.42
2:AB:36:ARG:HG3	2:AB:37:ASN:N	2.34	0.42
2:AB:51:LEU:HB3	2:AB:55:PHE:CE2	2.51	0.42
44:BN:123:TYR:CD1	44:BN:123:TYR:N	2.87	0.42
6:CF:100:ASN:OD1	18:CR:26:LEU:O	2.36	0.42
15:CO:82:ILE:HG23	15:CO:83:GLU:N	2.33	0.42
18:CR:40:LEU:O	18:CR:43:PHE:N	2.52	0.42
2:CB:168:THR:O	2:CB:169:LYS:C	2.56	0.42
35:DA:2071:A:H2'	35:DA:2072:G:C8	2.54	0.42
4:AD:30:LYS:HB3	4:AD:35:ARG:HD2	2.01	0.42
43:DI:111:PRO:HA	43:DI:114:LEU:CD1	2.48	0.42
47:BQ:54:MET:HG3	47:BQ:64:ILE:CD1	2.50	0.42
35:DA:2029:G:H2'	35:DA:2031:A:OP2	2.19	0.42
35:DA:2736:G:C4	35:DA:2737:G:C8	3.07	0.42
42:DH:19:VAL:CG1	42:DH:20:ALA:N	2.83	0.42
25:CY:152:ASP:OD2	26:D0:5:LYS:CB	2.67	0.42
1:CA:551:U:O2'	12:CL:86:ARG:HD2	2.19	0.42
1:CA:1225:A:H2'	1:CA:1225:A:N3	2.34	0.42
1:AA:376:G:H5''	16:AP:5:ARG:HB2	2.01	0.42
16:AP:38:TYR:CE1	16:AP:50:LYS:HB3	2.55	0.42
16:AP:67:THR:CG2	16:AP:69:THR:HG23	2.49	0.42
20:CT:35:THR:O	20:CT:36:LEU:C	2.58	0.42
25:AY:131:ASN:C	25:AY:133:ARG:H	2.23	0.42
25:AY:15:GLN:HA	25:AY:15:GLN:OE1	2.20	0.42
51:BU:21:ALA:O	51:BU:22:LYS:C	2.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CK:26:ASN:O	11:CK:27:ASN:CB	2.68	0.42
35:BA:2250:G:H8	35:BA:2496:C:H5''	1.84	0.42
35:BA:307:G:N2	35:BA:309:G:H3'	2.34	0.42
35:DA:225:A:H2'	35:DA:226:G:O4'	2.19	0.42
35:DA:660:G:H4'	40:DF:38:ARG:NH1	2.34	0.42
5:AE:67:VAL:HG22	5:AE:68:GLU:O	2.20	0.42
2:CB:112:VAL:HG22	2:CB:149:LEU:HD22	2.01	0.42
12:AL:119:LYS:C	12:AL:121:GLY:N	2.73	0.42
9:AI:83:ARG:HA	9:AI:86:VAL:HG12	2.00	0.42
56:DZ:19:ARG:NH2	56:DZ:84:GLU:OE2	2.53	0.42
12:AL:55:VAL:CG1	12:AL:56:ALA:N	2.80	0.42
46:DP:80:TYR:CE1	46:DP:111:ARG:HG2	2.55	0.42
38:BD:134:ARG:HB2	38:BD:135:PHE:H	1.64	0.42
35:BA:637:A:OP2	46:BP:115:LEU:HB2	2.19	0.42
16:CP:73:LEU:CD2	16:CP:73:LEU:N	2.81	0.42
56:BZ:19:ARG:NH1	56:BZ:19:ARG:CB	2.82	0.42
35:BA:1786:A:N9	35:BA:1938:A:N6	2.59	0.42
19:CS:53:ASN:HD22	19:CS:55:LYS:H	1.66	0.42
33:B7:2:LYS:HG2	35:BA:1620:G:O2'	2.19	0.42
14:AN:8:GLU:C	14:AN:10:ALA:N	2.72	0.42
35:DA:768:G:O2'	35:DA:1379:A:N6	2.51	0.42
39:DE:201:THR:HG22	39:DE:203:LYS:HB3	2.01	0.42
23:AW:16:C:H1'	23:AW:61:U:H1'	2.01	0.42
1:CA:36:C:O2'	1:CA:37:U:H5'	2.19	0.42
35:DA:2832:U:C2	35:DA:2834:G:N2	2.87	0.42
1:CA:277:C:OP1	17:CQ:41:LYS:HE3	2.19	0.42
35:DA:1300:U:O2	35:DA:1626:G:C4	2.72	0.42
1:CA:1054:C:OP1	1:CA:1197:G:OP2	2.37	0.42
35:DA:1980:G:C2	35:DA:1982:C:C4	3.07	0.42
5:CE:80:ILE:CD1	5:CE:91:LEU:HB2	2.49	0.42
35:BA:2627:G:C2	35:BA:2781:A:H2	2.37	0.42
35:DA:1619:G:C2	35:DA:1620:G:C8	3.08	0.42
35:DA:2186:G:H3'	35:DA:2187:G:H5''	2.01	0.42
35:DA:746:A:C5	35:DA:2611:U:H5''	2.54	0.42
1:AA:896:C:O2'	1:AA:897:C:H5'	2.19	0.42
35:DA:347:A:H2'	35:DA:348:G:H8	1.80	0.42
36:BB:99:G:O2'	36:BB:100:A:O4'	2.31	0.42
35:BA:1300:U:C2	35:BA:1626:G:C4	3.08	0.42
35:DA:229:A:H3'	35:DA:230:U:C5'	2.43	0.42
35:DA:2817:G:N2	35:DA:2836:U:H1'	2.27	0.42
35:DA:1711:C:H2'	35:DA:1712:C:C6	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1271:G:C5'	1:AA:1314:C:H5''	2.42	0.42
48:DR:7:GLY:O	48:DR:8:ARG:O	2.37	0.42
5:AE:152:ARG:HG2	8:AH:43:GLY:O	2.18	0.42
35:DA:2407:G:C2	35:DA:2408:U:C4	3.07	0.42
35:BA:2290:G:H1	35:BA:2342:C:N4	2.17	0.42
53:BW:35:ILE:HD13	53:BW:35:ILE:HA	1.88	0.42
35:BA:1034:G:C2	35:BA:1122:G:H1'	2.54	0.42
10:AJ:32:ALA:N	10:AJ:78:ASN:HD21	2.17	0.42
12:CL:76:ASN:C	12:CL:77:LEU:HD23	2.40	0.42
35:BA:2508:G:C2	35:BA:2582:G:C6	3.08	0.42
40:DF:32:LEU:CD2	40:DF:33:LEU:N	2.82	0.42
25:CY:72:ASP:O	25:CY:75:ALA:N	2.52	0.42
1:CA:783:C:N4	1:CA:784:C:H41	2.17	0.42
4:AD:192:GLU:C	4:AD:194:LEU:N	2.72	0.42
3:AC:58:GLU:HB2	3:AC:65:ALA:HB2	2.00	0.42
7:CG:15:ASP:HB3	7:CG:20:ASP:H	1.85	0.42
7:CG:16:LEU:HD11	9:CI:42:ARG:HA	2.01	0.42
8:AH:78:GLN:OE1	8:AH:78:GLN:HA	2.20	0.42
1:AA:1155:G:H2'	1:AA:1156:G:H5'	2.01	0.42
35:DA:1680:U:O2	35:DA:1763:G:H3'	2.19	0.42
43:BI:28:ASN:C	43:BI:32:PRO:HG2	2.39	0.42
43:BI:25:TYR:CE2	43:BI:29:TYR:CD2	3.07	0.42
1:CA:785:G:C2'	1:CA:786:G:H5'	2.50	0.42
35:BA:826:U:H2'	35:BA:828:U:O4'	2.20	0.42
35:BA:438:G:H2'	35:BA:440:G:C8	2.54	0.42
1:CA:751:U:H2'	1:CA:752:G:H5'	2.02	0.42
54:BX:88:LYS:HB3	54:BX:89:ILE:HD12	2.02	0.42
54:BX:89:ILE:HA	54:BX:92:LEU:HB2	2.02	0.42
35:DA:1764:G:O2'	35:DA:1765:C:H5'	2.19	0.42
35:BA:2023:G:O2'	35:BA:2024:G:H5'	2.20	0.42
1:CA:868:C:H2'	1:CA:869:G:O4'	2.19	0.42
13:AM:43:THR:HB	13:AM:44:ARG:H	1.60	0.42
35:BA:948:G:H1'	35:BA:984:A:C2	2.54	0.42
1:CA:574:A:HO2'	1:CA:882:C:HO2'	1.67	0.42
35:BA:1912:A:C2	35:BA:1919:A:C5	3.07	0.42
35:DA:1354:A:H2'	35:DA:1355:G:H5'	2.01	0.42
35:DA:2531:A:C2	35:DA:2658:C:O2	2.73	0.42
35:BA:1267:U:O2	35:BA:1267:U:C2'	2.65	0.42
15:AO:43:LEU:C	15:AO:45:VAL:N	2.72	0.42
7:AG:133:GLY:HA2	7:AG:136:LYS:HG2	2.01	0.42
20:CT:93:GLU:N	20:CT:93:GLU:OE1	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:39:G:O2'	1:AA:40:C:H5'	2.20	0.42
1:AA:27:G:H2'	1:AA:28:G:C8	2.54	0.42
35:DA:253:C:C2'	35:DA:254:G:H5'	2.49	0.42
35:BA:218:A:O2'	35:BA:219:G:H5'	2.19	0.42
46:DP:98:GLU:HA	46:DP:98:GLU:OE1	2.20	0.42
17:AQ:6:LEU:HD23	17:AQ:6:LEU:HA	1.90	0.42
36:DB:39:A:H2'	36:DB:39:A:N3	2.35	0.42
35:DA:2866:U:C6	35:DA:2868:A:C1'	3.02	0.42
45:DO:104:ARG:NH2	50:DT:33:LYS:CE	2.82	0.42
45:DO:62:VAL:O	45:DO:63:VAL:CG1	2.67	0.42
50:DT:119:LYS:O	50:DT:123:GLN:HG2	2.19	0.42
50:DT:50:ILE:HD11	50:DT:64:ARG:HB3	2.02	0.42
35:BA:1789:A:O2'	35:BA:1790:C:H5'	2.19	0.42
38:BD:96:HIS:ND1	38:BD:102:LYS:HD2	2.35	0.42
38:DD:265:PRO:O	38:DD:266:SER:C	2.58	0.42
41:DG:107:LEU:HD23	41:DG:111:LEU:CD1	2.49	0.42
35:BA:2287:A:N6	35:BA:2344:U:N3	2.68	0.42
35:BA:2679:A:C6	35:BA:2680:C:C4	3.07	0.42
35:BA:2864:G:OP1	50:BT:119:LYS:HD2	2.19	0.42
50:BT:52:ILE:HA	50:BT:61:PHE:HA	2.01	0.42
56:BZ:129:SER:HA	56:BZ:130:PRO:HD3	1.87	0.42
56:BZ:85:HIS:ND1	56:BZ:86:VAL:N	2.68	0.42
35:BA:2810:A:N6	35:BA:2891:G:H1'	2.35	0.42
1:AA:1063:C:H3'	1:AA:1064:G:H2'	2.00	0.42
1:AA:1188:A:H2'	1:AA:1189:C:O4'	2.19	0.42
1:AA:1192:C:P	3:AC:4:LYS:HZ1	2.43	0.42
51:BU:111:GLU:O	51:BU:112:ARG:C	2.57	0.42
51:BU:57:PHE:CD1	51:BU:60:LEU:HD12	2.54	0.42
1:AA:951:G:C2	1:AA:1231:G:C4	3.07	0.42
14:AN:34:TYR:O	14:AN:36:PHE:N	2.53	0.42
35:BA:61:G:H1	35:BA:94:C:N4	2.16	0.42
39:DE:33:VAL:CG1	39:DE:89:ASP:N	2.73	0.42
27:B1:13:ILE:CG1	27:B1:14:VAL:H	2.13	0.42
27:B1:73:LEU:HA	27:B1:76:ARG:HH11	1.80	0.42
41:BG:107:LEU:HD23	41:BG:111:LEU:CD1	2.49	0.42
41:BG:174:GLU:C	41:BG:176:LEU:N	2.73	0.42
41:BG:4:ASP:O	41:BG:5:VAL:HG22	2.20	0.42
35:DA:58:G:N3	35:DA:70:G:C2	2.87	0.42
54:DX:23:GLU:HG3	54:DX:24:GLY:N	2.34	0.42
54:DX:61:GLY:H	54:DX:70:LEU:CD2	2.32	0.42
42:BH:105:LEU:HD22	42:BH:105:LEU:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:122:THR:CB	42:BH:134:SER:HB2	2.44	0.42
56:DZ:58:VAL:O	56:DZ:59:LEU:C	2.58	0.42
51:DU:103:PRO:C	51:DU:105:VAL:N	2.71	0.42
51:DU:111:GLU:O	51:DU:115:ALA:CB	2.67	0.42
51:DU:83:LEU:HD12	51:DU:113:ALA:HB2	2.00	0.42
51:DU:95:LEU:HD23	51:DU:95:LEU:HA	1.88	0.42
47:DQ:55:VAL:C	47:DQ:57:HIS:N	2.72	0.42
1:CA:435:C:N3	1:CA:436:C:C5	2.88	0.42
35:BA:1142(A):A:O2'	35:BA:1143:A:H3'	2.20	0.42
44:BN:96:GLU:N	44:BN:96:GLU:OE2	2.50	0.42
35:BA:618:C:H2'	35:BA:619:G:H8	1.84	0.42
46:BP:19:VAL:C	46:BP:20:GLY:O	2.58	0.42
35:DA:389:G:N1	46:DP:71:VAL:CG1	2.81	0.42
27:B1:37:ILE:N	27:B1:37:ILE:HD12	2.16	0.42
27:B1:38:SER:OG	27:B1:39:LYS:N	2.53	0.42
35:BA:573:G:O2'	35:BA:574:C:H3'	2.19	0.42
40:DF:185:ASP:OD1	40:DF:188:ARG:HD2	2.20	0.42
48:BR:28:LEU:HD12	48:BR:29:LEU:HD13	2.01	0.42
50:BT:101:PHE:C	50:BT:101:PHE:HD2	2.23	0.42
41:DG:165:THR:OG1	41:DG:168:GLU:OE1	2.30	0.42
41:DG:28:VAL:HG12	41:DG:28:VAL:O	2.19	0.42
2:AB:59:GLU:O	2:AB:63:MET:HG2	2.19	0.42
44:DN:99:LEU:HD22	44:DN:99:LEU:HA	1.84	0.42
44:BN:22:THR:N	44:BN:61:ARG:HB2	2.34	0.42
35:DA:1257:C:H2'	35:DA:1258:C:C6	2.55	0.42
35:DA:2059:A:C5	35:DA:2503:A:C2	3.07	0.42
55:DY:71:LYS:HB2	55:DY:71:LYS:HZ2	1.84	0.42
17:AQ:29:HIS:CG	17:AQ:30:PRO:HD2	2.55	0.42
4:AD:10:ARG:C	4:AD:13:ARG:HB3	2.38	0.42
4:AD:63:LYS:N	4:AD:66:ARG:HH12	2.17	0.42
43:DI:102:SER:HB2	43:DI:109:ILE:HG23	2.01	0.42
1:AA:719:C:H2'	1:AA:720:C:H5'	2.01	0.42
6:AF:21:LEU:O	6:AF:22:GLU:C	2.58	0.42
47:BQ:54:MET:CG	47:BQ:64:ILE:HD13	2.50	0.42
35:DA:563:G:C6	35:DA:2018:G:C5	3.08	0.42
44:DN:79:PRO:HG2	44:DN:80:GLY:N	2.34	0.42
2:AB:142:LEU:HA	2:AB:145:LEU:HB3	2.02	0.42
51:DU:7:GLY:O	51:DU:8:VAL:CG2	2.68	0.42
25:CY:175:LEU:O	25:CY:178:LYS:HB2	2.20	0.42
35:BA:1242:A:N1	46:BP:8:PRO:CG	2.82	0.42
13:CM:83:ASP:CG	13:CM:84:ILE:H	2.23	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:26:ALA:C	25:AY:28:LEU:N	2.73	0.42
7:AG:91:VAL:CG1	7:AG:95:ARG:HD3	2.49	0.42
35:BA:2123:G:H1'	37:BC:175:VAL:CB	2.50	0.42
52:BV:78:LYS:C	52:BV:78:LYS:CD	2.88	0.42
16:CP:55:ARG:O	16:CP:58:TYR:N	2.52	0.42
25:AY:156:ARG:HH21	26:B0:6:ALA:CB	2.32	0.42
11:AK:30:VAL:HG21	11:AK:68:ALA:HB2	2.01	0.42
43:BI:94:ALA:HB1	43:BI:114:LEU:HD12	2.00	0.42
43:BI:132:PRO:O	43:BI:135:GLU:HG2	2.20	0.42
11:CK:60:ALA:C	11:CK:62:GLN:N	2.72	0.42
40:BF:132:VAL:CG2	40:BF:133:ASN:N	2.71	0.42
2:CB:153:ARG:O	2:CB:154:LEU:O	2.37	0.42
1:AA:826:C:H2'	1:AA:827:U:H6	1.83	0.42
33:D7:8:ASN:HD22	33:D7:9:ARG:H	1.59	0.42
19:AS:53:ASN:HD22	19:AS:55:LYS:H	1.64	0.42
15:CO:11:VAL:O	15:CO:14:GLU:HB3	2.19	0.42
16:CP:40:ASP:OD2	16:CP:40:ASP:C	2.56	0.42
40:BF:139:PHE:HB2	40:BF:166:ALA:HB1	2.00	0.42
1:AA:678:U:N3	1:AA:713:G:N2	2.68	0.42
1:AA:780:A:C2	1:AA:803:G:C6	3.08	0.42
35:DA:708:C:H5'	35:DA:709:U:OP2	2.20	0.42
35:BA:374:A:C2'	35:BA:375:C:H5'	2.50	0.42
31:D5:3:LYS:HB2	35:DA:747:U:C5	2.54	0.42
26:D0:51:VAL:HG13	26:D0:60:PHE:O	2.19	0.42
26:D0:77:ARG:NH2	35:DA:857:C:OP1	2.53	0.42
5:AE:73:ASN:HD22	5:AE:73:ASN:C	2.22	0.42
35:DA:1938:A:H4'	35:DA:1939:U:OP2	2.20	0.42
26:D0:55:ARG:C	26:D0:57:PHE:H	2.23	0.42
1:CA:66:G:H4'	1:CA:173:U:C4	2.52	0.42
13:CM:48:LEU:HD21	13:CM:53:VAL:CG2	2.49	0.42
35:BA:1298:C:H2'	35:BA:1299:G:O4'	2.19	0.42
9:AI:66:ARG:HB3	9:AI:66:ARG:HH11	1.85	0.42
38:DD:166:GLN:HB2	38:DD:174:ILE:HG22	2.01	0.42
25:CY:53:ASN:OD1	25:CY:54:GLN:N	2.43	0.42
16:CP:45:THR:O	16:CP:46:PRO:C	2.58	0.42
54:DX:88:LYS:HB3	54:DX:89:ILE:CD1	2.49	0.42
35:BA:962:G:C2'	35:BA:963:U:H5'	2.49	0.42
35:DA:214:G:O2'	35:DA:215:G:P	2.77	0.42
1:AA:149:A:O2'	1:AA:150:C:C6	2.69	0.42
35:BA:1005:C:H2'	35:BA:1006:C:C6	2.55	0.42
11:AK:79:SER:HA	11:AK:104:GLN:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:246:A:O3'	1:CA:247:G:H4'	2.19	0.42
35:DA:2291:U:OP1	35:DA:2381:C:H5'	2.19	0.42
1:CA:227:G:C6	1:CA:228:A:C6	3.08	0.42
1:CA:688:G:H5'	11:CK:46:GLY:C	2.39	0.42
53:BW:107:LEU:HA	53:BW:107:LEU:HD12	1.79	0.42
9:AI:45:ALA:O	9:AI:48:GLU:HB3	2.20	0.42
35:BA:1853:A:H1'	35:BA:2233:U:O2'	2.19	0.42
1:AA:1293:G:HO2'	1:AA:1294:G:H8	1.61	0.42
23:CW:67:C:H2'	23:CW:68:C:C6	2.55	0.42
1:AA:355:C:C2'	1:AA:356:A:H5'	2.50	0.42
1:CA:287:U:O2'	1:CA:288:A:H5'	2.19	0.42
35:DA:1323:U:H3	35:DA:1331:A:N6	2.13	0.42
3:CC:58:GLU:HB2	3:CC:65:ALA:HB2	2.01	0.42
1:AA:525:C:H2'	1:AA:526:C:C6	2.54	0.42
35:DA:1210:A:H1'	35:DA:1212:G:N3	2.33	0.42
1:AA:1003:G:H8	1:AA:1003:G:O5'	2.03	0.42
3:CC:206:GLU:O	3:CC:207:VAL:C	2.57	0.42
35:BA:1128:A:C2	35:BA:1129:A:C2	3.07	0.42
29:D3:51:ALA:C	29:D3:53:LEU:H	2.23	0.42
1:CA:525:C:H2'	1:CA:526:C:C6	2.55	0.42
35:BA:382:G:H1	35:BA:392:C:N4	2.18	0.42
1:AA:828:A:H2'	1:AA:829:G:O4'	2.19	0.42
11:AK:49:GLY:C	11:AK:50:TYR:HD2	2.23	0.42
35:BA:2790:A:C2'	35:BA:2790:A:N3	2.82	0.42
35:BA:2657:A:C5	35:BA:2658:C:C5	3.08	0.42
35:BA:1923:U:H2'	35:BA:1924:C:H6	1.84	0.42
1:AA:1420:C:H3'	1:AA:1420:C:C6	2.52	0.42
26:D0:56:ASP:O	26:D0:58:THR:N	2.53	0.42
35:BA:2228:G:H2'	35:BA:2229:C:C6	2.55	0.42
3:CC:22:TRP:HZ2	3:CC:36:ASP:OD1	2.02	0.42
1:CA:611:A:C2'	1:CA:612:C:H5'	2.50	0.42
35:BA:954:G:OP1	47:BQ:15:GLY:N	2.48	0.42
35:DA:936:C:H2'	35:DA:937:U:C6	2.54	0.42
36:BB:46:A:H2'	36:BB:47:C:C6	2.55	0.42
1:CA:699:C:H2'	1:CA:700:G:H8	1.84	0.42
53:BW:29:LEU:HD21	53:BW:33:ARG:NH2	2.34	0.42
45:DO:37:ASP:HB2	45:DO:62:VAL:HG23	2.01	0.42
45:DO:98:VAL:CG2	45:DO:99:PHE:N	2.82	0.42
50:DT:53:ARG:HG2	50:DT:53:ARG:NH1	2.26	0.42
43:BI:77:LEU:CD2	43:BI:101:LEU:HD13	2.50	0.42
38:BD:177:LEU:HB3	38:BD:178:PRO:CD	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1796:U:H2'	35:DA:1797:C:C6	2.55	0.42
35:DA:1819:A:H1'	35:DA:1821:A:C5	2.55	0.42
38:DD:267:SER:HA	38:DD:270:ILE:CG1	2.49	0.42
41:DG:125:PHE:CE2	41:DG:131:TYR:HD2	2.37	0.42
10:CJ:8:LEU:CA	10:CJ:96:ILE:HG22	2.49	0.42
34:B8:25:MET:CG	46:BP:64:LYS:HB2	2.50	0.42
34:B8:39:LYS:NZ	34:B8:40:GLU:HA	2.35	0.42
35:BA:2415:G:H2'	35:BA:2416:C:C6	2.55	0.42
47:DQ:23:GLY:CA	47:DQ:101:ARG:HB2	2.46	0.42
56:BZ:3:TYR:O	56:BZ:57:ILE:CG2	2.68	0.42
56:BZ:97:GLU:O	56:BZ:98:MET:CB	2.66	0.42
35:DA:1417:C:H2'	35:DA:1418:G:H5'	2.01	0.42
35:BA:2040:C:H2'	35:BA:2041:U:H6	1.82	0.42
51:BU:103:PRO:C	51:BU:105:VAL:N	2.73	0.42
51:BU:52:ARG:O	51:BU:55:ARG:N	2.52	0.42
1:AA:961:U:C2'	1:AA:962:C:H5'	2.50	0.42
19:AS:78:ARG:N	19:AS:78:ARG:CD	2.83	0.42
28:B2:55:ARG:CZ	35:BA:72:U:OP1	2.67	0.42
39:DE:1:MET:N	39:DE:84:PHE:HB2	2.34	0.42
41:BG:60:LEU:O	41:BG:63:ILE:CG1	2.55	0.42
28:D2:14:ARG:NE	28:D2:15:LYS:N	2.68	0.42
56:DZ:48:PHE:O	56:DZ:49:ARG:C	2.58	0.42
35:DA:1158:C:O2'	35:DA:1159:U:H6	2.02	0.42
44:DN:46:VAL:HG22	44:DN:47:ALA:H	1.84	0.42
51:DU:54:LYS:C	51:DU:56:ASP:H	2.23	0.42
51:DU:70:ARG:O	51:DU:73:GLY:N	2.43	0.42
36:BB:6:C:C4	36:BB:116:G:N1	2.88	0.42
49:BS:28:VAL:H	49:BS:89:ARG:CG	2.33	0.42
4:CD:172:PRO:C	4:CD:187:ARG:HH12	2.23	0.42
40:BF:41:LEU:HD11	40:BF:184:TYR:CE1	2.48	0.42
35:BA:2491:U:O2'	35:BA:2492:U:H5'	2.20	0.42
35:DA:2415:G:H4'	46:DP:67:MET:N	2.33	0.42
35:BA:1251:C:OP2	35:BA:1251:C:H2'	2.20	0.42
35:BA:961:C:C5	35:BA:2031:A:C2	3.08	0.42
35:BA:571:A:C5'	35:BA:2030:A:N6	2.73	0.42
40:DF:3:GLU:HB3	40:DF:20:LEU:O	2.19	0.42
40:DF:116:ASP:OD2	46:DP:5:ASP:N	2.53	0.42
35:DA:1279:G:H2'	35:DA:1280:G:C8	2.54	0.42
35:DA:1281:G:O6	35:DA:1286:A:N7	2.52	0.42
48:DR:2:ARG:CZ	48:DR:5:LYS:CE	2.97	0.42
1:AA:106:C:O2	1:AA:379:C:H4'	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:107:G:C2'	1:AA:108:G:H5'	2.50	0.42
1:AA:1473:A:H2'	1:AA:1474:G:C8	2.55	0.42
20:AT:38:LYS:HE2	20:AT:38:LYS:HB3	1.84	0.42
35:BA:1277:G:H2'	35:BA:1278:A:O4'	2.19	0.42
48:BR:20:LEU:CD1	48:BR:21:TYR:N	2.83	0.42
27:D1:38:SER:O	27:D1:39:LYS:HB3	2.18	0.42
44:DN:55:VAL:CG1	44:DN:56:ASN:N	2.82	0.42
35:DA:666:G:O2'	35:DA:667:U:H5'	2.19	0.42
40:DF:65:TRP:HZ3	40:DF:73:ALA:O	2.03	0.42
4:AD:162:LEU:O	4:AD:163:GLU:O	2.38	0.42
4:AD:176:LEU:HD12	4:AD:177:ASP:N	2.33	0.42
1:CA:1358:U:H2'	1:CA:1359:C:O4'	2.20	0.42
55:DY:31:LEU:CG	55:DY:34:LYS:HB2	2.50	0.42
55:DY:42:VAL:CB	55:DY:65:ALA:HB3	2.49	0.42
17:AQ:27:PHE:C	17:AQ:27:PHE:CD1	2.92	0.42
1:AA:545:C:OP1	4:AD:61:LYS:NZ	2.53	0.42
4:AD:15:GLU:N	4:AD:15:GLU:CD	2.73	0.42
47:DQ:12:GLN:HE21	47:DQ:72:LYS:HA	1.85	0.42
47:DQ:93:TYR:CD1	47:DQ:93:TYR:N	2.86	0.42
47:BQ:55:VAL:HG22	47:BQ:56:ARG:N	2.35	0.42
35:BA:2737:G:N3	35:BA:2738:A:C8	2.88	0.42
35:DA:2026:C:H2'	35:DA:2027:G:O4'	2.20	0.42
35:DA:511:U:O4	35:DA:512:G:C2	2.72	0.42
25:CY:10:THR:HG22	25:CY:14:MET:SD	2.59	0.42
25:CY:159:ALA:O	25:CY:162:GLN:HB3	2.18	0.42
25:CY:32:ARG:HA	25:CY:32:ARG:CZ	2.50	0.42
13:CM:120:LYS:CE	13:CM:120:LYS:HA	2.41	0.42
1:AA:377:G:OP1	16:AP:5:ARG:NH1	2.50	0.42
25:AY:28:LEU:HB3	25:AY:114:LEU:CD1	2.49	0.42
25:AY:175:LEU:C	25:AY:177:GLU:N	2.71	0.42
1:CA:1240:U:N3	7:CG:30:ILE:HG22	2.23	0.42
16:CP:60:LEU:H	16:CP:60:LEU:HG	1.61	0.42
11:AK:64:ALA:C	11:AK:66:LEU:N	2.73	0.42
40:DF:160:ASN:ND2	40:DF:160:ASN:C	2.72	0.42
11:AK:59:TYR:CE2	11:AK:63:LEU:HD11	2.53	0.42
8:AH:120:THR:HG23	8:AH:123:GLU:CD	2.40	0.42
2:CB:116:GLU:HG2	2:CB:116:GLU:H	1.56	0.42
1:AA:1402:C:O2	1:AA:1500:A:N1	2.52	0.42
5:CE:36:ASP:O	5:CE:37:ARG:CB	2.65	0.42
1:CA:1346:A:O3'	1:CA:1347:G:H4'	2.19	0.42
1:CA:1371:G:OP2	9:CI:11:LYS:HE3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:48:PRO:HD2	12:AL:49:ASN:OD1	2.19	0.42
8:AH:12:ARG:HA	8:AH:15:ASN:HD22	1.84	0.42
35:DA:1658:C:H2'	35:DA:1659:U:H6	1.84	0.42
9:AI:4:TYR:H	9:AI:4:TYR:HD1	1.68	0.42
35:DA:2173:A:H3'	35:DA:2173:A:P	2.60	0.42
35:BA:363(F):A:O2'	35:BA:364:C:C5	2.71	0.42
35:DA:740:U:C2	35:DA:758:C:H1'	2.55	0.42
35:DA:1266:G:H22	35:DA:2012:G:H2'	1.84	0.42
1:AA:446:G:C2'	1:AA:447:G:H5'	2.49	0.42
7:CG:64:GLN:HG2	7:CG:128:ALA:HB1	2.01	0.42
1:AA:778:G:H2'	1:AA:779:C:O4'	2.20	0.42
11:CK:21:ILE:HG13	11:CK:30:VAL:HG12	2.01	0.42
1:CA:1486:G:C6	1:CA:1487:G:N1	2.88	0.42
1:CA:267:C:OP2	17:CQ:67:LYS:HD2	2.19	0.42
1:AA:965:A:OP1	1:AA:1198:G:H5''	2.19	0.42
35:DA:2114:A:C3'	35:DA:2115:G:H5'	2.49	0.42
35:DA:856:C:H6	35:DA:856:C:H5''	1.84	0.42
5:AE:78:HIS:HB2	5:AE:79:GLU:H	1.69	0.42
1:CA:106:C:H2'	1:CA:107:G:H8	1.85	0.42
23:AW:72:C:H6	23:AW:72:C:O5'	2.02	0.42
1:CA:766:A:H62	1:CA:813:U:H3	1.66	0.42
29:B3:16:PRO:CB	29:B3:18:ASP:OD1	2.67	0.42
29:B3:17:LYS:O	29:B3:18:ASP:C	2.58	0.42
19:CS:42:PRO:O	19:CS:44:MET:N	2.47	0.42
35:BA:1714:G:H2'	35:BA:1717:G:C8	2.53	0.42
35:DA:1426:G:C6	35:DA:1427:A:N1	2.87	0.42
22:AV:34:A:O2'	22:AV:35:A:H5'	2.20	0.42
38:BD:257:LEU:HD23	38:BD:258:LYS:O	2.19	0.42
53:BW:19:LEU:HA	53:BW:19:LEU:HD12	1.84	0.42
35:DA:1635:G:O2'	35:DA:1636:C:H5'	2.19	0.42
35:DA:214:G:C2'	35:DA:215:G:OP2	2.67	0.42
48:BR:103:ARG:NH1	48:BR:103:ARG:CG	2.81	0.42
35:DA:1444:G:H2'	35:DA:1445(A):C:C5	2.55	0.42
1:CA:1387:G:H2'	1:CA:1388:C:C6	2.55	0.42
35:DA:2292:C:H2'	35:DA:2293:C:H6	1.84	0.42
1:AA:300:A:H2	1:AA:566:G:O6	2.03	0.42
45:DO:13:ASN:ND2	45:DO:96:THR:OG1	2.53	0.42
35:BA:1406:U:C3'	35:BA:1407:C:H6	2.30	0.42
35:BA:214:G:O2'	35:BA:215:G:P	2.77	0.42
7:CG:15:ASP:OD2	7:CG:44:TYR:OH	2.36	0.42
1:AA:630:G:H2'	1:AA:631:G:H5'	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:119:A:OP2	1:AA:288:A:N6	2.50	0.42
1:AA:287:U:O2'	1:AA:288:A:H5'	2.19	0.42
1:CA:901:A:C5	1:CA:902:G:H1'	2.54	0.42
3:CC:23:TYR:HA	10:CJ:11:PHE:HE1	1.81	0.42
35:BA:1514:U:C2	35:BA:1515:G:C8	3.08	0.42
29:B3:1:MET:O	29:B3:3:ARG:N	2.51	0.42
38:BD:109:ASP:HB2	38:BD:197:GLY:HA2	2.01	0.42
1:CA:1009:G:O2'	1:CA:1010:G:H5'	2.20	0.42
35:BA:2264:C:H2'	35:BA:2265:U:O4'	2.19	0.42
35:BA:702:G:N3	35:BA:731:C:N3	2.67	0.42
35:DA:1629:U:H2'	35:DA:1630:G:C8	2.55	0.42
35:DA:2183:C:O2'	35:DA:2184:G:H5'	2.19	0.42
35:BA:949:C:O2'	35:BA:950:G:H5'	2.20	0.42
44:BN:115:ARG:O	44:BN:118:LYS:HB2	2.20	0.42
1:CA:594:G:H2'	1:CA:595:G:O4'	2.19	0.42
56:DZ:137:ILE:CD1	56:DZ:157:LEU:HA	2.49	0.42
47:BQ:77:LYS:HA	47:BQ:78:PRO:HD3	1.84	0.42
1:AA:1235:U:O3'	21:AU:3:LYS:HB2	2.20	0.42
35:BA:790:C:OP1	35:BA:790:C:H4'	2.18	0.42
52:DV:57:VAL:O	52:DV:57:VAL:HG12	2.20	0.42
47:DQ:6:ARG:O	47:DQ:6:ARG:HG3	2.20	0.42
1:CA:73:G:C2	1:CA:97:G:N1	2.88	0.42
38:BD:147:LEU:HB3	38:BD:148:GLU:H	1.59	0.42
55:DY:62:GLU:OE1	55:DY:62:GLU:CA	2.68	0.42
35:DA:2864:G:OP1	50:DT:119:LYS:HD2	2.20	0.42
45:DO:24:VAL:O	45:DO:24:VAL:HG13	2.20	0.42
45:DO:78:ARG:HB3	50:DT:73:GLU:CG	2.50	0.42
1:CA:1060:C:H4'	10:CJ:52:GLY:CA	2.50	0.42
14:CN:29:ARG:HH12	14:CN:31:ARG:CG	2.33	0.42
35:BA:1826:G:H4'	38:BD:242:ARG:CZ	2.49	0.42
38:BD:270:ILE:O	38:BD:271:ILE:HG13	2.20	0.42
38:BD:43:ARG:HB3	38:BD:54:ARG:HB2	2.01	0.42
35:DA:1793:C:O2'	35:DA:1794:U:H5'	2.20	0.42
16:CP:2:VAL:O	16:CP:2:VAL:HG22	2.20	0.42
16:CP:34:GLU:OE1	16:CP:36:ILE:HG23	2.20	0.42
41:DG:133:LEU:N	41:DG:133:LEU:HD12	2.34	0.42
41:DG:142:PRO:HG2	41:DG:143:GLU:N	2.34	0.42
41:DG:146:TYR:O	41:DG:146:TYR:HD2	2.03	0.42
35:BA:2725:A:N7	35:BA:2727:G:C5	2.87	0.42
35:BA:2863:C:C3'	35:BA:2864:G:C5'	2.98	0.42
45:BO:11:ALA:O	45:BO:98:VAL:HG23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BT:83:ILE:O	50:BT:84:GLN:C	2.58	0.42
56:BZ:99:TYR:O	56:BZ:100:VAL:CB	2.68	0.42
35:DA:2513:G:C6	35:DA:2514:U:C4	3.08	0.42
35:BA:2809:A:C2'	35:BA:2810:A:H5'	2.50	0.42
1:AA:1191:A:H5''	3:AC:4:LYS:HZ2	1.84	0.42
44:BN:44:PRO:C	44:BN:46:VAL:N	2.72	0.42
54:BX:82:GLN:CD	54:BX:83:VAL:HG22	2.40	0.42
35:BA:2206:G:N1	35:BA:2208:A:OP1	2.53	0.42
35:BA:395:U:H1'	35:BA:396:G:N7	2.35	0.42
41:BG:46:ALA:CA	41:BG:51:ARG:HG3	2.50	0.42
41:BG:7:LEU:O	41:BG:11:TYR:N	2.46	0.42
55:DY:86:ARG:CB	55:DY:88:LYS:HZ2	2.25	0.42
54:DX:78:LYS:HD3	54:DX:78:LYS:C	2.40	0.42
47:DQ:134:ARG:CG	47:DQ:135:ASP:N	2.82	0.42
1:CA:1320:C:P	19:CS:70:LYS:HE3	2.60	0.42
49:BS:54:LEU:O	49:BS:57:LYS:N	2.52	0.42
49:BS:77:ALA:O	49:BS:79:ALA:N	2.52	0.42
4:CD:105:VAL:HG13	4:CD:110:PHE:HB2	2.02	0.42
46:BP:18:ARG:HE	46:BP:18:ARG:HB3	1.58	0.42
40:DF:25:PRO:HB3	40:DF:119:ARG:CD	2.50	0.42
48:DR:53:HIS:O	48:DR:56:LYS:HB2	2.19	0.42
48:BR:31:HIS:O	48:BR:33:ARG:N	2.52	0.42
48:BR:54:LEU:HD22	48:BR:66:VAL:HG22	2.01	0.42
36:DB:7:G:H5'	36:DB:8:U:OP2	2.20	0.42
49:DS:43:GLU:HB2	49:DS:44:LYS:H	1.63	0.42
49:DS:73:LEU:O	49:DS:74:ALA:C	2.58	0.42
45:BO:115:VAL:O	45:BO:118:ALA:HB3	2.19	0.42
6:CF:67:MET:HB2	6:CF:68:PRO:CD	2.48	0.42
15:CO:64:ARG:O	15:CO:66:LEU:N	2.53	0.42
18:CR:76:LEU:C	18:CR:78:LEU:H	2.23	0.42
34:D8:22:VAL:HB	34:D8:53:PRO:HB3	1.97	0.42
35:DA:2059:A:H62	35:DA:2503:A:H2'	1.85	0.42
35:DA:671:C:C5	46:DP:36:LYS:NZ	2.86	0.42
35:DA:664:C:H4'	35:DA:941:A:OP1	2.20	0.42
35:DA:1213:A:H2'	35:DA:1214:A:C8	2.48	0.42
1:AA:434:U:H2'	1:AA:435:C:N1	2.33	0.42
1:AA:1320:C:H5'	19:AS:70:LYS:HD3	2.02	0.42
4:AD:58:LEU:C	4:AD:58:LEU:HD13	2.40	0.42
35:DA:870:A:C2	35:DA:871:U:H1'	2.55	0.42
18:AR:73:ALA:HB1	18:AR:78:LEU:HB2	2.01	0.42
1:CA:1518:A:C2	1:CA:1519:A:N1	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BP:7:ARG:HA	46:BP:7:ARG:HD2	1.85	0.42
1:CA:1228:C:OP1	13:CM:115:LYS:HG3	2.19	0.42
13:CM:91:ARG:CB	13:CM:96:LEU:O	2.65	0.42
1:CA:1443:G:C6	1:CA:1444:C:N4	2.88	0.42
35:BA:2128:C:H5'	35:BA:2173:A:H2	1.85	0.42
25:AY:150:SER:OG	25:AY:153:GLU:CG	2.65	0.42
1:AA:686:U:C5	1:AA:687:A:N6	2.87	0.42
43:BI:115:ALA:HB2	43:BI:129:THR:O	2.19	0.42
35:DA:2744:G:N2	35:DA:2761:G:C4	2.88	0.42
1:CA:640:A:H2'	1:CA:641:U:H5'	2.00	0.42
55:BY:28:LYS:O	55:BY:37:VAL:C	2.58	0.42
2:CB:101:MET:HB2	2:CB:102:LEU:CD1	2.47	0.42
1:CA:1103:C:H5''	2:CB:98:LEU:CD1	2.50	0.42
1:AA:261:U:OP2	20:AT:79:ARG:NH2	2.53	0.42
52:DV:78:LYS:CD	52:DV:78:LYS:C	2.88	0.42
5:AE:126:ARG:HG3	5:AE:126:ARG:HH11	1.85	0.42
18:AR:53:ARG:O	18:AR:54:ARG:C	2.58	0.42
9:AI:54:ASP:O	9:AI:58:ARG:HB2	2.20	0.42
8:CH:60:ARG:HG3	8:CH:60:ARG:NH1	2.34	0.42
1:CA:1148:U:H2'	1:CA:1149:C:O4'	2.20	0.42
35:DA:1313:U:H2'	35:DA:1610:A:C2	2.54	0.42
31:D5:13:LYS:HZ1	35:DA:516:C:P	2.43	0.42
16:CP:67:THR:CG2	16:CP:69:THR:HG23	2.49	0.42
1:CA:709:G:C4	1:CA:710:G:C8	3.08	0.42
35:BA:1615:C:C5	35:BA:1617:C:C2	3.08	0.42
53:BW:86:LEU:HA	53:BW:87:PRO:HD3	1.83	0.42
35:DA:2206:G:N1	35:DA:2208:A:OP1	2.53	0.42
35:DA:2220:G:C4	35:DA:2221:G:C8	3.07	0.42
1:CA:1117:G:N2	1:CA:1180:A:H1'	2.35	0.42
55:BY:8:LYS:HD2	55:BY:8:LYS:N	2.20	0.42
1:AA:1071:C:H2'	1:AA:1072:G:H8	1.84	0.42
1:AA:1074:G:O2'	2:AB:103:THR:HG21	2.20	0.42
54:DX:62:LYS:CB	54:DX:68:ARG:HB2	2.41	0.42
1:CA:1508:G:C4	1:CA:1509:C:C6	3.07	0.42
37:BC:59:ARG:HB2	37:BC:62:VAL:CG2	2.39	0.42
37:BC:59:ARG:O	37:BC:62:VAL:HG22	2.20	0.42
5:AE:76:ILE:CG2	5:AE:77:PRO:N	2.83	0.42
32:D6:47:THR:CG2	32:D6:48:VAL:N	2.82	0.42
35:BA:98:G:H2'	35:BA:98:G:N3	2.34	0.42
1:CA:60:A:H4'	1:CA:61:G:O5'	2.19	0.42
1:CA:1277:C:H4'	1:CA:1282:C:O2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D3:12:PRO:HA	29:D3:15:TYR:HD1	1.84	0.42
35:DA:966:G:C1'	35:DA:2267:A:H62	2.33	0.42
13:CM:36:LYS:HB2	13:CM:59:TYR:CZ	2.55	0.42
35:DA:656:G:C6	35:DA:657:U:C4	3.08	0.42
46:DP:56:SER:O	46:DP:57:THR:CB	2.66	0.42
54:BX:15:GLU:O	54:BX:19:ALA:N	2.45	0.42
53:BW:20:VAL:O	53:BW:21:VAL:C	2.58	0.42
38:DD:257:LEU:HD23	38:DD:258:LYS:C	2.40	0.42
35:BA:171:G:C5	35:BA:172:C:C5	3.07	0.42
11:AK:107:SER:C	11:AK:108:ILE:HD12	2.40	0.42
53:BW:46:PHE:C	53:BW:48:ALA:N	2.71	0.42
10:AJ:78:ASN:O	10:AJ:80:LYS:N	2.53	0.42
1:CA:29:G:H5'	1:CA:296:U:OP1	2.19	0.42
1:AA:929:G:O2'	1:AA:930:C:H5'	2.19	0.42
35:DA:6:A:C2'	44:DN:130:HIS:HB2	2.49	0.42
1:CA:68:G:N2	1:CA:69:G:H1'	2.35	0.42
1:AA:69:G:H2'	1:AA:70:G:C8	2.55	0.42
53:DW:65:LEU:HD21	53:DW:67:ASP:HB2	2.02	0.42
53:BW:65:LEU:HD21	53:BW:67:ASP:HB2	2.01	0.42
1:AA:783:C:C6	1:AA:784:C:H5	2.36	0.42
35:BA:1681:G:H1'	35:BA:1763:G:H5'	2.01	0.42
17:AQ:63:ARG:HG2	17:AQ:64:PRO:HD2	2.02	0.42
1:CA:830:G:C6	1:CA:831:U:N3	2.87	0.42
50:BT:58:ASN:ND2	50:BT:58:ASN:H	2.17	0.42
38:BD:203:ASN:O	38:BD:204:ILE:C	2.57	0.42
1:CA:745:C:O2'	1:CA:746:A:H5'	2.19	0.42
1:CA:176:C:C2	1:CA:177:C:C5	3.08	0.42
35:DA:271(L):U:H5''	35:DA:271(M):G:C4	2.54	0.42
35:DA:1004:C:O4'	35:DA:1010:A:C6	2.73	0.42
36:BB:40:U:C2'	36:BB:41:U:OP1	2.67	0.42
1:AA:1132:C:C2'	1:AA:1133:G:H5'	2.50	0.42
35:BA:1381:G:O2'	35:BA:1382:G:H5'	2.19	0.42
35:DA:785:G:C6	35:DA:786:C:C4	3.08	0.42
35:DA:339:U:O5'	35:DA:339:U:H6	2.03	0.42
39:DE:71:GLY:O	39:DE:72:VAL:HB	2.20	0.42
35:DA:1560:G:H2'	35:DA:1561:G:H8	1.85	0.42
5:AE:60:TYR:CE2	5:AE:64:ARG:NH2	2.84	0.42
2:CB:17:PHE:O	2:CB:18:GLY:O	2.38	0.42
35:BA:139(A):G:H5'	35:BA:140:G:OP2	2.19	0.42
35:BA:1544:A:H2'	35:BA:1545:A:OP2	2.19	0.42
56:DZ:128:VAL:HG22	56:DZ:129:SER:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:BN:18:ALA:C	44:BN:20:GLY:N	2.73	0.42
35:BA:1208:C:C5	35:BA:1209:G:N7	2.88	0.42
37:DC:18:LYS:O	37:DC:20:TYR:N	2.52	0.42
4:CD:45:GLN:O	4:CD:46:LYS:HG3	2.20	0.42
25:CY:151:GLU:O	25:CY:151:GLU:HG2	2.20	0.42
43:DI:118:LYS:HB3	43:DI:118:LYS:HE3	1.88	0.42
35:BA:1321:A:H2'	35:BA:1321:A:N3	2.35	0.42
27:D1:20:ARG:HG2	27:D1:20:ARG:H	1.46	0.42
3:CC:37:GLN:NE2	14:CN:52:GLN:OE1	2.53	0.42
35:DA:1989:G:C2'	35:DA:1990:C:H5'	2.50	0.42
50:DT:84:GLN:HG3	50:DT:84:GLN:O	2.20	0.42
43:BI:123:LEU:HD11	43:BI:143:SER:O	2.19	0.42
41:DG:76:SER:HB3	41:DG:84:LYS:H	1.84	0.42
46:BP:65:ARG:O	46:BP:66:GLY:C	2.57	0.42
1:AA:1440:C:H2'	1:AA:1441:G:C8	2.55	0.42
56:BZ:132:ASN:O	56:BZ:134:PRO:HD3	2.19	0.42
56:BZ:4:ARG:HA	56:BZ:59:LEU:HD23	2.02	0.42
35:BA:71:A:C8	35:BA:71:A:H5'	2.54	0.42
35:BA:1341:U:H5'	54:BX:57:LEU:CD2	2.50	0.42
39:DE:3:GLY:O	39:DE:4:ILE:CG2	2.66	0.42
39:DE:48:GLN:C	39:DE:49:LEU:HD22	2.40	0.42
1:AA:1100:C:OP2	2:AB:96:ARG:HG2	2.20	0.42
41:BG:104:GLU:O	41:BG:106:LEU:N	2.53	0.42
41:BG:106:LEU:O	41:BG:110:ALA:HB3	2.19	0.42
41:BG:17:PRO:C	41:BG:19:LEU:N	2.73	0.42
34:B8:11:LYS:HA	34:B8:60:LEU:HD11	2.01	0.42
28:D2:17:SER:HG	28:D2:18:PRO:HD3	1.83	0.42
54:DX:61:GLY:N	54:DX:70:LEU:CD2	2.83	0.42
56:DZ:150:LEU:O	56:DZ:171:ILE:CG1	2.68	0.42
56:DZ:17:ALA:HA	56:DZ:20:ARG:HB3	2.01	0.42
47:DQ:140:ALA:HB2	56:DZ:99:TYR:CG	2.55	0.42
1:AA:1204:A:N1	1:AA:1205:U:O2	2.53	0.42
3:AC:150:LYS:HA	3:AC:168:ALA:O	2.19	0.42
49:BS:27:SER:O	49:BS:38:GLN:N	2.53	0.42
36:BB:29:A:OP2	49:BS:32:LEU:HB2	2.20	0.42
4:CD:108:LEU:HD12	4:CD:108:LEU:N	2.34	0.42
4:CD:172:PRO:HD2	4:CD:173:TRP:HZ3	1.82	0.42
40:BF:20:LEU:O	40:BF:21:ALA:O	2.37	0.42
35:BA:598:G:H5'	46:BP:15:ARG:CG	2.49	0.42
39:BE:143:ASN:ND2	39:BE:143:ASN:N	2.63	0.42
44:DN:63:THR:O	44:DN:64:GLY:C	2.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:11:ARG:O	3:CC:13:GLY:N	2.53	0.42
34:B8:22:VAL:CB	34:B8:53:PRO:HB2	2.37	0.42
34:B8:4:MET:HE2	34:B8:61:LEU:HD12	2.01	0.42
35:BA:808:G:O2'	35:BA:1254:A:O2'	2.29	0.42
35:BA:2244:U:H1'	35:BA:2434:A:C8	2.55	0.42
40:BF:82:ILE:C	40:BF:84:VAL:H	2.23	0.42
52:BV:82:ARG:CD	52:BV:82:ARG:C	2.88	0.42
35:BA:1285:G:H4'	48:BR:105:ARG:NH1	2.35	0.42
48:BR:53:HIS:ND1	48:BR:53:HIS:O	2.52	0.42
48:BR:53:HIS:O	48:BR:56:LYS:HB2	2.20	0.42
36:DB:7:G:O5'	49:DS:29:PHE:HE2	2.02	0.42
49:DS:38:GLN:CG	49:DS:39:ILE:N	2.80	0.42
49:DS:28:VAL:H	49:DS:89:ARG:CG	2.33	0.42
44:BN:60:ILE:O	44:BN:61:ARG:C	2.58	0.42
2:CB:69:LEU:HB2	2:CB:162:ILE:HG22	2.02	0.42
2:CB:197:VAL:HB	2:CB:200:ILE:HG12	2.01	0.42
35:DA:2061:G:O4'	35:DA:2503:A:C5	2.73	0.42
35:DA:585:G:C4	35:DA:1251:C:N4	2.87	0.42
35:DA:804:A:H2'	35:DA:806:C:C4	2.55	0.42
1:CA:1357:A:N7	1:CA:1358:U:C4	2.87	0.42
1:CA:1357:A:N6	1:CA:1363(A):A:H2	2.16	0.42
46:DP:148:LEU:HD22	46:DP:148:LEU:C	2.41	0.42
1:AA:821:G:O2'	1:AA:822:C:H5'	2.20	0.42
1:AA:502:G:C6	1:AA:544:G:C6	3.07	0.42
4:AD:62:GLN:HB3	4:AD:66:ARG:HH12	1.85	0.42
44:DN:15:LEU:HD12	44:DN:136:GLU:CB	2.50	0.42
35:BA:2735:G:H2'	35:BA:2736:G:H8	1.83	0.42
35:DA:2739:U:C2'	35:DA:2740:A:H5'	2.50	0.42
25:CY:3:LEU:C	25:CY:5:GLU:N	2.71	0.42
35:DA:15:G:C4	35:DA:16:G:C8	3.08	0.42
1:CA:1217:C:P	14:CN:5:ALA:HB1	2.60	0.42
1:CA:194:C:H4'	20:CT:65:LYS:HG3	2.01	0.42
25:AY:64:ARG:HA	25:AY:103:ILE:CG1	2.50	0.42
25:AY:67:VAL:O	25:AY:67:VAL:HG23	2.20	0.42
25:AY:127:VAL:O	25:AY:128:ALA:C	2.58	0.42
42:DH:46:GLU:CG	42:DH:51:ARG:HB2	2.50	0.42
35:BA:2127:G:H1'	35:BA:2128:C:C4'	2.46	0.42
42:BH:16:SER:HB2	42:BH:27:LYS:O	2.20	0.42
25:AY:156:ARG:NH2	47:BQ:80:GLU:CB	2.82	0.42
1:AA:709:G:C4	1:AA:710:G:C8	3.07	0.42
35:BA:770:G:C6	35:BA:771:G:N7	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:114:THR:CG2	8:CH:119:LEU:HD21	2.49	0.42
35:BA:99:U:OP1	35:BA:102:G:OP1	2.38	0.42
35:DA:225:A:O2'	35:DA:257:A:H4'	2.19	0.42
35:DA:607:U:H3	35:DA:621:A:H2	1.67	0.42
1:AA:259:G:H2'	1:AA:260:G:H8	1.83	0.42
20:AT:57:ARG:HB3	20:AT:58:LYS:H	1.71	0.42
2:CB:142:LEU:HA	2:CB:145:LEU:HB3	2.01	0.42
42:BH:44:VAL:HG12	42:BH:45:VAL:HG23	2.02	0.42
8:AH:26:VAL:CG2	8:AH:32:LYS:HZ3	2.29	0.42
35:BA:2538:C:C2'	35:BA:2539:C:C5'	2.98	0.42
1:AA:1350:A:C2	1:AA:1351:U:C2	3.07	0.42
12:CL:47:LYS:HD3	12:CL:48:PRO:HD3	2.02	0.42
33:D7:31:LEU:HD23	33:D7:42:LEU:HB3	2.01	0.42
38:BD:133:LEU:CB	38:BD:173:VAL:HG11	2.49	0.42
1:AA:381:C:H2'	1:AA:382:A:O4'	2.20	0.42
46:BP:106:LEU:HB3	46:BP:107:LYS:H	1.62	0.42
40:BF:150:GLY:HA2	40:BF:172:TRP:CD2	2.55	0.42
40:BF:160:ASN:HD21	40:BF:162:LEU:HB2	1.84	0.42
1:CA:708:C:H2'	1:CA:709:G:H8	1.84	0.42
35:BA:1264:G:H2'	35:BA:1265:A:C8	2.55	0.42
35:DA:723:G:C6	35:DA:724:U:C4	3.08	0.42
23:AW:16:C:O4'	23:AW:60:A:C2	2.72	0.42
1:AA:1103:C:H5''	2:AB:98:LEU:CD1	2.50	0.42
35:BA:707:G:H3'	35:BA:708:C:C6	2.55	0.42
7:AG:122:HIS:O	7:AG:123:GLU:C	2.58	0.42
35:DA:2883:A:C5'	35:DA:2884:U:H5'	2.50	0.42
35:DA:2884:U:C2'	35:DA:2885:C:H5'	2.46	0.42
17:AQ:67:LYS:C	17:AQ:69:LYS:H	2.23	0.42
1:CA:1197:G:C2'	1:CA:1198:G:H5'	2.50	0.42
35:BA:207:A:H2'	35:BA:208:C:O4'	2.20	0.42
35:BA:271(V):G:N3	35:BA:271(W):G:H1'	2.35	0.42
1:AA:835:U:H3	1:AA:851:G:H1	1.67	0.42
35:DA:2588:G:C6	35:DA:2589:A:C5	3.08	0.42
1:CA:460:G:C6	1:CA:470:C:H5''	2.55	0.42
5:CE:82:VAL:HG11	5:CE:134:ALA:O	2.20	0.42
5:CE:139:LEU:H	5:CE:139:LEU:HG	1.53	0.42
31:B5:2:ALA:N	35:BA:747:U:C4	2.88	0.42
5:CE:6:PHE:HB2	5:CE:34:VAL:HG12	2.01	0.42
35:DA:1619:G:N1	35:DA:1620:G:C5	2.88	0.42
35:BA:1707:G:O4'	35:BA:1756:G:H1'	2.20	0.42
1:CA:722:A:O2'	1:CA:723:U:C6	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:D6:28:ARG:HA	32:D6:32:ASN:CB	2.50	0.42
26:B0:55:ARG:C	26:B0:57:PHE:H	2.23	0.42
20:AT:83:ARG:HG2	20:AT:86:ARG:HD3	2.01	0.42
1:AA:1299:A:C8	1:AA:1301:U:C2	3.08	0.42
48:BR:7:GLY:O	48:BR:8:ARG:O	2.38	0.42
1:AA:657:G:N2	15:AO:22:THR:OG1	2.53	0.42
15:AO:55:GLY:O	15:AO:59:MET:HG3	2.19	0.42
54:DX:88:LYS:CD	54:DX:88:LYS:N	2.83	0.42
35:BA:1368:G:C6	35:BA:1369:G:N7	2.88	0.42
1:CA:349:A:C2'	1:CA:350:G:H5'	2.50	0.42
35:DA:915:C:H2'	35:DA:916:G:H8	1.85	0.42
1:AA:769:G:H1	1:AA:810:C:N4	2.18	0.42
35:DA:2102:U:O4'	35:DA:2102:U:O2	2.35	0.42
43:BI:55:ALA:O	43:BI:59:ALA:CB	2.68	0.42
53:BW:35:ILE:O	53:BW:36:LEU:C	2.57	0.42
53:BW:12:ILE:HD12	53:BW:42:ARG:NH1	2.34	0.42
10:AJ:23:ILE:HG23	10:AJ:85:LEU:HD22	2.02	0.42
36:BB:10:C:C4	36:BB:11:C:C5	3.08	0.42
1:CA:226:G:O2'	1:CA:227:G:H5'	2.20	0.42
1:AA:1206:G:H1'	3:AC:193:TYR:O	2.20	0.42
1:CA:178:C:O2'	1:CA:179:A:H5'	2.20	0.42
35:DA:7:G:H4'	44:DN:13:TRP:CZ2	2.54	0.42
29:D3:26:LEU:N	29:D3:26:LEU:HD23	2.35	0.42
31:B5:15:ARG:HG3	31:B5:15:ARG:NH1	2.34	0.42
36:BB:16:G:O2'	36:BB:17:C:H5'	2.20	0.42
1:AA:783:C:N4	1:AA:800:G:N2	2.67	0.42
46:DP:86:LYS:N	46:DP:117:GLU:O	2.52	0.42
39:BE:2:LYS:NZ	39:BE:95:ILE:O	2.33	0.42
3:AC:60:ALA:O	3:AC:61:ALA:HB2	2.20	0.42
23:AW:57:C:H2'	23:AW:58:A:C8	2.51	0.42
1:AA:745:C:O2'	1:AA:746:A:H5'	2.20	0.42
1:AA:652:U:C2	1:AA:752:G:N2	2.88	0.42
2:AB:114:ARG:HH11	2:AB:118:LEU:CD2	2.33	0.42
35:DA:2552:U:H2'	35:DA:2554:U:H5''	2.02	0.42
35:BA:2228:G:OP2	38:BD:263:ARG:NH2	2.53	0.42
35:DA:1831:G:H2'	35:DA:1832:C:H6	1.83	0.42
32:D6:43:CYS:O	32:D6:44:ARG:O	2.37	0.42
3:AC:22:TRP:HZ2	3:AC:36:ASP:OD1	2.03	0.42
1:AA:1471:G:O2'	1:AA:1472:U:H5'	2.19	0.42
35:DA:340:A:H2'	35:DA:341:G:O4'	2.20	0.42
1:CA:1400:C:H6	1:CA:1400:C:O5'	2.03	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DO:64:ARG:HH11	45:DO:64:ARG:HB2	1.85	0.42
35:BA:1810:A:C2'	35:BA:1811:G:H5'	2.50	0.42
1:CA:925:G:H1	1:CA:1391:U:H3	1.66	0.42
1:CA:1396:A:N3	5:CE:19:MET:HG3	2.35	0.42
1:CA:15:G:H1'	5:CE:19:MET:HG2	2.02	0.42
35:DA:1790:C:H2'	35:DA:1791:A:C5	2.54	0.42
1:CA:608:A:H2'	1:CA:609:A:O4'	2.19	0.42
16:CP:19:ILE:HB	16:CP:37:GLY:C	2.40	0.42
36:DB:40:U:C2'	36:DB:41:U:OP1	2.68	0.42
41:DG:101:ILE:O	41:DG:104:GLU:HB2	2.19	0.42
41:DG:115:ARG:HH22	41:DG:136:ARG:HD2	1.85	0.42
32:B6:23:THR:HG21	35:BA:2419:U:H5'	2.02	0.42
34:B8:35:GLN:HG2	35:BA:2420:C:P	2.59	0.42
45:BO:87:ILE:HG21	45:BO:91:LEU:HD13	2.02	0.42
56:BZ:103:ARG:HB2	56:BZ:138:GLU:CA	2.37	0.42
56:BZ:5:LEU:HB2	56:BZ:59:LEU:HD22	2.02	0.42
35:BA:996:A:H2'	35:BA:997:G:C8	2.51	0.42
35:BA:143:G:C1'	54:BX:38:GLU:HG3	2.50	0.42
39:DE:31:CYS:HA	39:DE:50:GLY:O	2.19	0.42
39:DE:53:PRO:O	39:DE:54:GLN:C	2.58	0.42
35:BA:2200:C:C6	35:BA:2200:C:H5''	2.54	0.42
2:AB:213:LEU:CD2	2:AB:214:ILE:N	2.83	0.42
30:B4:6:HIS:CB	41:BG:67:LYS:CE	2.98	0.42
55:DY:81:LYS:HD3	55:DY:97:ARG:C	2.39	0.42
35:DA:58:G:N2	35:DA:70:G:C4	2.88	0.42
28:D2:23:LYS:N	54:DX:5:TYR:CE1	2.88	0.42
54:DX:83:VAL:C	54:DX:85:PRO:CD	2.88	0.42
42:BH:149:ARG:HE	42:BH:154:PRO:HD3	1.83	0.42
56:DZ:141:VAL:O	56:DZ:142:SER:O	2.36	0.42
35:DA:2625:G:H2'	35:DA:2626:C:O4'	2.20	0.42
52:DV:39:LEU:HD11	52:DV:53:GLU:H	1.83	0.42
52:DV:61:VAL:O	52:DV:62:LEU:HD23	2.19	0.42
52:DV:25:LEU:N	52:DV:94:LEU:HD11	2.34	0.42
1:CA:1064:G:OP2	1:CA:1386:G:H4'	2.20	0.42
32:D6:12:GLU:O	32:D6:51:GLU:O	2.37	0.42
1:CA:545:C:OP1	4:CD:61:LYS:NZ	2.52	0.42
4:CD:150:GLU:CA	4:CD:153:ARG:HG3	2.50	0.42
44:BN:63:THR:O	44:BN:64:GLY:C	2.57	0.42
35:BA:261:G:H1'	35:BA:609:A:H2	1.84	0.42
27:D1:58:ILE:CG2	27:D1:59:THR:N	2.75	0.42
55:BY:88:LYS:CD	55:BY:88:LYS:N	2.79	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:BQ:70:PRO:CA	47:BQ:95:ALA:HB2	2.50	0.42
48:DR:29:LEU:HG	48:DR:79:LEU:CD2	2.49	0.42
48:DR:26:LYS:HZ3	48:DR:71:GLN:HB3	1.84	0.42
1:AA:1428:A:C6	1:AA:1473:A:N1	2.87	0.42
20:AT:22:ARG:O	20:AT:26:ASN:ND2	2.53	0.42
20:AT:27:LYS:O	20:AT:30:LYS:HB3	2.20	0.42
35:BA:1653:G:O6	48:BR:11:ASN:HB2	2.20	0.42
35:BA:2697:G:H2'	35:BA:2698:U:O4'	2.20	0.42
48:BR:32:GLY:C	48:BR:33:ARG:HG3	2.40	0.42
48:BR:26:LYS:HZ3	48:BR:71:GLN:HB3	1.83	0.42
27:D1:25:LYS:HB2	27:D1:37:ILE:CG2	2.50	0.42
35:DA:203:C:H2'	35:DA:204:A:H8	1.84	0.42
6:CF:7:ASN:O	6:CF:8:ILE:CG1	2.60	0.42
15:CO:30:ALA:HA	15:CO:85:LEU:HD11	2.00	0.42
35:DA:806:C:O2	35:DA:2444:G:O2'	2.37	0.42
34:D8:7:HIS:HD2	46:DP:50:ARG:CZ	2.32	0.42
4:AD:150:GLU:CA	4:AD:153:ARG:HG3	2.50	0.42
43:DI:71:ILE:HG13	43:DI:72:LEU:CD2	2.50	0.42
6:AF:97:PHE:O	18:AR:30:ASP:HA	2.20	0.42
1:CA:1517:G:H2'	1:CA:1518:A:O5'	2.20	0.42
1:CA:1525:G:P	11:CK:120:ARG:HH22	2.43	0.42
2:AB:116:GLU:HG2	2:AB:116:GLU:H	1.55	0.42
35:DA:29:U:H2'	35:DA:30:G:C8	2.55	0.42
1:CA:1305:G:C2	1:CA:1331:G:N3	2.87	0.42
1:CA:552:U:H2'	1:CA:553:A:H8	1.84	0.42
12:CL:55:VAL:C	12:CL:70:ILE:HD11	2.40	0.42
35:BA:341:G:H2'	35:BA:342:G:C8	2.54	0.42
21:AU:17:THR:O	21:AU:22:ARG:NH1	2.52	0.42
21:AU:24:ARG:H	21:AU:24:ARG:HD2	1.85	0.42
25:AY:29:ARG:H	25:AY:29:ARG:HG2	1.43	0.42
1:AA:1219:U:P	14:AN:19:ARG:HH22	2.42	0.42
35:BA:1353:A:H4'	38:BD:38:LYS:HZ1	1.80	0.42
35:BA:1313:U:H2'	35:BA:1610:A:C2	2.54	0.42
43:BI:114:LEU:O	43:BI:115:ALA:CB	2.67	0.42
13:AM:108:ARG:O	13:AM:109:THR:C	2.58	0.42
35:DA:234:C:H6	35:DA:234:C:O5'	2.02	0.42
35:DA:261:G:H1'	35:DA:609:A:H2	1.85	0.42
46:DP:16:ARG:O	46:DP:16:ARG:HD3	2.19	0.42
1:CA:1342:C:H2'	1:CA:1343:G:H8	1.84	0.42
8:AH:111:ILE:O	8:AH:112:LEU:HB3	2.20	0.42
8:AH:5:PRO:O	8:AH:8:ASP:HB3	2.20	0.42

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DH:92:ILE:CG2	42:DH:93:GLY:N	2.72	0.41
10:AJ:50:ILE:HA	10:AJ:60:ARG:CG	2.50	0.41
10:AJ:51:ARG:HG3	10:AJ:60:ARG:C	2.41	0.41
10:AJ:48:THR:HG1	10:AJ:62:HIS:CG	2.38	0.41
28:B2:18:PRO:O	28:B2:22:GLU:N	2.53	0.41
54:BX:36:LYS:CD	54:BX:36:LYS:O	2.61	0.41
54:BX:78:LYS:C	54:BX:78:LYS:HD3	2.40	0.41
39:DE:82:ARG:CG	39:DE:83:ASP:H	2.26	0.41
2:AB:211:ILE:O	2:AB:215:LEU:CB	2.68	0.41
2:AB:222:ILE:CG2	2:AB:223:ILE:N	2.83	0.41
41:BG:140:ILE:HD12	41:BG:140:ILE:C	2.40	0.41
41:BG:174:GLU:HG3	41:BG:182:LYS:HZ1	1.84	0.41
42:BH:127:GLU:HB2	42:BH:130:ARG:HB3	2.00	0.41
42:BH:122:THR:O	42:BH:133:VAL:HG22	2.20	0.41
42:BH:94:TYR:CZ	42:BH:160:LYS:HD2	2.54	0.41
52:DV:99:ILE:HG22	52:DV:100:ARG:N	2.35	0.41
52:DV:39:LEU:HD22	52:DV:53:GLU:O	2.20	0.41
32:D6:12:GLU:OE1	32:D6:12:GLU:N	2.53	0.41
49:BS:36:TYR:O	49:BS:37:ALA:HB2	2.20	0.41
49:BS:68:GLN:O	49:BS:71:ARG:HB2	2.20	0.41
1:CA:540:G:H2'	1:CA:541:G:O4'	2.20	0.41
4:CD:162:LEU:O	4:CD:165:MET:HB2	2.19	0.41
25:AY:52:LEU:O	25:AY:54:GLN:N	2.53	0.41
25:AY:79:ILE:HG23	25:AY:83:ILE:HD11	2.01	0.41
35:BA:2032:G:N2	35:BA:2572:A:C8	2.88	0.41
35:BA:2572:A:P	39:BE:144:ARG:HB2	2.60	0.41
27:D1:84:GLY:O	27:D1:85:LEU:C	2.58	0.41
35:DA:373:U:O2	35:DA:423:A:H2	2.03	0.41
35:BA:566:U:H4'	35:BA:809:G:OP2	2.20	0.41
35:BA:577:G:N1	35:BA:578:A:C6	2.88	0.41
35:BA:943:U:OP2	46:BP:38:GLN:CG	2.68	0.41
40:DF:110:LEU:HD11	40:DF:181:LEU:O	2.20	0.41
48:DR:32:GLY:O	48:DR:116:LEU:N	2.52	0.41
48:DR:2:ARG:CD	48:DR:2:ARG:C	2.88	0.41
48:BR:14:SER:O	48:BR:15:SER:C	2.59	0.41
48:BR:81:ASP:O	48:BR:82:GLU:HB2	2.20	0.41
50:BT:101:PHE:C	50:BT:101:PHE:CD2	2.93	0.41
49:DS:54:LEU:CD1	49:DS:58:LEU:O	2.63	0.41
2:AB:70:PHE:CD1	2:AB:163:PHE:HB3	2.54	0.41
27:D1:27:GLU:OE1	27:D1:32:LYS:HB2	2.20	0.41
44:DN:51:PHE:O	44:DN:52:VAL:C	2.58	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:DN:60:ILE:HD13	44:DN:99:LEU:CD2	2.50	0.41
35:BA:2476:A:C3'	35:BA:2477:C:H5''	2.50	0.41
47:BQ:120:ILE:HA	47:BQ:123:HIS:HD2	1.84	0.41
35:BA:8:A:OP1	44:BN:51:PHE:HE2	2.03	0.41
1:CA:663:A:H2'	1:CA:664:G:C8	2.54	0.41
6:CF:62:TRP:C	6:CF:63:TYR:CD2	2.93	0.41
1:CA:657:G:N2	15:CO:22:THR:OG1	2.52	0.41
15:CO:51:HIS:O	15:CO:52:SER:C	2.57	0.41
40:DF:53:THR:HG23	40:DF:56:GLU:H	1.85	0.41
40:DF:80:ALA:O	40:DF:83:PHE:HB2	2.20	0.41
35:DA:1162:G:N2	52:DV:91:TYR:HE1	2.18	0.41
1:AA:1320:C:H42	19:AS:36:ARG:HG3	1.84	0.41
1:AA:541:G:H2'	1:AA:542:G:H8	1.84	0.41
4:AD:202:LEU:O	4:AD:204:ILE:N	2.53	0.41
47:DQ:14:ARG:O	47:DQ:72:LYS:HE2	2.19	0.41
1:CA:1510:U:C2	1:CA:1526:G:N2	2.88	0.41
35:DA:531:C:C5	35:DA:2035:G:C2	3.08	0.41
35:DA:562:U:C2'	35:DA:563:G:OP2	2.67	0.41
2:AB:153:ARG:O	2:AB:154:LEU:O	2.38	0.41
16:AP:55:ARG:O	16:AP:58:TYR:HB3	2.19	0.41
43:BI:37:VAL:HG12	43:BI:38:LEU:N	2.34	0.41
13:CM:83:ASP:OD2	13:CM:84:ILE:N	2.52	0.41
7:AG:74:GLU:CG	7:AG:75:VAL:N	2.83	0.41
7:AG:74:GLU:HG2	7:AG:75:VAL:N	2.35	0.41
25:AY:18:LEU:CD2	25:AY:171:LYS:HB3	2.49	0.41
1:CA:880:C:H2'	1:CA:881:G:C8	2.55	0.41
23:CW:72:C:H2'	23:CW:73:A:O4'	2.20	0.41
37:BC:42:GLU:O	37:BC:212:VAL:HA	2.19	0.41
35:BA:2618:G:H2'	35:BA:2619:C:H6	1.84	0.41
43:BI:114:LEU:O	43:BI:129:THR:O	2.37	0.41
42:DH:74:ASN:O	42:DH:76:VAL:N	2.52	0.41
26:B0:16:SER:OG	35:BA:2261:C:H3'	2.20	0.41
35:BA:83:G:C4	35:BA:102:G:N2	2.88	0.41
1:CA:1071:C:H2'	1:CA:1072:G:H8	1.84	0.41
35:DA:598:G:H5'	46:DP:15:ARG:CG	2.49	0.41
46:DP:18:ARG:HE	46:DP:18:ARG:HB3	1.53	0.41
20:AT:58:LYS:HE3	20:AT:62:LEU:HD11	2.01	0.41
1:AA:1249:C:H5'	1:AA:1249:C:H6	1.85	0.41
9:AI:92:TYR:N	9:AI:92:TYR:CD1	2.88	0.41
8:CH:134:ILE:HG22	8:CH:135:CYS:SG	2.59	0.41
31:D5:40:LYS:HZ3	31:D5:45:VAL:CA	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DZ:19:ARG:CZ	56:DZ:84:GLU:OE2	2.68	0.41
5:AE:144:THR:O	5:AE:146:ALA:N	2.53	0.41
31:B5:40:LYS:NZ	31:B5:50:GLY:HA2	2.35	0.41
35:DA:1039:G:N1	35:DA:1117:G:C2	2.88	0.41
7:CG:78:ARG:HG3	7:CG:79:ARG:N	2.35	0.41
56:DZ:110:GLY:C	56:DZ:111:VAL:HG12	2.40	0.41
1:CA:1248:A:H2'	1:CA:1249:C:C5'	2.49	0.41
56:BZ:109:ALA:O	56:BZ:110:GLY:O	2.37	0.41
15:CO:8:LYS:HG2	15:CO:12:ILE:HD11	2.02	0.41
38:DD:130:ALA:HB2	38:DD:192:THR:CA	2.50	0.41
1:CA:686:U:H1'	1:CA:687:A:C8	2.55	0.41
11:CK:20:TYR:O	11:CK:31:THR:N	2.51	0.41
35:BA:1619:G:N1	35:BA:1620:G:C5	2.88	0.41
29:D3:6:VAL:HG12	29:D3:56:VAL:HA	2.02	0.41
7:AG:111:ARG:HB3	7:AG:112:PRO:HD2	2.02	0.41
17:CQ:17:LYS:HA	17:CQ:46:ASP:O	2.19	0.41
17:CQ:45:HIS:HE2	17:CQ:47:PRO:HB3	1.85	0.41
1:AA:1197:G:C2'	1:AA:1198:G:H5'	2.50	0.41
1:AA:1054:C:OP1	1:AA:1197:G:OP2	2.38	0.41
35:DA:2171:A:O2'	35:DA:2172:U:H6	2.03	0.41
1:AA:1254:C:H2'	1:AA:1255:G:H8	1.85	0.41
13:AM:78:ILE:HA	13:AM:81:LEU:HD12	2.01	0.41
1:AA:1298:C:O4'	1:AA:1299:A:C4	2.73	0.41
38:BD:140:THR:O	38:BD:165:ILE:CD1	2.68	0.41
12:CL:117:ARG:HD2	12:CL:122:THR:HB	2.02	0.41
35:BA:1635:G:H2'	35:BA:1636:C:C6	2.55	0.41
1:CA:762:C:H2'	1:CA:763:G:H8	1.84	0.41
35:BA:2392:A:C2	35:BA:2429:G:C4	3.08	0.41
35:DA:1810:A:H2'	35:DA:1811:G:O4'	2.20	0.41
41:DG:4:ASP:CA	41:DG:8:LYS:HD3	2.42	0.41
36:BB:82:G:O2'	36:BB:83:G:H5'	2.19	0.41
6:AF:14:LEU:HD11	6:AF:19:LEU:HB2	1.98	0.41
1:AA:768:A:N3	1:AA:1512:U:O2'	2.53	0.41
35:DA:479:A:N6	35:DA:503:A:H61	2.17	0.41
1:AA:296:U:O2'	1:AA:297:G:H5'	2.20	0.41
35:BA:986:C:C2'	35:BA:987:G:H5'	2.50	0.41
45:DO:13:ASN:ND2	45:DO:97:ARG:N	2.68	0.41
7:AG:39:ALA:O	7:AG:41:ARG:N	2.53	0.41
1:CA:799:G:C6	1:CA:800:G:C4	3.08	0.41
1:AA:1126:U:H2'	1:AA:1127:G:O4'	2.20	0.41
1:CA:1284:C:H3'	1:CA:1285:A:H8	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1084:G:C5	1:CA:1085:U:C4	3.07	0.41
53:DW:71:VAL:HG12	53:DW:71:VAL:O	2.19	0.41
35:BA:2880:C:H4'	48:BR:90:ARG:NH1	2.35	0.41
27:D1:57:GLU:HA	27:D1:57:GLU:OE1	2.20	0.41
35:BA:1935:G:H3'	35:BA:1962:C:N4	2.32	0.41
1:AA:1164:G:C2'	1:AA:1165:C:H5'	2.50	0.41
47:DQ:61:GLY:O	47:DQ:62:GLY:O	2.38	0.41
1:CA:1007:C:H2'	1:CA:1008:C:C5	2.54	0.41
35:DA:426:C:H2'	35:DA:427:U:C5'	2.50	0.41
1:AA:73:G:C2	1:AA:97:G:N1	2.88	0.41
35:DA:2555:U:H2'	35:DA:2556:C:C5'	2.49	0.41
35:DA:1766:U:H2'	35:DA:1767:C:C6	2.54	0.41
3:AC:59:ARG:HA	3:AC:63:ASN:O	2.20	0.41
35:BA:14:A:C6	35:BA:526:A:C2	3.07	0.41
13:AM:40:ASN:HD22	13:AM:43:THR:HG23	1.83	0.41
22:CV:34:A:H2'	22:CV:35:A:C8	2.55	0.41
35:BA:2531:A:H2	35:BA:2658:C:O2	2.03	0.41
37:BC:51:PRO:HB3	37:BC:204:ALA:CB	2.50	0.41
35:DA:324:A:N6	35:DA:338:G:O2'	2.51	0.41
2:AB:23:ARG:O	2:AB:23:ARG:HG2	2.20	0.41
8:AH:95:VAL:HG22	8:AH:131:GLY:O	2.20	0.41
35:BA:1433:U:O2	35:BA:1561:G:C2	2.73	0.41
37:BC:18:LYS:O	37:BC:20:TYR:N	2.53	0.41
30:B4:13:ARG:O	30:B4:15:ILE:N	2.42	0.41
1:CA:1187:G:H2'	1:CA:1187:G:N3	2.35	0.41
1:AA:30:U:O2'	1:AA:31:G:OP1	2.29	0.41
5:CE:62:ALA:O	5:CE:63:ARG:C	2.58	0.41
35:DA:1666:G:N1	35:DA:1995:U:O4	2.53	0.41
45:DO:104:ARG:C	45:DO:106:LEU:H	2.21	0.41
45:DO:2:ILE:O	45:DO:33:ALA:N	2.53	0.41
14:CN:41:ARG:CG	14:CN:42:ILE:H	2.33	0.41
41:DG:19:LEU:HA	41:DG:22:ARG:HB3	2.02	0.41
38:BD:226:MET:CB	38:BD:230:ASP:HB2	2.41	0.41
38:BD:94:LEU:C	38:BD:94:LEU:HD13	2.40	0.41
1:CA:1397:C:N3	24:CX:22:U:H6	2.17	0.41
35:DA:1778:U:C6	35:DA:1784:A:C6	3.08	0.41
35:DA:1783:A:OP1	35:DA:1784:A:OP2	2.38	0.41
35:DA:1790:C:C2'	35:DA:1791:A:C8	3.03	0.41
38:DD:211:ARG:C	38:DD:213:ARG:N	2.73	0.41
36:DB:43:C:H3'	36:DB:44:G:H5'	2.01	0.41
32:B6:12:GLU:O	32:B6:51:GLU:O	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BT:32:TYR:HD2	50:BT:81:PRO:HB2	1.85	0.41
35:DA:1577:C:H2'	35:DA:1578:U:H6	1.77	0.41
35:BA:998:C:N4	35:BA:1158:C:N4	2.67	0.41
44:BN:113:GLY:O	44:BN:114:ARG:C	2.57	0.41
52:BV:99:ILE:HG22	52:BV:100:ARG:N	2.34	0.41
42:DH:121:ILE:HG22	42:DH:133:VAL:HG11	2.02	0.41
1:AA:1223:C:H3'	1:AA:1224:G:H5''	2.02	0.41
1:AA:983:A:N1	1:AA:1222:G:N2	2.67	0.41
1:AA:973:G:P	10:AJ:57:LYS:NZ	2.93	0.41
54:BX:76:ARG:O	54:BX:77:LYS:CB	2.66	0.41
35:DA:2633:G:C2	35:DA:2634:G:C4	3.08	0.41
27:B1:13:ILE:CB	27:B1:63:ALA:HB2	2.46	0.41
27:B1:70:VAL:O	27:B1:72:GLU:N	2.53	0.41
35:BA:2219:G:C2'	35:BA:2220:G:H5'	2.50	0.41
2:AB:212:GLN:O	2:AB:213:LEU:C	2.58	0.41
35:BA:2313:C:H2'	35:BA:2314:C:C6	2.55	0.41
28:D2:29:LYS:O	28:D2:32:LEU:N	2.52	0.41
35:DA:1601:G:OP2	54:DX:58:HIS:CD2	2.73	0.41
36:DB:105:A:O2'	56:DZ:30:ASN:C	2.58	0.41
56:DZ:44:PHE:CD1	56:DZ:48:PHE:HB2	2.54	0.41
56:DZ:5:LEU:HD21	56:DZ:43:GLU:CB	2.51	0.41
51:DU:62:ILE:O	51:DU:65:ILE:HB	2.21	0.41
52:DV:39:LEU:O	52:DV:50:PRO:HA	2.20	0.41
35:DA:2597:G:C5	35:DA:2598:A:N6	2.88	0.41
1:AA:1050:G:H2'	1:AA:1051:C:H6	1.85	0.41
4:CD:39:PRO:HB3	4:CD:40:PRO:HD2	2.01	0.41
4:CD:60:GLU:O	4:CD:63:LYS:N	2.53	0.41
47:BQ:68:ILE:HG22	47:BQ:101:ARG:HE	1.85	0.41
3:CC:134:ILE:HG23	3:CC:151:VAL:CG1	2.49	0.41
3:CC:150:LYS:HA	3:CC:168:ALA:O	2.20	0.41
40:BF:123:LEU:HD13	40:BF:192:LEU:HD22	2.02	0.41
27:D1:76:ARG:CA	27:D1:76:ARG:NE	2.82	0.41
44:DN:62:VAL:O	44:DN:63:THR:CG2	2.63	0.41
35:BA:2071:A:H2'	35:BA:2072:G:C8	2.54	0.41
35:BA:28:A:H1'	35:BA:513:A:N1	2.35	0.41
40:DF:182:ASN:OD1	40:DF:185:ASP:N	2.53	0.41
40:DF:199:TRP:O	40:DF:202:PHE:HB3	2.21	0.41
47:BQ:16:ARG:HH11	47:BQ:16:ARG:CB	2.33	0.41
35:DA:1655:A:H4'	39:DE:115:GLY:N	2.34	0.41
48:DR:9:LYS:O	48:DR:10:LEU:CD2	2.68	0.41
35:BA:2818:G:O2'	35:BA:2819:G:H5'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DS:23:ARG:O	49:DS:24:LEU:C	2.59	0.41
49:DS:66:ALA:O	49:DS:68:GLN:N	2.50	0.41
26:B0:70:GLN:HB3	26:B0:78:TYR:HB2	2.02	0.41
2:AB:36:ARG:NE	2:AB:36:ARG:HA	2.35	0.41
44:DN:116:LEU:O	44:DN:119:ARG:HB2	2.20	0.41
6:CF:14:LEU:HD11	6:CF:19:LEU:HB2	2.01	0.41
11:CK:116:HIS:O	11:CK:117:ASN:CB	2.67	0.41
15:CO:67:LEU:HA	15:CO:67:LEU:HD23	1.79	0.41
46:DP:48:PRO:O	46:DP:50:ARG:N	2.52	0.41
4:AD:100:ARG:HG2	4:AD:100:ARG:HH11	1.84	0.41
12:AL:10:LEU:HB3	17:AQ:32:TYR:CE1	2.55	0.41
18:AR:22:VAL:HG13	18:AR:25:THR:HB	2.01	0.41
35:BA:2765:A:H2	35:BA:2766:G:O4'	2.03	0.41
46:BP:148:LEU:C	46:BP:148:LEU:HD22	2.40	0.41
35:DA:447:A:N3	35:DA:473:G:C8	2.88	0.41
25:CY:131:ASN:O	25:CY:133:ARG:N	2.53	0.41
25:CY:16:LYS:C	25:CY:18:LEU:H	2.23	0.41
12:CL:70:ILE:HG13	12:CL:100:ILE:CD1	2.49	0.41
1:AA:452:A:C4	1:AA:453:A:C8	3.09	0.41
1:CA:1445:C:O2'	1:CA:1446:U:H5'	2.20	0.41
1:CA:1458:G:C4	1:CA:1459:C:C5	3.08	0.41
1:CA:1457:G:P	20:CT:39:LYS:HZ2	2.43	0.41
44:BN:79:PRO:HG2	44:BN:80:GLY:N	2.35	0.41
11:CK:29:ILE:HD12	11:CK:29:ILE:O	2.19	0.41
11:AK:84:VAL:HG11	11:AK:95:ILE:CD1	2.50	0.41
7:CG:74:GLU:HG2	7:CG:75:VAL:N	2.35	0.41
42:DH:68:THR:C	42:DH:70:THR:N	2.73	0.41
22:AV:31:U:H6	22:AV:31:U:O5'	2.03	0.41
13:AM:91:ARG:NH2	13:AM:97:PRO:O	2.53	0.41
35:DA:225:A:N6	35:DA:419:C:H4'	2.36	0.41
1:CA:1347:G:C2	9:CI:107:ARG:NH2	2.88	0.41
12:AL:90:VAL:C	12:AL:92:ASP:N	2.73	0.41
9:AI:70:LYS:O	9:AI:73:GLN:HB2	2.20	0.41
1:CA:825:G:O2'	1:CA:826:C:H5'	2.20	0.41
8:CH:26:VAL:HG12	8:CH:59:LEU:HB2	2.01	0.41
8:CH:36:LEU:O	8:CH:37:ARG:C	2.57	0.41
35:DA:2163:C:O2'	35:DA:2164:C:P	2.78	0.41
56:BZ:177:PRO:O	56:BZ:178:GLU:CG	2.61	0.41
42:BH:61:HIS:C	42:BH:63:SER:H	2.22	0.41
1:CA:1249:C:H4'	9:CI:36:TYR:OH	2.19	0.41
35:BA:2297:C:H2'	35:BA:2298:A:C5'	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1176:G:C1'	35:BA:1177:A:OP1	2.64	0.41
16:CP:74:LEU:O	16:CP:77:ALA:HB3	2.20	0.41
7:CG:66:VAL:HB	7:CG:67:GLU:OE2	2.20	0.41
7:CG:60:LYS:HD2	7:CG:63:LYS:HG2	2.02	0.41
35:BA:2732:G:H2'	35:BA:2733:A:H5'	1.97	0.41
7:AG:65:ALA:HB2	7:AG:124:LEU:O	2.20	0.41
1:CA:1422:G:C2	1:CA:1423:G:N7	2.88	0.41
45:DO:49:ARG:HD3	45:DO:49:ARG:N	2.35	0.41
35:BA:1417:C:H2'	35:BA:1418:G:C5'	2.50	0.41
35:DA:1301:A:H2	35:DA:1626:G:H21	1.68	0.41
35:BA:2801(A):A:H4'	35:BA:2802:G:C5'	2.48	0.41
35:DA:1688:U:O2	35:DA:1700:A:H8	2.04	0.41
35:BA:2627:G:H21	35:BA:2781:A:H2	1.65	0.41
35:DA:1271:G:N2	35:DA:1617:C:H4'	2.35	0.41
26:B0:36:ILE:HD11	35:BA:2355:C:O4'	2.20	0.41
35:BA:2331:G:C6	35:BA:2332:U:C4	3.08	0.41
35:BA:863:A:H4'	36:BB:101:G:C2	2.55	0.41
15:AO:67:LEU:HA	15:AO:67:LEU:HD23	1.80	0.41
35:DA:1722:A:H2	35:DA:1740:G:H2'	1.86	0.41
35:DA:1707:G:C4	35:DA:1756:G:C2	3.08	0.41
56:DZ:77:ASP:O	56:DZ:77:ASP:OD1	2.38	0.41
36:BB:81:G:H5'	36:BB:82:G:OP2	2.20	0.41
36:DB:64:C:H2'	36:DB:65:C:C6	2.55	0.41
35:DA:614:U:C4'	35:DA:614(C):A:H62	2.33	0.41
1:AA:1511:G:O5'	1:AA:1511:G:H8	2.04	0.41
19:AS:45:VAL:C	19:AS:47:HIS:H	2.22	0.41
1:AA:298:A:H2'	1:AA:299:G:O4'	2.20	0.41
35:DA:1389:G:H2'	35:DA:1390:U:C6	2.55	0.41
1:AA:947:G:H2'	1:AA:948:C:C6	2.54	0.41
43:BI:60:GLU:C	43:BI:62:LYS:H	2.22	0.41
53:BW:71:VAL:HA	53:BW:107:LEU:HD12	2.01	0.41
7:AG:24:THR:HA	7:AG:27:ILE:HD13	2.01	0.41
17:CQ:12:SER:HA	17:CQ:14:LYS:HZ1	1.86	0.41
23:AW:17:C:O5'	23:AW:62:C:H5'	2.20	0.41
1:AA:992:U:O2'	1:AA:993:G:P	2.78	0.41
31:B5:15:ARG:HA	31:B5:18:ALA:HB3	2.01	0.41
36:BB:16:G:H2'	36:BB:17:C:H6	1.84	0.41
35:BA:42:G:C2	35:BA:437:G:C2	3.08	0.41
1:CA:474:G:H2'	1:CA:475:G:H8	1.86	0.41
37:BC:86:ALA:HB1	37:BC:94:VAL:HG11	2.02	0.41
23:AW:6:G:C2	23:AW:69:C:O2	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:43:THR:HB	13:CM:44:ARG:H	1.61	0.41
1:AA:44:G:H2'	1:AA:45:U:O4'	2.20	0.41
35:DA:1564:C:H2'	35:DA:1565:C:C6	2.55	0.41
36:BB:71:C:H2'	36:BB:72:G:O4'	2.20	0.41
13:CM:4:ILE:HG22	13:CM:5:ALA:N	2.35	0.41
35:DA:2343:C:O2'	35:DA:2373:G:H4'	2.19	0.41
1:AA:1059:C:O2	10:AJ:53:PRO:HG3	2.20	0.41
11:AK:114:VAL:O	11:AK:114:VAL:HG13	2.20	0.41
50:DT:35:LYS:CE	50:DT:41:ARG:HG3	2.50	0.41
1:CA:1229:A:O2'	1:CA:1230:C:H5'	2.20	0.41
10:CJ:50:ILE:CD1	10:CJ:50:ILE:N	2.69	0.41
35:BA:1568:G:P	38:BD:63:ARG:HH22	2.44	0.41
35:BA:1812:A:C1'	38:BD:46:GLN:HE22	2.33	0.41
35:BA:2085:C:O2'	35:BA:2086:U:H5'	2.20	0.41
35:DA:1794:U:H2'	35:DA:1795:C:C6	2.55	0.41
38:DD:29:PRO:O	38:DD:30:GLU:C	2.59	0.41
38:DD:34:VAL:HG22	38:DD:35:LYS:HZ2	1.84	0.41
38:DD:92:ILE:C	38:DD:107:ALA:HB2	2.41	0.41
41:DG:67:LYS:CD	41:DG:67:LYS:H	2.29	0.41
41:DG:43:LEU:HD11	41:DG:90:LEU:H	1.84	0.41
41:DG:96:ARG:C	41:DG:99:MET:HB3	2.41	0.41
1:AA:1442:G:C8	1:AA:1442(B):A:N1	2.89	0.41
45:BO:87:ILE:CG2	45:BO:91:LEU:HD13	2.51	0.41
50:BT:48:ILE:HD12	50:BT:48:ILE:H	1.85	0.41
50:BT:65:LYS:HG3	50:BT:66:VAL:N	2.35	0.41
50:BT:64:ARG:CB	50:BT:73:GLU:HB3	2.48	0.41
50:BT:88:ILE:CD1	50:BT:88:ILE:N	2.83	0.41
56:BZ:28:MET:SD	56:BZ:37:VAL:HG21	2.60	0.41
56:BZ:56:VAL:HG13	56:BZ:57:ILE:N	2.35	0.41
47:BQ:141:GLN:CG	56:BZ:72:ARG:HE	2.32	0.41
47:BQ:27:VAL:HG23	56:BZ:81:ARG:HH22	1.85	0.41
35:DA:1416:G:HO2'	35:DA:1417:C:H6	1.60	0.41
35:BA:1153:C:N4	35:BA:1154:G:N1	2.68	0.41
1:AA:1231:G:H2'	1:AA:1232:U:O4'	2.20	0.41
10:AJ:48:THR:HG23	10:AJ:62:HIS:CA	2.50	0.41
14:AN:33:VAL:HG12	14:AN:34:TYR:H	1.85	0.41
54:BX:40:LYS:HD2	54:BX:41:ASN:CA	2.49	0.41
54:BX:59:VAL:HB	54:BX:60:ARG:H	1.30	0.41
39:DE:35:GLN:NE2	39:DE:37:ARG:NH2	2.67	0.41
41:BG:165:THR:O	41:BG:166:ASP:C	2.58	0.41
41:BG:43:LEU:HD12	41:BG:153:ARG:CD	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DY:8:LYS:HZ1	55:DY:74:PRO:HD3	1.86	0.41
42:BH:87:LEU:HA	42:BH:164:TYR:O	2.20	0.41
35:BA:2773:C:OP1	39:BE:164:ARG:HG2	2.20	0.41
35:DA:906:G:H2'	35:DA:907:U:O4'	2.20	0.41
47:DQ:115:MET:CE	47:DQ:133:ARG:HH21	2.33	0.41
56:DZ:108:PRO:HB2	56:DZ:144:LEU:H	1.83	0.41
56:DZ:151:HIS:CA	56:DZ:170:THR:HA	2.47	0.41
44:DN:44:PRO:C	44:DN:46:VAL:N	2.72	0.41
51:DU:103:PRO:O	51:DU:104:GLN:C	2.59	0.41
1:AA:1203:C:OP1	14:AN:3:ARG:CD	2.65	0.41
1:CA:1063:C:H3'	1:CA:1064:G:H2'	2.03	0.41
32:D6:24:GLU:OE2	35:DA:2346:A:O2'	2.39	0.41
49:BS:24:LEU:N	49:BS:24:LEU:HD22	2.36	0.41
49:BS:66:ALA:O	49:BS:68:GLN:N	2.51	0.41
49:BS:87:PHE:CE2	49:BS:88:ASP:O	2.73	0.41
47:BQ:24:GLY:CA	47:BQ:101:ARG:HA	2.51	0.41
40:BF:46:ARG:HG3	40:BF:48:THR:CG2	2.50	0.41
35:BA:389:G:C8	35:BA:2413:G:H4'	2.55	0.41
3:CC:14:ILE:HG12	3:CC:15:THR:N	2.35	0.41
46:BP:33:ARG:O	46:BP:35:HIS:N	2.52	0.41
46:BP:47:ASP:CG	46:BP:49:ARG:HB3	2.40	0.41
40:DF:3:GLU:O	40:DF:19:GLU:CB	2.69	0.41
40:DF:24:LEU:N	40:DF:24:LEU:HD22	2.35	0.41
48:BR:9:LYS:HG3	48:BR:43:GLU:OE2	2.20	0.41
49:DS:24:LEU:HD22	49:DS:24:LEU:N	2.34	0.41
49:DS:69:VAL:CG1	49:DS:70:GLY:N	2.83	0.41
49:DS:77:ALA:O	49:DS:79:ALA:N	2.53	0.41
2:CB:222:ILE:CG2	2:CB:223:ILE:N	2.81	0.41
2:AB:16:HIS:HB3	2:AB:210:SER:OG	2.21	0.41
56:BZ:116:VAL:HG12	56:BZ:117:LEU:CD2	2.48	0.41
44:BN:30:ILE:CD1	44:BN:54:VAL:HG21	2.46	0.41
1:CA:660:G:C2	1:CA:661:G:C4	3.08	0.41
18:CR:65:ILE:HD12	18:CR:66:LEU:H	1.77	0.41
18:CR:79:LEU:HA	18:CR:80:PRO:HD3	1.77	0.41
2:CB:164:VAL:HG12	2:CB:165:VAL:N	2.35	0.41
2:CB:11:LEU:O	2:CB:16:HIS:CE1	2.73	0.41
34:D8:56:GLU:C	34:D8:58:ILE:H	2.22	0.41
35:DA:685:A:N1	35:DA:787:U:H1'	2.35	0.41
35:DA:687:C:H42	35:DA:787:U:H4'	1.85	0.41
4:AD:152:SER:O	4:AD:154:ASN:N	2.53	0.41
35:DA:85:G:N2	35:DA:86:C:H1'	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:9:CYS:SG	4:AD:22:LYS:CE	3.08	0.41
1:AA:673:G:C6	1:AA:734:G:C6	3.07	0.41
11:AK:115:PRO:C	11:AK:116:HIS:ND1	2.74	0.41
18:AR:26:LEU:HD21	18:AR:42:ARG:NH1	2.36	0.41
35:BA:2470:G:OP1	47:BQ:56:ARG:NH2	2.53	0.41
25:CY:142:LYS:HA	25:CY:145:LYS:HE2	2.02	0.41
25:CY:21:LEU:HD11	25:CY:121:TYR:C	2.40	0.41
12:CL:101:VAL:O	12:CL:103:GLY:N	2.53	0.41
12:CL:27:LEU:O	12:CL:28:LYS:C	2.58	0.41
1:CA:1226:C:C2	13:CM:104:ARG:HA	2.55	0.41
35:BA:754:C:H2'	35:BA:755:C:C6	2.55	0.41
23:CW:70:C:H2'	23:CW:71:G:C8	2.54	0.41
26:B0:32:ARG:HB3	26:B0:32:ARG:HE	1.63	0.41
35:BA:2123:G:O2'	35:BA:2124:G:H5'	2.20	0.41
11:AK:67:ASP:HA	11:AK:70:LYS:HB3	2.02	0.41
11:AK:84:VAL:HG11	11:AK:95:ILE:HD11	2.00	0.41
33:B7:31:LEU:HD23	33:B7:31:LEU:HA	1.62	0.41
33:B7:29:LYS:NZ	33:B7:32:LYS:NZ	2.68	0.41
43:BI:98:ALA:HB1	43:BI:109:ILE:HD13	2.01	0.41
40:DF:133:ASN:O	40:DF:134:GLY:C	2.58	0.41
55:BY:14:LEU:HD12	55:BY:23:ARG:O	2.20	0.41
55:BY:28:LYS:O	55:BY:37:VAL:O	2.38	0.41
11:AK:26:ASN:O	11:AK:27:ASN:CB	2.67	0.41
13:AM:83:ASP:OD2	13:AM:84:ILE:N	2.53	0.41
8:AH:120:THR:C	8:AH:122:ARG:H	2.24	0.41
1:AA:1079:G:C2	1:AA:1080:A:C5	3.08	0.41
5:AE:20:GLN:O	5:AE:21:ALA:C	2.58	0.41
25:CY:41:LEU:N	25:CY:41:LEU:HD12	2.22	0.41
9:CI:79:LEU:HD13	9:CI:79:LEU:C	2.41	0.41
1:AA:538:G:P	12:AL:115:LYS:HB2	2.60	0.41
12:AL:113:ARG:O	12:AL:122:THR:HG21	2.20	0.41
1:AA:874:G:O2'	1:AA:875:C:H5'	2.20	0.41
1:AA:876:G:H1'	8:AH:11:THR:HG21	2.01	0.41
8:AH:5:PRO:HA	8:AH:8:ASP:HB3	2.02	0.41
1:AA:1128:C:H2'	1:AA:1130:A:C8	2.55	0.41
9:AI:50:LEU:O	9:AI:53:VAL:CG2	2.63	0.41
8:CH:86:ILE:HG22	8:CH:87:SER:N	2.35	0.41
31:B5:48:GLU:OE1	31:B5:49:CYS:SG	2.73	0.41
12:AL:75:HIS:CD2	12:AL:77:LEU:HG	2.42	0.41
31:D5:31:VAL:O	31:D5:32:PRO:C	2.59	0.41
1:AA:1349:A:OP1	9:AI:118:LYS:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2748:A:C2	35:BA:2757:A:C4	3.08	0.41
42:BH:58:GLU:O	42:BH:61:HIS:HB2	2.20	0.41
46:BP:126:VAL:CA	46:BP:145:PRO:HG2	2.46	0.41
38:DD:185:VAL:HG12	38:DD:189:CYS:SG	2.60	0.41
35:DA:2320:A:N3	35:DA:2320:A:H2'	2.35	0.41
53:BW:10:VAL:O	53:BW:11:ARG:HB2	2.20	0.41
35:DA:1231:G:H2'	35:DA:1232:G:C8	2.55	0.41
1:CA:1413:A:C2	1:CA:1414:U:C2	3.09	0.41
39:DE:201:THR:CG2	39:DE:203:LYS:HB3	2.50	0.41
38:DD:53:PHE:CD1	38:DD:219:PRO:O	2.73	0.41
2:AB:100:GLY:CA	2:AB:104:ASN:H	2.34	0.41
2:AB:102:LEU:HD22	2:AB:176:GLU:HB3	2.01	0.41
1:AA:11:G:H2'	1:AA:12:U:H6	1.85	0.41
1:CA:100:C:H2'	1:CA:101:A:C8	2.56	0.41
1:CA:107:G:C2'	1:CA:108:G:H5'	2.50	0.41
1:CA:325:A:N6	1:CA:326:G:N1	2.68	0.41
35:DA:1484:G:C3'	35:DA:1485:G:C5'	2.94	0.41
13:CM:68:GLY:O	13:CM:70:LEU:N	2.53	0.41
3:CC:88:ARG:N	3:CC:101:LEU:HD12	2.35	0.41
46:DP:59:LEU:HA	46:DP:61:ARG:HD2	2.02	0.41
8:AH:54:ASP:C	8:AH:56:LYS:N	2.74	0.41
35:DA:1353:A:H4'	38:DD:38:LYS:HZ3	1.84	0.41
35:DA:1721:G:C6	35:DA:1739:U:H5'	2.54	0.41
12:CL:120:TYR:N	12:CL:120:TYR:CD1	2.88	0.41
27:B1:41:ARG:HG3	27:B1:41:ARG:NH1	2.30	0.41
43:BI:51:ILE:CG2	43:BI:52:ARG:N	2.80	0.41
35:BA:2408:U:C2	35:BA:2409:G:C8	3.08	0.41
1:CA:477:A:HO2'	1:CA:479:C:H5'	1.82	0.41
1:AA:1287:A:C5	1:AA:1288:A:N6	2.88	0.41
1:AA:69:G:C2	1:AA:70:G:C5	3.08	0.41
36:DB:24:G:H4'	36:DB:25:A:H8	1.80	0.41
17:CQ:11:VAL:HG23	17:CQ:20:THR:HB	2.01	0.41
10:CJ:78:ASN:O	10:CJ:80:LYS:N	2.53	0.41
1:AA:1284:C:H3'	1:AA:1285:A:H8	1.85	0.41
35:BA:1515:G:N2	35:BA:1516:C:H1'	2.35	0.41
11:CK:86:GLY:H	11:CK:112:THR:CB	2.33	0.41
1:CA:1003:G:H8	1:CA:1003:G:O5'	2.04	0.41
35:DA:313:C:H2'	35:DA:314:A:C8	2.50	0.41
37:BC:89:ALA:HB1	37:BC:152:ILE:O	2.20	0.41
35:DA:438:G:H2'	35:DA:440:G:C8	2.55	0.41
56:DZ:22:GLY:C	56:DZ:41:LEU:HD21	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:229:VAL:HG12	2:CB:229:VAL:O	2.20	0.41
35:BA:2068:U:H3	35:BA:2430:A:H2	1.62	0.41
35:BA:179:G:C4	35:BA:180:G:C8	3.08	0.41
1:CA:992:U:O2'	1:CA:993:G:P	2.78	0.41
38:DD:105:ILE:O	38:DD:105:ILE:HG23	2.20	0.41
35:BA:210:C:H2'	35:BA:211:A:H8	1.85	0.41
35:BA:2251:G:C2	35:BA:2450:A:H1'	2.56	0.41
35:DA:1433:U:O2	35:DA:1561:G:C2	2.73	0.41
37:DC:74:VAL:HB	37:DC:91:ALA:HB2	2.03	0.41
35:BA:1360:A:C6	35:BA:1372:U:C4	3.09	0.41
37:BC:74:VAL:HB	37:BC:91:ALA:HB2	2.02	0.41
35:DA:1545:A:N7	35:DA:1546:C:C2	2.88	0.41
36:DB:71:C:H2'	36:DB:72:G:O4'	2.20	0.41
35:BA:2603:G:H4'	35:BA:2603:G:OP2	2.20	0.41
40:BF:78:ILE:HG13	40:BF:78:ILE:H	1.65	0.41
47:BQ:6:ARG:O	47:BQ:6:ARG:HG3	2.19	0.41
45:DO:8:LEU:N	45:DO:8:LEU:HD22	2.36	0.41
2:CB:44:LEU:H	2:CB:44:LEU:HG	1.64	0.41
1:CA:1113:C:O5'	1:CA:1113:C:H6	2.03	0.41
55:DY:47:LYS:HD2	55:DY:47:LYS:N	2.35	0.41
55:DY:62:GLU:OE1	55:DY:62:GLU:HA	2.20	0.41
50:DT:100:TYR:HD1	50:DT:100:TYR:H	1.68	0.41
9:CI:126:SER:O	9:CI:128:ARG:HD3	2.21	0.41
14:CN:27:CYS:CB	14:CN:43:CYS:SG	3.02	0.41
5:CE:131:ILE:O	5:CE:132:ALA:C	2.59	0.41
1:CA:607:A:C4	1:CA:608:A:C8	3.09	0.41
41:DG:48:GLU:HG2	41:DG:49:ASP:N	2.29	0.41
41:DG:53:LEU:HD22	41:DG:56:ALA:HB2	2.02	0.41
41:DG:63:ILE:HB	41:DG:141:PHE:CE1	2.56	0.41
41:DG:90:LEU:HD12	41:DG:90:LEU:N	2.35	0.41
10:CJ:4:ILE:N	10:CJ:4:ILE:HD12	2.36	0.41
10:CJ:8:LEU:H	10:CJ:8:LEU:HD12	1.85	0.41
32:B6:10:LEU:O	32:B6:11:LEU:HD22	2.21	0.41
34:B8:31:HIS:CG	35:BA:2419:U:O4	2.74	0.41
50:BT:28:VAL:HG11	50:BT:46:GLU:CD	2.41	0.41
47:BQ:141:GLN:OE1	56:BZ:70:LEU:HB3	2.20	0.41
35:BA:2787:C:O2	39:BE:61:ARG:NH1	2.53	0.41
39:BE:48:GLN:O	39:BE:49:LEU:HD13	2.20	0.41
39:BE:49:LEU:O	39:BE:78:LEU:CA	2.69	0.41
39:BE:61:ARG:CG	39:BE:62:PRO:N	2.84	0.41
51:BU:65:ILE:HG22	51:BU:66:ASN:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:BV:22:VAL:HG21	52:BV:96:ILE:CG1	2.51	0.41
10:AJ:64:GLU:HG3	10:AJ:64:GLU:O	2.19	0.41
14:AN:53:LEU:HD23	14:AN:53:LEU:HA	1.88	0.41
1:AA:1223:C:P	19:AS:78:ARG:HH12	2.43	0.41
39:DE:61:ARG:HG2	39:DE:62:PRO:CD	2.46	0.41
37:DC:51:PRO:HB3	37:DC:204:ALA:CB	2.50	0.41
27:B1:19:GLN:HB3	35:BA:380:U:O2'	2.21	0.41
35:DA:331:A:O2'	35:DA:332:A:OP1	2.36	0.41
28:D2:32:LEU:HD22	28:D2:44:LEU:HD21	2.01	0.41
35:DA:2419:U:H2'	35:DA:2420:C:C6	2.56	0.41
35:BA:1493:C:O2	35:BA:1493:C:H2'	2.21	0.41
36:BB:32:C:C2	36:BB:51:G:N2	2.89	0.41
49:BS:13:ARG:N	49:BS:13:ARG:CD	2.70	0.41
4:CD:101:LEU:O	4:CD:104:VAL:HB	2.20	0.41
4:CD:18:LYS:HZ1	4:CD:31:CYS:HB3	1.83	0.41
44:BN:95:PRO:O	44:BN:96:GLU:C	2.59	0.41
35:BA:2575:C:C5'	39:BE:144:ARG:HD3	2.46	0.41
34:D8:26:LYS:HZ3	34:D8:47:LYS:HD3	1.85	0.41
34:B8:49:VAL:O	34:B8:50:LEU:HB3	2.20	0.41
35:BA:942:G:H1'	35:BA:1189:A:C2	2.55	0.41
35:BA:2078:C:C2	35:BA:2079:U:C6	3.08	0.41
35:BA:28:A:C8	35:BA:513:A:C5	3.08	0.41
35:BA:811:U:O2	35:BA:1251:C:C6	2.73	0.41
55:BY:81:LYS:HA	55:BY:82:PRO:HD3	1.84	0.41
35:DA:2820:A:C8	39:DE:191:PRO:CB	2.94	0.41
48:DR:21:TYR:HB3	48:DR:47:PHE:CD2	2.55	0.41
48:DR:28:LEU:HD12	48:DR:29:LEU:HD13	2.02	0.41
44:DN:27:ALA:O	44:DN:30:ILE:N	2.53	0.41
2:CB:166:ASP:O	2:CB:167:PRO:O	2.38	0.41
35:DA:195:A:O5'	35:DA:196:A:H4'	2.20	0.41
35:DA:687:C:N3	35:DA:788:A:H5'	2.35	0.41
4:AD:154:ASN:HB2	4:AD:159:ARG:HH21	1.84	0.41
3:AC:11:ARG:O	3:AC:13:GLY:N	2.53	0.41
1:AA:1319:A:OP2	19:AS:5:LEU:HD23	2.20	0.41
55:DY:28:LYS:CB	55:DY:39:VAL:H	2.32	0.41
55:DY:20:TYR:CZ	55:DY:42:VAL:HA	2.55	0.41
17:AQ:29:HIS:CE1	17:AQ:31:LEU:H	2.32	0.41
1:CA:781:A:O2'	1:CA:1522:U:O2	2.36	0.41
25:CY:25:LEU:C	25:CY:27:GLY:H	2.23	0.41
43:BI:7:GLU:O	43:BI:9:LEU:HG	2.20	0.41
1:CA:1226:C:H5'	19:CS:80:TYR:CE2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:742:G:N1	35:BA:756:C:N4	2.68	0.41
20:CT:78:ALA:O	20:CT:79:ARG:C	2.58	0.41
25:AY:6:LEU:C	25:AY:8:ALA:H	2.23	0.41
12:AL:60:LEU:CD2	12:AL:64:TYR:O	2.67	0.41
1:AA:690:G:C6	1:AA:691:G:C2	3.09	0.41
1:AA:1227:A:N7	1:AA:1228:C:C2	2.88	0.41
5:AE:36:ASP:CG	5:AE:37:ARG:N	2.73	0.41
5:AE:68:GLU:OE2	5:AE:70:PRO:HD3	2.21	0.41
3:CC:172:ARG:NH1	3:CC:172:ARG:HB3	2.36	0.41
1:AA:926:G:C6	1:AA:1505:G:C6	3.07	0.41
1:CA:1346:A:N6	1:CA:1374:A:H3'	2.35	0.41
9:CI:116:LYS:O	9:CI:119:ALA:N	2.54	0.41
8:AH:4:ASP:OD2	8:AH:7:ALA:CB	2.68	0.41
1:AA:1248:A:H2'	1:AA:1249:C:C5'	2.49	0.41
8:CH:48:TYR:O	8:CH:49:GLU:HB3	2.20	0.41
31:D5:31:VAL:O	31:D5:32:PRO:O	2.37	0.41
35:BA:2753:A:H2	35:BA:2754:U:N3	2.18	0.41
42:BH:54:ARG:HB2	42:BH:61:HIS:HD2	1.85	0.41
1:CA:1128:C:H2'	1:CA:1130:A:C8	2.55	0.41
33:D7:31:LEU:CD2	33:D7:42:LEU:HD22	2.50	0.41
38:DD:48:ARG:NH1	38:DD:48:ARG:CG	2.81	0.41
35:DA:542:C:N3	35:DA:543:C:N4	2.55	0.41
35:DA:548:A:N3	35:DA:548:A:O2'	2.52	0.41
34:D8:18:ALA:HB2	35:DA:628:G:H5''	2.03	0.41
38:BD:77:ALA:CB	38:BD:97:TYR:CD1	3.03	0.41
53:DW:96:ILE:HG13	53:DW:97:LYS:N	2.35	0.41
1:CA:450:G:OP1	1:CA:452:A:OP2	2.39	0.41
38:DD:142:VAL:CG2	38:DD:192:THR:C	2.86	0.41
1:AA:778:G:C2'	1:AA:779:C:H5'	2.50	0.41
31:B5:16:ARG:HG2	31:B5:16:ARG:NH1	2.26	0.41
35:DA:769:G:H5'	35:DA:1379:A:H61	1.84	0.41
35:BA:2832:U:C2	35:BA:2834:G:N2	2.88	0.41
35:BA:520:G:O2'	35:BA:521:G:H5'	2.19	0.41
1:CA:315:A:H5''	1:CA:317:G:OP2	2.21	0.41
35:DA:270:A:OP2	35:DA:271(X):G:N2	2.49	0.41
1:CA:1422:G:C2	1:CA:1423:G:C8	3.08	0.41
35:BA:374:A:H2'	35:BA:375:C:H5'	2.02	0.41
35:BA:1417:C:H2'	35:BA:1418:G:H5'	2.01	0.41
17:CQ:58:GLU:O	17:CQ:74:LEU:CB	2.69	0.41
17:AQ:68:ARG:H	17:AQ:70:ARG:HH12	1.68	0.41
17:AQ:58:GLU:O	17:AQ:74:LEU:CB	2.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:AQ:60:ILE:HB	17:AQ:74:LEU:HD23	2.02	0.41
35:DA:2014:A:H2'	35:DA:2015:A:C8	2.55	0.41
42:BH:158:HIS:HE1	42:BH:168:PRO:HB2	1.84	0.41
1:CA:321:A:H4'	1:CA:1436:U:C4'	2.50	0.41
5:CE:72:GLN:O	5:CE:73:ASN:CB	2.69	0.41
1:CA:729:A:H2'	1:CA:730:G:H8	1.85	0.41
35:DA:1947:C:H42	35:DA:1959:G:H1	1.67	0.41
26:B0:38:VAL:HG12	26:B0:39:ARG:N	2.36	0.41
35:BA:292:C:O2	35:BA:292:C:C2'	2.69	0.41
8:AH:54:ASP:C	8:AH:56:LYS:H	2.23	0.41
1:AA:666:G:O2'	1:AA:667:G:H5'	2.20	0.41
1:CA:1477:C:O2'	1:CA:1478:C:H5'	2.20	0.41
38:BD:9:TYR:C	38:BD:10:THR:CG2	2.88	0.41
35:DA:863:A:H2	35:DA:914:C:N4	2.18	0.41
35:BA:2464:C:N4	35:BA:2487:G:N1	2.68	0.41
38:DD:13:ARG:HD2	38:DD:13:ARG:HA	1.95	0.41
35:DA:2545:G:C2	35:DA:2546:U:C2	3.08	0.41
35:BA:227:A:C2	35:BA:2407:G:C1'	2.99	0.41
46:BP:140:ALA:O	46:BP:141:ALA:CB	2.67	0.41
17:AQ:11:VAL:HG23	17:AQ:20:THR:CG2	2.51	0.41
7:AG:40:ALA:O	7:AG:41:ARG:C	2.59	0.41
7:AG:41:ARG:CG	7:AG:41:ARG:HH11	2.32	0.41
43:DI:62:LYS:HD3	43:DI:62:LYS:C	2.40	0.41
53:DW:62:HIS:O	53:DW:63:ASP:C	2.59	0.41
35:BA:604:G:O6	35:BA:625:G:C6	2.72	0.41
53:BW:62:HIS:O	53:BW:64:MET:HG3	2.20	0.41
35:BA:1767:C:O2'	35:BA:1768:U:H5'	2.20	0.41
35:DA:1681:G:H1'	35:DA:1763:G:H5'	2.03	0.41
2:AB:132:LYS:HA	2:AB:135:GLN:NE2	2.36	0.41
1:AA:1007:C:H2'	1:AA:1008:C:C5	2.55	0.41
3:AC:95:THR:C	3:AC:97:LYS:N	2.74	0.41
5:CE:87:SER:OG	5:CE:125:SER:CB	2.67	0.41
4:CD:24:GLU:O	4:CD:27:TYR:N	2.50	0.41
2:AB:229:VAL:HG12	2:AB:229:VAL:O	2.20	0.41
1:AA:935:A:O2'	1:AA:936:C:H5'	2.21	0.41
1:CA:858:G:O6	1:CA:869:G:C8	2.73	0.41
35:BA:1839:G:C4	35:BA:1840:G:C8	3.08	0.41
5:AE:101:ILE:HG12	5:AE:118:ILE:O	2.19	0.41
1:AA:1023:G:C2'	1:AA:1024:G:H5'	2.50	0.41
3:CC:22:TRP:CZ3	3:CC:32:LEU:HB3	2.55	0.41
35:DA:1106:A:H2'	35:DA:1107:G:C8	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:55:A:N7	1:AA:56:U:C4	2.88	0.41
1:AA:1210:C:H4'	1:AA:1214:C:N4	2.35	0.41
1:CA:1011:G:H2'	1:CA:1012:U:C5'	2.50	0.41
31:B5:19:ARG:HA	35:BA:2046:G:O5'	2.20	0.41
35:DA:2288:A:H2	35:DA:2325:G:C8	2.38	0.41
35:BA:1891:G:C2	35:BA:1892:C:C2	3.08	0.41
35:DA:2730:C:H2'	35:DA:2731:G:C8	2.55	0.41
50:DT:23:ARG:HH21	50:DT:120:ARG:HD3	1.85	0.41
43:BI:83:ALA:CB	43:BI:88:ILE:HG12	2.45	0.41
10:CJ:50:ILE:HA	10:CJ:60:ARG:CG	2.47	0.41
1:CA:973:G:H4'	10:CJ:54:PHE:O	2.20	0.41
35:BA:1778:U:C5	35:BA:1784:A:N3	2.88	0.41
38:BD:223:GLY:HA2	38:BD:226:MET:SD	2.60	0.41
35:DA:1782:C:H2'	35:DA:1783:A:H5'	2.03	0.41
41:DG:108:ASN:CA	41:DG:112:PRO:HD2	2.50	0.41
41:DG:59:GLU:CD	41:DG:60:LEU:HD23	2.41	0.41
47:DQ:34:LEU:HD11	47:DQ:129:THR:CG2	2.50	0.41
50:BT:30:VAL:HA	50:BT:43:GLN:O	2.21	0.41
56:BZ:122:ARG:CG	56:BZ:123:ASP:OD1	2.68	0.41
56:BZ:166:SER:HB2	56:BZ:167:PRO:C	2.41	0.41
35:BA:2633:G:C2	35:BA:2634:G:C4	3.09	0.41
39:BE:4:ILE:HD12	39:BE:5:LEU:H	1.86	0.41
1:AA:1064:G:OP2	1:AA:1386:G:H4'	2.20	0.41
44:BN:46:VAL:CG1	44:BN:47:ALA:N	2.66	0.41
52:BV:63:GLY:O	52:BV:64:HIS:CB	2.69	0.41
35:BA:1342:A:C2	35:BA:1345:C:C5	3.09	0.41
54:BX:53:LYS:CE	54:BX:55:ASN:HD21	2.33	0.41
39:DE:47:VAL:CG1	39:DE:49:LEU:HD21	2.49	0.41
27:B1:66:HIS:N	27:B1:66:HIS:CD2	2.85	0.41
27:B1:90:ILE:C	27:B1:93:GLU:OE2	2.59	0.41
2:AB:87:ARG:O	2:AB:223:ILE:HD11	2.21	0.41
41:BG:115:ARG:HH12	41:BG:136:ARG:HG3	1.85	0.41
41:BG:88:ILE:HG23	41:BG:90:LEU:HD13	2.02	0.41
55:DY:76:CYS:HB3	55:DY:96:ILE:CD1	2.50	0.41
55:DY:76:CYS:CB	55:DY:77:PRO:CD	2.98	0.41
35:DA:139:G:H1	35:DA:142(A):C:N4	2.17	0.41
42:BH:116:GLU:HG2	42:BH:117:PRO:CD	2.48	0.41
42:BH:98:LEU:HD22	42:BH:125:VAL:HB	2.02	0.41
35:DA:2636:U:H4'	39:DE:80:GLU:OE2	2.21	0.41
44:DN:39:ARG:NH1	44:DN:39:ARG:HG3	2.35	0.41
51:DU:65:ILE:HG22	51:DU:66:ASN:N	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:AJ:4:ILE:HD12	10:AJ:4:ILE:N	2.35	0.41
35:DA:2469:A:O2'	47:DQ:56:ARG:CG	2.69	0.41
45:DO:111:PHE:CB	45:DO:114:ILE:HD13	2.37	0.41
35:DA:2287:A:N6	35:DA:2344:U:N3	2.68	0.41
4:CD:176:LEU:HD12	4:CD:177:ASP:N	2.34	0.41
36:DB:102:A:H2'	36:DB:102:A:N3	2.35	0.41
39:BE:117:MET:HE1	39:BE:124:GLY:HA3	2.02	0.41
27:D1:11:ARG:HG3	27:D1:61:ARG:C	2.41	0.41
34:B8:56:GLU:N	34:B8:56:GLU:CD	2.74	0.41
35:BA:818:G:C2	35:BA:1190:G:C6	3.08	0.41
55:BY:86:ARG:CG	55:BY:87:LYS:N	2.82	0.41
48:DR:44:LEU:CD1	48:DR:48:VAL:HG23	2.50	0.41
41:DG:27:ASN:ND2	41:DG:29:TRP:HD1	2.19	0.41
49:DS:58:LEU:HD23	49:DS:65:VAL:HG13	2.02	0.41
2:AB:204:ASN:HB3	2:AB:210:SER:HB3	2.01	0.41
27:D1:23:LYS:CB	27:D1:23:LYS:NZ	2.83	0.41
44:DN:26:LEU:O	44:DN:27:ALA:C	2.58	0.41
44:BN:51:PHE:O	44:BN:52:VAL:C	2.59	0.41
6:CF:17:SER:O	6:CF:21:LEU:CD2	2.68	0.41
18:CR:74:ARG:CZ	18:CR:81:PHE:HA	2.50	0.41
2:CB:187:LEU:HD23	2:CB:202:PRO:O	2.20	0.41
35:DA:587:C:H4'	35:DA:588:U:O5'	2.20	0.41
35:DA:671:C:O2	35:DA:671:C:H2'	2.19	0.41
19:AS:6:LYS:HG2	19:AS:7:LYS:HD2	2.02	0.41
4:AD:63:LYS:O	4:AD:64:LEU:C	2.59	0.41
47:DQ:10:ARG:HB3	47:DQ:11:LYS:H	1.36	0.41
2:AB:95:GLN:HG3	2:AB:147:LYS:O	2.20	0.41
46:BP:147:LEU:HB2	46:BP:148:LEU:H	1.58	0.41
1:AA:939:G:H2'	1:AA:940:C:C6	2.55	0.41
51:DU:10:ARG:O	51:DU:11:ARG:C	2.58	0.41
25:CY:160:GLU:O	25:CY:163:LYS:N	2.53	0.41
12:CL:56:ALA:O	12:CL:68:ALA:N	2.53	0.41
42:DH:16:SER:HB2	42:DH:27:LYS:O	2.19	0.41
20:CT:38:LYS:HA	20:CT:41:ILE:HG12	2.02	0.41
25:AY:92:PRO:N	25:AY:101:ILE:HG23	2.35	0.41
1:CA:585:G:O2'	1:CA:879:C:OP1	2.39	0.41
51:BU:40:PHE:HD1	52:BV:78:LYS:NZ	2.18	0.41
25:AY:148:HIS:C	25:AY:149:LEU:HD23	2.41	0.41
11:AK:30:VAL:O	11:AK:30:VAL:HG23	2.20	0.41
35:BA:109:G:C4	35:BA:110:G:C8	3.08	0.41
55:BY:39:VAL:HB	55:BY:40:GLU:H	1.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:11:ILE:HD12	5:AE:31:LEU:CD2	2.48	0.41
5:AE:126:ARG:NH1	5:AE:126:ARG:HG3	2.35	0.41
1:CA:1347:G:N3	9:CI:107:ARG:NH2	2.68	0.41
1:AA:523:A:N6	12:AL:53:ARG:NH2	2.69	0.41
9:AI:82:ALA:HA	9:AI:85:LEU:HD21	2.02	0.41
1:CA:874:G:C4	1:CA:875:C:C5	3.08	0.41
31:D5:51:TYR:O	31:D5:56:LYS:HE3	2.21	0.41
35:DA:2127:G:O3'	35:DA:2128:C:C4'	2.68	0.41
34:D8:18:ALA:HB3	35:DA:651:G:H4'	2.01	0.41
46:DP:115:LEU:HB3	46:DP:131:SER:OG	2.19	0.41
53:DW:10:VAL:HG23	53:DW:101:SER:O	2.21	0.41
46:BP:100:LEU:O	46:BP:105:LEU:O	2.38	0.41
16:CP:39:TYR:OH	16:CP:41:PRO:HB3	2.21	0.41
7:CG:64:GLN:C	7:CG:66:VAL:H	2.24	0.41
38:DD:113:VAL:C	38:DD:115:GLN:N	2.73	0.41
38:DD:130:ALA:C	38:DD:131:LEU:HG	2.39	0.41
1:CA:707:C:O2	1:CA:707:C:C2'	2.67	0.41
39:DE:103:ASP:CG	39:DE:168:MET:HG2	2.40	0.41
39:DE:169:ASN:OD1	39:DE:201:THR:CG2	2.67	0.41
39:BE:168:MET:O	39:BE:170:LEU:HD12	2.20	0.41
1:CA:678:U:N3	1:CA:713:G:N2	2.68	0.41
32:B6:47:THR:CG2	32:B6:48:VAL:N	2.84	0.41
17:AQ:3:LYS:O	17:AQ:4:LYS:C	2.59	0.41
1:AA:10:A:H2'	1:AA:11:G:C8	2.52	0.41
8:AH:107:LEU:HD23	8:AH:107:LEU:O	2.20	0.41
1:CA:1437:C:C2'	1:CA:1438:G:O5'	2.68	0.41
1:CA:327:A:C2	1:CA:329:A:C4	3.08	0.41
35:BA:1947:C:H42	35:BA:1959:G:H1	1.68	0.41
35:BA:349:G:H2'	35:BA:349:G:N3	2.35	0.41
35:BA:1297:C:O2'	35:BA:1302:A:N1	2.54	0.41
20:AT:82:SER:O	20:AT:86:ARG:HB2	2.19	0.41
15:AO:66:LEU:O	15:AO:67:LEU:C	2.59	0.41
11:AK:122:LYS:O	11:AK:126:ARG:N	2.53	0.41
1:AA:1365:G:H2'	1:AA:1366:C:C5'	2.50	0.41
1:AA:770:C:HO2'	1:AA:771:G:H5'	1.83	0.41
35:BA:1112:G:O2'	35:BA:1113:U:H6	2.03	0.41
41:DG:166:ASP:O	41:DG:166:ASP:OD1	2.39	0.41
11:AK:106:LYS:HB3	11:AK:107:SER:H	1.57	0.41
35:DA:1550:C:O2'	35:DA:1551:C:H5'	2.21	0.41
35:DA:359:A:H2'	35:DA:360:G:O4'	2.19	0.41
35:DA:2352:A:H2'	35:DA:2353:G:O4'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1511:G:C5	1:AA:1512:U:C5	3.09	0.41
5:CE:57:LYS:CE	5:CE:61:TYR:HE2	2.31	0.41
1:CA:296:U:H2'	1:CA:297:G:O4'	2.21	0.41
1:CA:298:A:H2'	1:CA:299:G:O4'	2.20	0.41
35:BA:976:C:H2'	35:BA:977:G:C8	2.56	0.41
44:BN:128:HIS:CD2	44:BN:131:GLN:HB2	2.55	0.41
7:AG:16:LEU:CD1	9:AI:42:ARG:HA	2.51	0.41
1:CA:180:U:H2'	1:CA:181:G:C5'	2.49	0.41
41:BG:97:ASP:C	41:BG:99:MET:N	2.72	0.41
1:CA:125:U:H2'	1:CA:126:G:H8	1.85	0.41
13:AM:16:ASP:N	13:AM:16:ASP:OD2	2.53	0.41
9:CI:39:GLY:O	9:CI:41:VAL:N	2.54	0.41
35:DA:704:G:C2	35:DA:726:G:C4	3.09	0.41
2:CB:132:LYS:HA	2:CB:135:GLN:NE2	2.35	0.41
35:BA:2861:G:C2	35:BA:2862:G:C8	3.09	0.41
35:DA:1515:G:N2	35:DA:1516:C:H1'	2.35	0.41
1:AA:110:C:C4	1:AA:111:G:C5	3.09	0.41
1:CA:969:A:O2'	1:CA:970:C:H5'	2.20	0.41
37:DC:44:HIS:CD2	37:DC:175:VAL:HA	2.55	0.41
35:BA:2023:G:H2'	35:BA:2024:G:H8	1.84	0.41
35:DA:36:G:O2'	35:DA:37:C:H5'	2.20	0.41
35:DA:845:G:C8	35:DA:845:G:OP2	2.73	0.41
53:DW:59:VAL:C	53:DW:61:ASN:H	2.24	0.41
35:DA:127:A:H5''	35:DA:128:C:C6	2.54	0.41
51:DU:51:LYS:HE2	51:DU:51:LYS:CA	2.48	0.41
35:BA:1923:U:H2'	35:BA:1924:C:C6	2.56	0.41
35:DA:2790:A:N3	35:DA:2790:A:C2'	2.83	0.41
6:CF:42:GLU:C	6:CF:44:GLY:H	2.23	0.41
35:BA:1360:A:C2	35:BA:1372:U:C2	3.08	0.41
4:AD:52:SER:O	4:AD:55:ALA:N	2.54	0.41
21:CU:21:TYR:HD1	21:CU:21:TYR:N	2.19	0.41
1:AA:516:U:C4	1:AA:517:G:C6	3.08	0.41
35:DA:1832:C:H2'	35:DA:1833:U:O4'	2.21	0.41
35:DA:727:A:H3'	35:DA:728:G:C8	2.55	0.41
51:BU:4:ALA:O	51:BU:5:LYS:O	2.39	0.41
1:CA:837:G:C2	1:CA:850:U:O2	2.74	0.41
8:AH:102:ARG:N	8:AH:102:ARG:HE	2.19	0.41
37:BC:124:GLY:O	37:BC:125:SER:CB	2.67	0.41
35:BA:2812:G:H2'	35:BA:2813:A:H8	1.86	0.41
35:DA:593:G:H2'	35:DA:594:U:H6	1.86	0.41
30:D4:21:VAL:C	30:D4:23:GLU:N	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1442:G:C5	1:CA:1442(B):A:C2	3.07	0.41
45:DO:76:ALA:HB3	50:DT:75:ILE:CG1	2.50	0.41
50:DT:100:TYR:C	50:DT:102:ILE:H	2.24	0.41
50:DT:45:PHE:CE2	50:DT:74:ARG:HB2	2.56	0.41
10:CJ:51:ARG:HG3	10:CJ:60:ARG:C	2.41	0.41
35:BA:1778:U:C5	35:BA:1784:A:C2	3.09	0.41
35:BA:1814:G:H2'	35:BA:1815:A:C8	2.56	0.41
35:BA:729:G:H3'	35:BA:729:G:N3	2.35	0.41
38:BD:48:ARG:CG	38:BD:48:ARG:NH1	2.84	0.41
38:BD:52:ARG:CB	38:BD:53:PHE:CE2	3.04	0.41
35:DA:1775:U:C2'	35:DA:1776:G:O5'	2.69	0.41
41:DG:151:ALA:HB3	41:DG:153:ARG:HH12	1.86	0.41
47:DQ:68:ILE:HG22	47:DQ:101:ARG:HE	1.84	0.41
35:DA:2574:G:C4	35:DA:2575:C:C5	3.08	0.41
39:BE:3:GLY:CA	39:BE:81:ILE:HG21	2.49	0.41
35:DA:1417:C:H2'	35:DA:1418:G:C5'	2.51	0.41
42:DH:121:ILE:HG22	42:DH:133:VAL:CG1	2.50	0.41
35:BA:58:G:N3	35:BA:70:G:C2	2.88	0.41
54:BX:82:GLN:C	54:BX:85:PRO:HD2	2.41	0.41
27:B1:94:LEU:HD13	27:B1:94:LEU:C	2.40	0.41
2:AB:211:ILE:O	2:AB:212:GLN:C	2.57	0.41
28:D2:22:GLU:HA	28:D2:25:VAL:HG12	2.01	0.41
35:DA:143(A):C:C2'	35:DA:143(A):C:O2	2.67	0.41
54:DX:38:GLU:O	54:DX:41:ASN:OD1	2.38	0.41
54:DX:60:ARG:HE	54:DX:74:PRO:CG	2.33	0.41
35:BA:485:C:C2	35:BA:496:G:N2	2.89	0.41
10:AJ:8:LEU:H	10:AJ:8:LEU:HD12	1.84	0.41
1:CA:1190:G:OP1	3:CC:5:ILE:HG23	2.18	0.41
35:BA:2334:G:N3	49:BS:15:ARG:NH1	2.69	0.41
49:BS:73:LEU:O	49:BS:74:ALA:C	2.59	0.41
49:BS:82:ILE:CG2	49:BS:83:LYS:N	2.84	0.41
1:CA:437:U:H2'	1:CA:438:G:H5'	2.03	0.41
1:CA:502:G:C6	1:CA:503:C:C4	3.08	0.41
1:CA:541:G:H2'	1:CA:542:G:C8	2.56	0.41
4:CD:202:LEU:O	4:CD:203:VAL:C	2.56	0.41
3:CC:134:ILE:HG23	3:CC:151:VAL:HG11	2.03	0.41
40:BF:25:PRO:HB3	40:BF:119:ARG:CG	2.50	0.41
25:AY:36:ALA:C	25:AY:38:LEU:N	2.74	0.41
27:D1:67:ILE:O	27:D1:68:PRO:O	2.39	0.41
44:DN:63:THR:HG23	44:DN:64:GLY:N	2.35	0.41
1:CA:1100:C:OP2	2:CB:96:ARG:HG2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1287:A:C2'	35:DA:1288:U:H5'	2.50	0.41
35:DA:2818:G:O2'	35:DA:2819:G:H5'	2.20	0.41
1:AA:329:A:C5	1:AA:332:G:C6	3.09	0.41
20:AT:46:GLU:O	20:AT:46:GLU:HG2	2.21	0.41
35:BA:1287:A:OP1	48:BR:105:ARG:O	2.39	0.41
35:BA:2692:C:H2'	35:BA:2693:A:C8	2.54	0.41
48:BR:116:LEU:CD2	48:BR:117:VAL:HG12	2.51	0.41
48:BR:29:LEU:HG	48:BR:79:LEU:HD23	2.01	0.41
1:CA:909:A:H2'	1:CA:910:C:O4'	2.19	0.41
2:CB:239:VAL:O	2:CB:240:GLN:HB3	2.20	0.41
2:AB:158:LEU:O	2:AB:159:PRO:C	2.58	0.41
35:DA:198:C:H5'	35:DA:2244:U:OP1	2.20	0.41
35:BA:2476:A:H2'	35:BA:2477:C:C5'	2.29	0.41
1:CA:739:C:O2'	1:CA:740:U:H5'	2.21	0.41
1:CA:662:G:O2'	1:CA:836:G:H5''	2.20	0.41
6:CF:14:LEU:HD22	6:CF:15:ASP:N	2.35	0.41
2:CB:188:ALA:HB1	2:CB:192:SER:HB2	2.02	0.41
35:DA:803:U:C2'	35:DA:804:A:H5'	2.50	0.41
35:DA:808:G:H2'	35:DA:809:G:C8	2.55	0.41
35:DA:811:U:O3'	35:DA:1251:C:H4'	2.21	0.41
35:DA:836:G:C5	35:DA:837:C:N4	2.89	0.41
35:DA:942:G:H1'	35:DA:1189:A:C2	2.55	0.41
40:DF:90:PHE:O	40:DF:91:GLY:C	2.58	0.41
19:AS:36:ARG:NH2	19:AS:72:GLY:O	2.54	0.41
55:DY:37:VAL:HG11	55:DY:72:VAL:HG21	2.01	0.41
4:AD:60:GLU:HG3	4:AD:198:VAL:HG13	2.03	0.41
18:AR:40:LEU:O	18:AR:43:PHE:N	2.53	0.41
18:AR:76:LEU:C	18:AR:78:LEU:H	2.23	0.41
1:CA:777:A:C2	1:CA:778:G:C4	3.09	0.41
1:CA:570:G:C6	1:CA:873:A:C2	3.08	0.41
35:DA:447:A:C4	35:DA:473:G:C8	3.09	0.41
25:CY:127:VAL:HA	25:CY:130:ARG:HG3	2.01	0.41
1:CA:1226:C:H2'	13:CM:103:THR:CB	2.51	0.41
13:CM:108:ARG:O	13:CM:109:THR:C	2.58	0.41
16:AP:1:MET:O	16:AP:24:ALA:HB2	2.21	0.41
1:CA:1445:C:H2'	1:CA:1446:U:C6	2.42	0.41
12:CL:10:LEU:HB3	17:CQ:32:TYR:CE1	2.55	0.41
17:CQ:29:HIS:CG	17:CQ:30:PRO:HD2	2.56	0.41
12:AL:85:ILE:HA	12:AL:85:ILE:HD12	1.82	0.41
35:BA:2620:C:C4	35:BA:2621:A:N7	2.89	0.41
25:AY:140:LEU:HD21	25:AY:158:GLU:N	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:60:ALA:O	11:AK:62:GLN:N	2.53	0.41
35:BA:1353:A:C2	35:BA:1354:A:C2	3.09	0.41
35:DA:2261:C:O4'	35:DA:2388:A:H1'	2.20	0.41
42:DH:41:MET:N	42:DH:41:MET:SD	2.93	0.41
35:DA:2646:C:H2'	35:DA:2647:U:C6	2.55	0.41
11:CK:72:ALA:O	11:CK:77:MET:HB2	2.20	0.41
1:AA:528:C:H2'	1:AA:529:G:C8	2.50	0.41
9:AI:95:LYS:CD	9:AI:96:LEU:N	2.77	0.41
31:D5:30:LEU:HD23	31:D5:41:PRO:HA	2.02	0.41
54:BX:65:ARG:O	54:BX:66:LEU:HB2	2.20	0.41
31:B5:40:LYS:HG2	31:B5:46:CYS:HB2	2.01	0.41
35:BA:1050:A:C2	35:BA:2751:G:C4	3.09	0.41
35:BA:1037:G:N2	35:BA:1038:C:C2	2.88	0.41
46:DP:107:LYS:C	46:DP:109:GLY:N	2.73	0.41
38:BD:136:ILE:HA	38:BD:137:PRO:HD3	1.94	0.41
35:BA:543:C:H6	35:BA:547:A:H8	1.67	0.41
7:CG:111:ARG:HB3	7:CG:112:PRO:HD2	2.03	0.41
54:BX:18:TYR:HA	54:BX:21:PHE:CG	2.54	0.41
35:BA:2120:G:O2'	35:BA:2121:G:H5'	2.20	0.41
39:DE:137:HIS:HB3	39:DE:138:PRO:CD	2.37	0.41
38:DD:43:ARG:HB3	38:DD:54:ARG:CB	2.50	0.41
35:DA:2199:A:H3'	35:DA:2200:C:H6	1.84	0.41
35:BA:336:C:O2'	35:BA:337:C:H5'	2.21	0.41
7:AG:64:GLN:C	7:AG:66:VAL:H	2.24	0.41
17:CQ:43:LEU:HD23	17:CQ:43:LEU:HA	1.85	0.41
1:AA:256:U:H2'	1:AA:257:G:H8	1.84	0.41
17:AQ:67:LYS:HG2	17:AQ:68:ARG:N	2.34	0.41
1:CA:328:C:HO2'	1:CA:329:A:P	2.42	0.41
5:CE:102:ALA:CB	5:CE:106:PRO:HG2	2.50	0.41
35:DA:1952:A:C6	35:DA:1953:A:C6	3.09	0.41
45:DO:22:ILE:HA	45:DO:22:ILE:HD13	1.80	0.41
35:DA:1613:G:N1	35:DA:1619:G:C6	2.88	0.41
26:B0:24:LYS:HG3	35:BA:2355:C:H4'	2.01	0.41
26:B0:50:ASN:ND2	26:B0:81:VAL:O	2.54	0.41
1:AA:1277:C:H4'	1:AA:1282:C:O2	2.21	0.41
4:CD:131:ARG:O	4:CD:132:ARG:O	2.39	0.41
35:BA:974:G:C4	35:BA:989:G:C2	3.08	0.41
29:D3:19:GLN:C	29:D3:21:ALA:H	2.24	0.41
46:DP:57:THR:HB	46:DP:59:LEU:HB3	2.02	0.41
46:DP:57:THR:O	46:DP:61:ARG:NH2	2.54	0.41
26:D0:69:PHE:CD2	26:D0:79:VAL:HG22	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1289:C:C2	35:BA:1290:C:C5	3.09	0.41
1:AA:336:C:HO2'	1:AA:337:C:H5'	1.84	0.41
35:BA:1365:A:H2'	35:BA:1366:A:H8	1.85	0.41
43:DI:49:ALA:O	43:DI:53:ALA:HB3	2.21	0.41
1:AA:416:G:C6	1:AA:417:C:C4	3.09	0.41
1:CA:149:A:O2'	1:CA:150:C:C6	2.73	0.41
11:AK:104:GLN:O	11:AK:106:LYS:N	2.53	0.41
35:BA:2290:G:C8	35:BA:2290:G:H5'	2.44	0.41
22:CV:40:C:O2	22:CV:41:C:C6	2.74	0.41
35:DA:920:G:C4	35:DA:921:G:C8	3.08	0.41
44:BN:128:HIS:HD2	44:BN:131:GLN:HB2	1.85	0.41
1:CA:1146:A:C2'	1:CA:1147:C:O5'	2.69	0.41
25:AY:112:LYS:CA	25:AY:116:ARG:HG3	2.50	0.41
36:DB:16:G:O2'	36:DB:17:C:H5'	2.20	0.41
17:CQ:76:LEU:HD12	17:CQ:77:VAL:N	2.33	0.41
35:DA:304:G:N1	35:DA:314:A:C6	2.88	0.41
1:AA:475:G:H2'	1:AA:476:G:C8	2.55	0.41
1:AA:702:A:C3'	1:AA:703:G:H5'	2.47	0.41
35:BA:632:A:C2	35:BA:2403:C:H1'	2.55	0.41
4:CD:50:ARG:HD2	4:CD:50:ARG:C	2.41	0.41
35:DA:702:G:N3	35:DA:731:C:N3	2.68	0.41
35:BA:1376:C:O2'	35:BA:1377:G:H5'	2.20	0.41
23:AW:57:C:H6	23:AW:57:C:O5'	2.04	0.41
35:BA:645:C:H2'	35:BA:645:C:O2	2.20	0.41
38:DD:200:ASP:O	38:DD:203:ASN:HB2	2.19	0.41
3:CC:121:ALA:HB1	3:CC:188:LEU:O	2.19	0.41
35:BA:1491:G:H5'	38:BD:99:ASP:OD1	2.21	0.41
35:BA:858:U:H1'	35:BA:2268:A:H2'	2.03	0.41
25:CY:62:ASP:HB2	25:CY:63:PRO:HD2	2.02	0.41
2:AB:17:PHE:O	2:AB:18:GLY:O	2.38	0.41
47:DQ:79:LEU:O	47:DQ:80:GLU:OE2	2.39	0.41
2:AB:44:LEU:HD12	2:AB:45:GLN:N	2.36	0.41
13:AM:100:GLY:C	13:AM:101:GLN:HG3	2.41	0.41
7:CG:155:ARG:HG3	7:CG:155:ARG:HH11	1.86	0.41
17:CQ:27:PHE:C	17:CQ:27:PHE:CD1	2.94	0.41
16:AP:76:GLN:CG	16:AP:76:GLN:O	2.68	0.41
43:BI:125:GLU:OE1	43:BI:125:GLU:HA	2.20	0.41
35:BA:1950:G:O5'	35:BA:1950:G:H8	2.02	0.41
36:DB:49:C:O2'	36:DB:50:G:H5'	2.20	0.41
35:DA:485:C:C2	35:DA:496:G:N2	2.88	0.41
39:DE:13:ARG:HA	39:DE:21:VAL:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DT:72:VAL:CG1	50:DT:73:GLU:N	2.83	0.41
43:BI:122:GLU:O	43:BI:126:TYR:OH	2.39	0.41
43:BI:81:VAL:O	43:BI:83:ALA:N	2.53	0.41
1:CA:1232:U:H5'	9:CI:126:SER:OG	2.19	0.41
10:CJ:64:GLU:O	10:CJ:64:GLU:HG3	2.21	0.41
35:BA:1805:U:H1'	38:BD:50:THR:O	2.20	0.41
35:BA:1806:C:C5	35:BA:1807:G:N7	2.89	0.41
35:BA:1812:A:O2'	35:BA:1813:G:H5'	2.21	0.41
38:BD:61:LEU:HD12	38:BD:62:TYR:N	2.35	0.41
38:BD:62:TYR:OH	38:BD:64:ILE:HD12	2.20	0.41
5:CE:128:PRO:O	5:CE:131:ILE:HG12	2.21	0.41
38:DD:80:ALA:O	38:DD:81:ALA:HB2	2.20	0.41
41:DG:116:ASP:CG	41:DG:117:PHE:N	2.74	0.41
47:DQ:68:ILE:HG12	47:DQ:68:ILE:O	2.21	0.41
50:BT:33:LYS:HB2	50:BT:41:ARG:HB3	2.03	0.41
50:BT:61:PHE:CE1	50:BT:76:PHE:HD1	2.38	0.41
16:AP:22:THR:HG22	16:AP:32:TYR:CA	2.48	0.41
47:BQ:29:PHE:N	47:BQ:105:GLU:OE2	2.44	0.41
56:BZ:125:LEU:O	56:BZ:165:VAL:HG23	2.20	0.41
35:DA:2053:G:N2	35:DA:2054:A:C4	2.89	0.41
39:BE:30:PRO:CD	39:BE:180:ASN:HD21	2.23	0.41
39:BE:44:TYR:CE2	39:BE:46:ALA:HB2	2.56	0.41
39:BE:52:LEU:N	39:BE:74:PRO:CB	2.83	0.41
35:BA:995:C:C2	51:BU:57:PHE:HE2	2.38	0.41
35:BA:998:C:OP2	51:BU:93:LYS:HE2	2.21	0.41
44:BN:2:LYS:HZ1	52:BV:12:TYR:HB3	1.85	0.41
42:DH:122:THR:CB	42:DH:134:SER:HB2	2.46	0.41
28:B2:29:LYS:O	28:B2:32:LEU:HG	2.20	0.41
54:BX:36:LYS:HZ2	54:BX:39:ILE:HA	1.81	0.41
35:DA:2811:G:N2	35:DA:2891:G:H1'	2.36	0.41
39:DE:52:LEU:O	39:DE:53:PRO:O	2.38	0.41
39:DE:61:ARG:CG	39:DE:62:PRO:N	2.84	0.41
41:BG:115:ARG:HH22	41:BG:136:ARG:CG	2.33	0.41
41:BG:124:SER:HB2	41:BG:131:TYR:CE1	2.56	0.41
42:BH:96:ALA:CB	42:BH:105:LEU:HB3	2.48	0.41
56:DZ:43:GLU:O	56:DZ:47:VAL:HG23	2.20	0.41
35:DA:998:C:OP2	51:DU:93:LYS:CE	2.68	0.41
3:AC:154:SER:O	3:AC:165:THR:HA	2.21	0.41
47:DQ:54:MET:CG	47:DQ:64:ILE:HD13	2.50	0.41
49:BS:53:SER:O	49:BS:55:ALA:N	2.54	0.41
4:CD:21:LEU:HD22	4:CD:115:ARG:CG	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:160:GLN:O	4:CD:163:GLU:HB3	2.21	0.41
3:CC:134:ILE:CG2	3:CC:151:VAL:HB	2.51	0.41
35:BA:596:G:C2	35:BA:662:G:C2	3.08	0.41
40:BF:110:LEU:HD23	40:BF:110:LEU:C	2.40	0.41
40:BF:20:LEU:HB2	40:BF:24:LEU:HD21	2.02	0.41
46:DP:70:GLN:CG	46:DP:71:VAL:N	2.83	0.41
25:AY:35:PRO:HG2	25:AY:36:ALA:H	1.86	0.41
3:CC:6:HIS:HA	3:CC:7:PRO:HD2	1.91	0.41
35:BA:1261:C:C2'	35:BA:1262:A:O5'	2.69	0.41
35:BA:2241:A:N1	35:BA:2242:G:C6	2.88	0.41
35:BA:669:G:O2'	35:BA:670:A:OP1	2.29	0.41
40:BF:47:GLY:HA3	40:BF:95:ARG:O	2.20	0.41
40:DF:25:PRO:HB3	40:DF:119:ARG:CG	2.51	0.41
47:BQ:12:GLN:HE21	47:BQ:73:PRO:HD3	1.85	0.41
48:DR:28:LEU:HD12	48:DR:29:LEU:CD1	2.51	0.41
48:DR:67:LEU:HA	48:DR:67:LEU:HD13	1.86	0.41
48:DR:26:LYS:HG2	48:DR:70:LEU:HD22	2.02	0.41
48:DR:56:LYS:HD2	48:DR:88:ARG:HA	2.02	0.41
1:AA:105:G:C5	1:AA:106:C:C4	3.09	0.41
35:BA:1661:G:H5'	35:BA:2712:U:O4	2.20	0.41
35:BA:2711:A:C8	35:BA:2714:G:O4'	2.74	0.41
50:BT:109:GLU:C	50:BT:112:ARG:HG3	2.40	0.41
36:DB:54:G:O2'	36:DB:55:U:H5'	2.21	0.41
49:DS:74:ALA:O	49:DS:78:LEU:HG	2.21	0.41
36:DB:47:C:O2'	49:DS:93:LYS:HG3	2.21	0.41
35:DA:385:C:C2'	35:DA:386:G:OP2	2.68	0.41
35:DA:8:A:OP1	44:DN:51:PHE:HE2	2.04	0.41
44:DN:61:ARG:NH1	44:DN:61:ARG:HG3	2.35	0.41
44:BN:55:VAL:CG1	44:BN:56:ASN:N	2.84	0.41
6:CF:100:ASN:HA	6:CF:100:ASN:HD22	1.54	0.41
18:CR:40:LEU:O	18:CR:41:LYS:C	2.58	0.41
2:CB:187:LEU:HD22	2:CB:188:ALA:O	2.21	0.41
35:DA:832:G:OP1	46:DP:40:SER:HB3	2.21	0.41
40:DF:53:THR:CG2	40:DF:56:GLU:OE1	2.69	0.41
46:DP:30:THR:O	46:DP:33:ARG:N	2.49	0.41
1:AA:1490:C:O2'	1:AA:1491:G:C5'	2.63	0.41
55:DY:28:LYS:O	55:DY:29:GLU:C	2.59	0.41
1:AA:1315:U:O2'	1:AA:1360:A:H1'	2.21	0.41
47:DQ:89:ASN:O	47:DQ:91:GLU:N	2.53	0.41
6:AF:30:LEU:HD23	6:AF:75:LEU:CD2	2.48	0.41
18:AR:21:LYS:O	18:AR:25:THR:OG1	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AR:33:ASP:OD2	18:AR:34:TYR:N	2.53	0.41
18:AR:40:LEU:O	18:AR:41:LYS:C	2.59	0.41
51:DU:36:ARG:O	51:DU:37:GLU:C	2.57	0.41
7:AG:62:PHE:CG	7:AG:62:PHE:O	2.73	0.41
25:CY:23:HIS:O	25:CY:24:ASN:C	2.58	0.41
16:AP:40:ASP:OD2	16:AP:40:ASP:C	2.59	0.41
25:AY:29:ARG:NE	25:AY:32:ARG:HH22	2.15	0.41
25:AY:154:THR:O	25:AY:158:GLU:N	2.46	0.41
35:BA:1428:C:C5	35:BA:1569:A:H5''	2.55	0.41
35:BA:83:G:N2	35:BA:103:A:OP2	2.53	0.41
23:AW:40:C:H2'	23:AW:41:C:C5	2.56	0.41
8:AH:60:ARG:NH1	8:AH:60:ARG:HG3	2.35	0.41
1:CA:824:C:H2'	1:CA:825:G:H8	1.85	0.41
1:CA:874:G:O2'	1:CA:875:C:H5'	2.20	0.41
35:BA:2473:U:O2	35:BA:2473:U:H2'	2.20	0.41
56:DZ:76:LEU:CD2	56:DZ:76:LEU:H	2.32	0.41
1:AA:562:C:H1'	12:AL:15:ARG:HD2	2.03	0.41
35:BA:271(S):G:H2'	35:BA:271(T):C:O4'	2.21	0.41
9:AI:118:LYS:CB	9:AI:118:LYS:NZ	2.81	0.41
9:AI:116:LYS:O	9:AI:119:ALA:N	2.54	0.41
12:CL:44:THR:HA	12:CL:45:PRO:HD3	1.85	0.41
35:BA:2751:G:N3	35:BA:2751:G:H2'	2.36	0.41
33:D7:24:THR:O	33:D7:28:ARG:HG3	2.20	0.41
35:BA:1174:A:H5''	35:BA:1175:U:C5'	2.50	0.41
35:DA:2197:U:H3	35:DA:2225:A:H62	1.69	0.41
40:BF:139:PHE:O	40:BF:140:LEU:C	2.59	0.41
1:CA:935:A:H61	1:CA:1380:U:H3	1.69	0.41
35:DA:2298:A:C2	35:DA:2321:G:C4	3.09	0.41
28:D2:60:LEU:CG	28:D2:61:LEU:H	2.10	0.41
35:DA:1986:A:H2'	35:DA:1987:G:H5''	2.02	0.41
35:DA:271(V):G:H2'	35:DA:271(W):G:C8	2.56	0.41
13:CM:19:LEU:O	13:CM:22:ILE:HB	2.20	0.41
1:CA:329:A:C2	1:CA:332:G:C5	3.09	0.41
5:CE:78:HIS:HB2	5:CE:79:GLU:H	1.69	0.41
35:BA:856:C:H5''	35:BA:856:C:H6	1.84	0.41
4:CD:129:ASN:HB2	4:CD:131:ARG:HH22	1.85	0.41
1:AA:1498:U:C4	24:AX:17:U:H4'	2.56	0.41
15:AO:52:SER:O	15:AO:55:GLY:N	2.53	0.41
38:DD:138:VAL:HG21	38:DD:166:GLN:O	2.21	0.41
8:CH:54:ASP:C	8:CH:56:LYS:H	2.23	0.41
1:AA:1089:G:H1	1:AA:1096:C:H42	1.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BP:57:THR:C	46:BP:59:LEU:N	2.74	0.41
35:DA:1450:G:H2'	35:DA:1450(A):C:C6	2.55	0.41
35:DA:1528(A):A:H3'	35:DA:1529:G:C5'	2.45	0.41
35:BA:185:U:O2'	35:BA:186:G:H5'	2.21	0.41
1:AA:1242:C:O5'	21:AU:10:ARG:NH1	2.49	0.41
3:AC:127:ARG:NH1	3:AC:127:ARG:CG	2.84	0.41
35:DA:976:C:H42	35:DA:988:A:H2	1.68	0.41
53:BW:27:LYS:O	53:BW:71:VAL:HG23	2.21	0.41
25:CY:45:TYR:CD2	25:CY:78:ALA:HB2	2.55	0.41
7:AG:36:LYS:O	7:AG:39:ALA:HB3	2.20	0.41
56:DZ:134:PRO:HG3	56:DZ:161:VAL:HG21	2.02	0.41
35:BA:213:A:C2'	35:BA:214:G:H5'	2.50	0.41
53:DW:64:MET:HG2	53:DW:109:GLU:OE2	2.20	0.41
1:CA:769:G:C4	1:CA:770:C:C5	3.09	0.41
1:CA:1151:A:C4	1:CA:1152:A:N7	2.89	0.41
35:BA:696:G:H2'	35:BA:697:C:H5'	2.02	0.41
1:CA:1002:G:H2'	1:CA:1003:G:C8	2.56	0.41
35:BA:117:G:H8	35:BA:117:G:O5'	2.04	0.41
1:CA:751:U:H2'	1:CA:752:G:O4'	2.20	0.41
1:CA:620:C:O2'	1:CA:621:A:H5'	2.20	0.41
35:DA:1555:G:H2'	35:DA:1556:C:H6	1.82	0.41
35:BA:1374:G:C6	35:BA:1375:C:C4	3.09	0.41
16:CP:53:VAL:O	16:CP:54:GLU:C	2.58	0.41
35:DA:2785:C:H6	35:DA:2785:C:O5'	2.04	0.41
11:AK:33:THR:CA	11:AK:40:ILE:HG12	2.51	0.41
53:BW:59:VAL:C	53:BW:61:ASN:H	2.23	0.41
35:BA:2522:U:C2'	35:BA:2523:G:H5''	2.50	0.41
35:BA:2783:G:N2	35:BA:2784:C:C2	2.89	0.41
5:AE:56:GLN:NE2	5:AE:60:TYR:HB2	2.35	0.41
35:DA:2253:G:C5	35:DA:2254:C:C4	3.09	0.41
35:BA:790:C:O2'	35:BA:791:C:C5'	2.69	0.41
35:BA:593:G:H2'	35:BA:594:U:C6	2.55	0.41
3:AC:22:TRP:CZ3	3:AC:32:LEU:HB3	2.56	0.41
35:DA:1906:G:C8	35:DA:1929:G:C4	3.09	0.41
12:AL:82:VAL:HB	12:AL:106:ASP:OD1	2.21	0.41
42:DH:111:HIS:HA	42:DH:112:PRO:HD2	1.95	0.41
32:B6:35:GLU:O	32:B6:35:GLU:HG3	2.21	0.41
2:AB:220:ASP:OD1	2:AB:220:ASP:N	2.53	0.41
35:BA:1691:C:O2'	35:BA:1692:U:H5'	2.20	0.41
35:DA:2721:A:H2'	35:DA:2722:G:O4'	2.21	0.41
35:DA:2724:C:OP1	39:DE:118:LYS:HE3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:178:PRO:C	38:BD:180:GLY:H	2.24	0.41
38:BD:25:THR:HB	38:BD:82:ILE:N	2.24	0.41
38:DD:35:LYS:HG2	38:DD:64:ILE:CG2	2.51	0.41
16:CP:4:ILE:HA	16:CP:21:VAL:HA	2.02	0.41
41:DG:108:ASN:O	41:DG:112:PRO:HD2	2.20	0.41
10:CJ:6:ILE:CD1	10:CJ:72:VAL:HB	2.51	0.41
35:BA:1992:G:HO2'	35:BA:1993:U:P	2.44	0.41
35:BA:2562:U:O2'	35:BA:2563:U:H5'	2.21	0.41
39:BE:13:ARG:HA	39:BE:21:VAL:O	2.19	0.41
45:BO:61:VAL:O	45:BO:61:VAL:HG13	2.21	0.41
50:BT:92:GLY:O	50:BT:94:ALA:N	2.54	0.41
39:DE:120:TRP:C	39:DE:122:PHE:N	2.72	0.41
35:DA:2572:A:C6	39:DE:144:ARG:NH2	2.89	0.41
51:BU:106:PHE:O	51:BU:107:ALA:C	2.58	0.41
51:BU:92:ARG:CZ	52:BV:11:GLN:H	2.33	0.41
1:AA:1060:C:H4'	10:AJ:52:GLY:CA	2.51	0.41
54:BX:60:ARG:HG2	54:BX:73:ARG:N	2.36	0.41
35:DA:2805:G:C2	35:DA:2807:G:C5	3.09	0.41
35:DA:1861:G:H2'	35:DA:1862:G:C8	2.55	0.41
27:B1:71:TYR:HA	27:B1:74:VAL:HG21	2.00	0.41
35:BA:2206:G:N3	35:BA:2207:G:H5'	2.34	0.41
41:BG:17:PRO:HA	41:BG:20:ILE:CG1	2.46	0.41
54:DX:81:VAL:C	54:DX:82:GLN:O	2.58	0.41
56:DZ:7:ALA:HB1	56:DZ:37:VAL:HG21	2.02	0.41
56:DZ:72:ARG:CG	56:DZ:89:PHE:HB2	2.43	0.41
52:DV:4:ILE:CD1	52:DV:40:LEU:HD11	2.49	0.41
52:DV:63:GLY:O	52:DV:64:HIS:CB	2.69	0.41
1:AA:995:C:H1'	14:AN:4:LYS:HE3	2.02	0.41
35:DA:2346:A:H5'	35:DA:2383:G:O4'	2.21	0.41
4:CD:18:LYS:HE3	4:CD:31:CYS:CB	2.51	0.41
4:CD:33:MET:HE2	4:CD:33:MET:HA	2.03	0.41
43:DI:86:THR:O	43:DI:122:GLU:OE2	2.39	0.41
44:BN:67:LEU:HB3	44:BN:88:GLU:CG	2.51	0.41
3:CC:150:LYS:CB	3:CC:201:TYR:HB2	2.38	0.41
40:BF:24:LEU:HD22	40:BF:24:LEU:N	2.36	0.41
35:BA:662:G:P	46:BP:18:ARG:HD2	2.61	0.41
35:BA:245:G:H5'	46:BP:70:GLN:H	1.86	0.41
34:B8:58:ILE:HA	34:B8:61:LEU:HD21	2.03	0.41
35:BA:2061:G:O4'	35:BA:2503:A:C5	2.74	0.41
35:BA:814:C:H3'	57:BA:3399:MG:MG	1.45	0.41
35:BA:511:U:O4	35:BA:512:G:C2	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:589:C:O3'	40:BF:95:ARG:NH1	2.53	0.41
52:BV:88:ARG:CG	52:BV:88:ARG:HH11	2.33	0.41
52:BV:73:SER:OG	52:BV:89:GLN:O	2.30	0.41
40:DF:7:TYR:CD1	40:DF:196:LEU:HD11	2.56	0.41
55:BY:87:LYS:HG2	55:BY:88:LYS:H	1.86	0.41
55:BY:90:LEU:N	55:BY:90:LEU:HD23	2.36	0.41
48:DR:15:SER:O	48:DR:16:HIS:O	2.39	0.41
48:DR:72:ASP:HB3	48:DR:75:LEU:HB2	2.03	0.41
1:AA:1421:G:C6	1:AA:1422:G:C5	3.09	0.41
20:AT:12:ALA:C	20:AT:14:LYS:N	2.74	0.41
20:AT:14:LYS:CA	20:AT:17:ARG:HH21	2.31	0.41
48:BR:18:LEU:HD13	48:BR:19:ALA:CA	2.50	0.41
2:CB:212:GLN:O	2:CB:213:LEU:C	2.58	0.41
2:CB:77:ALA:HA	2:CB:208:ILE:HG12	2.02	0.41
1:CA:657:G:C2	1:CA:658:G:C8	3.08	0.41
6:CF:16:GLN:O	6:CF:17:SER:C	2.58	0.41
15:CO:29:VAL:O	15:CO:30:ALA:C	2.58	0.41
35:DA:677:A:N1	35:DA:802:A:C6	2.89	0.41
40:DF:81:PRO:HG2	40:DF:82:ILE:HG23	2.03	0.41
4:AD:121:VAL:CA	4:AD:126:ILE:HD12	2.51	0.41
4:AD:148:VAL:HG23	4:AD:181:MET:O	2.20	0.41
4:AD:150:GLU:HA	4:AD:153:ARG:HD3	2.03	0.41
4:AD:97:LEU:HD22	4:AD:97:LEU:O	2.20	0.41
4:AD:66:ARG:O	4:AD:69:GLY:N	2.54	0.41
43:DI:132:PRO:O	43:DI:133:HIS:C	2.59	0.41
43:DI:130:TYR:O	43:DI:135:GLU:HG2	2.21	0.41
47:DQ:87:LYS:CG	47:DQ:87:LYS:O	2.55	0.41
1:CA:792:A:N3	1:CA:794:A:C5	2.89	0.41
35:DA:2027:G:C5	35:DA:2028:U:C5	3.09	0.41
35:DA:27:G:H1'	35:DA:513:A:N6	2.35	0.41
51:DU:7:GLY:C	51:DU:8:VAL:CG2	2.89	0.41
25:CY:32:ARG:HB3	25:CY:103:ILE:CD1	2.48	0.41
43:BI:10:GLU:C	43:BI:12:LEU:H	2.24	0.41
20:CT:40:ALA:HB2	20:CT:55:ILE:CG2	2.50	0.41
50:DT:10:VAL:N	50:DT:12:SER:OG	2.53	0.41
51:BU:31:SER:HB3	51:BU:34:LYS:CG	2.50	0.41
26:D0:32:ARG:HB2	26:D0:35:ASN:ND2	2.36	0.41
26:D0:32:ARG:HB3	26:D0:33:ALA:H	1.70	0.41
35:BA:84:A:N6	35:BA:102:G:O2'	2.54	0.41
35:BA:108:U:C2	35:BA:109:G:N7	2.89	0.41
2:CB:100:GLY:CA	2:CB:103:THR:HB	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:AK:22:HIS:HB3	11:AK:29:ILE:CG1	2.36	0.41
35:DA:610:G:C6	35:DA:611:C:N4	2.87	0.41
8:AH:127:LEU:HD22	8:AH:127:LEU:HA	1.85	0.41
1:AA:258:G:H2'	1:AA:259:G:H8	1.86	0.41
1:CA:1107:C:OP1	3:CC:174:PRO:HD3	2.20	0.41
1:AA:1501:C:N4	1:AA:1504:G:C2	2.88	0.41
1:CA:1342:C:O2'	1:CA:1343:G:H5'	2.21	0.41
12:AL:47:LYS:HG2	12:AL:48:PRO:HD3	2.01	0.41
8:AH:26:VAL:CG2	8:AH:32:LYS:NZ	2.76	0.41
9:AI:5:TYR:HE2	9:AI:16:ARG:HB3	1.86	0.41
9:AI:28:VAL:CG1	9:AI:29:ASN:H	2.32	0.41
31:D5:44:THR:CG2	48:DR:101:ALA:N	2.84	0.41
35:DA:2127:G:H1'	35:DA:2128:C:C4'	2.47	0.41
35:BA:2472:G:H2'	35:BA:2529:G:N2	2.35	0.41
35:BA:2757:A:N1	42:BH:67:LEU:HD13	2.36	0.41
9:CI:47:LEU:CB	9:CI:50:LEU:HD12	2.48	0.41
9:CI:63:ILE:CD1	9:CI:63:ILE:N	2.80	0.41
33:D7:25:PRO:HA	33:D7:28:ARG:CZ	2.50	0.41
42:DH:12:PRO:O	42:DH:13:LYS:CB	2.68	0.41
31:D5:17:ASP:HA	31:D5:20:ARG:CG	2.51	0.41
46:BP:131:SER:CB	46:BP:134:ALA:HB3	2.46	0.41
1:CA:375:U:O3'	16:CP:6:LEU:HD22	2.21	0.41
40:BF:148:LEU:HD13	40:BF:154:VAL:HG21	2.02	0.41
38:DD:142:VAL:HG23	38:DD:192:THR:O	2.20	0.41
38:DD:142:VAL:CG2	38:DD:143:HIS:N	2.84	0.41
1:AA:779:C:C2'	1:AA:780:A:H5'	2.50	0.41
35:BA:2673:G:H2'	35:BA:2674:G:C8	2.50	0.41
39:BE:101:ARG:HH11	39:BE:169:ASN:HD22	1.68	0.41
35:DA:2219:G:C6	35:DA:2220:G:N7	2.89	0.41
7:AG:67:GLU:CD	7:AG:67:GLU:H	2.24	0.41
40:DF:170:LEU:HD23	40:DF:173:VAL:HG21	2.01	0.41
5:AE:102:ALA:H	5:AE:107:ARG:NH2	2.15	0.41
35:BA:149:A:H2'	35:BA:150:C:H6	1.82	0.41
35:BA:2186:G:H3'	35:BA:2187:G:H5''	2.02	0.41
39:BE:137:HIS:HB3	39:BE:138:PRO:CD	2.41	0.41
1:CA:1184:G:C2	1:CA:1185:G:C5	3.08	0.41
35:DA:1271:G:N2	35:DA:1617:C:O4'	2.54	0.41
5:CE:78:HIS:CD2	8:CH:104:ARG:NE	2.89	0.41
25:CY:109:GLU:C	25:CY:112:LYS:HB3	2.40	0.41
1:AA:1179:A:O2'	9:AI:103:THR:HG23	2.20	0.41
9:AI:102:LEU:C	9:AI:102:LEU:HD23	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1844:C:H5''	38:BD:258:LYS:HG3	2.02	0.41
35:BA:2543:G:O2'	35:BA:2544:G:H5'	2.21	0.41
54:DX:89:ILE:HA	54:DX:92:LEU:HB2	2.01	0.41
35:BA:1389:G:H2'	35:BA:1390:U:C6	2.56	0.41
17:CQ:92:ARG:O	17:CQ:93:GLN:C	2.59	0.41
35:BA:359:A:H2'	35:BA:360:G:O4'	2.21	0.41
35:DA:1449:A:C6	35:DA:1450:G:H1'	2.55	0.41
35:DA:695:G:C2	35:DA:696:G:C8	3.09	0.41
11:AK:108:ILE:HD12	11:AK:108:ILE:N	2.35	0.41
23:CW:34:U:O2	23:CW:37:U:C5	2.74	0.41
45:DO:88:ASN:O	45:DO:89:ASN:C	2.59	0.41
35:BA:6:A:C2'	44:BN:130:HIS:HB2	2.50	0.41
41:BG:34:LEU:HB3	41:BG:99:MET:SD	2.60	0.41
35:BA:2234:G:H2'	35:BA:2235:G:H8	1.86	0.41
1:CA:286:G:H2'	1:CA:287:U:H6	1.85	0.41
23:AW:47:G:H2'	23:AW:48:U:H5'	2.03	0.41
35:DA:980:A:C6	35:DA:981:A:C2	3.09	0.41
53:BW:1:MET:O	53:BW:2:GLU:HB3	2.20	0.41
26:D0:1:MET:O	26:D0:2:ALA:CB	2.68	0.41
7:AG:42:ILE:HA	7:AG:45:ASP:CB	2.49	0.41
45:DO:47:ILE:HG23	45:DO:48:PRO:N	2.36	0.41
40:DF:26:ALA:HB1	40:DF:27:GLU:OE1	2.21	0.41
35:DA:1477:A:C2	35:DA:1515:G:C2	3.09	0.41
35:BA:115:C:H2'	35:BA:116:C:H6	1.86	0.41
3:AC:119:ARG:HH21	3:AC:140:ARG:NE	2.19	0.41
35:DA:645:C:O2	35:DA:645:C:H2'	2.21	0.41
35:DA:1765:C:O5'	35:DA:1765:C:H6	2.04	0.41
35:DA:1767:C:O2'	35:DA:1768:U:H5'	2.21	0.41
35:BA:372:G:O2'	35:BA:373:U:OP2	2.38	0.41
35:BA:1181:C:H2'	35:BA:1182:A:H8	1.86	0.41
35:DA:2068:U:O4	35:DA:2430:A:C2	2.74	0.41
1:CA:857:C:O2	1:CA:858:G:H1'	2.20	0.41
35:BA:1013:C:O2'	35:BA:1014:U:H5'	2.20	0.41
46:BP:138:LEU:HD22	46:BP:142:GLY:HA3	2.02	0.41
35:BA:1474:C:H3'	35:BA:1475:G:H8	1.84	0.41
43:DI:44:LEU:C	43:DI:44:LEU:HD23	2.41	0.41
35:DA:2251:G:C2	35:DA:2450:A:H1'	2.56	0.41
35:DA:2657:A:C5	35:DA:2658:C:C5	3.09	0.41
35:DA:761:A:O5'	35:DA:761:A:H8	2.04	0.41
35:DA:2016:U:O5'	35:DA:2016:U:H6	2.03	0.41
1:AA:27:G:H2'	1:AA:28:G:O4'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:139(A):G:H5'	35:DA:140:G:OP2	2.20	0.41
8:CH:95:VAL:HA	8:CH:99:GLU:OE1	2.21	0.41
35:BA:2602:A:H4'	35:BA:2603:G:O5'	2.21	0.41
35:DA:900:A:N7	35:DA:901:A:N7	2.68	0.41
35:BA:2288:A:H2	35:BA:2325:G:C8	2.39	0.41
44:DN:18:ALA:C	44:DN:20:GLY:N	2.74	0.41
39:BE:67:PHE:HA	39:BE:67:PHE:HD2	1.76	0.41
12:CL:19:ARG:HD2	12:CL:19:ARG:H	1.86	0.41
35:DA:2751:G:H2'	35:DA:2751:G:N3	2.36	0.41
35:DA:1663:C:N3	35:DA:1992:G:O6	2.54	0.41
50:DT:88:ILE:CD1	50:DT:88:ILE:N	2.84	0.41
35:DA:1992:G:O2'	35:DA:1993:U:P	2.79	0.41
35:DA:2721:A:H2'	35:DA:2722:G:H8	1.86	0.41
35:DA:2723:C:H2'	35:DA:2724:C:C5'	2.50	0.41
39:DE:9:VAL:HG13	39:DE:25:VAL:HG12	2.02	0.41
45:DO:71:ARG:HH12	50:DT:74:ARG:NH2	2.19	0.41
50:DT:23:ARG:CZ	50:DT:120:ARG:HD3	2.51	0.41
1:CA:974:A:H8	1:CA:974:A:OP1	2.04	0.41
35:BA:1785:A:N7	35:BA:1787:A:C5	2.89	0.41
35:BA:1567:A:N6	38:BD:21:PHE:CE2	2.89	0.41
41:DG:12:TYR:CA	41:DG:16:ARG:HG3	2.51	0.41
35:BA:1797:C:H2'	35:BA:1798:U:C6	2.56	0.41
1:CA:919:A:C2'	1:CA:920:U:O5'	2.69	0.41
5:CE:11:ILE:HD12	5:CE:31:LEU:CD2	2.48	0.41
1:CA:18:C:C5'	5:CE:127:ASN:ND2	2.84	0.41
35:DA:1779:U:P	35:DA:1784:A:H61	2.43	0.41
35:DA:1826:G:H4'	38:DD:242:ARG:CZ	2.50	0.41
41:DG:181:ARG:O	41:DG:182:LYS:OXT	2.39	0.41
41:DG:45:GLU:HA	41:DG:47:LYS:HD3	2.03	0.41
38:BD:8:PRO:HB3	38:BD:14:ARG:HA	2.03	0.41
36:DB:32:C:H2'	36:DB:33:G:O4'	2.21	0.41
41:DG:104:GLU:C	41:DG:106:LEU:H	2.23	0.41
41:DG:119:GLY:O	41:DG:120:LEU:C	2.58	0.41
34:B8:37:SER:HB2	34:B8:38:GLY:H	1.67	0.41
1:AA:1442:G:C4	1:AA:1442(B):A:N1	2.89	0.41
45:BO:104:ARG:O	45:BO:106:LEU:N	2.54	0.41
45:BO:6:THR:O	45:BO:20:MET:HA	2.21	0.41
50:BT:74:ARG:NH1	50:BT:74:ARG:HG2	2.34	0.41
56:BZ:91:LEU:HB3	56:BZ:130:PRO:CG	2.51	0.41
36:BB:75:G:C8	36:BB:76:G:N7	2.89	0.41
56:BZ:37:VAL:HG23	56:BZ:37:VAL:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2571:C:O2	35:DA:2571:C:C2'	2.67	0.41
39:DE:117:MET:HE1	39:DE:124:GLY:HA3	2.02	0.41
35:BA:2892:A:H2'	35:BA:2893:G:O4'	2.21	0.41
39:BE:53:PRO:O	39:BE:54:GLN:C	2.59	0.41
39:BE:84:PHE:CZ	39:BE:86:PRO:HB3	2.55	0.41
44:BN:110:GLY:HA2	44:BN:114:ARG:HH21	1.81	0.41
52:BV:61:VAL:HG21	52:BV:100:ARG:H	1.82	0.41
52:BV:40:LEU:HA	52:BV:49:THR:O	2.21	0.41
42:DH:117:PRO:HA	42:DH:118:PRO:HD2	1.99	0.41
42:DH:162:ILE:C	42:DH:162:ILE:CD1	2.83	0.41
42:DH:87:LEU:CD1	42:DH:148:ILE:HG21	2.51	0.41
10:AJ:45:ARG:NH1	14:AN:36:PHE:CE2	2.89	0.41
1:AA:963:G:N2	10:AJ:55:LYS:CE	2.84	0.41
39:DE:35:GLN:HE22	39:DE:37:ARG:HH21	1.68	0.41
39:DE:56:PRO:O	39:DE:57:LYS:C	2.59	0.41
35:DA:2809:A:C2'	35:DA:2810:A:H5'	2.51	0.41
39:DE:181:LEU:N	39:DE:181:LEU:CD2	2.75	0.41
27:B1:13:ILE:HD13	27:B1:66:HIS:CE1	2.56	0.41
27:B1:75:GLU:O	27:B1:76:ARG:CZ	2.69	0.41
27:B1:75:GLU:HB2	27:B1:76:ARG:NH2	2.36	0.41
2:AB:83:MET:HB2	2:AB:84:GLU:OE2	2.21	0.41
41:BG:63:ILE:HG22	41:BG:143:GLU:HB2	2.03	0.41
28:D2:37:PHE:CD2	28:D2:40:SER:HA	2.56	0.41
54:DX:54:VAL:HA	54:DX:78:LYS:O	2.21	0.41
28:D2:32:LEU:CD2	28:D2:44:LEU:HD21	2.51	0.41
35:DA:1398:C:OP1	54:DX:53:LYS:NZ	2.54	0.41
42:BH:83:TYR:CD1	42:BH:84:SER:N	2.89	0.41
42:BH:94:TYR:CE1	42:BH:160:LYS:HD2	2.55	0.41
42:BH:153:LYS:N	42:BH:153:LYS:CD	2.84	0.41
56:DZ:24:LEU:C	56:DZ:24:LEU:CD1	2.87	0.41
56:DZ:70:LEU:HA	56:DZ:70:LEU:HD23	1.70	0.41
56:DZ:28:MET:HG3	56:DZ:33:LEU:CD2	2.50	0.41
56:DZ:52:SER:O	56:DZ:71:VAL:HG21	2.21	0.41
56:DZ:8:TYR:H	56:DZ:62:PRO:HD3	1.85	0.41
35:DA:535:C:C4	35:DA:536:A:N7	2.89	0.41
52:DV:36:PRO:CG	52:DV:60:GLU:OE1	2.69	0.41
44:DN:2:LYS:HZ1	52:DV:12:TYR:HB3	1.86	0.41
19:CS:70:LYS:CB	19:CS:70:LYS:NZ	2.77	0.41
1:CA:1320:C:H42	19:CS:36:ARG:HD3	1.86	0.41
49:BS:34:HIS:NE2	49:BS:54:LEU:HB2	2.36	0.41
49:BS:29:PHE:CD1	49:BS:30:ARG:N	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BS:28:VAL:O	49:BS:89:ARG:HG2	2.21	0.41
4:CD:100:ARG:HH11	4:CD:100:ARG:HG2	1.85	0.41
4:CD:157:LEU:O	4:CD:161:ASN:OD1	2.38	0.41
4:CD:201:GLN:NE2	4:CD:204:ILE:HD12	2.35	0.41
44:BN:63:THR:HG23	44:BN:64:GLY:N	2.36	0.41
3:CC:128:PHE:O	3:CC:130:VAL:N	2.54	0.41
35:DA:2412:A:C6	35:DA:2413:G:C4	3.09	0.41
27:D1:78:LYS:HE2	35:DA:271(R):G:O4'	2.21	0.41
35:DA:271(S):G:H2'	35:DA:271(T):C:O4'	2.21	0.41
44:DN:87:LEU:O	44:DN:90:MET:HB2	2.21	0.41
44:DN:96:GLU:OE2	44:DN:96:GLU:N	2.51	0.41
34:B8:2:PRO:HA	35:BA:591:C:O2	2.20	0.41
35:BA:26:G:C6	35:BA:27:G:C2	3.09	0.41
35:BA:942:G:H2'	35:BA:943:U:O4'	2.20	0.41
35:BA:585:G:C4	35:BA:1251:C:N4	2.89	0.41
35:BA:670:A:H4'	35:BA:671:C:O5'	2.20	0.41
40:DF:110:LEU:C	40:DF:110:LEU:HD23	2.40	0.41
40:DF:20:LEU:O	40:DF:21:ALA:O	2.39	0.41
55:BY:87:LYS:C	55:BY:89:PHE:H	2.23	0.41
55:BY:87:LYS:HG2	55:BY:88:LYS:N	2.35	0.41
48:DR:67:LEU:O	48:DR:70:LEU:O	2.38	0.41
48:DR:78:LYS:O	48:DR:82:GLU:HB3	2.21	0.41
48:DR:80:PHE:C	48:DR:82:GLU:H	2.24	0.41
1:AA:1421:G:O2'	1:AA:1422:G:H5'	2.21	0.41
20:AT:26:ASN:HD22	20:AT:27:LYS:N	2.19	0.41
35:BA:1757:U:H2'	35:BA:1758:G:OP1	2.21	0.41
48:BR:78:LYS:O	48:BR:82:GLU:HB3	2.20	0.41
5:AE:51:VAL:O	5:AE:52:PRO:C	2.59	0.41
1:AA:1425:U:H2'	1:AA:1426:C:C6	2.56	0.41
48:BR:117:VAL:O	48:BR:118:GLU:CB	2.69	0.41
48:BR:59:ASP:O	48:BR:62:ALA:N	2.51	0.41
48:BR:81:ASP:N	48:BR:81:ASP:OD2	2.54	0.41
49:DS:20:ARG:HA	49:DS:20:ARG:HD3	1.70	0.41
49:DS:68:GLN:O	49:DS:71:ARG:HB2	2.20	0.41
49:DS:106:ARG:NH1	49:DS:107:GLU:O	2.54	0.41
49:DS:13:ARG:N	49:DS:13:ARG:CD	2.69	0.41
2:AB:69:LEU:HB3	2:AB:162:ILE:HB	2.03	0.41
2:AB:70:PHE:O	2:AB:92:TYR:CB	2.66	0.41
35:DA:202:U:N3	35:DA:203:C:C4	2.89	0.41
6:CF:18:GLN:CA	6:CF:21:LEU:HD23	2.46	0.41
18:CR:71:LYS:C	18:CR:74:ARG:HB2	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:185:ILE:HG22	2:CB:199:TYR:CB	2.45	0.41
2:CB:43:ASP:OD2	2:CB:46:LYS:N	2.46	0.41
6:CF:21:LEU:CA	6:CF:24:GLU:HG2	2.49	0.41
15:CO:66:LEU:O	15:CO:69:TYR:N	2.53	0.41
34:D8:59:LYS:O	34:D8:61:LEU:N	2.50	0.41
35:DA:2065:C:H1'	35:DA:2449:U:N3	2.34	0.41
35:DA:802:A:C6	35:DA:803:U:C4	3.09	0.41
40:DF:82:ILE:H	40:DF:82:ILE:HG23	1.58	0.41
35:DA:589:C:O3'	40:DF:95:ARG:NH1	2.54	0.41
46:DP:48:PRO:CG	46:DP:49:ARG:H	2.34	0.41
46:DP:49:ARG:HG2	46:DP:50:ARG:N	2.35	0.41
35:DA:1225:G:O2'	35:DA:1226:A:H5'	2.21	0.41
40:DF:82:ILE:C	40:DF:84:VAL:H	2.23	0.41
4:AD:158:ILE:HG22	4:AD:159:ARG:N	2.35	0.41
1:AA:757:U:O2'	1:AA:879:C:H1'	2.21	0.41
47:DQ:43:THR:HG1	47:DQ:46:GLN:HG3	1.83	0.41
35:DA:910:A:C6	35:DA:911:A:C6	3.09	0.41
35:DA:911:A:N6	47:DQ:10:ARG:HG2	2.36	0.41
18:AR:40:LEU:HA	18:AR:43:PHE:CD1	2.56	0.41
18:AR:42:ARG:O	18:AR:44:LEU:N	2.47	0.41
1:CA:1517:G:O6	1:CA:1518:A:N1	2.53	0.41
1:CA:1529:G:OP2	1:CA:1529:G:H3'	2.21	0.41
35:DA:532:A:C8	35:DA:2021:C:C5	3.09	0.41
35:DA:562:U:O2'	35:DA:563:G:C5'	2.69	0.41
42:DH:19:VAL:HG12	42:DH:20:ALA:N	2.36	0.41
2:AB:115:LEU:CB	2:AB:145:LEU:HD11	2.50	0.41
16:AP:65:GLN:HA	16:AP:66:PRO:HD2	1.93	0.41
7:AG:104:LEU:O	7:AG:105:VAL:C	2.59	0.41
35:DA:29:U:H4'	51:DU:7:GLY:O	2.21	0.41
25:CY:104:PRO:HA	25:CY:105:PRO:HD2	1.81	0.41
25:CY:152:ASP:O	25:CY:156:ARG:HG3	2.21	0.41
25:CY:152:ASP:OD1	25:CY:153:GLU:N	2.53	0.41
25:CY:2:THR:C	25:CY:4:LYS:N	2.71	0.41
12:CL:28:LYS:C	12:CL:30:ALA:H	2.24	0.41
35:DA:19:C:H2'	35:DA:20:C:C6	2.56	0.41
12:CL:55:VAL:CA	12:CL:70:ILE:HD13	2.51	0.41
1:CA:1226:C:OP1	19:CS:81:ARG:CZ	2.69	0.41
13:CM:113:PRO:O	13:CM:114:ARG:C	2.58	0.41
13:CM:92:HIS:ND1	13:CM:98:VAL:HG21	2.36	0.41
1:AA:451:A:C1'	1:AA:452:A:N7	2.84	0.41
20:CT:48:LYS:O	20:CT:49:ALA:CB	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:AY:61:PRO:HG3	25:AY:67:VAL:CG1	2.50	0.41
1:AA:1014:A:H2	1:AA:1219:U:O2	2.03	0.41
25:AY:164:ILE:CG2	25:AY:165:THR:N	2.80	0.41
1:CA:939:G:C6	1:CA:940:C:N4	2.89	0.41
37:BC:44:HIS:HD2	37:BC:175:VAL:HA	1.85	0.41
37:BC:44:HIS:O	37:BC:210:ARG:HA	2.21	0.41
35:BA:2036:C:C4'	35:BA:2036:C:C6	3.04	0.41
11:AK:67:ASP:OD1	11:AK:71:LYS:HE3	2.21	0.41
35:BA:1353:A:H4'	38:BD:38:LYS:HZ3	1.86	0.41
35:BA:769:G:H5'	35:BA:1379:A:H61	1.86	0.41
35:DA:2753:A:H2	35:DA:2754:U:N3	2.18	0.41
42:DH:58:GLU:O	42:DH:61:HIS:HB2	2.20	0.41
8:CH:120:THR:C	8:CH:122:ARG:N	2.74	0.41
8:CH:109:ILE:HG23	8:CH:137:VAL:HG23	2.03	0.41
35:BA:2261:C:C2	35:BA:2280:G:C2	3.08	0.41
35:BA:78:A:N1	35:BA:109:G:C6	2.89	0.41
55:BY:15:VAL:O	55:BY:16:ALA:HB2	2.21	0.41
1:AA:1226:C:H2'	13:AM:103:THR:CB	2.51	0.41
1:AA:1226:C:OP1	19:AS:81:ARG:CZ	2.69	0.41
35:DA:662:G:P	46:DP:18:ARG:HD2	2.60	0.41
11:CK:71:LYS:O	11:CK:73:MET:N	2.54	0.41
1:AA:602:A:O2'	1:AA:603:U:H5'	2.20	0.41
5:AE:69:VAL:HG11	5:AE:113:ALA:HB1	2.03	0.41
2:CB:113:HIS:C	2:CB:115:LEU:N	2.74	0.41
1:AA:18:C:H2'	1:AA:19:C:H6	1.86	0.41
25:CY:83:ILE:C	25:CY:85:ASP:N	2.72	0.41
25:CY:80:GLU:C	25:CY:82:ALA:N	2.74	0.41
9:CI:113:LYS:HB2	9:CI:116:LYS:CG	2.48	0.41
8:AH:3:THR:O	8:AH:5:PRO:HD3	2.21	0.41
8:AH:9:MET:C	8:AH:11:THR:N	2.73	0.41
12:AL:113:ARG:NH1	12:AL:120:TYR:CE2	2.88	0.41
12:AL:46:LYS:O	12:AL:47:LYS:C	2.59	0.41
1:AA:876:G:O2'	8:AH:7:ALA:HB1	2.21	0.41
18:AR:52:PRO:C	18:AR:56:THR:HG23	2.38	0.41
9:AI:28:VAL:HG22	9:AI:63:ILE:C	2.41	0.41
8:CH:20:TYR:HA	8:CH:65:TYR:CZ	2.55	0.41
8:CH:63:LEU:HD22	8:CH:63:LEU:N	2.36	0.41
8:CH:63:LEU:CB	8:CH:65:TYR:CE1	3.04	0.41
31:D5:50:GLY:HA3	31:D5:56:LYS:HB3	2.03	0.41
47:DQ:137:TYR:HE2	56:DZ:76:LEU:CD2	2.33	0.41
42:BH:41:MET:HE3	42:BH:54:ARG:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:BH:35:VAL:HG21	42:BH:72:ILE:HD13	2.02	0.41
1:CA:1249:C:H5'	1:CA:1249:C:H6	1.85	0.41
9:CI:83:ARG:HA	9:CI:86:VAL:HG12	2.03	0.41
35:DA:363(F):A:O2'	35:DA:364:C:C5	2.74	0.41
9:CI:88:TYR:O	9:CI:89:ASN:CB	2.69	0.41
33:D7:25:PRO:HG2	33:D7:26:GLY:N	2.31	0.41
46:DP:101:VAL:CB	46:DP:107:LYS:HA	2.50	0.41
56:BZ:109:ALA:HB3	56:BZ:145:GLU:OE1	2.21	0.41
1:CA:376:G:H5''	16:CP:5:ARG:HB2	2.02	0.41
15:AO:8:LYS:HG2	15:AO:12:ILE:HD11	2.03	0.41
46:BP:74:GLU:CD	46:BP:75:ILE:HD12	2.41	0.41
35:DA:2297:C:H2'	35:DA:2298:A:C5'	2.36	0.41
35:DA:709:U:C2	35:DA:723:G:N2	2.88	0.41
38:DD:53:PHE:C	38:DD:54:ARG:HG2	2.38	0.41
1:CA:37:U:O2'	1:CA:38:G:H5'	2.21	0.41
7:AG:64:GLN:HG2	7:AG:128:ALA:HB1	2.03	0.41
13:AM:19:LEU:HA	13:AM:22:ILE:CD1	2.38	0.41
1:CA:1423:G:C2	1:CA:1424:C:C5	3.09	0.41
17:CQ:45:HIS:HB2	17:CQ:69:LYS:CE	2.48	0.41
40:DF:171:PRO:C	40:DF:173:VAL:H	2.24	0.41
1:AA:253:U:O2'	1:AA:254:G:H5'	2.20	0.41
17:AQ:45:HIS:HE2	17:AQ:47:PRO:HB3	1.84	0.41
35:DA:2171:A:N3	35:DA:2171:A:H2'	2.36	0.41
26:D0:25:ARG:CB	26:D0:37:LEU:HD23	2.49	0.41
35:BA:271(W):G:C5'	35:BA:271(X):G:OP2	2.69	0.41
35:BA:1925:C:H2'	35:BA:1926:U:C5'	2.50	0.41
20:CT:14:LYS:CA	20:CT:17:ARG:HH21	2.33	0.41
35:DA:1484:G:H1	35:DA:1506:C:H42	1.69	0.41
4:AD:129:ASN:HB2	4:AD:131:ARG:HH22	1.86	0.41
35:BA:1850:G:C5	35:BA:1851:U:C5	3.09	0.41
1:AA:113:G:H2'	1:AA:114:U:C6	2.55	0.41
35:DA:1771:C:C1'	35:DA:1786:A:H8	2.33	0.41
3:CC:89:GLU:O	3:CC:93:LYS:N	2.49	0.41
19:CS:48:THR:HG22	19:CS:61:TYR:CB	2.50	0.41
54:BX:62:LYS:HB3	54:BX:69:TYR:H	1.86	0.41
3:AC:181:ASN:HD21	3:AC:204:LEU:HB2	1.83	0.41
26:D0:40:GLN:HG3	26:D0:57:PHE:HB3	2.03	0.41
26:B0:26:TYR:C	26:B0:67:VAL:HG11	2.41	0.41
35:BA:470:A:H2'	35:BA:471:A:O4'	2.21	0.41
46:DP:17:LYS:C	46:DP:19:VAL:N	2.60	0.41
35:BA:348:G:H2'	35:BA:349:G:C8	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:863:A:H2	35:BA:914:C:N4	2.19	0.41
1:AA:665:A:H2'	1:AA:732:C:O2	2.21	0.41
35:DA:968:G:C2	35:DA:969:U:C2	3.09	0.41
13:AM:48:LEU:HD21	13:AM:53:VAL:CG2	2.51	0.41
1:AA:66:G:O4'	1:AA:173:U:C4	2.74	0.41
1:AA:1118:C:O5'	9:AI:104:ARG:HG3	2.20	0.41
1:AA:656:C:O2'	1:AA:657:G:H5'	2.20	0.41
15:AO:60:VAL:O	15:AO:63:ARG:N	2.54	0.41
12:CL:117:ARG:C	12:CL:119:LYS:O	2.59	0.41
38:DD:166:GLN:CA	38:DD:166:GLN:NE2	2.83	0.41
8:CH:54:ASP:C	8:CH:56:LYS:N	2.74	0.41
1:AA:769:G:H2'	1:AA:770:C:C6	2.52	0.41
36:BB:83:G:C2'	36:BB:84:C:H5'	2.51	0.41
1:AA:178:C:H2'	1:AA:179:A:C8	2.52	0.41
44:BN:107:LEU:HD12	44:BN:107:LEU:C	2.42	0.41
36:DB:11:C:H3'	36:DB:12:C:C5	2.56	0.41
45:BO:13:ASN:ND2	45:BO:96:THR:OG1	2.53	0.41
53:BW:44:ALA:O	53:BW:45:TYR:C	2.58	0.41
45:DO:60:ALA:HA	45:DO:87:ILE:H	1.86	0.41
25:AY:48:ALA:O	25:AY:50:VAL:N	2.54	0.41
35:DA:2193:G:C2	35:DA:2194:G:C8	3.09	0.41
35:DA:481:G:O2'	35:DA:482:A:P	2.79	0.41
26:D0:72:ARG:HB2	26:D0:76:GLY:O	2.21	0.41
53:DW:12:ILE:CD1	53:DW:42:ARG:NH1	2.83	0.41
46:DP:13:ASN:ND2	46:DP:13:ASN:N	2.69	0.41
1:CA:227:G:C2	1:CA:228:A:C4	3.09	0.41
7:AG:23:VAL:HG12	7:AG:27:ILE:CD1	2.51	0.41
11:AK:124:LYS:HD2	11:AK:125:PHE:CE1	2.55	0.41
35:BA:920:G:O2'	35:BA:921:G:H5'	2.21	0.41
38:BD:70:TRP:CZ2	38:BD:150:LYS:HA	2.55	0.41
13:AM:14:ARG:HG2	13:AM:14:ARG:H	1.68	0.41
7:CG:24:THR:O	7:CG:28:ASN:ND2	2.54	0.41
1:CA:1287:A:C5	1:CA:1288:A:N6	2.89	0.41
10:CJ:22:LYS:HE3	10:CJ:23:ILE:HG13	2.03	0.41
35:BA:2840:C:O2'	35:BA:2841:C:H5'	2.20	0.41
1:AA:52:G:C6	1:AA:360:A:C2	3.09	0.41
35:BA:1109:C:N4	35:BA:1110:G:C2	2.89	0.41
1:CA:810:C:H2'	1:CA:811:C:O4'	2.21	0.41
43:DI:26:ALA:HA	43:DI:30:LEU:HB2	2.02	0.41
1:CA:947:G:H2'	1:CA:948:C:C6	2.56	0.41
23:CW:31:G:N2	23:CW:42:C:C2	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:2073:C:O2'	35:DA:2074:U:H5'	2.20	0.41
35:DA:1761:C:H3'	35:DA:1762:A:H8	1.86	0.41
1:CA:885:G:H1	1:CA:912:C:N4	2.18	0.41
1:AA:764:C:C2	1:AA:765:G:C8	3.09	0.41
1:CA:355:C:C2'	1:CA:356:A:H5'	2.50	0.41
3:AC:95:THR:HB	3:AC:99:VAL:CG1	2.51	0.41
38:BD:109:ASP:N	38:BD:195:ALA:O	2.30	0.41
1:CA:1019:C:O2'	1:CA:1020:U:H5'	2.21	0.41
54:BX:88:LYS:CD	54:BX:88:LYS:N	2.83	0.41
3:CC:60:ALA:O	3:CC:61:ALA:HB2	2.21	0.41
3:CC:59:ARG:HA	3:CC:63:ASN:O	2.21	0.41
35:BA:1441:G:H4'	35:BA:1627:G:O3'	2.21	0.41
1:AA:363:A:C6	12:AL:31:PRO:HD2	2.56	0.41
35:DA:38:A:C6	35:DA:39:C:C4	3.09	0.41
42:BH:20:ALA:HB1	42:BH:21:PRO:HD2	2.01	0.41
35:DA:1488:G:H2'	35:DA:1488:G:N3	2.36	0.41
35:BA:2687:U:C2'	35:BA:2688:U:H5'	2.50	0.41
1:AA:751:U:H2'	1:AA:752:G:H5'	2.02	0.41
1:AA:751:U:H2'	1:AA:752:G:O4'	2.21	0.41
41:BG:39:ILE:CD1	41:BG:155:MET:SD	3.09	0.41
1:CA:128:G:C2'	1:CA:129:U:H5'	2.50	0.41
35:BA:1272:A:C2	35:BA:1618:A:C5	3.09	0.41
41:BG:150:ASP:O	41:BG:151:ALA:CB	2.69	0.41
3:AC:37:GLN:O	3:AC:39:ILE:N	2.54	0.41
35:BA:1912:A:C2	35:BA:1919:A:C6	3.09	0.41
35:DA:1375:C:H2'	35:DA:1376:C:H6	1.86	0.41
26:B0:20:ARG:HB3	35:BA:2270:G:O3'	2.21	0.41
35:BA:1955:U:O2'	35:BA:1956:U:H5'	2.21	0.41
35:BA:945:A:C4	35:BA:2448:A:C2	3.09	0.41
2:AB:23:ARG:HG3	2:AB:23:ARG:HH11	1.86	0.41
35:BA:2253:G:C5	35:BA:2254:C:C4	3.08	0.41
1:CA:80:G:H3'	1:CA:81:U:H5'	2.03	0.41
8:AH:95:VAL:HA	8:AH:99:GLU:OE1	2.21	0.41
39:BE:71:GLY:O	39:BE:72:VAL:HB	2.20	0.41
35:BA:2517:C:C6	35:BA:2542:A:C2	3.09	0.41
1:AA:1011:G:H2'	1:AA:1012:U:C5'	2.51	0.41
35:DA:2228:G:H2'	35:DA:2229:C:H6	1.86	0.41
35:BA:1208:C:C4	35:BA:1209:G:N7	2.89	0.41
35:BA:1692:U:H2'	35:BA:1694:C:C5	2.55	0.41
56:DZ:82:ARG:NH1	56:DZ:83:PRO:O	2.54	0.41
41:DG:121:ASN:OD1	41:DG:123:ASN:OD1	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DT:7:ILE:C	50:DT:9:LEU:H	2.24	0.41
4:CD:53:ASP:HB3	4:CD:57:ARG:NH2	2.36	0.41
31:D5:27:PRO:O	31:D5:28:PRO:C	2.59	0.41
26:B0:82:ARG:HA	26:B0:83:PRO:HD2	1.89	0.41
8:CH:102:ARG:N	8:CH:102:ARG:HE	2.19	0.41
12:AL:126:LYS:HA	12:AL:126:LYS:HD2	1.78	0.41
50:DT:112:ARG:C	50:DT:112:ARG:HD3	2.42	0.41
50:DT:29:ARG:HD2	50:DT:29:ARG:HA	1.87	0.41
50:DT:51:ARG:O	50:DT:52:ILE:HG23	2.21	0.41
50:DT:52:ILE:CG1	50:DT:52:ILE:O	2.66	0.41
50:DT:64:ARG:HA	50:DT:72:VAL:O	2.21	0.41
50:DT:92:GLY:O	50:DT:94:ALA:N	2.54	0.41
10:CJ:49:VAL:HG11	14:CN:41:ARG:HB2	2.01	0.41
41:DG:12:TYR:HA	41:DG:16:ARG:HH11	1.81	0.41
41:DG:14:GLU:C	41:DG:17:PRO:HD2	2.41	0.41
38:BD:226:MET:HE1	38:BD:230:ASP:HB3	1.98	0.41
41:DG:128:ARG:C	41:DG:129:GLY:O	2.60	0.41
41:DG:66:GLN:NE2	41:DG:93:THR:O	2.53	0.41
41:DG:82:LEU:HD13	41:DG:87:PRO:HA	2.03	0.41
45:BO:53:LYS:O	45:BO:54:GLU:C	2.59	0.41
50:BT:35:LYS:HZ1	50:BT:41:ARG:HH21	1.67	0.41
16:AP:18:ARG:HD3	16:AP:35:LYS:CD	2.44	0.41
36:BB:74:U:C3'	36:BB:75:G:C5'	2.91	0.41
35:BA:2805:G:C2	35:BA:2807:G:C5	3.08	0.41
35:DA:1418:G:H1	35:DA:1579:A:C5'	2.30	0.41
51:BU:101:ARG:O	51:BU:102:GLU:C	2.59	0.41
52:BV:2:PHE:CB	52:BV:42:GLY:CA	2.95	0.41
28:B2:14:ARG:C	28:B2:16:LEU:N	2.74	0.41
35:BA:142:A:H1'	35:BA:1408:C:O4'	2.21	0.41
54:BX:47:PHE:O	54:BX:49:VAL:CG2	2.64	0.41
35:DA:2810:A:N6	35:DA:2891:G:H1'	2.36	0.41
35:DA:2892:A:H2'	35:DA:2893:G:O4'	2.21	0.41
27:B1:76:ARG:HE	27:B1:76:ARG:HA	1.85	0.41
2:AB:80:ILE:HD11	2:AB:215:LEU:CD1	2.51	0.41
41:BG:5:VAL:HB	41:BG:104:GLU:OE1	2.21	0.41
56:DZ:151:HIS:O	56:DZ:171:ILE:HG12	2.20	0.41
44:DN:9:VAL:CG1	44:DN:10:GLU:H	2.18	0.41
51:DU:91:ASP:O	51:DU:92:ARG:HG2	2.20	0.41
32:D6:51:GLU:OE1	32:D6:51:GLU:N	2.47	0.41
1:CA:502:G:C6	1:CA:544:G:N1	2.89	0.41
4:CD:102:ASP:HB3	4:CD:136:PRO:HB3	2.02	0.41

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

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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:AO:36:ILE:HG22	15:AO:37:ASN:N	2.36	0.41
35:DA:1112:G:O2'	35:DA:1113:U:H6	2.04	0.41
35:DA:1706:U:O2'	35:DA:1707:G:H5'	2.21	0.41
1:CA:348:G:C2'	1:CA:349:A:H5'	2.51	0.41
35:BA:1449:A:C6	35:BA:1450:G:H1'	2.56	0.41
1:AA:349:A:C2'	1:AA:350:G:H5'	2.50	0.41
36:DB:81:G:H4'	36:DB:81:G:OP1	2.21	0.41
2:AB:30:ARG:HG3	2:AB:31:TYR:CD2	2.55	0.41
10:AJ:85:LEU:O	10:AJ:86:MET:C	2.59	0.41
25:AY:45:TYR:HB3	25:AY:50:VAL:CG2	2.50	0.41
35:BA:638:G:H2'	35:BA:639:U:O4'	2.21	0.41
56:BZ:105:VAL:H	56:BZ:141:VAL:CG1	2.33	0.41
35:BA:987:G:H2'	35:BA:988:A:O4'	2.21	0.41
35:DA:1400:G:H2'	35:DA:1401:G:H8	1.86	0.41
9:AI:39:GLY:O	9:AI:41:VAL:N	2.54	0.41
7:CG:25:ALA:O	7:CG:28:ASN:HB2	2.21	0.41
35:BA:2485:G:C2	35:BA:2486:G:C8	3.09	0.41
1:AA:1154:G:O2'	1:AA:1155:G:H5'	2.21	0.41
1:AA:1153:C:C2'	1:AA:1154:G:O5'	2.69	0.41
7:AG:49:ILE:CG2	7:AG:49:ILE:O	2.67	0.41
1:AA:1164:G:C6	1:AA:1173:G:C6	3.08	0.41
1:AA:763:G:H2'	1:AA:764:C:H6	1.85	0.41
42:BH:79:VAL:O	42:BH:81:GLU:N	2.49	0.41
35:DA:736:C:H2'	35:DA:737:C:C6	2.51	0.41
1:AA:1267:C:C2'	1:AA:1267:C:O2	2.69	0.41
35:BA:271(E):U:C2	35:BA:271(F):C:C5	3.09	0.41
1:AA:1414:U:H2'	1:AA:1415:G:H8	1.86	0.41
1:AA:506:G:H2'	1:AA:507:C:H6	1.83	0.41
41:BG:128:ARG:O	41:BG:129:GLY:O	2.39	0.41
35:BA:827:U:C4	35:BA:2430:A:C6	3.08	0.41
3:AC:206:GLU:HB3	3:AC:207:VAL:H	1.59	0.41
35:BA:2183:C:O2'	35:BA:2184:G:H5'	2.21	0.41
35:DA:1662:C:O2'	35:DA:2687:U:OP1	2.39	0.41
26:B0:56:ASP:O	26:B0:58:THR:N	2.54	0.41
3:AC:188:LEU:CD2	3:AC:188:LEU:N	2.85	0.41
35:BA:2550:G:O2'	35:BA:2551:C:H5'	2.20	0.41
1:CA:1023:G:C2'	1:CA:1024:G:H5'	2.50	0.41
23:CW:38:A:N7	23:CW:39:A:C6	2.89	0.41
1:AA:837:G:O2'	1:AA:838:G:H5'	2.20	0.41
2:CB:23:ARG:HG3	2:CB:23:ARG:HH11	1.86	0.41
35:DA:2615:U:H2'	35:DA:2616:C:H6	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:830:G:N3	35:BA:2448:A:N6	2.68	0.41
53:BW:76:VAL:CG2	53:BW:103:ILE:HG22	2.51	0.41
1:AA:482:A:N3	1:AA:482:A:H2'	2.35	0.41
35:BA:1106:A:H2'	35:BA:1107:G:C8	2.55	0.41
32:B6:43:CYS:O	32:B6:44:ARG:O	2.38	0.41
1:CA:934:C:HO2'	1:CA:1344:C:H5	1.65	0.41
30:B4:21:VAL:C	30:B4:23:GLU:N	2.74	0.41
7:AG:155:ARG:HH11	7:AG:155:ARG:HG3	1.85	0.41
53:DW:88:ARG:HH11	53:DW:88:ARG:HG2	1.85	0.41
13:CM:100:GLY:C	13:CM:101:GLN:HG3	2.41	0.41
35:BA:900:A:N7	35:BA:901:A:N7	2.68	0.41
35:DA:483:A:H1'	55:DY:47:LYS:CG	2.25	0.40
1:CA:973:G:C8	1:CA:974:A:C8	3.09	0.40
35:BA:1794:U:H2'	35:BA:1795:C:C6	2.56	0.40
38:BD:213:ARG:O	38:BD:214:TRP:C	2.59	0.40
35:DA:1813:G:H2'	35:DA:1814:G:O4'	2.20	0.40
38:DD:24:ILE:O	38:DD:25:THR:C	2.60	0.40
38:DD:36:PRO:CB	38:DD:62:TYR:O	2.69	0.40
36:DB:41:U:O4	41:DG:71:THR:HA	2.21	0.40
41:DG:63:ILE:HD13	41:DG:141:PHE:CZ	2.56	0.40
41:DG:45:GLU:OE1	41:DG:45:GLU:C	2.59	0.40
34:B8:35:GLN:HB3	34:B8:36:LYS:H	1.67	0.40
35:BA:2287:A:N6	35:BA:2344:U:H3	2.19	0.40
46:BP:62:LEU:HD12	46:BP:62:LEU:H	1.80	0.40
35:BA:2724:C:OP1	39:BE:118:LYS:HE3	2.22	0.40
35:BA:2726:U:O2'	35:BA:2727:G:H5'	2.21	0.40
45:BO:104:ARG:NH2	50:BT:33:LYS:HD2	2.36	0.40
35:BA:2566:A:C6	45:BO:28:SER:HB2	2.56	0.40
45:BO:65:THR:HA	45:BO:82:ASN:HA	2.02	0.40
45:BO:88:ASN:HB3	45:BO:92:GLU:O	2.21	0.40
56:BZ:58:VAL:HG22	56:BZ:68:PRO:CB	2.50	0.40
35:BA:2787:C:H1'	39:BE:61:ARG:HD3	2.02	0.40
35:DA:1495:A:C2	35:DA:1496:A:C4	3.09	0.40
51:BU:101:ARG:C	51:BU:102:GLU:HG2	2.41	0.40
51:BU:92:ARG:CG	51:BU:95:LEU:H	2.22	0.40
1:AA:1232:U:H5'	9:AI:126:SER:OG	2.21	0.40
1:AA:981:U:H5'	14:AN:21:TYR:OH	2.22	0.40
28:B2:23:LYS:CA	54:BX:5:TYR:CE1	3.02	0.40
54:BX:77:LYS:HD3	54:BX:78:LYS:N	2.36	0.40
39:DE:4:ILE:HD12	39:DE:5:LEU:H	1.85	0.40
41:BG:131:TYR:O	41:BG:159:VAL:HG22	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DY:88:LYS:O	55:DY:90:LEU:HD23	2.20	0.40
34:B8:6:THR:HG22	34:B8:62:LEU:HB2	2.03	0.40
28:D2:13:ALA:O	28:D2:14:ARG:NH2	2.54	0.40
28:D2:40:SER:HB2	28:D2:41:ILE:CD1	2.45	0.40
54:DX:60:ARG:HG2	54:DX:73:ARG:N	2.36	0.40
56:DZ:28:MET:HB3	56:DZ:88:PHE:HB2	2.02	0.40
35:DA:2041:U:H2'	35:DA:2042:A:H8	1.87	0.40
44:DN:7:LYS:O	44:DN:8:GLN:C	2.58	0.40
51:DU:66:ASN:O	51:DU:70:ARG:HB2	2.21	0.40
51:DU:72:HIS:CE1	51:DU:107:ALA:HA	2.56	0.40
51:DU:94:ASN:C	51:DU:96:ALA:H	2.24	0.40
51:DU:61:TRP:CE2	51:DU:94:ASN:HB2	2.56	0.40
52:DV:14:VAL:HG11	52:DV:98:GLU:CG	2.49	0.40
52:DV:94:LEU:HA	52:DV:94:LEU:HD23	1.84	0.40
47:DQ:55:VAL:O	47:DQ:57:HIS:N	2.55	0.40
35:BA:1022:G:C6	35:BA:1140:C:C4	3.08	0.40
44:BN:70:LYS:HG2	44:BN:87:LEU:HD23	2.03	0.40
35:BA:260:G:H2'	35:BA:260:G:N3	2.36	0.40
35:BA:596:G:H2'	35:BA:597:U:O4'	2.21	0.40
27:D1:60:PHE:HE2	27:D1:91:LYS:HE3	1.87	0.40
35:BA:1260:G:H2'	35:BA:1261:C:H6	1.86	0.40
35:BA:2027:G:C6	35:BA:2028:U:C4	3.09	0.40
35:BA:2243:U:C2	35:BA:2244:U:C5	3.09	0.40
40:DF:119:ARG:NH1	40:DF:119:ARG:HG2	2.36	0.40
35:BA:870:A:C2	35:BA:871:U:H1'	2.57	0.40
35:BA:910:A:N9	47:BQ:13:GLN:OE1	2.54	0.40
48:DR:23:ASN:O	48:DR:24:GLN:C	2.59	0.40
48:DR:34:ILE:HG22	48:DR:35:THR:H	1.86	0.40
1:AA:1478:C:N3	1:AA:1479:C:N4	2.68	0.40
1:AA:1480:G:N2	1:AA:1481:U:H1'	2.36	0.40
20:AT:25:ARG:HH11	20:AT:25:ARG:CG	2.34	0.40
35:BA:1637:A:C6	35:BA:1638:C:N4	2.89	0.40
49:DS:51:ALA:HA	49:DS:56:LEU:CD1	2.51	0.40
2:AB:194:PRO:HB2	2:AB:195:ASP:H	1.71	0.40
6:CF:19:LEU:C	6:CF:21:LEU:N	2.73	0.40
6:CF:21:LEU:O	6:CF:22:GLU:C	2.59	0.40
15:CO:52:SER:O	15:CO:55:GLY:N	2.54	0.40
15:CO:85:LEU:HB2	15:CO:87:ILE:CD1	2.50	0.40
18:CR:29:PHE:H	18:CR:29:PHE:HD2	1.68	0.40
2:CB:178:ARG:NH1	2:CB:178:ARG:CG	2.84	0.40
35:DA:591:C:C2	35:DA:592:G:C8	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:AD:109:GLY:O	4:AD:161:ASN:HB3	2.21	0.40
4:AD:120:LEU:CD1	4:AD:120:LEU:N	2.73	0.40
4:AD:148:VAL:O	4:AD:148:VAL:HG12	2.22	0.40
4:AD:163:GLU:O	4:AD:166:LYS:N	2.38	0.40
19:AS:5:LEU:HD12	19:AS:10:PHE:H	1.86	0.40
55:DY:31:LEU:HA	55:DY:31:LEU:HD22	1.93	0.40
55:DY:28:LYS:HA	55:DY:38:ILE:HG22	2.02	0.40
12:AL:6:THR:HG22	12:AL:9:GLN:NE2	2.31	0.40
43:DI:96:ASP:O	43:DI:100:ALA:N	2.54	0.40
47:DQ:12:GLN:HE21	47:DQ:73:PRO:HD3	1.86	0.40
6:AF:21:LEU:C	6:AF:23:LYS:N	2.74	0.40
1:CA:1517:G:C2'	1:CA:1518:A:O5'	2.69	0.40
1:CA:1516:G:N3	1:CA:1518:A:OP2	2.54	0.40
35:DA:1747:G:H2'	35:DA:1747(A):G:H8	1.86	0.40
25:CY:135:GLU:O	25:CY:136:ALA:C	2.58	0.40
21:CU:6:ARG:O	21:CU:12:LYS:HD3	2.21	0.40
1:CA:989:C:N4	1:CA:1217:C:H42	2.14	0.40
25:AY:133:ARG:NH2	35:BA:1942:C:O4'	2.53	0.40
1:AA:552:U:H4'	12:AL:87:GLY:N	2.35	0.40
12:AL:33:ARG:HB3	12:AL:85:ILE:CG2	2.51	0.40
33:B7:29:LYS:O	33:B7:33:ARG:N	2.45	0.40
35:BA:769:G:H2'	35:BA:770:G:H8	1.86	0.40
35:DA:2248:C:H2'	35:DA:2249:U:C5'	2.50	0.40
8:CH:120:THR:HG23	8:CH:123:GLU:CD	2.41	0.40
55:BY:9:LYS:HG3	55:BY:10:GLY:N	2.36	0.40
11:CK:67:ASP:OD1	11:CK:71:LYS:HE3	2.21	0.40
20:AT:56:MET:O	20:AT:60:GLU:CB	2.69	0.40
20:AT:78:ALA:O	20:AT:81:LYS:N	2.54	0.40
43:DI:17:GLN:CG	43:DI:18:VAL:H	2.24	0.40
1:AA:528:C:C5	1:AA:529:G:N7	2.90	0.40
8:AH:12:ARG:O	8:AH:15:ASN:N	2.49	0.40
8:AH:25:ASP:OD2	8:AH:60:ARG:HD3	2.21	0.40
35:BA:2600:A:HO2'	35:BA:2601:C:H5'	1.79	0.40
9:AI:27:THR:C	9:AI:28:VAL:HG23	2.42	0.40
8:CH:86:ILE:HG21	8:CH:133:LEU:HD23	2.03	0.40
18:CR:56:THR:C	18:CR:58:LEU:HD12	2.41	0.40
42:BH:70:THR:HB	42:BH:71:LEU:H	1.64	0.40
42:BH:76:VAL:O	42:BH:77:LYS:C	2.59	0.40
35:DA:651:G:HO2'	35:DA:652:C:P	2.44	0.40
35:DA:2011:U:C2'	35:DA:2012:G:H5'	2.51	0.40
56:BZ:109:ALA:O	56:BZ:110:GLY:C	2.59	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:BF:171:PRO:C	40:BF:173:VAL:H	2.24	0.40
31:B5:11:THR:CB	35:BA:1263:U:O3'	2.68	0.40
1:CA:1413:A:C6	1:CA:1488:G:N1	2.89	0.40
1:CA:35:G:C4	1:CA:550:G:N2	2.89	0.40
35:DA:1925:C:C2'	35:DA:1926:U:C5'	2.97	0.40
35:BA:208:C:O2'	35:BA:209:C:H5'	2.21	0.40
1:CA:1465:C:O2'	1:CA:1466:C:H5'	2.20	0.40
1:CA:327:A:C4	1:CA:329:A:C8	3.09	0.40
1:CA:60:A:H2	1:CA:107:G:N3	2.19	0.40
1:AA:393:A:P	16:AP:12:LYS:HD3	2.60	0.40
32:D6:22:ALA:HB2	32:D6:39:TYR:CE2	2.56	0.40
43:DI:54:GLN:HA	43:DI:57:ARG:CB	2.51	0.40
35:DA:1982:C:H2'	35:DA:1983:C:H6	1.85	0.40
1:AA:1253:G:OP1	10:AJ:44:VAL:HG11	2.21	0.40
35:BA:1847:A:C2'	35:BA:1847:A:N3	2.83	0.40
35:DA:1615:C:C5	35:DA:1617:C:C6	3.10	0.40
39:DE:133:LYS:CA	39:DE:134:ILE:HD13	2.51	0.40
35:BA:915:C:H2'	35:BA:916:G:C8	2.56	0.40
9:AI:8:GLY:HA3	9:AI:15:ALA:HB3	2.03	0.40
35:DA:1718:G:O6	35:DA:1744:C:N4	2.53	0.40
35:BA:1721:G:C6	35:BA:1739:U:H5'	2.56	0.40
35:DA:1449:A:H5'	35:DA:1450:G:OP2	2.21	0.40
36:DB:90:A:N7	36:DB:91:C:H1'	2.35	0.40
22:CV:29:G:H2'	22:CV:30:A:C8	2.57	0.40
1:CA:854:G:OP2	1:CA:871:U:C6	2.74	0.40
1:CA:416:G:C6	1:CA:417:C:C4	3.09	0.40
4:CD:192:GLU:C	4:CD:194:LEU:H	2.24	0.40
7:AG:18:TYR:HD1	7:AG:18:TYR:H	1.68	0.40
7:AG:27:ILE:HD11	7:AG:43:PHE:CE2	2.56	0.40
10:CJ:32:ALA:N	10:CJ:78:ASN:HD21	2.18	0.40
35:BA:1889:A:H2'	35:BA:1890:A:O4'	2.21	0.40
1:AA:1293:G:O2'	1:AA:1294:G:O5'	2.39	0.40
45:DO:4:PRO:O	45:DO:5:GLN:HB2	2.20	0.40
1:AA:631:G:H2'	1:AA:632:A:C8	2.56	0.40
10:CJ:22:LYS:HZ1	10:CJ:23:ILE:HG12	1.86	0.40
35:BA:1192:G:H2'	35:BA:1193:G:H5'	2.00	0.40
4:AD:12:CYS:HA	4:AD:19:LEU:H	1.86	0.40
1:CA:1154:G:H2'	1:CA:1155:G:C8	2.53	0.40
35:BA:2861:G:C2'	35:BA:2862:G:H5'	2.51	0.40
35:BA:1763:G:C4'	35:BA:1763:G:OP1	2.69	0.40
20:AT:34:LYS:O	20:AT:35:THR:C	2.59	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:BU:29:SER:O	51:BU:30:LYS:HG2	2.21	0.40
35:BA:1441:G:H2'	35:BA:1442:G:H8	1.84	0.40
37:DC:44:HIS:O	37:DC:210:ARG:HA	2.22	0.40
35:DA:408:G:O2'	35:DA:409:C:H5'	2.21	0.40
6:AF:100:ASN:CB	18:AR:28:GLU:HA	2.50	0.40
35:BA:1916:A:H5'	35:BA:1917:U:OP2	2.21	0.40
35:DA:2560:C:H2'	35:DA:2561:A:H5'	2.02	0.40
7:CG:130:GLY:C	7:CG:132:GLY:H	2.24	0.40
17:AQ:22:LEU:HD12	17:AQ:23:VAL:H	1.86	0.40
46:DP:138:LEU:O	46:DP:138:LEU:HD22	2.20	0.40
45:BO:10:VAL:HB	45:BO:12:ASP:OD2	2.21	0.40
35:DA:334:C:O2'	35:DA:335:C:P	2.78	0.40
35:BA:479:A:N6	35:BA:503:A:H61	2.20	0.40
35:BA:2497:A:OP2	35:BA:2497:A:C8	2.74	0.40
43:BI:1:MET:HB2	43:BI:21:VAL:O	2.21	0.40
35:BA:2583:G:H3'	35:BA:2584:U:O2	2.21	0.40
1:CA:189(K):U:H2'	1:CA:189(L):G:H8	1.86	0.40
35:DA:2603:G:H4'	35:DA:2603:G:OP2	2.21	0.40
35:DA:937:U:H2'	35:DA:938:G:O4'	2.21	0.40
35:DA:1511:C:H2'	35:DA:1512:U:C6	2.56	0.40
40:BF:136:THR:O	40:BF:137:LYS:C	2.60	0.40
1:CA:57:G:C6	1:CA:58:C:N3	2.89	0.40
15:AO:48:LYS:HA	15:AO:48:LYS:HD3	1.78	0.40
35:BA:1437:C:O2	35:BA:1437:C:H2'	2.21	0.40
1:AA:1336:C:O4'	1:AA:1337:G:N2	2.55	0.40
37:BC:146:GLY:O	37:BC:148:ASN:N	2.54	0.40
35:DA:1665:A:C2'	35:DA:1666:G:H5'	2.51	0.40
35:DA:2683:C:OP1	50:DT:55:ASN:ND2	2.54	0.40
45:DO:43:VAL:HG12	45:DO:43:VAL:O	2.20	0.40
45:DO:53:LYS:O	45:DO:54:GLU:C	2.59	0.40
1:AA:805:C:O2'	1:AA:806:C:H5'	2.22	0.40
35:BA:1778:U:H5	35:BA:1784:A:C2	2.38	0.40
35:BA:1778:U:H2'	35:BA:1784:A:N6	2.36	0.40
38:BD:159:ALA:HB1	38:BD:198:ASN:O	2.21	0.40
38:BD:19:ALA:O	38:BD:21:PHE:CD1	2.73	0.40
1:CA:922:G:H4'	5:CE:20:GLN:HA	2.03	0.40
35:DA:2313:C:C4'	41:DG:40:ASN:ND2	2.84	0.40
41:DG:37:VAL:HB	41:DG:94:LEU:CB	2.32	0.40
41:DG:43:LEU:N	41:DG:43:LEU:HD13	2.29	0.40
36:DB:42:C:N1	41:DG:69:ALA:HB2	2.36	0.40
35:BA:1678:G:C4	35:BA:1679:U:C5	3.10	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:2684:U:OP2	50:BT:53:ARG:NH2	2.50	0.40
39:BE:10:GLY:HA3	50:BT:8:LYS:HZ2	1.86	0.40
45:BO:71:ARG:NE	45:BO:105:GLU:OE2	2.50	0.40
45:BO:2:ILE:O	45:BO:33:ALA:N	2.54	0.40
45:BO:37:ASP:HB2	45:BO:62:VAL:CG2	2.50	0.40
50:BT:118:ARG:O	50:BT:121:ILE:N	2.49	0.40
50:BT:45:PHE:HE2	50:BT:63:VAL:HG23	1.86	0.40
1:AA:607:A:C4	1:AA:608:A:C8	3.09	0.40
35:BA:902:C:O2'	35:BA:903:C:H5'	2.21	0.40
35:BA:2808:U:C2'	35:BA:2809:A:C5'	2.96	0.40
1:AA:1190:G:OP2	3:AC:5:ILE:HG23	2.20	0.40
35:DA:1495:A:C2	35:DA:1496:A:C2	3.09	0.40
44:BN:39:ARG:HG3	44:BN:39:ARG:NH1	2.36	0.40
35:BA:534:U:H4'	51:BU:46:ALA:H	1.87	0.40
51:BU:57:PHE:O	51:BU:58:ARG:C	2.60	0.40
52:BV:18:LEU:HD13	52:BV:18:LEU:N	2.36	0.40
52:BV:33:VAL:HA	52:BV:62:LEU:O	2.22	0.40
42:DH:159:GLU:O	42:DH:160:LYS:CB	2.69	0.40
42:DH:85:LYS:HE3	42:DH:141:VAL:O	2.21	0.40
28:B2:50:ILE:HA	28:B2:54:LYS:HD3	2.03	0.40
54:BX:77:LYS:HE3	54:BX:77:LYS:CA	2.49	0.40
39:DE:47:VAL:HG12	39:DE:49:LEU:CD1	2.51	0.40
27:B1:51:VAL:N	27:B1:60:PHE:O	2.48	0.40
35:BA:379:G:N2	35:BA:396:G:C4	2.90	0.40
2:AB:11:LEU:HD11	2:AB:217:ARG:HH22	1.86	0.40
41:BG:106:LEU:C	41:BG:108:ASN:H	2.24	0.40
41:BG:91:ARG:CD	41:BG:92:VAL:N	2.85	0.40
35:BA:253:C:H2'	35:BA:254:G:H5'	2.03	0.40
42:BH:99:VAL:O	42:BH:100:GLY:C	2.59	0.40
55:BY:47:LYS:N	55:BY:47:LYS:HD2	2.37	0.40
35:DA:2476:A:H2'	35:DA:2477:C:C5'	2.30	0.40
47:DQ:134:ARG:C	47:DQ:136:ALA:N	2.74	0.40
35:DA:998:C:P	51:DU:93:LYS:CE	3.08	0.40
1:CA:1190:G:H5''	3:CC:3:ASN:HD21	1.86	0.40
1:CA:978:A:C4	1:CA:1319:A:C2	3.10	0.40
19:CS:16:LEU:H	19:CS:16:LEU:HD12	1.83	0.40
35:BA:1882:C:H5'	35:BA:1883:G:OP2	2.21	0.40
35:BA:2377:A:H2'	35:BA:2378:A:C8	2.55	0.40
49:BS:28:VAL:HG21	49:BS:97:ARG:NH2	2.37	0.40
49:BS:28:VAL:HA	49:BS:37:ALA:HA	2.04	0.40
49:BS:90:GLY:HA2	49:BS:92:TYR:CG	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:126:ILE:CG2	4:CD:127:THR:N	2.81	0.40
43:DI:88:ILE:HG13	43:DI:123:LEU:N	2.37	0.40
47:BQ:35:VAL:CG2	47:BQ:100:GLY:O	2.69	0.40
40:BF:25:PRO:HB3	40:BF:119:ARG:CD	2.52	0.40
40:BF:43:LYS:HG3	40:BF:44:ARG:N	2.36	0.40
46:DP:71:VAL:HG22	46:DP:72:PRO:CG	2.50	0.40
25:AY:36:ALA:HA	25:AY:39:LEU:HD23	2.03	0.40
27:D1:78:LYS:O	27:D1:79:GLY:C	2.59	0.40
35:BA:1223:G:N2	35:BA:1227:G:C4	2.89	0.40
40:BF:74:ARG:H	40:BF:74:ARG:HD2	1.86	0.40
46:BP:27:HIS:C	46:BP:27:HIS:CD2	2.95	0.40
47:BQ:70:PRO:O	47:BQ:71:ASP:HB3	2.21	0.40
48:DR:116:LEU:CD2	48:DR:117:VAL:HG12	2.51	0.40
48:DR:20:LEU:O	48:DR:21:TYR:C	2.59	0.40
48:DR:87:TYR:O	48:DR:88:ARG:HB3	2.21	0.40
48:BR:55:ALA:HB2	48:BR:79:LEU:CD1	2.50	0.40
50:BT:100:TYR:C	50:BT:102:ILE:H	2.23	0.40
50:BT:100:TYR:O	50:BT:101:PHE:C	2.60	0.40
2:AB:164:VAL:O	2:AB:186:ALA:CB	2.69	0.40
2:AB:164:VAL:CG1	2:AB:165:VAL:N	2.85	0.40
18:CR:22:VAL:O	18:CR:22:VAL:HG12	2.21	0.40
2:CB:70:PHE:CD1	2:CB:163:PHE:HB3	2.56	0.40
35:DA:811:U:OP2	46:DP:24:GLY:HA2	2.20	0.40
52:DV:83:ARG:O	52:DV:84:LYS:HD2	2.21	0.40
33:D7:11:LYS:HG3	33:D7:12:ARG:N	2.35	0.40
1:AA:402:G:C5	1:AA:403:C:C5	3.09	0.40
1:AA:402:G:C6	1:AA:403:C:C5	3.10	0.40
4:AD:25:ARG:C	4:AD:27:TYR:N	2.73	0.40
46:DP:146:VAL:HG13	46:DP:147:LEU:N	2.37	0.40
35:DA:99:U:H1'	35:DA:102:G:C5	2.56	0.40
35:DA:109:G:C4	35:DA:110:G:C8	3.09	0.40
4:AD:58:LEU:CD1	4:AD:62:GLN:HG3	2.51	0.40
6:AF:80:ARG:HG3	6:AF:88:VAL:HB	2.01	0.40
18:AR:32:ARG:NH1	18:AR:65:ILE:HG21	2.36	0.40
1:CA:1406:U:C5	1:CA:1407:C:C5	3.09	0.40
53:DW:106:ILE:HG13	53:DW:106:ILE:O	2.19	0.40
35:DA:2035:G:H4'	35:DA:2036:C:OP2	2.22	0.40
35:DA:569:U:H2'	35:DA:570:G:O4'	2.21	0.40
16:AP:60:LEU:HG	16:AP:60:LEU:H	1.59	0.40
1:AA:1375:A:H4'	7:AG:29:LYS:NZ	2.37	0.40
43:BI:5:LEU:C	43:BI:6:LEU:HG	2.41	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1226:C:C5'	19:CS:80:TYR:HE2	2.33	0.40
1:AA:376:G:C2	1:AA:377:G:C5	3.09	0.40
16:AP:51:VAL:HG12	16:AP:52:ASP:N	2.35	0.40
25:AY:131:ASN:C	25:AY:133:ARG:N	2.73	0.40
25:AY:133:ARG:HG3	25:AY:165:THR:OG1	2.21	0.40
42:BH:26:VAL:C	42:BH:32:GLU:HG3	2.41	0.40
7:CG:74:GLU:CG	7:CG:75:VAL:N	2.84	0.40
35:BA:1429:G:H2'	35:BA:1430:C:H6	1.86	0.40
35:BA:1608:A:C5	35:BA:1611:C:C4	3.09	0.40
35:DA:1411:C:O2'	35:DA:1412:A:P	2.79	0.40
12:AL:39:VAL:HG12	12:AL:40:VAL:N	2.36	0.40
8:CH:129:VAL:CG2	8:CH:130:GLY:N	2.82	0.40
8:CH:83:ILE:CD1	8:CH:137:VAL:HG22	2.39	0.40
35:BA:103:A:H2'	35:BA:104:U:H6	1.86	0.40
1:CA:1074:G:O4'	2:CB:104:ASN:HB2	2.21	0.40
4:CD:145:GLU:C	4:CD:146:ILE:HD13	2.42	0.40
35:BA:926:A:C8	35:BA:926:A:H5'	2.54	0.40
1:AA:259:G:H2'	1:AA:260:G:O4'	2.21	0.40
5:AE:35:GLY:HA3	5:AE:112:LEU:HB3	2.03	0.40
9:CI:107:ARG:C	9:CI:108:VAL:HG22	2.41	0.40
8:AH:25:ASP:OD1	8:AH:25:ASP:N	2.54	0.40
18:AR:56:THR:C	18:AR:58:LEU:HD12	2.40	0.40
9:AI:27:THR:HG23	9:AI:31:GLN:O	2.20	0.40
9:AI:95:LYS:HZ3	9:AI:96:LEU:CB	2.30	0.40
29:B3:51:ALA:C	29:B3:53:LEU:H	2.24	0.40
29:B3:9:VAL:HG22	29:B3:53:LEU:O	2.21	0.40
1:CA:527:G:H2'	1:CA:528:C:C5'	2.51	0.40
1:CA:523:A:H61	12:CL:53:ARG:NH2	2.19	0.40
35:BA:1986:A:H2'	35:BA:1987:G:H5''	2.03	0.40
35:DA:2011:U:O2'	35:DA:2012:G:H5'	2.21	0.40
46:BP:123:LEU:O	46:BP:124:LYS:C	2.60	0.40
40:BF:153:SER:O	40:BF:190:GLU:HB2	2.20	0.40
28:D2:58:ALA:O	28:D2:60:LEU:N	2.54	0.40
35:DA:1114:G:C3'	35:DA:1115:G:C5'	2.99	0.40
2:AB:105:PHE:O	2:AB:107:THR:N	2.55	0.40
17:CQ:59:ILE:HA	17:CQ:59:ILE:HD13	1.85	0.40
1:CA:1501:C:OP1	1:CA:1508:G:H4'	2.21	0.40
3:CC:108:ASN:HB3	3:CC:111:LEU:HB2	2.03	0.40
37:DC:59:ARG:O	37:DC:62:VAL:HG22	2.21	0.40
5:CE:90:VAL:O	5:CE:91:LEU:HD12	2.21	0.40
25:CY:118:VAL:O	25:CY:119:ARG:C	2.59	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:1948:G:O2'	35:DA:1949:G:H5'	2.21	0.40
19:AS:42:PRO:C	19:AS:44:MET:N	2.75	0.40
1:CA:1471:G:O2'	1:CA:1472:U:H5'	2.21	0.40
1:AA:666:G:C4	1:AA:741:G:N1	2.89	0.40
15:AO:30:ALA:HA	15:AO:85:LEU:HD11	2.03	0.40
1:CA:763:G:C6	1:CA:764:C:C4	3.09	0.40
41:DG:4:ASP:CB	41:DG:8:LYS:HD3	2.51	0.40
35:DA:1469:A:C2'	35:DA:1470:G:H5'	2.52	0.40
1:AA:137:C:H2'	1:AA:138:G:H8	1.86	0.40
45:BO:13:ASN:ND2	45:BO:97:ARG:N	2.69	0.40
35:DA:1034:G:C6	35:DA:1122:G:C4	3.09	0.40
35:BA:976:C:H42	35:BA:988:A:H2	1.69	0.40
23:CW:56:U:O2'	23:CW:57:C:C5	2.74	0.40
25:CY:75:ALA:O	25:CY:78:ALA:HB3	2.21	0.40
9:AI:49:PRO:HG3	9:AI:78:LYS:HG2	2.03	0.40
1:CA:145:G:C2	1:CA:178:C:N3	2.89	0.40
35:BA:2235:G:H2'	35:BA:2236:C:C6	2.56	0.40
35:DA:1889:A:H2'	35:DA:1890:A:O4'	2.21	0.40
35:DA:1109:C:N4	35:DA:1110:G:C2	2.90	0.40
1:AA:54:C:N4	1:AA:352:C:H2'	2.32	0.40
1:AA:885:G:H2'	1:AA:886:G:C8	2.55	0.40
11:CK:125:PHE:H	11:CK:125:PHE:HD1	1.68	0.40
35:BA:2886:G:H2'	35:BA:2887:U:C6	2.56	0.40
35:BA:271(J):C:C3'	35:BA:271(K):U:C5'	2.98	0.40
35:DA:2641:G:OP1	44:DN:75:TYR:CG	2.74	0.40
35:BA:817:C:O2'	35:BA:839:U:OP1	2.40	0.40
35:BA:1375:C:H2'	35:BA:1376:C:H6	1.86	0.40
35:BA:13:A:N6	35:BA:525:U:C5	2.89	0.40
35:DA:2454:G:H2'	35:DA:2455:G:H8	1.86	0.40
35:DA:1623:G:H2'	35:DA:1624:G:C8	2.53	0.40
35:BA:2548:G:C6	35:BA:2561:A:N1	2.89	0.40
34:D8:11:LYS:CG	34:D8:11:LYS:O	2.69	0.40
35:DA:1376:C:O2'	35:DA:1377:G:H5'	2.20	0.40
36:DB:87:G:C2'	36:DB:88:C:H5''	2.50	0.40
35:DA:2658:C:O2'	35:DA:2659:G:H5'	2.20	0.40
55:BY:55:TYR:O	55:BY:56:PRO:O	2.40	0.40
11:AK:15:ALA:HB1	11:AK:78:GLN:HG2	2.03	0.40
35:BA:1560:G:H2'	35:BA:1561:G:C8	2.56	0.40
39:BE:72:VAL:O	39:BE:73:GLU:C	2.59	0.40
1:AA:699:C:H2'	1:AA:700:G:H8	1.85	0.40
12:AL:78:GLN:O	12:AL:80:HIS:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:AL:19:ARG:HD2	12:AL:19:ARG:H	1.87	0.40
1:AA:1262:C:C2	1:AA:1263:C:C5	3.09	0.40
35:DA:1992:G:O2'	35:DA:1993:U:O5'	2.39	0.40
45:DO:9:GLU:O	45:DO:83:ALA:HB1	2.21	0.40
50:DT:109:GLU:C	50:DT:112:ARG:HG3	2.41	0.40
50:DT:32:TYR:HD2	50:DT:81:PRO:HB2	1.86	0.40
35:BA:1814:G:H3'	35:BA:1815:A:C8	2.55	0.40
35:BA:1819:A:H5''	38:BD:158:ALA:HB3	2.03	0.40
38:BD:178:PRO:C	38:BD:180:GLY:N	2.74	0.40
38:BD:20:ASP:OD1	38:BD:21:PHE:N	2.55	0.40
38:BD:211:ARG:O	38:BD:213:ARG:N	2.54	0.40
38:BD:92:ILE:O	38:BD:92:ILE:HD12	2.22	0.40
1:CA:1396:A:H2	5:CE:19:MET:HB2	1.87	0.40
41:DG:160:VAL:O	41:DG:161:THR:OG1	2.34	0.40
38:BD:14:ARG:NH1	38:BD:14:ARG:CG	2.82	0.40
35:BA:2415:G:H4'	46:BP:67:MET:N	2.35	0.40
45:BO:86:ILE:H	45:BO:86:ILE:HD12	1.79	0.40
50:BT:29:ARG:HG2	50:BT:86:ILE:N	2.36	0.40
56:BZ:128:VAL:CG2	56:BZ:132:ASN:HB2	2.49	0.40
56:BZ:157:LEU:HD22	56:BZ:161:VAL:HB	2.03	0.40
39:BE:52:LEU:O	39:BE:53:PRO:O	2.40	0.40
39:BE:50:GLY:HA3	39:BE:74:PRO:HG3	2.02	0.40
35:DA:1496:A:H1'	35:DA:1578:U:H1'	2.03	0.40
51:BU:91:ASP:OD2	51:BU:96:ALA:CB	2.70	0.40
52:BV:15:GLU:CB	52:BV:16:PRO:HD2	2.41	0.40
42:DH:162:ILE:HD12	42:DH:163:TYR:N	2.35	0.40
42:DH:87:LEU:HA	42:DH:164:TYR:O	2.22	0.40
3:AC:24:ALA:HB3	3:AC:29:TYR:CD1	2.36	0.40
14:AN:29:ARG:HD2	14:AN:29:ARG:HA	1.93	0.40
35:BA:94(A):G:H2'	35:BA:95:G:O4'	2.21	0.40
39:DE:52:LEU:HD23	39:DE:75:VAL:HG22	1.95	0.40
41:BG:142:PRO:O	41:BG:144:ILE:N	2.54	0.40
36:BB:45:A:C1'	41:BG:95:ARG:NH2	2.83	0.40
55:DY:87:LYS:O	55:DY:88:LYS:HB2	2.21	0.40
55:DY:87:LYS:HG2	55:DY:88:LYS:N	2.35	0.40
28:D2:48:HIS:CD2	35:DA:75:G:O2'	2.74	0.40
35:DA:58:G:H1	35:DA:69:C:N4	2.19	0.40
54:DX:77:LYS:HD3	54:DX:78:LYS:H	1.86	0.40
56:DZ:69:THR:O	56:DZ:70:LEU:HG	2.22	0.40
56:DZ:71:VAL:HG12	56:DZ:86:VAL:CG1	2.52	0.40
35:DA:997:G:OP1	51:DU:93:LYS:HE3	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1189:C:C5'	3:CC:5:ILE:HG21	2.25	0.40
19:CS:5:LEU:H	19:CS:6:LYS:NZ	2.19	0.40
35:BA:1142(A):A:C5	35:BA:1144:G:N7	2.89	0.40
44:BN:62:VAL:HG22	44:BN:66:LYS:CB	2.51	0.40
44:BN:85:ILE:HA	44:BN:85:ILE:HD13	1.90	0.40
44:BN:91:LEU:O	44:BN:95:PRO:HD3	2.22	0.40
14:CN:3:ARG:CB	14:CN:3:ARG:HH11	2.35	0.40
40:BF:119:ARG:NH1	40:BF:119:ARG:HG2	2.36	0.40
40:BF:32:LEU:C	40:BF:32:LEU:CD2	2.84	0.40
3:AC:9:GLY:HA2	14:AN:49:HIS:O	2.21	0.40
35:BA:2578:G:N2	35:BA:2579:C:C2	2.90	0.40
35:DA:1019:U:O2'	35:DA:1021:A:C2	2.72	0.40
44:DN:66:LYS:HE3	44:DN:66:LYS:CA	2.51	0.40
35:BA:809:G:C4'	35:BA:1254:A:H1'	2.51	0.40
35:BA:2071:A:H2'	35:BA:2072:G:H8	1.87	0.40
46:BP:35:HIS:HD2	46:BP:35:HIS:O	2.04	0.40
51:BU:8:VAL:O	51:BU:10:ARG:N	2.55	0.40
47:BQ:74:TYR:O	47:BQ:89:ASN:N	2.48	0.40
1:AA:1438:G:C6	1:AA:1464:G:N1	2.90	0.40
1:AA:321:A:O2'	1:AA:322:C:H5'	2.20	0.40
20:AT:75:ASN:O	20:AT:76:ALA:C	2.58	0.40
20:AT:73:HIS:O	20:AT:76:ALA:CB	2.69	0.40
20:AT:37:SER:HA	20:AT:84:LEU:HD21	2.03	0.40
48:BR:18:LEU:CD1	48:BR:19:ALA:N	2.78	0.40
49:DS:94:TYR:O	49:DS:95:HIS:ND1	2.49	0.40
2:AB:187:LEU:HD23	2:AB:202:PRO:O	2.21	0.40
27:D1:23:LYS:HZ2	27:D1:37:ILE:HD11	1.86	0.40
44:DN:17:ASP:CG	44:DN:56:ASN:HB3	2.42	0.40
6:CF:62:TRP:HB2	18:CR:35:ARG:NH1	2.31	0.40
15:CO:56:LEU:O	15:CO:59:MET:N	2.54	0.40
2:CB:45:GLN:O	2:CB:48:MET:N	2.43	0.40
35:DA:1254:A:H5'	35:DA:1255:U:C5'	2.51	0.40
52:DV:71:LEU:CD1	52:DV:72:VAL:H	2.19	0.40
4:AD:100:ARG:NH1	4:AD:100:ARG:HG2	2.36	0.40
4:AD:104:VAL:HG21	4:AD:140:VAL:CG2	2.50	0.40
19:AS:36:ARG:HB2	19:AS:72:GLY:HA2	2.03	0.40
55:DY:15:VAL:HG12	55:DY:16:ALA:N	2.30	0.40
4:AD:15:GLU:C	4:AD:17:VAL:N	2.75	0.40
4:AD:8:VAL:HG12	4:AD:9:CYS:N	2.36	0.40
43:DI:100:ALA:O	43:DI:104:GLN:CD	2.59	0.40
18:AR:29:PHE:O	18:AR:29:PHE:CD2	2.75	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:779:C:HO2'	1:CA:780:A:H5'	1.84	0.40
25:CY:121:TYR:O	25:CY:122:ALA:C	2.59	0.40
25:CY:6:LEU:O	25:CY:9:GLU:HB2	2.20	0.40
42:DH:26:VAL:C	42:DH:32:GLU:HG3	2.40	0.40
1:CA:191:G:O2'	1:CA:192:U:H5'	2.21	0.40
20:CT:63:ILE:O	20:CT:64:ASP:C	2.59	0.40
25:AY:62:ASP:HB2	25:AY:63:PRO:CD	2.52	0.40
37:BC:36:LYS:HD3	37:BC:36:LYS:HA	1.94	0.40
35:BA:2618:G:O2'	35:BA:2619:C:H5'	2.21	0.40
25:AY:147:LEU:HD22	25:AY:149:LEU:HD21	2.04	0.40
25:AY:140:LEU:CD1	25:AY:157:ALA:HB1	2.44	0.40
11:AK:66:LEU:C	11:AK:68:ALA:N	2.74	0.40
11:AK:71:LYS:O	11:AK:73:MET:N	2.54	0.40
11:AK:72:ALA:HB1	11:AK:77:MET:CE	2.52	0.40
35:BA:2262:U:C3'	35:BA:2263:C:H5''	2.51	0.40
35:BA:829:A:N7	35:BA:2247:A:O2'	2.51	0.40
1:AA:191:G:O2'	1:AA:192:U:H5'	2.21	0.40
20:AT:57:ARG:O	20:AT:60:GLU:HB3	2.21	0.40
1:CA:1105:A:C2	1:CA:1106:G:N7	2.89	0.40
12:AL:47:LYS:HD3	12:AL:48:PRO:HD3	2.02	0.40
46:DP:88:LEU:C	46:DP:90:ARG:N	2.73	0.40
12:AL:76:ASN:C	12:AL:77:LEU:HD23	2.42	0.40
56:DZ:109:ALA:C	56:DZ:110:GLY:O	2.54	0.40
35:BA:1039:G:N1	35:BA:1117:G:C2	2.89	0.40
46:DP:105:LEU:O	46:DP:107:LYS:HD2	2.20	0.40
46:DP:96:THR:HG22	46:DP:126:VAL:H	1.86	0.40
38:BD:185:VAL:HG12	38:BD:189:CYS:SG	2.61	0.40
38:BD:73:VAL:HG13	38:BD:119:ALA:O	2.22	0.40
53:DW:13:SER:HA	53:DW:14:PRO:HD3	1.77	0.40
53:DW:14:PRO:O	53:DW:16:LYS:N	2.55	0.40
16:CP:40:ASP:H	16:CP:48:TRP:HB2	1.87	0.40
1:CA:376:G:H5''	16:CP:5:ARG:CG	2.51	0.40
7:CG:65:ALA:HA	7:CG:128:ALA:HA	2.03	0.40
35:BA:1937:A:O2'	35:BA:1938:A:C5'	2.65	0.40
35:BA:2590:A:O2'	35:BA:2591:C:C5'	2.65	0.40
35:BA:2011:U:O2'	35:BA:2012:G:H5'	2.21	0.40
35:BA:1268:A:C2	35:BA:2013:A:C4	3.10	0.40
35:DA:708:C:O2	35:DA:708:C:H2'	2.20	0.40
35:DA:768:G:H2'	35:DA:769:G:C8	2.53	0.40
35:DA:2219:G:H2'	35:DA:2220:G:H5'	2.02	0.40
7:AG:63:LYS:HA	7:AG:63:LYS:HD2	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:709:U:C2	35:BA:723:G:N2	2.89	0.40
7:AG:65:ALA:HA	7:AG:128:ALA:HA	2.04	0.40
35:DA:374:A:H2'	35:DA:375:C:C5'	2.51	0.40
35:BA:374:A:C2	35:BA:375:C:H1'	2.56	0.40
35:DA:747:U:O2	35:DA:2014:A:H1'	2.20	0.40
5:AE:76:ILE:HG23	5:AE:77:PRO:CD	2.52	0.40
5:AE:89:ILE:CD1	5:AE:91:LEU:HD11	2.51	0.40
19:AS:50:ALA:HA	19:AS:58:VAL:O	2.22	0.40
1:CA:665:A:H2'	1:CA:732:C:O2	2.22	0.40
1:CA:1418:A:N3	35:DA:1959:G:H1'	2.36	0.40
35:BA:462:C:O2'	35:BA:463:G:H5'	2.22	0.40
13:AM:28:ALA:O	13:AM:32:GLU:HB2	2.20	0.40
48:BR:4:LEU:C	48:BR:6:SER:N	2.74	0.40
53:BW:20:VAL:HG23	53:BW:21:VAL:H	1.85	0.40
27:B1:50:ARG:NH2	35:BA:1363:C:OP1	2.54	0.40
35:DA:215:G:O4'	35:DA:216:A:H4'	2.22	0.40
4:CD:4:TYR:CE2	4:CD:7:PRO:O	2.74	0.40
1:AA:148:G:H1	1:AA:174:C:N4	2.15	0.40
36:DB:10:C:C4	36:DB:11:C:C5	3.09	0.40
1:CA:244:U:C6	1:CA:894:G:N2	2.89	0.40
53:DW:50:VAL:HG13	53:DW:51:LEU:N	2.37	0.40
41:BG:100:TRP:O	41:BG:103:LEU:HB2	2.21	0.40
10:CJ:32:ALA:O	10:CJ:33:GLN:O	2.39	0.40
7:CG:15:ASP:O	7:CG:19:GLY:HA2	2.21	0.40
1:CA:1291:G:H4'	9:CI:38:GLN:O	2.21	0.40
53:DW:27:LYS:O	53:DW:71:VAL:HG23	2.22	0.40
35:DA:1108:U:H2'	35:DA:1109:C:C5'	2.48	0.40
35:BA:893:C:C5	35:BA:894:C:C2	3.08	0.40
35:BA:1681:G:OP2	35:BA:1681:G:C8	2.68	0.40
3:AC:23:TYR:HA	10:AJ:11:PHE:HE1	1.81	0.40
1:AA:176:C:C2	1:AA:177:C:C5	3.09	0.40
35:DA:2669:G:N3	35:DA:2670:A:C8	2.89	0.40
37:BC:196:LEU:C	37:BC:198:ALA:N	2.74	0.40
1:CA:129(A):G:H22	1:CA:189(E):U:H1'	1.86	0.40
20:AT:8:ARG:CD	20:AT:8:ARG:N	2.84	0.40
1:CA:992:U:H3	1:CA:1044:A:N6	2.20	0.40
25:AY:104:PRO:HA	25:AY:105:PRO:HD2	1.93	0.40
35:DA:1480:G:N3	35:DA:1480:G:H2'	2.36	0.40
2:AB:15:VAL:HG23	2:AB:209:ARG:NE	2.37	0.40
1:CA:889:A:H5'	1:CA:891:U:C1'	2.52	0.40
1:CA:1111:A:C2	3:CC:177:THR:HG23	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:889:A:H5'	1:AA:891:U:C1'	2.51	0.40
36:DB:111:G:C6	36:DB:112:U:C4	3.10	0.40
30:B4:11:PRO:C	30:B4:13:ARG:N	2.75	0.40
5:AE:30:ALA:O	5:AE:46:GLY:N	2.37	0.40
32:D6:35:GLU:HG3	32:D6:35:GLU:O	2.21	0.40
35:DA:357:A:O5'	35:DA:357:A:H8	2.05	0.40
1:AA:1225:A:N3	1:AA:1225:A:H2'	2.36	0.40
35:DA:54:G:C6	35:DA:55:G:C5	3.10	0.40
1:CA:250:A:H1'	1:CA:252:U:C4	2.56	0.40
35:DA:2727:G:H2'	35:DA:2728:U:H6	1.86	0.40
50:DT:33:LYS:HB2	50:DT:41:ARG:HB3	2.03	0.40
50:DT:64:ARG:CB	50:DT:73:GLU:HB3	2.47	0.40
10:CJ:50:ILE:HD11	14:CN:41:ARG:HH11	1.86	0.40
35:BA:1970:A:H1'	35:BA:1972:A:C8	2.56	0.40
38:BD:25:THR:HG21	38:BD:81:ALA:CB	2.28	0.40
38:DD:24:ILE:O	38:DD:24:ILE:CD1	2.70	0.40
41:DG:119:GLY:HA2	41:DG:179:PRO:HG2	2.02	0.40
36:DB:44:G:O3'	41:DG:95:ARG:HD2	2.21	0.40
10:CJ:5:ARG:HG3	10:CJ:73:ASP:CG	2.42	0.40
35:BA:1992:G:O2'	35:BA:1993:U:O5'	2.35	0.40
35:BA:2729:G:C5	35:BA:2730:C:C4	3.09	0.40
56:BZ:125:LEU:C	56:BZ:126:VAL:CG2	2.89	0.40
56:BZ:57:ILE:O	56:BZ:69:THR:O	2.39	0.40
39:BE:35:GLN:HE21	39:BE:37:ARG:NE	2.20	0.40
42:DH:98:LEU:HD22	42:DH:125:VAL:HB	2.03	0.40
42:DH:88:LEU:N	42:DH:88:LEU:HD22	2.37	0.40
34:D8:6:THR:HG22	34:D8:62:LEU:HB2	2.03	0.40
28:B2:29:LYS:HA	28:B2:32:LEU:CG	2.51	0.40
54:BX:23:GLU:HG3	54:BX:24:GLY:N	2.36	0.40
39:DE:28:ALA:O	39:DE:180:ASN:OD1	2.40	0.40
35:BA:2220:G:H2'	35:BA:2221:G:C8	2.40	0.40
41:BG:138:GLN:OE1	41:BG:153:ARG:N	2.55	0.40
41:BG:47:LYS:N	41:BG:51:ARG:HG3	2.36	0.40
55:DY:80:GLY:O	55:DY:81:LYS:HB3	2.21	0.40
55:DY:87:LYS:C	55:DY:89:PHE:H	2.23	0.40
54:DX:29:TRP:CE3	54:DX:76:ARG:HB3	2.57	0.40
42:BH:89:ILE:HG12	42:BH:90:LYS:H	1.87	0.40
47:DQ:47:ILE:HG23	47:DQ:104:PHE:HZ	1.87	0.40
56:DZ:150:LEU:HB2	56:DZ:154:ASP:OD1	2.22	0.40
56:DZ:149:SER:CB	56:DZ:172:ALA:O	2.70	0.40
51:DU:101:ARG:O	51:DU:102:GLU:C	2.59	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DU:111:GLU:O	51:DU:115:ALA:N	2.43	0.40
51:DU:111:GLU:O	51:DU:112:ARG:C	2.60	0.40
51:DU:57:PHE:C	51:DU:59:ARG:N	2.73	0.40
52:DV:19:LYS:HZ2	52:DV:21:ARG:H	1.70	0.40
47:DQ:54:MET:HG3	47:DQ:64:ILE:CD1	2.51	0.40
36:BB:9:G:C2	36:BB:113:G:C5	3.10	0.40
49:BS:46:VAL:CG1	49:BS:47:THR:N	2.85	0.40
1:CA:429:U:H4'	1:CA:430:A:OP1	2.18	0.40
3:CC:134:ILE:HD11	3:CC:153:VAL:CG2	2.48	0.40
40:BF:114:VAL:CG2	40:BF:115:ALA:N	2.71	0.40
40:BF:41:LEU:HA	40:BF:44:ARG:CD	2.50	0.40
3:AC:9:GLY:CA	14:AN:49:HIS:O	2.69	0.40
27:D1:88:LYS:O	27:D1:91:LYS:N	2.54	0.40
34:D8:25:MET:HB3	34:D8:26:LYS:H	1.51	0.40
34:D8:25:MET:CG	46:DP:64:LYS:HB2	2.52	0.40
35:DA:1022:G:N2	35:DA:1142(A):A:C2	2.89	0.40
44:DN:85:ILE:CG2	44:DN:90:MET:HG2	2.51	0.40
44:DN:95:PRO:O	44:DN:96:GLU:C	2.59	0.40
35:BA:2029:G:C4	35:BA:2031:A:OP2	2.73	0.40
35:BA:26:G:N1	35:BA:27:G:N2	2.69	0.40
52:BV:88:ARG:HH11	52:BV:88:ARG:HG3	1.84	0.40
47:BQ:12:GLN:HE21	47:BQ:73:PRO:CD	2.33	0.40
48:DR:115:GLU:O	48:DR:116:LEU:C	2.60	0.40
48:DR:29:LEU:HA	48:DR:29:LEU:HD12	1.79	0.40
48:BR:31:HIS:HB2	48:BR:34:ILE:CD1	2.51	0.40
48:BR:62:ALA:O	48:BR:63:ARG:C	2.60	0.40
36:DB:115:G:O4'	49:DS:47:THR:CB	2.69	0.40
49:DS:31:SER:HB3	49:DS:34:HIS:O	2.22	0.40
49:DS:46:VAL:CG1	49:DS:47:THR:N	2.84	0.40
28:B2:30:ARG:O	28:B2:34:GLU:HG2	2.22	0.40
2:AB:16:HIS:CA	2:AB:210:SER:HB2	2.50	0.40
27:D1:37:ILE:HD12	35:DA:2080:G:C5'	2.50	0.40
35:DA:205:G:O2'	35:DA:206:U:OP2	2.34	0.40
2:CB:187:LEU:CD2	2:CB:187:LEU:C	2.85	0.40
2:CB:36:ARG:NE	2:CB:36:ARG:HA	2.36	0.40
35:DA:666:G:C5	35:DA:667:U:C5	3.10	0.40
40:DF:67:GLN:O	40:DF:68:LYS:CG	2.67	0.40
40:DF:65:TRP:CZ3	40:DF:75:HIS:CD2	3.09	0.40
1:AA:539:A:H2'	1:AA:540:G:C8	2.54	0.40
4:AD:63:LYS:N	4:AD:66:ARG:NH1	2.69	0.40
43:DI:133:HIS:CG	43:DI:134:PRO:HD2	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DA:869:G:HO2'	47:DQ:8:LYS:HD3	1.87	0.40
44:DN:77:GLY:O	44:DN:78:TYR:CD2	2.75	0.40
2:AB:145:LEU:CD2	2:AB:149:LEU:HD12	2.50	0.40
27:B1:34:THR:O	27:B1:35:THR:CG2	2.69	0.40
7:AG:107:ALA:HB1	7:AG:134:ALA:HB2	2.03	0.40
1:AA:1240:U:N3	7:AG:30:ILE:HG22	2.25	0.40
51:DU:8:VAL:HB	51:DU:9:VAL:H	1.63	0.40
25:CY:120:GLN:HB3	25:CY:121:TYR:H	1.56	0.40
25:CY:137:LEU:O	25:CY:140:LEU:HB3	2.22	0.40
25:CY:30:THR:C	25:CY:32:ARG:N	2.72	0.40
1:CA:1226:C:H5'	19:CS:80:TYR:HE2	1.86	0.40
1:AA:1009:G:C2'	1:AA:1010:G:H5'	2.52	0.40
1:AA:991:U:OP2	1:AA:991:U:H6	2.04	0.40
1:CA:1240:U:OP1	7:CG:116:ALA:HB2	2.21	0.40
35:BA:1411:C:O2'	35:BA:1412:A:P	2.79	0.40
25:AY:153:GLU:OE2	26:B0:8:ALA:HA	2.22	0.40
33:B7:18:PHE:O	33:B7:20:ALA:N	2.55	0.40
35:BA:1354:A:C2'	35:BA:1355:G:H5'	2.52	0.40
40:DF:132:VAL:CG2	40:DF:133:ASN:N	2.73	0.40
42:DH:65:HIS:C	42:DH:67:LEU:H	2.24	0.40
26:B0:17:GLN:HG2	35:BA:2261:C:OP1	2.21	0.40
55:BY:20:TYR:CZ	55:BY:42:VAL:HA	2.57	0.40
2:CB:107:THR:HG23	2:CB:110:GLN:CD	2.41	0.40
1:AA:952:U:H2'	1:AA:953:G:C8	2.57	0.40
1:AA:1226:C:OP2	13:AM:103:THR:HG21	2.21	0.40
13:AM:83:ASP:CG	13:AM:84:ILE:H	2.23	0.40
1:AA:1506:U:O2'	1:AA:1507:A:H5'	2.22	0.40
25:CY:68:VAL:HG21	25:CY:99:LEU:HD12	2.03	0.40
8:AH:35:ILE:O	8:AH:36:LEU:C	2.60	0.40
35:DA:2472:G:H2'	35:DA:2529:G:N2	2.37	0.40
9:AI:3:GLN:O	9:AI:88:TYR:CE1	2.75	0.40
1:CA:586:C:C2'	1:CA:587:G:H5'	2.51	0.40
12:AL:55:VAL:C	12:AL:70:ILE:HD11	2.41	0.40
9:AI:113:LYS:HB2	9:AI:116:LYS:CG	2.47	0.40
35:DA:1309:G:H2'	35:DA:1310:G:C5'	2.51	0.40
38:DD:49:ILE:HG12	38:DD:49:ILE:H	1.67	0.40
46:BP:123:LEU:N	46:BP:123:LEU:CD2	2.84	0.40
46:DP:75:ILE:H	46:DP:75:ILE:CD1	2.04	0.40
40:BF:158:THR:HG21	40:BF:163:VAL:CG1	2.52	0.40
11:CK:109:VAL:HG22	18:CR:85:LEU:O	2.22	0.40
35:BA:1615:C:C5	35:BA:1617:C:C5	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CK:99:GLN:C	11:CK:101:SER:N	2.73	0.40
38:DD:76:PRO:O	38:DD:98:VAL:HG23	2.21	0.40
35:DA:2206:G:N3	35:DA:2206:G:H5'	2.37	0.40
55:BY:8:LYS:H	55:BY:8:LYS:CD	2.10	0.40
35:DA:49:A:N6	35:DA:177:G:C5	2.89	0.40
40:DF:150:GLY:HA2	40:DF:172:TRP:CD2	2.56	0.40
5:AE:136:MET:C	5:AE:138:ALA:N	2.73	0.40
38:BD:145:VAL:O	38:BD:153:ALA:HB1	2.20	0.40
35:BA:2627:G:N2	35:BA:2781:A:H2	2.18	0.40
29:B3:41:PRO:N	29:B3:44:ARG:HD2	2.37	0.40
1:AA:597:G:C6	1:AA:644:G:C6	3.09	0.40
35:BA:856:C:H4'	35:BA:857:C:OP1	2.21	0.40
35:BA:738:G:C2	35:BA:759:G:C5	3.10	0.40
29:D3:15:TYR:O	29:D3:20:LYS:HE2	2.22	0.40
29:D3:14:GLY:H	29:D3:20:LYS:NZ	2.19	0.40
35:DA:974:G:C2	35:DA:989:G:N3	2.89	0.40
1:AA:1305:G:N2	1:AA:1331:G:O2'	2.40	0.40
15:AO:28:GLN:O	15:AO:29:VAL:C	2.60	0.40
1:CA:538:G:P	12:CL:115:LYS:HB2	2.61	0.40
25:CY:52:LEU:CD2	25:CY:53:ASN:N	2.85	0.40
1:AA:180:U:H2'	1:AA:181:G:C5'	2.51	0.40
52:DV:46:VAL:HG12	52:DV:47:VAL:N	2.36	0.40
1:CA:302:G:C4	1:CA:303:A:C8	3.08	0.40
35:DA:2352:A:H2'	35:DA:2353:G:H5'	2.03	0.40
35:BA:2408:U:O2'	35:BA:2409:G:H5'	2.22	0.40
19:CS:45:VAL:C	19:CS:47:HIS:N	2.75	0.40
53:BW:26:GLY:CA	53:BW:71:VAL:HB	2.51	0.40
11:AK:123:LYS:HE2	11:AK:123:LYS:HB3	1.83	0.40
7:CG:24:THR:HA	7:CG:27:ILE:HD13	2.03	0.40
1:CA:1352:C:H2'	1:CA:1353:G:C8	2.56	0.40
35:BA:1742:G:N7	35:BA:1743:C:C2	2.88	0.40
1:CA:1153:C:C2'	1:CA:1154:G:O5'	2.69	0.40
35:DA:265:A:H1'	35:DA:266:G:H1'	2.03	0.40
19:AS:22:LEU:C	19:AS:24:ALA:N	2.74	0.40
1:CA:54:C:N4	1:CA:352:C:H2'	2.33	0.40
1:AA:783:C:C4	1:AA:784:C:H5	2.39	0.40
35:DA:1763:G:C4'	35:DA:1763:G:OP1	2.69	0.40
7:CG:11:GLN:CG	7:CG:12:LEU:H	2.34	0.40
35:BA:2410:G:H2'	35:BA:2411:A:C8	2.57	0.40
7:CG:42:ILE:HA	7:CG:45:ASP:CB	2.49	0.40
1:AA:96:U:O2'	1:AA:97:G:P	2.80	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:BD:138:VAL:CG2	38:BD:166:GLN:O	2.69	0.40
29:B3:35:ARG:NH1	29:B3:35:ARG:HG3	2.34	0.40
45:BO:55:GLY:O	45:BO:56:ASP:OD2	2.39	0.40
44:DN:82:LEU:HD12	44:DN:83:LYS:H	1.85	0.40
35:DA:271(E):U:C2	35:DA:271(F):C:C5	3.09	0.40
35:DA:1764:G:H1	35:DA:1988:C:H42	1.69	0.40
35:DA:42:G:C2	35:DA:437:G:C2	3.10	0.40
35:BA:1622:G:C2	35:BA:1623:G:C8	3.09	0.40
1:CA:524:G:O5'	1:CA:524:G:H8	2.05	0.40
3:AC:206:GLU:O	3:AC:207:VAL:C	2.59	0.40
35:BA:2687:U:C4	35:BA:2688:U:C5	3.10	0.40
26:B0:56:ASP:OD2	26:B0:58:THR:OG1	2.37	0.40
5:AE:101:ILE:HD11	5:AE:119:LEU:HD23	2.03	0.40
37:BC:49:ILE:HB	37:BC:50:ASP:H	1.49	0.40
35:DA:2063:C:O2	35:DA:2450:A:N1	2.54	0.40
35:BA:325:G:H2'	35:BA:326:G:C8	2.55	0.40
35:DA:457:A:C8	35:DA:459:U:N3	2.89	0.40
53:DW:76:VAL:CG2	53:DW:103:ILE:HG22	2.51	0.40
26:D0:56:ASP:C	26:D0:58:THR:N	2.75	0.40
29:D3:23:LEU:N	29:D3:23:LEU:HD12	2.37	0.40
1:AA:1476:G:C6	1:AA:1477:C:N4	2.90	0.40
8:CH:95:VAL:HG23	8:CH:95:VAL:O	2.21	0.40
35:BA:1545:A:N7	35:BA:1546:C:C2	2.90	0.40
7:CG:155:ARG:HB2	7:CG:155:ARG:CZ	2.51	0.40
35:BA:283:A:O2'	35:BA:284:U:OP1	2.26	0.40
35:BA:1392:A:C5	35:BA:1393:A:C6	3.10	0.40
45:BO:8:LEU:N	45:BO:8:LEU:HD22	2.36	0.40
36:DB:106:G:C2	36:DB:107:G:C8	3.09	0.40
1:AA:420:U:C5	1:AA:422:C:N3	2.90	0.40
35:DA:1997:G:C2	35:DA:1998:G:N7	2.89	0.40
35:DA:2697:G:H2'	35:DA:2698:U:O4'	2.22	0.40
35:DA:2714:G:C6	35:DA:2715:C:C4	3.09	0.40
35:DA:2851:A:H2'	35:DA:2852:G:H8	1.87	0.40
43:BI:77:LEU:HD12	43:BI:140:LEU:HD22	2.02	0.40
3:CC:29:TYR:HE2	14:CN:37:PHE:CE1	2.39	0.40
53:DW:29:LEU:HD21	53:DW:33:ARG:NH2	2.36	0.40
35:BA:1813:G:H2'	35:BA:1814:G:O4'	2.22	0.40
35:BA:1822:G:O2'	35:BA:1823:G:H5'	2.22	0.40
35:DA:1802:A:C6	35:DA:1817:G:N2	2.88	0.40
38:DD:177:LEU:HB3	38:DD:178:PRO:CD	2.51	0.40
35:BA:1663:C:HO2'	35:BA:1664:A:C5'	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BT:51:ARG:HG3	50:BT:51:ARG:NH1	2.35	0.40
50:BT:29:ARG:CG	50:BT:85:LYS:HA	2.51	0.40
35:BA:872:A:H4'	47:BQ:66:ILE:HD11	2.03	0.40
47:BQ:141:GLN:CD	56:BZ:70:LEU:HB3	2.42	0.40
47:BQ:28:ALA:HB3	47:BQ:105:GLU:OE1	2.22	0.40
56:BZ:85:HIS:CG	56:BZ:86:VAL:N	2.89	0.40
39:BE:3:GLY:O	39:BE:4:ILE:CG2	2.69	0.40
35:BA:1011:G:C6	35:BA:1151:G:C6	3.09	0.40
51:BU:55:ARG:HA	51:BU:58:ARG:HG3	2.04	0.40
52:BV:25:LEU:N	52:BV:94:LEU:HD11	2.35	0.40
42:DH:83:TYR:CD1	42:DH:84:SER:N	2.90	0.40
10:AJ:51:ARG:HG2	14:AN:45:ARG:NH1	2.36	0.40
35:DA:2810:A:O2'	39:DE:61:ARG:CZ	2.69	0.40
2:AB:239:VAL:O	2:AB:240:GLN:HB3	2.20	0.40
28:D2:51:ARG:NH1	35:DA:72:U:H5''	2.37	0.40
35:DA:2419:U:O2'	35:DA:2420:C:H5'	2.22	0.40
56:DZ:38:TYR:CD1	56:DZ:38:TYR:O	2.75	0.40
47:DQ:140:ALA:CB	56:DZ:99:TYR:H	2.33	0.40
52:DV:61:VAL:CG1	52:DV:62:LEU:H	2.30	0.40
35:DA:2470:G:OP1	47:DQ:56:ARG:NH2	2.55	0.40
47:DQ:58:PHE:HD1	47:DQ:58:PHE:O	2.05	0.40
35:BA:1863:G:H2'	35:BA:1864:U:O4'	2.21	0.40
4:CD:150:GLU:HA	4:CD:153:ARG:HD3	2.02	0.40
40:BF:183:VAL:HA	40:BF:186:ILE:HD12	2.04	0.40
3:CC:9:GLY:CA	14:CN:49:HIS:O	2.70	0.40
27:B1:23:LYS:HD2	27:B1:23:LYS:HA	1.80	0.40
35:BA:2080:G:H2'	35:BA:2081:C:C6	2.56	0.40
40:BF:84:VAL:HB	40:BF:85:GLY:H	1.49	0.40
46:BP:50:ARG:CZ	46:BP:51:PHE:CE2	3.05	0.40
40:DF:20:LEU:HB2	40:DF:24:LEU:HD21	2.04	0.40
40:DF:41:LEU:HA	40:DF:44:ARG:CG	2.51	0.40
55:BY:80:GLY:O	55:BY:81:LYS:HB3	2.22	0.40
47:BQ:85:LYS:CG	47:BQ:86:GLY:N	2.76	0.40
48:DR:13:HIS:O	48:DR:14:SER:C	2.60	0.40
1:AA:101:A:O2'	1:AA:102:G:H5'	2.22	0.40
1:AA:105:G:C6	1:AA:106:C:N4	2.90	0.40
1:AA:1433:A:C8	1:AA:1468:A:N6	2.90	0.40
35:BA:1455:G:O2'	35:BA:1456:G:H5'	2.21	0.40
35:BA:1653:G:H4'	35:BA:1654:A:O5'	2.21	0.40
35:BA:2691:C:C4	35:BA:2719:G:N2	2.90	0.40
48:BR:116:LEU:HD22	48:BR:117:VAL:HG12	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:BT:100:TYR:H	50:BT:100:TYR:HD1	1.66	0.40
35:DA:385:C:O2'	35:DA:388:G:N2	2.54	0.40
35:DA:9:U:O2'	35:DA:10:G:O5'	2.34	0.40
56:BZ:148:ASP:OD1	56:BZ:149:SER:N	2.40	0.40
6:CF:29:ALA:O	6:CF:30:LEU:C	2.60	0.40
18:CR:24:ALA:C	18:CR:26:LEU:H	2.25	0.40
2:CB:71:VAL:HG12	2:CB:72:GLY:N	2.36	0.40
35:DA:806:C:H6	35:DA:806:C:O5'	2.05	0.40
40:DF:57:VAL:HG21	40:DF:87:GLY:CA	2.52	0.40
40:DF:84:VAL:HB	40:DF:85:GLY:H	1.45	0.40
1:AA:756:C:O2'	1:AA:757:U:H5'	2.22	0.40
35:BA:366:C:H5'	35:BA:370:G:H5'	2.03	0.40
43:DI:97:ILE:CD1	43:DI:116:LEU:HD22	2.51	0.40
47:BQ:55:VAL:C	47:BQ:57:HIS:N	2.72	0.40
1:CA:1529:G:H3'	1:CA:1530:G:C5'	2.51	0.40
35:DA:2018:G:C4	35:DA:2019:A:C8	3.10	0.40
35:DA:2023:G:C5'	35:DA:2617:C:H4'	2.52	0.40
35:DA:28:A:H2'	35:DA:28:A:N3	2.37	0.40
35:DA:447:A:C2	35:DA:473:G:C8	3.09	0.40
25:CY:169:ILE:O	25:CY:170:ALA:O	2.40	0.40
35:BA:1203:G:N2	35:BA:1243:G:C6	2.90	0.40
25:AY:29:ARG:NH1	25:AY:110:ARG:HH21	2.19	0.40
35:BA:2127:G:C1'	35:BA:2128:C:H4'	2.49	0.40
26:B0:7:LEU:HA	47:BQ:83:MET:SD	2.61	0.40
11:AK:20:TYR:O	11:AK:31:THR:N	2.52	0.40
11:AK:66:LEU:O	11:AK:70:LYS:N	2.47	0.40
35:BA:2283:C:C5	35:BA:2389:G:C4	3.10	0.40
35:DA:261:G:C2	35:DA:262:A:N7	2.89	0.40
11:CK:66:LEU:HB2	11:CK:67:ASP:H	1.63	0.40
1:CA:1349:A:H2'	1:CA:1350:A:O5'	2.22	0.40
1:CA:1370:G:O2'	1:CA:1371:G:H5'	2.22	0.40
9:CI:66:ARG:HH11	9:CI:66:ARG:HB3	1.86	0.40
9:AI:93:ARG:O	9:AI:95:LYS:N	2.50	0.40
18:CR:52:PRO:C	18:CR:56:THR:HG23	2.41	0.40
42:BH:74:ASN:C	42:BH:76:VAL:N	2.72	0.40
33:D7:28:ARG:O	33:D7:29:LYS:C	2.60	0.40
15:CO:31:LEU:O	15:CO:34:LEU:N	2.54	0.40
16:CP:39:TYR:HB2	16:CP:49:LEU:HB2	2.03	0.40
7:CG:122:HIS:O	7:CG:123:GLU:C	2.60	0.40
40:BF:150:GLY:C	40:BF:152:GLU:N	2.75	0.40
1:CA:684:A:H2'	1:CA:685:G:C8	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:BE:101:ARG:CD	39:BE:169:ASN:HD22	2.27	0.40
1:CA:38:G:C4	1:CA:397:A:N1	2.90	0.40
1:AA:1456:G:C2'	1:AA:1457:G:H5'	2.52	0.40
40:DF:175:THR:HG23	40:DF:175:THR:O	2.21	0.40
3:AC:156:ARG:NH2	3:AC:159:GLY:O	2.55	0.40
17:AQ:45:HIS:C	17:AQ:73:VAL:HG23	2.42	0.40
37:BC:59:ARG:CB	37:BC:62:VAL:HG22	2.41	0.40
5:AE:105:VAL:N	5:AE:106:PRO:HD2	2.36	0.40
5:AE:140:ARG:HE	5:AE:140:ARG:HB2	1.36	0.40
32:D6:17:LYS:O	32:D6:18:ARG:HD3	2.22	0.40
1:CA:1464:G:N2	1:CA:1465:C:C4	2.90	0.40
35:DA:1504:C:O2'	35:DA:1505:C:H5'	2.20	0.40
35:BA:2795:G:C6	35:BA:2802:G:N2	2.89	0.40
19:AS:48:THR:HG22	19:AS:61:TYR:CB	2.51	0.40
19:AS:48:THR:HA	19:AS:60:VAL:O	2.22	0.40
1:AA:315:A:H5''	1:AA:317:G:OP2	2.21	0.40
1:AA:470:C:O2'	1:AA:471:G:H5'	2.21	0.40
3:AC:87:LEU:HA	3:AC:90:GLU:HG2	2.04	0.40
19:CS:48:THR:HA	19:CS:60:VAL:O	2.21	0.40
35:DA:962:G:C2'	35:DA:963:U:H5'	2.52	0.40
35:BA:687:C:N3	35:BA:788:A:H5'	2.36	0.40
1:AA:579:G:H2'	1:AA:580:U:H6	1.87	0.40
1:AA:1305:G:OP1	21:AU:2:GLY:HA3	2.22	0.40
1:AA:1330:U:C5	1:AA:1331:G:C5	3.09	0.40
1:AA:666:G:H2'	1:AA:667:G:C8	2.55	0.40
15:AO:37:ASN:O	15:AO:40:SER:HB3	2.21	0.40
15:AO:51:HIS:O	15:AO:52:SER:C	2.60	0.40
12:CL:113:ARG:O	12:CL:122:THR:HG21	2.21	0.40
38:DD:165:ILE:N	38:DD:165:ILE:CD1	2.71	0.40
35:BA:1369:G:N2	35:BA:1370:C:C2	2.89	0.40
35:BA:1464:C:O2'	35:BA:1465:G:H5'	2.21	0.40
35:BA:1528(A):A:H3'	35:BA:1529:G:C5'	2.46	0.40
4:AD:80:GLU:O	4:AD:81:GLU:C	2.60	0.40
44:DN:137:LYS:CG	44:DN:138:LEU:N	2.83	0.40
43:DI:55:ALA:O	43:DI:59:ALA:CB	2.69	0.40
45:DO:87:ILE:HG23	45:DO:88:ASN:O	2.21	0.40
35:DA:2290:G:H1	35:DA:2342:C:H42	1.69	0.40
56:BZ:141:VAL:HG22	56:BZ:141:VAL:O	2.20	0.40
35:DA:481:G:HO2'	35:DA:482:A:P	2.44	0.40
4:CD:80:GLU:O	4:CD:83:SER:N	2.55	0.40
23:CW:54:G:C2	23:CW:55:5MU:C4	3.10	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CQ:10:VAL:HG12	17:CQ:53:LEU:CD1	2.52	0.40
10:CJ:20:ALA:O	10:CJ:24:VAL:HG23	2.21	0.40
1:AA:240:C:H2'	1:AA:241:C:C6	2.56	0.40
7:AG:11:GLN:CG	7:AG:12:LEU:N	2.85	0.40
35:DA:1681:G:HO2'	35:DA:1762:A:H2'	1.86	0.40
1:CA:797:C:H2'	1:CA:798:G:H8	1.86	0.40
1:CA:292:G:H2'	1:CA:293:G:O4'	2.22	0.40
35:DA:2516:G:C6	35:DA:2517:C:N4	2.90	0.40
35:BA:2025:C:H2'	35:BA:2026:C:H6	1.87	0.40
53:DW:9:TYR:H	53:DW:102:HIS:HD2	1.67	0.40
53:BW:111:HIS:CG	53:BW:112:GLY:H	2.39	0.40
35:BA:328:U:H3	35:BA:332:A:H62	1.70	0.40
8:AH:91:ARG:NH1	8:AH:91:ARG:CG	2.79	0.40
1:AA:1518:A:N1	1:AA:1519:A:C2	2.90	0.40
35:BA:983:A:H2'	35:BA:984:A:C8	2.57	0.40
41:BG:50:ALA:HB1	41:BG:52:ILE:HD11	2.03	0.40
1:CA:509:A:C2	1:CA:510:A:C2	3.10	0.40
35:DA:2064:C:H4'	35:DA:2251:G:N2	2.36	0.40
35:DA:2553:G:H2'	35:DA:2554:U:C4'	2.52	0.40
1:AA:1420:C:C3'	1:AA:1420:C:C6	3.03	0.40
9:CI:99:LEU:HD22	9:CI:99:LEU:HA	1.89	0.40
25:CY:143:LEU:O	25:CY:146:GLU:CB	2.69	0.40
1:CA:1000:U:H2'	1:CA:1001:A:H8	1.86	0.40
35:DA:2322:A:O2'	35:DA:2323:G:H5'	2.22	0.40
35:DA:2228:G:C5	35:DA:2229:C:C4	3.10	0.40
1:CA:318:G:C2	1:CA:319:G:N7	2.89	0.40
54:BX:43:VAL:C	54:BX:45:THR:N	2.72	0.40
35:DA:1593:G:C6	35:DA:1594:G:C6	3.10	0.40
35:BA:1161:C:H2'	35:BA:1162:G:H8	1.87	0.40
5:CE:53:LEU:O	5:CE:54:ALA:C	2.60	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:BA:1593:G:O2'	36:BB:54:G:OP1[1_655]	2.17	0.03

## 5.3 Torsion angles ⓘ

### 5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	AB	233/256 (91%)	114 (49%)	69 (30%)	50 (22%)	0	1
2	CB	233/256 (91%)	114 (49%)	68 (29%)	51 (22%)	0	1
3	AC	205/239 (86%)	119 (58%)	50 (24%)	36 (18%)	0	2
3	CC	205/239 (86%)	121 (59%)	47 (23%)	37 (18%)	0	2
4	AD	206/209 (99%)	101 (49%)	62 (30%)	43 (21%)	0	1
4	CD	206/209 (99%)	101 (49%)	61 (30%)	44 (21%)	0	1
5	AE	149/162 (92%)	85 (57%)	44 (30%)	20 (13%)	0	5
5	CE	149/162 (92%)	84 (56%)	45 (30%)	20 (13%)	0	5
6	AF	99/101 (98%)	61 (62%)	23 (23%)	15 (15%)	0	3
6	CF	99/101 (98%)	60 (61%)	24 (24%)	15 (15%)	0	3
7	AG	153/156 (98%)	97 (63%)	31 (20%)	25 (16%)	0	3
7	CG	153/156 (98%)	97 (63%)	31 (20%)	25 (16%)	0	3
8	AH	136/138 (99%)	78 (57%)	39 (29%)	19 (14%)	0	4
8	CH	136/138 (99%)	79 (58%)	37 (27%)	20 (15%)	0	4
9	AI	121/128 (94%)	80 (66%)	27 (22%)	14 (12%)	0	7
9	CI	121/128 (94%)	79 (65%)	27 (22%)	15 (12%)	0	6
10	AJ	97/105 (92%)	64 (66%)	23 (24%)	10 (10%)	1	9
10	CJ	97/105 (92%)	64 (66%)	22 (23%)	11 (11%)	0	7
11	AK	117/129 (91%)	69 (59%)	31 (26%)	17 (14%)	0	4
11	CK	117/129 (91%)	68 (58%)	32 (27%)	17 (14%)	0	4
12	AL	123/135 (91%)	78 (63%)	28 (23%)	17 (14%)	0	4
12	CL	123/135 (91%)	77 (63%)	27 (22%)	19 (15%)	0	3
13	AM	113/126 (90%)	59 (52%)	35 (31%)	19 (17%)	0	3
13	CM	113/126 (90%)	60 (53%)	34 (30%)	19 (17%)	0	3
14	AN	58/61 (95%)	38 (66%)	12 (21%)	8 (14%)	0	4

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
14	CN	58/61 (95%)	38 (66%)	12 (21%)	8 (14%)	0	4
15	AO	86/89 (97%)	48 (56%)	26 (30%)	12 (14%)	0	4
15	CO	86/89 (97%)	49 (57%)	26 (30%)	11 (13%)	0	5
16	AP	82/88 (93%)	45 (55%)	24 (29%)	13 (16%)	0	3
16	CP	82/88 (93%)	45 (55%)	24 (29%)	13 (16%)	0	3
17	AQ	98/105 (93%)	66 (67%)	19 (19%)	13 (13%)	0	5
17	CQ	98/105 (93%)	65 (66%)	20 (20%)	13 (13%)	0	5
18	AR	68/88 (77%)	38 (56%)	18 (26%)	12 (18%)	0	2
18	CR	68/88 (77%)	37 (54%)	20 (29%)	11 (16%)	0	3
19	AS	77/93 (83%)	49 (64%)	19 (25%)	9 (12%)	0	7
19	CS	77/93 (83%)	49 (64%)	19 (25%)	9 (12%)	0	7
20	AT	97/106 (92%)	46 (47%)	29 (30%)	22 (23%)	0	1
20	CT	97/106 (92%)	46 (47%)	30 (31%)	21 (22%)	0	1
21	AU	23/27 (85%)	17 (74%)	4 (17%)	2 (9%)	1	12
21	CU	23/27 (85%)	17 (74%)	4 (17%)	2 (9%)	1	12
25	AY	183/185 (99%)	115 (63%)	44 (24%)	24 (13%)	0	5
25	CY	183/185 (99%)	81 (44%)	54 (30%)	48 (26%)	0	1
26	B0	83/85 (98%)	61 (74%)	13 (16%)	9 (11%)	0	8
26	D0	83/85 (98%)	59 (71%)	15 (18%)	9 (11%)	0	8
27	B1	87/98 (89%)	34 (39%)	22 (25%)	31 (36%)	0	0
27	D1	87/98 (89%)	41 (47%)	22 (25%)	24 (28%)	0	0
28	B2	49/72 (68%)	14 (29%)	21 (43%)	14 (29%)	0	0
28	D2	49/72 (68%)	16 (33%)	20 (41%)	13 (26%)	0	0
29	B3	58/60 (97%)	34 (59%)	15 (26%)	9 (16%)	0	3
29	D3	58/60 (97%)	34 (59%)	15 (26%)	9 (16%)	0	3
30	B4	48/71 (68%)	8 (17%)	23 (48%)	17 (35%)	0	0
30	D4	48/71 (68%)	8 (17%)	22 (46%)	18 (38%)	0	0
31	B5	57/60 (95%)	28 (49%)	14 (25%)	15 (26%)	0	1
31	D5	57/60 (95%)	28 (49%)	12 (21%)	17 (30%)	0	0
32	B6	41/54 (76%)	21 (51%)	11 (27%)	9 (22%)	0	1
32	D6	41/54 (76%)	21 (51%)	11 (27%)	9 (22%)	0	1

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
33	B7	47/49 (96%)	29 (62%)	9 (19%)	9 (19%)	0	2
33	D7	47/49 (96%)	29 (62%)	10 (21%)	8 (17%)	0	3
34	B8	62/65 (95%)	25 (40%)	22 (36%)	15 (24%)	0	1
34	D8	62/65 (95%)	26 (42%)	21 (34%)	15 (24%)	0	1
37	BC	183/229 (80%)	79 (43%)	49 (27%)	55 (30%)	0	0
37	DC	183/229 (80%)	79 (43%)	49 (27%)	55 (30%)	0	0
38	BD	270/276 (98%)	158 (58%)	62 (23%)	50 (18%)	0	2
38	DD	270/276 (98%)	159 (59%)	62 (23%)	49 (18%)	0	2
39	BE	203/206 (98%)	110 (54%)	46 (23%)	47 (23%)	0	1
39	DE	203/206 (98%)	111 (55%)	44 (22%)	48 (24%)	0	1
40	BF	206/210 (98%)	109 (53%)	53 (26%)	44 (21%)	0	1
40	DF	206/210 (98%)	108 (52%)	53 (26%)	45 (22%)	0	1
41	BG	177/182 (97%)	89 (50%)	48 (27%)	40 (23%)	0	1
41	DG	177/182 (97%)	89 (50%)	41 (23%)	47 (27%)	0	0
42	BH	158/180 (88%)	78 (49%)	44 (28%)	36 (23%)	0	1
42	DH	158/180 (88%)	80 (51%)	44 (28%)	34 (22%)	0	1
43	BI	144/148 (97%)	80 (56%)	36 (25%)	28 (19%)	0	2
43	DI	144/148 (97%)	80 (56%)	37 (26%)	27 (19%)	0	2
44	BN	137/140 (98%)	64 (47%)	40 (29%)	33 (24%)	0	1
44	DN	137/140 (98%)	65 (47%)	39 (28%)	33 (24%)	0	1
45	BO	120/122 (98%)	73 (61%)	24 (20%)	23 (19%)	0	2
45	DO	120/122 (98%)	74 (62%)	24 (20%)	22 (18%)	0	2
46	BP	144/150 (96%)	77 (54%)	27 (19%)	40 (28%)	0	0
46	DP	144/150 (96%)	75 (52%)	29 (20%)	40 (28%)	0	0
47	BQ	134/141 (95%)	70 (52%)	37 (28%)	27 (20%)	0	1
47	DQ	134/141 (95%)	72 (54%)	35 (26%)	27 (20%)	0	1
48	BR	115/118 (98%)	54 (47%)	26 (23%)	35 (30%)	0	0
48	DR	115/118 (98%)	53 (46%)	29 (25%)	33 (29%)	0	0
49	BS	97/112 (87%)	34 (35%)	27 (28%)	36 (37%)	0	0
49	DS	97/112 (87%)	34 (35%)	28 (29%)	35 (36%)	0	0
50	BT	136/146 (93%)	79 (58%)	26 (19%)	31 (23%)	0	1

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
50	DT	136/146 (93%)	78 (57%)	29 (21%)	29 (21%)	0	1
51	BU	115/118 (98%)	50 (44%)	39 (34%)	26 (23%)	0	1
51	DU	115/118 (98%)	51 (44%)	38 (33%)	26 (23%)	0	1
52	BV	97/101 (96%)	39 (40%)	21 (22%)	37 (38%)	0	0
52	DV	97/101 (96%)	39 (40%)	22 (23%)	36 (37%)	0	0
53	BW	111/113 (98%)	62 (56%)	27 (24%)	22 (20%)	0	2
53	DW	111/113 (98%)	60 (54%)	34 (31%)	17 (15%)	0	3
54	BX	91/96 (95%)	39 (43%)	24 (26%)	28 (31%)	0	0
54	DX	91/96 (95%)	38 (42%)	25 (28%)	28 (31%)	0	0
55	BY	99/110 (90%)	36 (36%)	29 (29%)	34 (34%)	0	0
55	DY	99/110 (90%)	38 (38%)	25 (25%)	36 (36%)	0	0
56	BZ	175/206 (85%)	87 (50%)	41 (23%)	47 (27%)	0	0
56	DZ	175/206 (85%)	92 (53%)	46 (26%)	37 (21%)	0	1
All	All	11936/12888 (93%)	6356 (53%)	3078 (26%)	2502 (21%)	0	1

All (2502) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AB	20	GLU
2	AB	22	LYS
2	AB	29	ALA
2	AB	30	ARG
2	AB	37	ASN
2	AB	75	LYS
2	AB	77	ALA
2	AB	88	ALA
2	AB	154	LEU
2	AB	165	VAL
2	AB	167	PRO
2	AB	168	THR
2	AB	191	ASP
2	AB	194	PRO
2	AB	202	PRO
2	AB	209	ARG
2	AB	229	VAL
2	AB	238	LEU
2	AB	239	VAL

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Mol	Chain	Res	Type
3	AC	4	LYS
3	AC	12	LEU
3	AC	53	ALA
3	AC	61	ALA
3	AC	157	ILE
3	AC	172	ARG
3	AC	174	PRO
3	AC	191	THR
3	AC	207	VAL
4	AD	4	TYR
4	AD	5	ILE
4	AD	6	GLY
4	AD	9	CYS
4	AD	14	ARG
4	AD	24	GLU
4	AD	28	SER
4	AD	119	GLN
4	AD	128	VAL
4	AD	149	ALA
4	AD	150	GLU
4	AD	163	GLU
4	AD	164	ALA
4	AD	177	ASP
4	AD	191	ARG
5	AE	37	ARG
5	AE	129	ILE
6	AF	13	ASN
6	AF	69	GLU
6	AF	70	ASP
6	AF	72	VAL
7	AG	31	MET
7	AG	39	ALA
7	AG	153	HIS
8	AH	17	THR
8	AH	18	ARG
8	AH	22	GLU
8	AH	29	SER
8	AH	97	VAL
8	AH	129	VAL
9	AI	29	ASN
9	AI	117	HIS
9	AI	120	ARG

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Mol	Chain	Res	Type
10	AJ	33	GLN
10	AJ	57	LYS
10	AJ	91	PRO
11	AK	27	ASN
11	AK	105	VAL
12	AL	10	LEU
12	AL	23	LYS
12	AL	28	LYS
12	AL	47	LYS
12	AL	48	PRO
12	AL	62	SER
13	AM	4	ILE
13	AM	11	ARG
13	AM	60	VAL
13	AM	68	GLY
13	AM	83	ASP
13	AM	90	LEU
13	AM	117	VAL
14	AN	22	THR
14	AN	23	ARG
15	AO	16	ALA
17	AQ	49	GLU
17	AQ	74	LEU
17	AQ	81	ARG
17	AQ	93	GLN
17	AQ	96	GLU
18	AR	20	ALA
18	AR	37	VAL
18	AR	45	SER
19	AS	10	PHE
19	AS	67	VAL
19	AS	80	TYR
19	AS	81	ARG
20	AT	28	ALA
20	AT	49	ALA
20	AT	63	ILE
20	AT	64	ASP
25	AY	29	ARG
25	AY	69	GLN
25	AY	81	LYS
25	AY	85	ASP
25	AY	107	THR

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Mol	Chain	Res	Type
26	B0	17	GLN
26	B0	55	ARG
26	B0	84	LEU
27	B1	11	ARG
27	B1	15	ALA
27	B1	26	ARG
27	B1	46	LEU
27	B1	49	VAL
27	B1	52	ARG
27	B1	53	VAL
27	B1	57	GLU
27	B1	62	VAL
27	B1	63	ALA
27	B1	69	LYS
27	B1	75	GLU
27	B1	77	ALA
27	B1	86	SER
27	B1	87	PRO
27	B1	95	LEU
28	B2	40	SER
28	B2	42	GLY
28	B2	50	ILE
28	B2	51	ARG
28	B2	52	ASP
28	B2	59	ARG
29	B3	3	ARG
29	B3	13	ILE
29	B3	31	LEU
29	B3	51	ALA
29	B3	52	HIS
29	B3	56	VAL
29	B3	57	GLU
30	B4	6	HIS
30	B4	7	PRO
30	B4	10	VAL
30	B4	13	ARG
30	B4	14	ILE
30	B4	23	GLU
30	B4	29	PRO
30	B4	35	VAL
30	B4	47	GLN
31	B5	21	SER

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Mol	Chain	Res	Type
31	B5	22	HIS
31	B5	32	PRO
31	B5	33	CYS
31	B5	34	PRO
31	B5	35	GLU
31	B5	57	VAL
32	B6	16	CYS
32	B6	31	PRO
32	B6	44	ARG
32	B6	45	LYS
33	B7	18	PHE
33	B7	46	VAL
34	B8	4	MET
34	B8	25	MET
34	B8	32	LEU
34	B8	37	SER
34	B8	43	GLN
37	BC	22	ILE
37	BC	47	LEU
37	BC	49	ILE
37	BC	54	SER
37	BC	68	LEU
37	BC	104	LEU
37	BC	126	LYS
37	BC	133	PRO
37	BC	140	PRO
37	BC	167	LYS
37	BC	173	ALA
37	BC	174	PRO
37	BC	184	LYS
37	BC	204	ALA
37	BC	222	VAL
38	BD	3	VAL
38	BD	8	PRO
38	BD	13	ARG
38	BD	22	SER
38	BD	25	THR
38	BD	28	GLU
38	BD	32	SER
38	BD	45	ASN
38	BD	58	HIS
38	BD	135	PHE

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Mol	Chain	Res	Type
38	BD	159	ALA
38	BD	204	ILE
38	BD	216	GLY
38	BD	223	GLY
38	BD	224	ALA
38	BD	228	PRO
38	BD	241	PRO
38	BD	262	ARG
38	BD	263	ARG
38	BD	266	SER
38	BD	272	ALA
39	BE	2	LYS
39	BE	4	ILE
39	BE	45	THR
39	BE	53	PRO
39	BE	57	LYS
39	BE	61	ARG
39	BE	66	HIS
39	BE	77	ILE
39	BE	82	ARG
39	BE	88	GLY
39	BE	90	THR
39	BE	93	VAL
39	BE	122	PHE
39	BE	129	HIS
39	BE	182	LEU
39	BE	186	GLY
40	BF	2	LYS
40	BF	6	VAL
40	BF	10	PRO
40	BF	21	ALA
40	BF	40	GLN
40	BF	57	VAL
40	BF	60	SER
40	BF	66	PRO
40	BF	72	ARG
40	BF	73	ALA
40	BF	85	GLY
40	BF	89	VAL
40	BF	184	TYR
41	BG	3	LEU
41	BG	48	GLU

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Mol	Chain	Res	Type
41	BG	53	LEU
41	BG	81	LYS
41	BG	82	LEU
41	BG	84	LYS
41	BG	86	MET
41	BG	87	PRO
41	BG	90	LEU
41	BG	110	ALA
41	BG	145	THR
41	BG	151	ALA
41	BG	171	ALA
41	BG	172	LEU
42	BH	13	LYS
42	BH	44	VAL
42	BH	71	LEU
42	BH	85	LYS
42	BH	89	ILE
42	BH	92	ILE
42	BH	137	ASP
42	BH	138	LYS
42	BH	151	ILE
42	BH	155	SER
42	BH	156	ALA
42	BH	159	GLU
42	BH	160	LYS
42	BH	165	ALA
43	BI	15	VAL
43	BI	81	VAL
43	BI	86	THR
43	BI	88	ILE
43	BI	91	SER
43	BI	133	HIS
43	BI	145	VAL
44	BN	8	GLN
44	BN	44	PRO
44	BN	47	ALA
44	BN	52	VAL
44	BN	58	ASP
44	BN	74	ARG
44	BN	78	TYR
44	BN	127	ASP
44	BN	130	HIS

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Mol	Chain	Res	Type
44	BN	133	GLN
45	BO	14	THR
45	BO	35	VAL
45	BO	48	PRO
45	BO	102	VAL
45	BO	112	MET
46	BP	15	ARG
46	BP	17	LYS
46	BP	18	ARG
46	BP	31	ALA
46	BP	35	HIS
46	BP	46	LYS
46	BP	49	ARG
46	BP	64	LYS
46	BP	65	ARG
46	BP	67	MET
46	BP	111	ARG
46	BP	146	VAL
46	BP	147	LEU
47	BQ	7	MET
47	BQ	11	LYS
47	BQ	12	GLN
47	BQ	25	ASP
47	BQ	66	ILE
47	BQ	71	ASP
47	BQ	88	GLY
47	BQ	103	MET
47	BQ	134	ARG
47	BQ	136	ALA
47	BQ	138	ASP
48	BR	7	GLY
48	BR	8	ARG
48	BR	12	ARG
48	BR	14	SER
48	BR	16	HIS
48	BR	29	LEU
48	BR	45	ARG
48	BR	71	GLN
48	BR	86	ARG
48	BR	117	VAL
49	BS	17	ARG
49	BS	24	LEU

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Mol	Chain	Res	Type
49	BS	33	LYS
49	BS	42	ASP
49	BS	56	LEU
49	BS	59	LYS
49	BS	74	ALA
49	BS	83	LYS
49	BS	84	GLN
49	BS	92	TYR
49	BS	93	LYS
49	BS	96	GLY
49	BS	100	ALA
49	BS	102	ALA
49	BS	105	ALA
50	BT	18	ASP
50	BT	20	PRO
50	BT	24	PRO
50	BT	28	VAL
50	BT	30	VAL
50	BT	32	TYR
50	BT	33	LYS
50	BT	41	ARG
50	BT	57	PHE
50	BT	80	SER
50	BT	83	ILE
50	BT	97	ALA
50	BT	107	ASP
51	BU	5	LYS
51	BU	7	GLY
51	BU	8	VAL
51	BU	9	VAL
51	BU	45	TYR
51	BU	53	ARG
51	BU	93	LYS
51	BU	97	ASP
52	BV	19	LYS
52	BV	23	GLU
52	BV	24	LYS
52	BV	28	GLU
52	BV	50	PRO
52	BV	51	VAL
52	BV	57	VAL
52	BV	59	ALA

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Mol	Chain	Res	Type
52	BV	73	SER
52	BV	98	GLU
53	BW	11	ARG
53	BW	63	ASP
53	BW	75	TYR
53	BW	93	ALA
53	BW	111	HIS
54	BX	6	ASP
54	BX	26	TYR
54	BX	36	LYS
54	BX	53	LYS
54	BX	59	VAL
54	BX	60	ARG
54	BX	62	LYS
54	BX	65	ARG
54	BX	73	ARG
54	BX	84	ALA
55	BY	3	VAL
55	BY	7	VAL
55	BY	16	ALA
55	BY	38	ILE
55	BY	44	ILE
55	BY	55	TYR
55	BY	56	PRO
55	BY	66	PRO
55	BY	74	PRO
55	BY	75	ILE
55	BY	76	CYS
55	BY	78	ALA
55	BY	90	LEU
55	BY	96	ILE
55	BY	101	LYS
56	BZ	8	TYR
56	BZ	30	ASN
56	BZ	48	PHE
56	BZ	77	ASP
56	BZ	78	LYS
56	BZ	81	ARG
56	BZ	93	ASP
56	BZ	100	VAL
56	BZ	111	VAL
56	BZ	113	ALA

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Mol	Chain	Res	Type
56	BZ	128	VAL
56	BZ	135	GLU
56	BZ	149	SER
56	BZ	153	SER
56	BZ	163	LEU
56	BZ	166	SER
56	BZ	168	GLU
2	CB	20	GLU
2	CB	22	LYS
2	CB	23	ARG
2	CB	29	ALA
2	CB	30	ARG
2	CB	37	ASN
2	CB	75	LYS
2	CB	77	ALA
2	CB	88	ALA
2	CB	154	LEU
2	CB	165	VAL
2	CB	167	PRO
2	CB	168	THR
2	CB	191	ASP
2	CB	194	PRO
2	CB	202	PRO
2	CB	204	ASN
2	CB	209	ARG
2	CB	229	VAL
2	CB	238	LEU
2	CB	239	VAL
3	CC	4	LYS
3	CC	12	LEU
3	CC	53	ALA
3	CC	61	ALA
3	CC	157	ILE
3	CC	172	ARG
3	CC	174	PRO
3	CC	191	THR
3	CC	207	VAL
4	CD	4	TYR
4	CD	5	ILE
4	CD	6	GLY
4	CD	9	CYS
4	CD	14	ARG

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Mol	Chain	Res	Type
4	CD	24	GLU
4	CD	28	SER
4	CD	119	GLN
4	CD	128	VAL
4	CD	149	ALA
4	CD	150	GLU
4	CD	163	GLU
4	CD	164	ALA
4	CD	177	ASP
4	CD	191	ARG
5	CE	37	ARG
5	CE	129	ILE
6	CF	13	ASN
6	CF	69	GLU
6	CF	70	ASP
6	CF	72	VAL
7	CG	31	MET
7	CG	39	ALA
7	CG	153	HIS
8	CH	18	ARG
8	CH	22	GLU
8	CH	29	SER
8	CH	97	VAL
8	CH	129	VAL
9	CI	12	GLU
9	CI	29	ASN
9	CI	117	HIS
9	CI	120	ARG
10	CJ	33	GLN
10	CJ	57	LYS
10	CJ	91	PRO
11	CK	27	ASN
11	CK	103	LEU
11	CK	105	VAL
11	CK	106	LYS
12	CL	10	LEU
12	CL	23	LYS
12	CL	28	LYS
12	CL	47	LYS
12	CL	48	PRO
12	CL	62	SER
13	CM	4	ILE

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Mol	Chain	Res	Type
13	CM	11	ARG
13	CM	60	VAL
13	CM	68	GLY
13	CM	90	LEU
13	CM	117	VAL
14	CN	22	THR
14	CN	23	ARG
15	CO	16	ALA
17	CQ	49	GLU
17	CQ	74	LEU
17	CQ	93	GLN
18	CR	20	ALA
18	CR	37	VAL
18	CR	45	SER
19	CS	10	PHE
19	CS	67	VAL
19	CS	80	TYR
19	CS	81	ARG
20	CT	28	ALA
20	CT	49	ALA
20	CT	63	ILE
20	CT	64	ASP
25	CY	19	GLU
25	CY	30	THR
25	CY	52	LEU
25	CY	53	ASN
25	CY	87	ASP
25	CY	120	GLN
25	CY	132	ILE
25	CY	150	SER
25	CY	166	ASP
26	D0	17	GLN
26	D0	55	ARG
26	D0	84	LEU
27	D1	12	PRO
27	D1	15	ALA
27	D1	26	ARG
27	D1	33	LYS
27	D1	53	VAL
27	D1	57	GLU
27	D1	63	ALA
28	D2	14	ARG

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Mol	Chain	Res	Type
28	D2	15	LYS
28	D2	28	LYS
28	D2	50	ILE
28	D2	51	ARG
29	D3	3	ARG
29	D3	13	ILE
29	D3	31	LEU
29	D3	51	ALA
29	D3	52	HIS
29	D3	56	VAL
29	D3	57	GLU
30	D4	6	HIS
30	D4	7	PRO
30	D4	10	VAL
30	D4	13	ARG
30	D4	14	ILE
30	D4	23	GLU
30	D4	29	PRO
30	D4	35	VAL
30	D4	47	GLN
31	D5	21	SER
31	D5	22	HIS
31	D5	32	PRO
31	D5	33	CYS
31	D5	34	PRO
31	D5	35	GLU
31	D5	57	VAL
32	D6	16	CYS
32	D6	31	PRO
32	D6	44	ARG
32	D6	45	LYS
33	D7	18	PHE
33	D7	46	VAL
34	D8	4	MET
34	D8	25	MET
34	D8	32	LEU
34	D8	37	SER
34	D8	43	GLN
37	DC	22	ILE
37	DC	47	LEU
37	DC	49	ILE
37	DC	54	SER

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Mol	Chain	Res	Type
37	DC	68	LEU
37	DC	104	LEU
37	DC	126	LYS
37	DC	133	PRO
37	DC	140	PRO
37	DC	167	LYS
37	DC	173	ALA
37	DC	174	PRO
37	DC	184	LYS
37	DC	204	ALA
37	DC	222	VAL
38	DD	3	VAL
38	DD	8	PRO
38	DD	13	ARG
38	DD	22	SER
38	DD	25	THR
38	DD	28	GLU
38	DD	32	SER
38	DD	45	ASN
38	DD	53	PHE
38	DD	58	HIS
38	DD	135	PHE
38	DD	159	ALA
38	DD	204	ILE
38	DD	216	GLY
38	DD	223	GLY
38	DD	224	ALA
38	DD	228	PRO
38	DD	241	PRO
38	DD	262	ARG
38	DD	263	ARG
38	DD	266	SER
38	DD	272	ALA
39	DE	2	LYS
39	DE	4	ILE
39	DE	45	THR
39	DE	53	PRO
39	DE	57	LYS
39	DE	61	ARG
39	DE	66	HIS
39	DE	77	ILE
39	DE	82	ARG

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Mol	Chain	Res	Type
39	DE	88	GLY
39	DE	90	THR
39	DE	93	VAL
39	DE	122	PHE
39	DE	129	HIS
39	DE	182	LEU
39	DE	186	GLY
40	DF	2	LYS
40	DF	6	VAL
40	DF	10	PRO
40	DF	21	ALA
40	DF	40	GLN
40	DF	57	VAL
40	DF	60	SER
40	DF	66	PRO
40	DF	72	ARG
40	DF	73	ALA
40	DF	85	GLY
40	DF	89	VAL
40	DF	184	TYR
41	DG	3	LEU
41	DG	6	ALA
41	DG	12	TYR
41	DG	48	GLU
41	DG	50	ALA
41	DG	53	LEU
41	DG	77	ILE
41	DG	82	LEU
41	DG	84	LYS
41	DG	86	MET
41	DG	104	GLU
41	DG	111	LEU
41	DG	122	PRO
41	DG	123	ASN
41	DG	130	ASN
41	DG	142	PRO
41	DG	143	GLU
41	DG	150	ASP
41	DG	157	ILE
41	DG	163	ALA
41	DG	172	LEU
42	DH	13	LYS

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Mol	Chain	Res	Type
42	DH	44	VAL
42	DH	71	LEU
42	DH	85	LYS
42	DH	89	ILE
42	DH	92	ILE
42	DH	137	ASP
42	DH	138	LYS
42	DH	151	ILE
42	DH	155	SER
42	DH	156	ALA
42	DH	159	GLU
42	DH	160	LYS
42	DH	165	ALA
43	DI	15	VAL
43	DI	81	VAL
43	DI	86	THR
43	DI	88	ILE
43	DI	91	SER
43	DI	133	HIS
43	DI	145	VAL
44	DN	8	GLN
44	DN	44	PRO
44	DN	47	ALA
44	DN	52	VAL
44	DN	58	ASP
44	DN	74	ARG
44	DN	78	TYR
44	DN	127	ASP
44	DN	130	HIS
44	DN	133	GLN
45	DO	14	THR
45	DO	35	VAL
45	DO	48	PRO
45	DO	102	VAL
45	DO	112	MET
46	DP	15	ARG
46	DP	17	LYS
46	DP	18	ARG
46	DP	31	ALA
46	DP	35	HIS
46	DP	46	LYS
46	DP	49	ARG

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Mol	Chain	Res	Type
46	DP	64	LYS
46	DP	65	ARG
46	DP	67	MET
46	DP	111	ARG
46	DP	146	VAL
46	DP	147	LEU
47	DQ	7	MET
47	DQ	11	LYS
47	DQ	12	GLN
47	DQ	25	ASP
47	DQ	66	ILE
47	DQ	71	ASP
47	DQ	88	GLY
47	DQ	103	MET
47	DQ	134	ARG
47	DQ	136	ALA
47	DQ	138	ASP
48	DR	7	GLY
48	DR	8	ARG
48	DR	12	ARG
48	DR	14	SER
48	DR	16	HIS
48	DR	29	LEU
48	DR	45	ARG
48	DR	71	GLN
48	DR	86	ARG
48	DR	117	VAL
49	DS	17	ARG
49	DS	24	LEU
49	DS	33	LYS
49	DS	42	ASP
49	DS	56	LEU
49	DS	59	LYS
49	DS	74	ALA
49	DS	83	LYS
49	DS	84	GLN
49	DS	92	TYR
49	DS	93	LYS
49	DS	96	GLY
49	DS	100	ALA
49	DS	102	ALA
49	DS	105	ALA

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Mol	Chain	Res	Type
50	DT	18	ASP
50	DT	20	PRO
50	DT	24	PRO
50	DT	28	VAL
50	DT	30	VAL
50	DT	32	TYR
50	DT	33	LYS
50	DT	41	ARG
50	DT	57	PHE
50	DT	80	SER
50	DT	83	ILE
50	DT	97	ALA
50	DT	107	ASP
51	DU	5	LYS
51	DU	7	GLY
51	DU	8	VAL
51	DU	9	VAL
51	DU	22	LYS
51	DU	45	TYR
51	DU	53	ARG
51	DU	93	LYS
51	DU	97	ASP
52	DV	19	LYS
52	DV	23	GLU
52	DV	24	LYS
52	DV	28	GLU
52	DV	50	PRO
52	DV	51	VAL
52	DV	57	VAL
52	DV	59	ALA
52	DV	73	SER
52	DV	98	GLU
53	DW	11	ARG
53	DW	63	ASP
53	DW	75	TYR
53	DW	93	ALA
53	DW	111	HIS
54	DX	6	ASP
54	DX	26	TYR
54	DX	37	THR
54	DX	53	LYS
54	DX	59	VAL

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Mol	Chain	Res	Type
54	DX	60	ARG
54	DX	62	LYS
54	DX	65	ARG
54	DX	73	ARG
54	DX	84	ALA
55	DY	3	VAL
55	DY	7	VAL
55	DY	16	ALA
55	DY	38	ILE
55	DY	44	ILE
55	DY	55	TYR
55	DY	56	PRO
55	DY	64	GLU
55	DY	66	PRO
55	DY	74	PRO
55	DY	75	ILE
55	DY	76	CYS
55	DY	78	ALA
55	DY	90	LEU
55	DY	96	ILE
55	DY	101	LYS
56	DZ	30	ASN
56	DZ	33	LEU
56	DZ	78	LYS
56	DZ	101	PRO
56	DZ	111	VAL
56	DZ	135	GLU
56	DZ	142	SER
56	DZ	148	ASP
56	DZ	149	SER
56	DZ	152	ALA
56	DZ	166	SER
56	DZ	169	GLU
2	AB	18	GLY
2	AB	23	ARG
2	AB	32	ILE
2	AB	45	GLN
2	AB	52	GLU
2	AB	64	ARG
2	AB	78	GLN
2	AB	84	GLU
2	AB	100	GLY

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Mol	Chain	Res	Type
2	AB	105	PHE
2	AB	160	ASP
2	AB	204	ASN
2	AB	235	SER
3	AC	5	ILE
3	AC	18	TRP
3	AC	38	ARG
3	AC	47	LEU
3	AC	52	LEU
3	AC	54	ARG
3	AC	74	GLY
3	AC	127	ARG
3	AC	164	ARG
3	AC	181	ASN
3	AC	189	ALA
4	AD	3	ARG
4	AD	15	GLU
4	AD	30	LYS
4	AD	44	GLY
4	AD	47	ARG
4	AD	57	ARG
4	AD	60	GLU
4	AD	89	THR
4	AD	132	ARG
4	AD	159	ARG
5	AE	27	ARG
5	AE	38	GLN
5	AE	85	GLY
5	AE	86	ALA
5	AE	113	ALA
5	AE	130	ASN
5	AE	146	ALA
6	AF	62	TRP
6	AF	80	ARG
6	AF	84	ASN
7	AG	7	ALA
7	AG	105	VAL
8	AH	64	LYS
9	AI	12	GLU
9	AI	40	LEU
9	AI	100	GLY
10	AJ	23	ILE

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Mol	Chain	Res	Type
10	AJ	36	GLY
10	AJ	59	SER
10	AJ	84	GLN
10	AJ	86	MET
11	AK	16	SER
11	AK	25	TYR
11	AK	103	LEU
11	AK	106	LYS
12	AL	56	ALA
12	AL	83	VAL
12	AL	91	LYS
12	AL	96	VAL
12	AL	102	ARG
13	AM	67	GLU
13	AM	100	GLY
13	AM	107	ALA
13	AM	124	PRO
14	AN	16	PHE
14	AN	52	GLN
15	AO	26	GLU
15	AO	65	ARG
15	AO	73	GLU
16	AP	28	ARG
16	AP	53	VAL
16	AP	63	GLY
17	AQ	33	GLY
17	AQ	80	GLY
18	AR	31	LEU
18	AR	59	SER
18	AR	85	LEU
18	AR	86	VAL
19	AS	26	GLY
19	AS	53	ASN
19	AS	70	LYS
20	AT	25	ARG
20	AT	42	GLN
20	AT	78	ALA
20	AT	99	LEU
20	AT	102	GLY
21	AU	9	ARG
25	AY	30	THR
25	AY	71	TRP

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Mol	Chain	Res	Type
26	B0	4	LYS
26	B0	11	ARG
26	B0	20	ARG
27	B1	10	LYS
27	B1	28	GLY
27	B1	47	GLN
27	B1	64	ALA
27	B1	66	HIS
27	B1	71	TYR
27	B1	82	LEU
28	B2	15	LYS
28	B2	36	ARG
28	B2	41	ILE
28	B2	57	ILE
28	B2	60	LEU
29	B3	27	GLY
30	B4	3	GLU
30	B4	16	CYS
30	B4	31	ILE
31	B5	12	SER
31	B5	49	CYS
31	B5	51	TYR
32	B6	49	HIS
32	B6	52	VAL
33	B7	36	GLN
34	B8	7	HIS
34	B8	35	GLN
37	BC	35	ALA
37	BC	36	LYS
37	BC	77	ILE
37	BC	78	ALA
37	BC	106	ALA
37	BC	134	ARG
37	BC	135	GLY
37	BC	141	LYS
37	BC	147	PHE
37	BC	171	ILE
37	BC	215	THR
37	BC	217	THR
38	BD	26	LYS
38	BD	53	PHE
38	BD	57	GLY

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Mol	Chain	Res	Type
38	BD	70	TRP
38	BD	125	ILE
38	BD	134	ARG
38	BD	156	ALA
38	BD	202	LYS
38	BD	234	GLY
38	BD	239	ARG
38	BD	265	PRO
38	BD	268	ARG
39	BE	30	PRO
39	BE	54	GLN
39	BE	56	PRO
39	BE	60	ASN
39	BE	73	GLU
39	BE	84	PHE
39	BE	92	THR
39	BE	121	ASN
39	BE	144	ARG
39	BE	164	ARG
39	BE	169	ASN
39	BE	174	ASP
39	BE	185	LYS
39	BE	189	PRO
39	BE	191	PRO
40	BF	22	ALA
40	BF	59	TYR
40	BF	64	ILE
40	BF	68	LYS
40	BF	69	HIS
40	BF	70	THR
40	BF	86	GLY
40	BF	103	LYS
40	BF	111	ALA
40	BF	122	LYS
40	BF	127	GLU
40	BF	134	GLY
40	BF	165	ARG
40	BF	172	TRP
40	BF	178	PRO
41	BG	5	VAL
41	BG	14	GLU
41	BG	45	GLU

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Mol	Chain	Res	Type
41	BG	61	ALA
41	BG	68	PRO
41	BG	96	ARG
41	BG	127	GLY
41	BG	129	GLY
41	BG	143	GLU
42	BH	14	GLY
42	BH	16	SER
42	BH	90	LYS
42	BH	100	GLY
42	BH	141	VAL
42	BH	146	ALA
42	BH	147	ASN
42	BH	148	ILE
43	BI	74	ASN
43	BI	82	ARG
43	BI	111	PRO
43	BI	112	LYS
44	BN	4	TYR
44	BN	9	VAL
44	BN	42	TRP
44	BN	45	ASN
44	BN	60	ILE
44	BN	61	ARG
44	BN	64	GLY
44	BN	83	LYS
44	BN	98	VAL
44	BN	108	PRO
44	BN	109	LYS
45	BO	27	GLY
45	BO	44	LYS
45	BO	80	ASP
45	BO	81	ASP
46	BP	34	GLY
46	BP	38	GLN
46	BP	39	LYS
46	BP	42	SER
46	BP	56	SER
46	BP	66	GLY
46	BP	102	ARG
46	BP	107	LYS
46	BP	108	LYS

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Mol	Chain	Res	Type
47	BQ	62	GLY
48	BR	9	LYS
48	BR	10	LEU
48	BR	42	LYS
48	BR	49	ASP
48	BR	82	GLU
48	BR	105	ARG
48	BR	107	ASP
49	BS	32	LEU
49	BS	62	LYS
49	BS	85	VAL
49	BS	89	ARG
49	BS	94	TYR
49	BS	98	VAL
50	BT	52	ILE
50	BT	81	PRO
50	BT	84	GLN
50	BT	92	GLY
50	BT	101	PHE
50	BT	115	ARG
50	BT	136	GLN
51	BU	22	LYS
51	BU	24	TYR
51	BU	32	PHE
51	BU	60	LEU
51	BU	62	ILE
51	BU	65	ILE
51	BU	79	PHE
52	BV	17	GLY
52	BV	36	PRO
52	BV	41	GLY
52	BV	44	LYS
52	BV	46	VAL
52	BV	47	VAL
52	BV	64	HIS
52	BV	68	LYS
52	BV	69	LYS
52	BV	79	VAL
52	BV	86	GLY
52	BV	91	TYR
53	BW	6	ILE
53	BW	18	ARG

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Mol	Chain	Res	Type
53	BW	25	ARG
53	BW	35	ILE
53	BW	60	ASN
54	BX	7	VAL
54	BX	24	GLY
54	BX	37	THR
54	BX	49	VAL
54	BX	68	ARG
54	BX	69	TYR
54	BX	76	ARG
54	BX	81	VAL
54	BX	88	LYS
55	BY	29	GLU
55	BY	64	GLU
55	BY	67	LEU
56	BZ	41	LEU
56	BZ	52	SER
56	BZ	62	PRO
56	BZ	63	ASP
56	BZ	66	SER
56	BZ	98	MET
56	BZ	101	PRO
56	BZ	109	ALA
56	BZ	115	GLY
56	BZ	138	GLU
56	BZ	140	ASP
56	BZ	147	GLY
56	BZ	148	ASP
56	BZ	165	VAL
56	BZ	177	PRO
2	CB	18	GLY
2	CB	32	ILE
2	CB	45	GLN
2	CB	52	GLU
2	CB	64	ARG
2	CB	78	GLN
2	CB	84	GLU
2	CB	100	GLY
2	CB	160	ASP
2	CB	235	SER
3	CC	5	ILE
3	CC	18	TRP

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Mol	Chain	Res	Type
3	CC	47	LEU
3	CC	52	LEU
3	CC	54	ARG
3	CC	74	GLY
3	CC	127	ARG
3	CC	160	ALA
3	CC	164	ARG
3	CC	181	ASN
4	CD	3	ARG
4	CD	10	ARG
4	CD	15	GLU
4	CD	30	LYS
4	CD	44	GLY
4	CD	47	ARG
4	CD	57	ARG
4	CD	59	ARG
4	CD	60	GLU
4	CD	89	THR
4	CD	97	LEU
4	CD	132	ARG
4	CD	159	ARG
4	CD	193	ASP
5	CE	27	ARG
5	CE	49	PRO
5	CE	85	GLY
5	CE	86	ALA
5	CE	130	ASN
5	CE	146	ALA
6	CF	62	TRP
6	CF	80	ARG
6	CF	84	ASN
7	CG	7	ALA
7	CG	105	VAL
7	CG	120	ILE
7	CG	149	ARG
8	CH	17	THR
8	CH	64	LYS
9	CI	40	LEU
9	CI	100	GLY
10	CJ	23	ILE
10	CJ	36	GLY
10	CJ	59	SER

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Mol	Chain	Res	Type
10	CJ	84	GLN
10	CJ	86	MET
11	CK	16	SER
11	CK	25	TYR
11	CK	26	ASN
11	CK	63	LEU
12	CL	56	ALA
12	CL	83	VAL
12	CL	91	LYS
12	CL	96	VAL
12	CL	102	ARG
12	CL	123	LYS
13	CM	83	ASP
13	CM	100	GLY
13	CM	107	ALA
13	CM	124	PRO
14	CN	16	PHE
14	CN	52	GLN
15	CO	26	GLU
15	CO	65	ARG
15	CO	73	GLU
16	CP	28	ARG
16	CP	53	VAL
16	CP	63	GLY
17	CQ	4	LYS
17	CQ	33	GLY
17	CQ	80	GLY
17	CQ	81	ARG
17	CQ	96	GLU
18	CR	31	LEU
18	CR	41	LYS
18	CR	59	SER
18	CR	85	LEU
18	CR	86	VAL
19	CS	26	GLY
19	CS	53	ASN
19	CS	70	LYS
20	CT	25	ARG
20	CT	42	GLN
20	CT	78	ALA
20	CT	99	LEU
20	CT	102	GLY

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Mol	Chain	Res	Type
25	CY	23	HIS
25	CY	24	ASN
25	CY	29	ARG
25	CY	39	LEU
25	CY	63	PRO
25	CY	64	ARG
25	CY	83	ILE
25	CY	107	THR
25	CY	109	GLU
25	CY	126	ARG
25	CY	127	VAL
25	CY	161	ILE
25	CY	165	THR
25	CY	174	GLN
26	D0	4	LYS
26	D0	11	ARG
26	D0	20	ARG
27	D1	13	ILE
27	D1	34	THR
27	D1	38	SER
27	D1	49	VAL
27	D1	56	GLN
27	D1	68	PRO
27	D1	69	LYS
27	D1	77	ALA
27	D1	79	GLY
27	D1	82	LEU
27	D1	87	PRO
27	D1	89	GLU
28	D2	21	LEU
28	D2	40	SER
28	D2	41	ILE
28	D2	53	LEU
28	D2	60	LEU
29	D3	27	GLY
30	D4	3	GLU
30	D4	16	CYS
30	D4	31	ILE
31	D5	12	SER
31	D5	49	CYS
31	D5	51	TYR
32	D6	49	HIS

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Mol	Chain	Res	Type
32	D6	52	VAL
33	D7	36	GLN
34	D8	7	HIS
34	D8	35	GLN
37	DC	35	ALA
37	DC	36	LYS
37	DC	52	ARG
37	DC	77	ILE
37	DC	78	ALA
37	DC	106	ALA
37	DC	125	SER
37	DC	134	ARG
37	DC	135	GLY
37	DC	141	LYS
37	DC	147	PHE
37	DC	171	ILE
37	DC	215	THR
37	DC	217	THR
38	DD	26	LYS
38	DD	57	GLY
38	DD	70	TRP
38	DD	125	ILE
38	DD	134	ARG
38	DD	156	ALA
38	DD	200	ASP
38	DD	202	LYS
38	DD	206	LEU
38	DD	234	GLY
38	DD	239	ARG
38	DD	265	PRO
38	DD	268	ARG
39	DE	30	PRO
39	DE	54	GLN
39	DE	56	PRO
39	DE	73	GLU
39	DE	84	PHE
39	DE	89	ASP
39	DE	92	THR
39	DE	121	ASN
39	DE	144	ARG
39	DE	164	ARG
39	DE	169	ASN

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Mol	Chain	Res	Type
39	DE	174	ASP
39	DE	185	LYS
39	DE	189	PRO
39	DE	191	PRO
40	DF	22	ALA
40	DF	59	TYR
40	DF	68	LYS
40	DF	69	HIS
40	DF	70	THR
40	DF	86	GLY
40	DF	103	LYS
40	DF	111	ALA
40	DF	122	LYS
40	DF	127	GLU
40	DF	134	GLY
40	DF	165	ARG
40	DF	172	TRP
40	DF	178	PRO
41	DG	5	VAL
41	DG	46	ALA
41	DG	81	LYS
41	DG	105	LYS
41	DG	107	LEU
41	DG	129	GLY
41	DG	139	LEU
41	DG	151	ALA
41	DG	164	GLU
42	DH	14	GLY
42	DH	16	SER
42	DH	90	LYS
42	DH	100	GLY
42	DH	141	VAL
42	DH	146	ALA
42	DH	147	ASN
43	DI	74	ASN
43	DI	82	ARG
43	DI	111	PRO
43	DI	112	LYS
44	DN	4	TYR
44	DN	9	VAL
44	DN	14	VAL
44	DN	42	TRP

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Mol	Chain	Res	Type
44	DN	45	ASN
44	DN	60	ILE
44	DN	61	ARG
44	DN	64	GLY
44	DN	83	LYS
44	DN	98	VAL
44	DN	108	PRO
44	DN	109	LYS
45	DO	44	LYS
45	DO	80	ASP
45	DO	81	ASP
46	DP	34	GLY
46	DP	37	GLY
46	DP	38	GLN
46	DP	39	LYS
46	DP	42	SER
46	DP	56	SER
46	DP	66	GLY
46	DP	102	ARG
46	DP	107	LYS
46	DP	108	LYS
46	DP	122	PRO
47	DQ	62	GLY
47	DQ	90	VAL
48	DR	9	LYS
48	DR	10	LEU
48	DR	15	SER
48	DR	42	LYS
48	DR	49	ASP
48	DR	68	ARG
48	DR	82	GLU
49	DS	32	LEU
49	DS	62	LYS
49	DS	89	ARG
49	DS	94	TYR
49	DS	98	VAL
50	DT	52	ILE
50	DT	81	PRO
50	DT	84	GLN
50	DT	92	GLY
50	DT	101	PHE
50	DT	115	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
50	DT	136	GLN
51	DU	24	TYR
51	DU	32	PHE
51	DU	60	LEU
51	DU	62	ILE
51	DU	65	ILE
51	DU	79	PHE
52	DV	17	GLY
52	DV	36	PRO
52	DV	41	GLY
52	DV	44	LYS
52	DV	46	VAL
52	DV	47	VAL
52	DV	64	HIS
52	DV	68	LYS
52	DV	69	LYS
52	DV	72	VAL
52	DV	79	VAL
52	DV	86	GLY
52	DV	91	TYR
53	DW	6	ILE
53	DW	25	ARG
53	DW	35	ILE
53	DW	60	ASN
54	DX	24	GLY
54	DX	36	LYS
54	DX	49	VAL
54	DX	68	ARG
54	DX	69	TYR
54	DX	76	ARG
54	DX	81	VAL
54	DX	82	GLN
54	DX	88	LYS
55	DY	67	LEU
56	DZ	45	ASP
56	DZ	65	GLN
56	DZ	108	PRO
56	DZ	115	GLY
56	DZ	121	HIS
56	DZ	147	GLY
56	DZ	163	LEU
56	DZ	171	ILE

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Mol	Chain	Res	Type
2	AB	83	MET
2	AB	106	LYS
2	AB	133	LYS
2	AB	135	GLN
2	AB	143	GLU
2	AB	176	GLU
2	AB	178	ARG
2	AB	195	ASP
2	AB	213	LEU
3	AC	60	ALA
3	AC	107	GLN
3	AC	117	ALA
3	AC	145	GLY
3	AC	160	ALA
4	AD	10	ARG
4	AD	29	PRO
4	AD	43	HIS
4	AD	59	ARG
4	AD	64	LEU
4	AD	97	LEU
4	AD	101	LEU
4	AD	147	ALA
4	AD	153	ARG
4	AD	193	ASP
5	AE	49	PRO
5	AE	73	ASN
5	AE	96	PRO
5	AE	132	ALA
6	AF	17	SER
6	AF	29	ALA
6	AF	71	ARG
7	AG	14	PRO
7	AG	40	ALA
7	AG	65	ALA
7	AG	100	ALA
7	AG	120	ILE
7	AG	149	ARG
8	AH	3	THR
8	AH	6	ILE
8	AH	37	ARG
8	AH	41	ARG
8	AH	68	ARG

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Mol	Chain	Res	Type
8	AH	121	ASP
9	AI	94	ALA
11	AK	26	ASN
11	AK	63	LEU
11	AK	100	ALA
11	AK	124	LYS
11	AK	126	ARG
12	AL	46	LYS
12	AL	79	GLU
12	AL	123	LYS
13	AM	61	GLU
13	AM	102	ARG
14	AN	5	ALA
14	AN	35	ARG
15	AO	13	GLN
15	AO	37	ASN
16	AP	13	HIS
16	AP	73	LEU
16	AP	81	ARG
16	AP	83	GLU
17	AQ	4	LYS
17	AQ	78	GLU
17	AQ	87	LYS
18	AR	41	LYS
18	AR	43	PHE
18	AR	82	THR
19	AS	44	MET
20	AT	12	ALA
20	AT	95	ALA
20	AT	96	GLY
20	AT	97	ALA
21	AU	12	LYS
25	AY	39	LEU
25	AY	53	ASN
25	AY	64	ARG
25	AY	87	ASP
25	AY	88	LEU
25	AY	92	PRO
25	AY	143	LEU
25	AY	184	LEU
26	B0	2	ALA
27	B1	56	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
29	B3	29	ARG
30	B4	44	THR
31	B5	58	LEU
33	B7	19	ARG
33	B7	32	LYS
34	B8	13	ARG
34	B8	36	LYS
34	B8	51	ALA
34	B8	64	TYR
37	BC	24	GLU
37	BC	51	PRO
37	BC	52	ARG
37	BC	125	SER
37	BC	146	GLY
37	BC	153	ILE
37	BC	172	HIS
37	BC	183	GLU
37	BC	201	PRO
37	BC	211	SER
37	BC	214	VAL
38	BD	89	SER
38	BD	115	GLN
38	BD	200	ASP
38	BD	206	LEU
38	BD	214	TRP
39	BE	43	GLY
39	BE	44	TYR
39	BE	89	ASP
39	BE	162	ALA
39	BE	180	ASN
40	BF	14	PRO
40	BF	33	LEU
40	BF	61	GLY
40	BF	115	ALA
40	BF	132	VAL
40	BF	133	ASN
40	BF	179	GLU
41	BG	25	TYR
41	BG	43	LEU
41	BG	117	PHE
41	BG	157	ILE
41	BG	175	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
42	BH	39	PRO
42	BH	152	ARG
42	BH	153	LYS
42	BH	154	PRO
43	BI	6	LEU
43	BI	40	THR
43	BI	85	GLU
43	BI	104	GLN
43	BI	120	ILE
44	BN	14	VAL
44	BN	18	ALA
44	BN	46	VAL
44	BN	57	ALA
44	BN	80	GLY
44	BN	129	PRO
45	BO	36	GLY
45	BO	45	GLU
45	BO	68	GLU
45	BO	90	GLN
45	BO	114	ILE
46	BP	12	ALA
46	BP	33	ARG
46	BP	110	TYR
46	BP	120	ALA
46	BP	122	PRO
46	BP	129	ALA
46	BP	141	ALA
47	BQ	24	GLY
47	BQ	59	ARG
47	BQ	60	ARG
47	BQ	78	PRO
47	BQ	90	VAL
47	BQ	105	GLU
47	BQ	115	MET
47	BQ	140	ALA
48	BR	5	LYS
48	BR	15	SER
48	BR	17	ARG
48	BR	50	HIS
48	BR	60	LEU
48	BR	68	ARG
48	BR	88	ARG

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Mol	Chain	Res	Type
49	BS	43	GLU
49	BS	53	SER
49	BS	54	LEU
49	BS	61	ASN
49	BS	73	LEU
49	BS	78	LEU
49	BS	97	ARG
50	BT	23	ARG
50	BT	25	GLY
50	BT	131	ALA
51	BU	83	LEU
51	BU	88	ILE
51	BU	91	ASP
51	BU	92	ARG
52	BV	40	LEU
52	BV	42	GLY
52	BV	43	GLU
52	BV	48	GLY
52	BV	53	GLU
52	BV	72	VAL
52	BV	82	ARG
53	BW	14	PRO
53	BW	66	GLU
54	BX	82	GLN
54	BX	89	ILE
55	BY	23	ARG
55	BY	31	LEU
55	BY	39	VAL
55	BY	40	GLU
55	BY	99	CYS
56	BZ	83	PRO
56	BZ	126	VAL
56	BZ	130	PRO
56	BZ	141	VAL
2	CB	83	MET
2	CB	105	PHE
2	CB	106	LYS
2	CB	133	LYS
2	CB	135	GLN
2	CB	143	GLU
2	CB	176	GLU
2	CB	178	ARG

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Mol	Chain	Res	Type
2	CB	195	ASP
2	CB	213	LEU
3	CC	38	ARG
3	CC	60	ALA
3	CC	107	GLN
3	CC	117	ALA
3	CC	145	GLY
3	CC	179	ARG
3	CC	189	ALA
4	CD	29	PRO
4	CD	64	LEU
4	CD	101	LEU
4	CD	129	ASN
4	CD	147	ALA
5	CE	38	GLN
5	CE	73	ASN
5	CE	96	PRO
5	CE	113	ALA
5	CE	132	ALA
6	CF	17	SER
6	CF	29	ALA
6	CF	71	ARG
7	CG	14	PRO
7	CG	40	ALA
7	CG	65	ALA
7	CG	100	ALA
7	CG	119	ARG
7	CG	131	LYS
8	CH	3	THR
8	CH	6	ILE
8	CH	37	ARG
8	CH	41	ARG
8	CH	121	ASP
9	CI	94	ALA
11	CK	18	ARG
11	CK	66	LEU
11	CK	100	ALA
11	CK	124	LYS
11	CK	126	ARG
12	CL	79	GLU
13	CM	61	GLU
13	CM	67	GLU

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Mol	Chain	Res	Type
13	CM	102	ARG
14	CN	5	ALA
14	CN	35	ARG
15	CO	13	GLN
16	CP	13	HIS
16	CP	73	LEU
16	CP	81	ARG
17	CQ	17	LYS
17	CQ	78	GLU
17	CQ	87	LYS
18	CR	43	PHE
18	CR	82	THR
19	CS	44	MET
20	CT	57	ARG
20	CT	95	ALA
20	CT	97	ALA
21	CU	9	ARG
21	CU	12	LYS
25	CY	131	ASN
25	CY	134	ARG
25	CY	170	ALA
26	D0	2	ALA
28	D2	16	LEU
28	D2	36	ARG
29	D3	29	ARG
30	D4	44	THR
31	D5	14	ALA
31	D5	58	LEU
33	D7	32	LYS
34	D8	13	ARG
34	D8	36	LYS
34	D8	64	TYR
37	DC	24	GLU
37	DC	51	PRO
37	DC	146	GLY
37	DC	153	ILE
37	DC	172	HIS
37	DC	183	GLU
37	DC	201	PRO
37	DC	211	SER
38	DD	89	SER
38	DD	115	GLN

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Mol	Chain	Res	Type
38	DD	157	ARG
38	DD	214	TRP
39	DE	43	GLY
39	DE	44	TYR
39	DE	60	ASN
39	DE	113	PHE
39	DE	162	ALA
39	DE	180	ASN
40	DF	14	PRO
40	DF	33	LEU
40	DF	61	GLY
40	DF	90	PHE
40	DF	102	PRO
40	DF	115	ALA
40	DF	132	VAL
40	DF	133	ASN
41	DG	14	GLU
41	DG	175	LEU
42	DH	39	PRO
42	DH	134	SER
42	DH	152	ARG
42	DH	153	LYS
42	DH	154	PRO
43	DI	14	ASP
43	DI	40	THR
43	DI	85	GLU
43	DI	104	GLN
43	DI	115	ALA
43	DI	120	ILE
44	DN	18	ALA
44	DN	46	VAL
44	DN	57	ALA
44	DN	80	GLY
44	DN	129	PRO
45	DO	27	GLY
45	DO	36	GLY
45	DO	45	GLU
45	DO	55	GLY
45	DO	68	GLU
45	DO	90	GLN
46	DP	12	ALA
46	DP	110	TYR

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Mol	Chain	Res	Type
46	DP	120	ALA
46	DP	129	ALA
46	DP	141	ALA
47	DQ	24	GLY
47	DQ	52	VAL
47	DQ	59	ARG
47	DQ	60	ARG
47	DQ	78	PRO
47	DQ	105	GLU
47	DQ	115	MET
47	DQ	140	ALA
48	DR	5	LYS
48	DR	13	HIS
48	DR	17	ARG
48	DR	50	HIS
48	DR	60	LEU
48	DR	63	ARG
48	DR	88	ARG
48	DR	105	ARG
48	DR	107	ASP
49	DS	43	GLU
49	DS	53	SER
49	DS	54	LEU
49	DS	61	ASN
49	DS	73	LEU
49	DS	78	LEU
49	DS	85	VAL
50	DT	4	GLY
50	DT	25	GLY
50	DT	129	ARG
50	DT	131	ALA
51	DU	52	ARG
51	DU	83	LEU
51	DU	92	ARG
51	DU	99	ALA
52	DV	40	LEU
52	DV	42	GLY
52	DV	43	GLU
52	DV	48	GLY
52	DV	53	GLU
52	DV	90	PRO
53	DW	14	PRO

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Mol	Chain	Res	Type
53	DW	66	GLU
53	DW	67	ASP
54	DX	7	VAL
54	DX	72	LYS
54	DX	89	ILE
55	DY	8	LYS
55	DY	23	ARG
55	DY	29	GLU
55	DY	31	LEU
55	DY	40	GLU
55	DY	99	CYS
56	DZ	31	ARG
56	DZ	46	LYS
56	DZ	62	PRO
56	DZ	77	ASP
56	DZ	165	VAL
2	AB	97	TRP
2	AB	175	ARG
2	AB	217	ARG
3	AC	41	GLY
3	AC	179	ARG
4	AD	129	ASN
4	AD	142	PRO
5	AE	21	ALA
5	AE	70	PRO
5	AE	147	ASP
5	AE	154	GLY
6	AF	12	PRO
6	AF	22	GLU
6	AF	43	LEU
7	AG	58	PRO
7	AG	66	VAL
7	AG	104	LEU
7	AG	111	ARG
7	AG	119	ARG
7	AG	131	LYS
8	AH	54	ASP
9	AI	61	ALA
9	AI	89	ASN
9	AI	106	ALA
10	AJ	51	ARG
11	AK	18	ARG

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Mol	Chain	Res	Type
11	AK	66	LEU
11	AK	72	ALA
12	AL	105	TYR
13	AM	46	LYS
15	AO	29	VAL
16	AP	7	ALA
16	AP	29	ASP
16	AP	61	SER
16	AP	65	GLN
17	AQ	17	LYS
17	AQ	98	LEU
20	AT	24	LEU
20	AT	57	ARG
20	AT	65	LYS
25	AY	19	GLU
25	AY	171	LYS
25	AY	175	LEU
27	B1	12	PRO
27	B1	13	ILE
27	B1	85	LEU
28	B2	28	LYS
28	B2	43	GLN
30	B4	18	CYS
30	B4	40	HIS
31	B5	14	ALA
32	B6	23	THR
32	B6	28	ARG
33	B7	11	LYS
33	B7	33	ARG
34	B8	17	THR
34	B8	42	ARG
37	BC	73	ARG
37	BC	92	ASP
37	BC	151	GLU
37	BC	175	VAL
37	BC	185	LEU
37	BC	218	MET
38	BD	140	THR
38	BD	147	LEU
38	BD	211	ARG
39	BE	17	ASP
39	BE	64	LYS

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Mol	Chain	Res	Type
39	BE	130	GLY
40	BF	38	ARG
40	BF	84	VAL
40	BF	90	PHE
40	BF	102	PRO
40	BF	146	ALA
41	BG	26	GLN
41	BG	107	LEU
41	BG	173	LEU
41	BG	177	GLY
42	BH	15	VAL
42	BH	81	GLU
42	BH	98	LEU
42	BH	134	SER
42	BH	150	ALA
43	BI	14	ASP
43	BI	42	SER
43	BI	70	GLU
43	BI	75	LEU
43	BI	115	ALA
43	BI	132	PRO
44	BN	15	LEU
44	BN	56	ASN
44	BN	94	HIS
45	BO	5	GLN
45	BO	55	GLY
45	BO	108	GLU
45	BO	110	GLY
45	BO	120	GLU
46	BP	109	GLY
47	BQ	13	GLN
47	BQ	54	MET
48	BR	13	HIS
48	BR	63	ARG
48	BR	81	ASP
48	BR	102	GLU
49	BS	66	ALA
49	BS	88	ASP
50	BT	4	GLY
50	BT	55	ASN
50	BT	91	ARG
50	BT	95	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
50	BT	129	ARG
51	BU	52	ARG
51	BU	90	VAL
51	BU	99	ALA
52	BV	32	THR
52	BV	90	PRO
53	BW	2	GLU
53	BW	67	ASP
54	BX	48	LYS
54	BX	50	LYS
54	BX	72	LYS
55	BY	8	LYS
55	BY	11	ASP
55	BY	17	SER
55	BY	21	LYS
55	BY	87	LYS
56	BZ	49	ARG
56	BZ	56	VAL
56	BZ	108	PRO
56	BZ	178	GLU
2	CB	205	ASP
3	CC	41	GLY
3	CC	45	LYS
4	CD	40	PRO
4	CD	43	HIS
4	CD	142	PRO
4	CD	153	ARG
5	CE	21	ALA
5	CE	70	PRO
5	CE	147	ASP
5	CE	154	GLY
6	CF	12	PRO
6	CF	43	LEU
6	CF	86	ARG
7	CG	58	PRO
7	CG	66	VAL
7	CG	77	SER
7	CG	104	LEU
7	CG	111	ARG
7	CG	136	LYS
8	CH	54	ASP
8	CH	63	LEU

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Mol	Chain	Res	Type
8	CH	68	ARG
9	CI	61	ALA
9	CI	89	ASN
9	CI	106	ALA
10	CJ	51	ARG
11	CK	72	ALA
12	CL	46	LYS
12	CL	105	TYR
13	CM	46	LYS
13	CM	81	LEU
15	CO	37	ASN
15	CO	88	ARG
16	CP	7	ALA
16	CP	29	ASP
16	CP	65	GLN
16	CP	83	GLU
17	CQ	98	LEU
20	CT	12	ALA
20	CT	22	ARG
20	CT	24	LEU
20	CT	65	LYS
20	CT	96	GLY
25	CY	12	SER
25	CY	16	LYS
25	CY	17	SER
25	CY	18	LEU
25	CY	54	GLN
25	CY	84	ARG
25	CY	88	LEU
25	CY	108	GLU
25	CY	112	LYS
25	CY	121	TYR
25	CY	140	LEU
25	CY	158	GLU
25	CY	164	ILE
25	CY	172	ALA
27	D1	27	GLU
27	D1	70	VAL
30	D4	40	HIS
31	D5	20	ARG
32	D6	23	THR
32	D6	28	ARG

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Mol	Chain	Res	Type
34	D8	17	THR
34	D8	47	LYS
34	D8	50	LEU
34	D8	51	ALA
37	DC	70	LYS
37	DC	92	ASP
37	DC	151	GLU
37	DC	175	VAL
37	DC	185	LEU
37	DC	214	VAL
37	DC	218	MET
38	DD	140	THR
38	DD	211	ARG
38	DD	256	GLY
39	DE	17	ASP
39	DE	64	LYS
39	DE	130	GLY
40	DF	64	ILE
40	DF	84	VAL
40	DF	146	ALA
40	DF	164	ARG
40	DF	179	GLU
41	DG	35	GLU
41	DG	43	LEU
41	DG	45	GLU
41	DG	49	ASP
41	DG	117	PHE
42	DH	15	VAL
42	DH	81	GLU
42	DH	98	LEU
42	DH	148	ILE
42	DH	150	ALA
43	DI	6	LEU
43	DI	70	GLU
43	DI	75	LEU
43	DI	76	THR
43	DI	132	PRO
44	DN	15	LEU
44	DN	28	THR
44	DN	56	ASN
44	DN	94	HIS
45	DO	5	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
45	DO	108	GLU
45	DO	110	GLY
45	DO	114	ILE
46	DP	33	ARG
46	DP	52	GLU
46	DP	109	GLY
47	DQ	8	LYS
47	DQ	54	MET
48	DR	81	ASP
48	DR	102	GLU
49	DS	66	ALA
49	DS	88	ASP
49	DS	97	ARG
50	DT	23	ARG
50	DT	55	ASN
50	DT	91	ARG
50	DT	117	ASP
51	DU	71	GLN
51	DU	88	ILE
51	DU	91	ASP
52	DV	32	THR
52	DV	82	ARG
53	DW	18	ARG
54	DX	15	GLU
54	DX	48	LYS
55	DY	11	ASP
55	DY	17	SER
55	DY	19	LYS
55	DY	26	LYS
55	DY	39	VAL
55	DY	87	LYS
56	DZ	51	ALA
56	DZ	138	GLU
56	DZ	139	VAL
56	DZ	140	ASP
2	AB	46	LYS
2	AB	131	PRO
2	AB	205	ASP
3	AC	9	GLY
3	AC	45	LYS
3	AC	109	PRO
4	AD	39	PRO

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Mol	Chain	Res	Type
4	AD	40	PRO
4	AD	102	ASP
5	AE	128	PRO
6	AF	86	ARG
7	AG	23	VAL
7	AG	49	ILE
7	AG	77	SER
7	AG	96	GLN
7	AG	103	TRP
7	AG	136	LYS
8	AH	87	SER
9	AI	57	GLY
11	AK	128	ALA
12	AL	9	GLN
13	AM	37	THR
13	AM	108	ARG
14	AN	7	ILE
15	AO	21	ASP
15	AO	38	ARG
15	AO	88	ARG
16	AP	2	VAL
16	AP	14	ASN
17	AQ	68	ARG
18	AR	72	ARG
19	AS	73	GLU
20	AT	22	ARG
20	AT	33	ILE
20	AT	34	LYS
20	AT	56	MET
25	AY	32	ARG
25	AY	49	HIS
25	AY	82	ALA
25	AY	104	PRO
26	B0	57	PHE
26	B0	83	PRO
28	B2	61	LEU
33	B7	35	ARG
34	B8	50	LEU
37	BC	55	ASP
37	BC	64	LEU
37	BC	70	LYS
37	BC	169	GLY

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Mol	Chain	Res	Type
37	BC	209	LEU
38	BD	157	ARG
38	BD	256	GLY
39	BE	113	PHE
39	BE	149	ARG
40	BF	164	ARG
40	BF	177	ALA
41	BG	10	LYS
41	BG	56	ALA
41	BG	69	ALA
41	BG	105	LYS
42	BH	110	SER
43	BI	76	THR
44	BN	28	THR
45	BO	79	PHE
46	BP	52	GLU
46	BP	59	LEU
46	BP	71	VAL
46	BP	115	LEU
47	BQ	8	LYS
47	BQ	50	ALA
48	BR	32	GLY
48	BR	39	PRO
48	BR	40	LYS
49	BS	19	LYS
49	BS	57	LYS
50	BT	117	ASP
51	BU	71	GLN
51	BU	111	GLU
52	BV	58	VAL
52	BV	74	LYS
53	BW	15	ARG
53	BW	44	ALA
53	BW	45	TYR
53	BW	110	LYS
54	BX	15	GLU
54	BX	38	GLU
54	BX	85	PRO
55	BY	50	ARG
55	BY	77	PRO
56	BZ	5	LEU
56	BZ	18	LEU

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Mol	Chain	Res	Type
2	CB	25	ASN
2	CB	97	TRP
2	CB	131	PRO
2	CB	175	ARG
2	CB	217	ARG
3	CC	9	GLY
3	CC	109	PRO
5	CE	128	PRO
6	CF	22	GLU
7	CG	23	VAL
7	CG	49	ILE
7	CG	103	TRP
9	CI	57	GLY
11	CK	128	ALA
12	CL	61	THR
13	CM	47	ASP
13	CM	108	ARG
15	CO	21	ASP
15	CO	29	VAL
15	CO	38	ARG
15	CO	64	ARG
16	CP	2	VAL
16	CP	61	SER
18	CR	27	GLY
19	CS	73	GLU
20	CT	23	ARG
20	CT	33	ILE
20	CT	56	MET
20	CT	79	ARG
25	CY	7	TYR
25	CY	122	ALA
25	CY	159	ALA
25	CY	162	GLN
25	CY	163	LYS
26	D0	57	PHE
26	D0	83	PRO
27	D1	58	ILE
27	D1	59	THR
30	D4	18	CYS
31	D5	3	LYS
33	D7	7	PRO
33	D7	11	LYS

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Mol	Chain	Res	Type
33	D7	19	ARG
37	DC	55	ASP
37	DC	64	LEU
37	DC	73	ARG
37	DC	169	GLY
37	DC	209	LEU
38	DD	147	LEU
38	DD	170	GLY
39	DE	69	LYS
39	DE	72	VAL
39	DE	149	ARG
40	DF	177	ALA
41	DG	101	ILE
41	DG	133	LEU
41	DG	138	GLN
43	DI	42	SER
43	DI	87	LYS
43	DI	119	PRO
44	DN	40	PRO
45	DO	43	VAL
45	DO	79	PHE
46	DP	59	LEU
46	DP	76	LYS
46	DP	115	LEU
47	DQ	21	THR
47	DQ	50	ALA
48	DR	32	GLY
49	DS	19	LYS
49	DS	57	LYS
50	DT	95	ARG
51	DU	54	LYS
51	DU	61	TRP
51	DU	90	VAL
52	DV	58	VAL
52	DV	74	LYS
53	DW	2	GLU
53	DW	65	LEU
54	DX	50	LYS
55	DY	50	ARG
55	DY	77	PRO
56	DZ	22	GLY
56	DZ	32	HIS

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Mol	Chain	Res	Type
56	DZ	63	ASP
56	DZ	104	PHE
56	DZ	177	PRO
2	AB	25	ASN
3	AC	8	ILE
3	AC	15	THR
3	AC	81	GLY
5	AE	77	PRO
8	AH	49	GLU
8	AH	76	PRO
9	AI	34	ASN
13	AM	6	GLY
13	AM	32	GLU
13	AM	116	THR
14	AN	56	VAL
15	AO	64	ARG
18	AR	27	GLY
20	AT	23	ARG
20	AT	79	ARG
25	AY	70	SER
31	B5	28	PRO
31	B5	38	ALA
38	BD	170	GLY
38	BD	242	ARG
39	BE	69	LYS
39	BE	72	VAL
39	BE	98	PRO
40	BF	83	PHE
41	BG	15	VAL
41	BG	142	PRO
42	BH	93	GLY
43	BI	87	LYS
43	BI	119	PRO
44	BN	40	PRO
44	BN	125	GLY
46	BP	26	GLY
46	BP	76	LYS
46	BP	106	LEU
47	BQ	10	ARG
47	BQ	52	VAL
47	BQ	56	ARG
48	BR	73	VAL

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Mol	Chain	Res	Type
49	BS	103	GLU
50	BT	82	LEU
51	BU	54	LYS
51	BU	61	TRP
52	BV	3	ALA
52	BV	9	GLY
53	BW	65	LEU
55	BY	26	LYS
55	BY	81	LYS
56	BZ	37	VAL
56	BZ	106	GLY
2	CB	177	ALA
2	CB	211	ILE
3	CC	8	ILE
3	CC	15	THR
3	CC	43	LEU
3	CC	81	GLY
3	CC	173	VAL
4	CD	39	PRO
5	CE	76	ILE
5	CE	77	PRO
7	CG	96	GLN
8	CH	30	ARG
8	CH	76	PRO
8	CH	87	SER
9	CI	34	ASN
9	CI	126	SER
12	CL	9	GLN
12	CL	13	LYS
12	CL	101	VAL
13	CM	6	GLY
13	CM	37	THR
14	CN	56	VAL
16	CP	14	ASN
17	CQ	68	ARG
25	CY	31	GLY
25	CY	92	PRO
30	D4	36	CYS
31	D5	24	ALA
31	D5	28	PRO
32	D6	51	GLU
39	DE	134	ILE

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Mol	Chain	Res	Type
40	DF	38	ARG
40	DF	83	PHE
41	DG	24	GLY
41	DG	74	LYS
41	DG	171	ALA
42	DH	93	GLY
44	DN	125	GLY
45	DO	63	VAL
46	DP	71	VAL
46	DP	106	LEU
47	DQ	13	GLN
48	DR	39	PRO
48	DR	73	VAL
51	DU	112	ARG
54	DX	38	GLU
54	DX	85	PRO
55	DY	21	LYS
55	DY	81	LYS
2	AB	130	ARG
3	AC	55	VAL
3	AC	173	VAL
4	AD	178	VAL
9	AI	98	PRO
11	AK	49	GLY
12	AL	101	VAL
27	B1	79	GLY
30	B4	19	GLY
34	B8	20	GLY
37	BC	143	GLY
38	BD	118	VAL
38	BD	244	ARG
38	BD	246	PRO
42	BH	127	GLU
43	BI	84	GLY
45	BO	63	VAL
48	BR	106	GLY
52	BV	99	ILE
56	BZ	82	ARG
2	CB	130	ARG
3	CC	55	VAL
4	CD	95	GLY
4	CD	178	VAL

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Mol	Chain	Res	Type
9	CI	98	PRO
11	CK	49	GLY
30	D4	19	GLY
34	D8	20	GLY
37	DC	143	GLY
37	DC	200	LYS
38	DD	10	THR
38	DD	118	VAL
38	DD	244	ARG
39	DE	34	VAL
39	DE	98	PRO
40	DF	171	PRO
41	DG	39	ILE
41	DG	67	LYS
46	DP	26	GLY
52	DV	9	GLY
52	DV	99	ILE
56	DZ	116	VAL
2	AB	211	ILE
3	AC	108	ASN
7	AG	88	PRO
27	B1	31	GLY
31	B5	47	PRO
33	B7	7	PRO
37	BC	19	VAL
37	BC	181	PRO
37	BC	200	LYS
38	BD	10	THR
39	BE	34	VAL
39	BE	134	ILE
45	BO	43	VAL
49	BS	60	GLY
55	BY	37	VAL
56	BZ	22	GLY
3	CC	108	ASN
4	CD	56	VAL
6	CF	67	MET
9	CI	108	VAL
11	CK	115	PRO
14	CN	7	ILE
37	DC	19	VAL
37	DC	181	PRO

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Mol	Chain	Res	Type
38	DD	246	PRO
42	DH	29	PRO
42	DH	127	GLU
43	DI	84	GLY
48	DR	106	GLY
49	DS	60	GLY
53	DW	26	GLY
55	DY	37	VAL
4	AD	148	VAL
7	AG	17	VAL
8	AH	128	GLY
9	AI	108	VAL
10	AJ	24	VAL
25	AY	35	PRO
27	B1	68	PRO
37	BC	132	ALA
37	BC	180	PHE
39	BE	39	PRO
40	BF	171	PRO
41	BG	77	ILE
42	BH	29	PRO
46	BP	43	GLY
48	BR	85	PRO
49	BS	28	VAL
53	BW	26	GLY
7	CG	17	VAL
7	CG	88	PRO
10	CJ	24	VAL
27	D1	28	GLY
30	D4	15	ILE
31	D5	47	PRO
37	DC	132	ALA
37	DC	180	PHE
39	DE	39	PRO
41	DG	149	VAL
46	DP	97	PRO
49	DS	28	VAL
49	DS	104	GLY
54	DX	31	HIS
56	DZ	82	ARG
56	DZ	167	PRO
4	AD	8	VAL

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Mol	Chain	Res	Type
5	AE	76	ILE
6	AF	67	MET
8	AH	51	VAL
11	AK	115	PRO
15	AO	86	GLY
27	B1	70	VAL
30	B4	15	ILE
32	B6	41	PRO
38	BD	152	GLY
41	BG	92	VAL
42	BH	22	GLY
43	BI	23	PRO
43	BI	127	VAL
45	BO	101	PRO
46	BP	37	GLY
46	BP	97	PRO
49	BS	104	GLY
52	BV	70	ILE
53	BW	59	VAL
54	BX	31	HIS
55	BY	53	PRO
56	BZ	68	PRO
2	CB	230	VAL
4	CD	148	VAL
8	CH	51	VAL
8	CH	128	GLY
10	CJ	93	GLY
25	CY	61	PRO
28	D2	42	GLY
33	D7	17	GLY
39	DE	116	VAL
40	DF	81	PRO
41	DG	89	GLY
45	DO	101	PRO
46	DP	43	GLY
47	DQ	127	ILE
48	DR	85	PRO
52	DV	70	ILE
53	DW	59	VAL
55	DY	10	GLY
55	DY	53	PRO
48	BR	46	GLY

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Mol	Chain	Res	Type
50	BT	88	ILE
53	BW	20	VAL
4	CD	8	VAL
38	DD	152	GLY
43	DI	127	VAL

### 5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	AB	202/220 (92%)	177 (88%)	25 (12%)	6	29
2	CB	202/220 (92%)	177 (88%)	25 (12%)	6	29
3	AC	160/188 (85%)	142 (89%)	18 (11%)	7	34
3	CC	160/188 (85%)	142 (89%)	18 (11%)	7	34
4	AD	180/181 (99%)	155 (86%)	25 (14%)	4	25
4	CD	180/181 (99%)	156 (87%)	24 (13%)	5	26
5	AE	115/123 (94%)	99 (86%)	16 (14%)	4	25
5	CE	115/123 (94%)	99 (86%)	16 (14%)	4	25
6	AF	90/90 (100%)	86 (96%)	4 (4%)	35	73
6	CF	90/90 (100%)	86 (96%)	4 (4%)	35	73
7	AG	126/127 (99%)	118 (94%)	8 (6%)	22	63
7	CG	126/127 (99%)	116 (92%)	10 (8%)	15	53
8	AH	119/119 (100%)	108 (91%)	11 (9%)	11	45
8	CH	119/119 (100%)	108 (91%)	11 (9%)	11	45
9	AI	98/99 (99%)	83 (85%)	15 (15%)	3	21
9	CI	98/99 (99%)	85 (87%)	13 (13%)	5	26
10	AJ	88/92 (96%)	81 (92%)	7 (8%)	15	52
10	CJ	88/92 (96%)	81 (92%)	7 (8%)	15	52
11	AK	90/99 (91%)	80 (89%)	10 (11%)	8	35
11	CK	90/99 (91%)	81 (90%)	9 (10%)	9	41

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
12	AL	104/111 (94%)	91 (88%)	13 (12%)	6	29
12	CL	104/111 (94%)	93 (89%)	11 (11%)	8	38
13	AM	99/101 (98%)	92 (93%)	7 (7%)	18	58
13	CM	99/101 (98%)	92 (93%)	7 (7%)	18	58
14	AN	49/50 (98%)	45 (92%)	4 (8%)	14	51
14	CN	49/50 (98%)	45 (92%)	4 (8%)	14	51
15	AO	79/80 (99%)	71 (90%)	8 (10%)	9	40
15	CO	79/80 (99%)	70 (89%)	9 (11%)	7	33
16	AP	72/74 (97%)	61 (85%)	11 (15%)	3	21
16	CP	72/74 (97%)	61 (85%)	11 (15%)	3	21
17	AQ	94/97 (97%)	88 (94%)	6 (6%)	22	62
17	CQ	94/97 (97%)	88 (94%)	6 (6%)	22	62
18	AR	61/77 (79%)	56 (92%)	5 (8%)	14	51
18	CR	61/77 (79%)	55 (90%)	6 (10%)	10	42
19	AS	69/80 (86%)	57 (83%)	12 (17%)	2	14
19	CS	69/80 (86%)	56 (81%)	13 (19%)	2	11
20	AT	76/82 (93%)	65 (86%)	11 (14%)	4	23
20	CT	76/82 (93%)	65 (86%)	11 (14%)	4	23
21	AU	19/22 (86%)	18 (95%)	1 (5%)	28	67
21	CU	19/22 (86%)	18 (95%)	1 (5%)	28	67
25	AY	157/157 (100%)	135 (86%)	22 (14%)	4	24
25	CY	157/157 (100%)	142 (90%)	15 (10%)	10	43
26	B0	61/67 (91%)	57 (93%)	4 (7%)	21	61
26	D0	61/67 (91%)	57 (93%)	4 (7%)	21	61
27	B1	73/83 (88%)	54 (74%)	19 (26%)	0	4
27	D1	73/83 (88%)	50 (68%)	23 (32%)	0	3
28	B2	46/67 (69%)	31 (67%)	15 (33%)	0	2
28	D2	46/67 (69%)	34 (74%)	12 (26%)	0	4
29	B3	51/52 (98%)	48 (94%)	3 (6%)	24	65
29	D3	51/52 (98%)	48 (94%)	3 (6%)	24	65
31	B5	51/52 (98%)	42 (82%)	9 (18%)	2	13

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
31	D5	51/52 (98%)	43 (84%)	8 (16%)	3	19
32	B6	43/52 (83%)	34 (79%)	9 (21%)	1	8
32	D6	43/52 (83%)	34 (79%)	9 (21%)	1	8
33	B7	41/42 (98%)	34 (83%)	7 (17%)	2	15
33	D7	41/42 (98%)	34 (83%)	7 (17%)	2	15
34	B8	53/55 (96%)	45 (85%)	8 (15%)	3	21
34	D8	53/55 (96%)	45 (85%)	8 (15%)	3	21
37	BC	61/181 (34%)	56 (92%)	5 (8%)	14	51
37	DC	61/181 (34%)	57 (93%)	4 (7%)	21	61
38	BD	213/218 (98%)	186 (87%)	27 (13%)	5	28
38	DD	213/218 (98%)	186 (87%)	27 (13%)	5	28
39	BE	165/166 (99%)	142 (86%)	23 (14%)	4	25
39	DE	165/166 (99%)	141 (86%)	24 (14%)	4	23
40	BF	165/166 (99%)	142 (86%)	23 (14%)	4	25
40	DF	165/166 (99%)	142 (86%)	23 (14%)	4	25
41	BG	155/156 (99%)	137 (88%)	18 (12%)	7	33
41	DG	155/156 (99%)	127 (82%)	28 (18%)	2	12
42	BH	132/148 (89%)	115 (87%)	17 (13%)	5	27
42	DH	132/148 (89%)	116 (88%)	16 (12%)	6	30
43	BI	122/124 (98%)	103 (84%)	19 (16%)	3	20
43	DI	122/124 (98%)	103 (84%)	19 (16%)	3	20
44	BN	117/119 (98%)	100 (86%)	17 (14%)	4	23
44	DN	117/119 (98%)	99 (85%)	18 (15%)	3	20
45	BO	100/100 (100%)	80 (80%)	20 (20%)	1	9
45	DO	100/100 (100%)	79 (79%)	21 (21%)	1	8
46	BP	112/116 (97%)	84 (75%)	28 (25%)	1	4
46	DP	112/116 (97%)	84 (75%)	28 (25%)	1	4
47	BQ	106/111 (96%)	86 (81%)	20 (19%)	2	10
47	DQ	106/111 (96%)	88 (83%)	18 (17%)	2	15
48	BR	100/101 (99%)	80 (80%)	20 (20%)	1	9
48	DR	100/101 (99%)	80 (80%)	20 (20%)	1	9

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
49	BS	77/88 (88%)	63 (82%)	14 (18%)	2	12
49	DS	77/88 (88%)	62 (80%)	15 (20%)	2	10
50	BT	120/127 (94%)	89 (74%)	31 (26%)	0	4
50	DT	120/127 (94%)	89 (74%)	31 (26%)	0	4
51	BU	92/94 (98%)	80 (87%)	12 (13%)	5	27
51	DU	92/94 (98%)	81 (88%)	11 (12%)	6	30
52	BV	82/82 (100%)	68 (83%)	14 (17%)	2	15
52	DV	82/82 (100%)	68 (83%)	14 (17%)	2	15
53	BW	91/92 (99%)	78 (86%)	13 (14%)	4	24
53	DW	91/92 (99%)	78 (86%)	13 (14%)	4	24
54	BX	74/78 (95%)	59 (80%)	15 (20%)	1	9
54	DX	74/78 (95%)	58 (78%)	16 (22%)	1	7
55	BY	84/91 (92%)	63 (75%)	21 (25%)	1	4
55	DY	84/91 (92%)	63 (75%)	21 (25%)	1	4
56	BZ	155/179 (87%)	134 (86%)	21 (14%)	5	26
56	DZ	155/179 (87%)	124 (80%)	31 (20%)	1	9
All	All	9778/10552 (93%)	8384 (86%)	1394 (14%)	4	24

All (1394) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	AB	17	PHE
2	AB	22	LYS
2	AB	31	TYR
2	AB	33	TYR
2	AB	44	LEU
2	AB	56	ARG
2	AB	67	THR
2	AB	69	LEU
2	AB	70	PHE
2	AB	75	LYS
2	AB	80	ILE
2	AB	96	ARG
2	AB	97	TRP
2	AB	98	LEU
2	AB	102	LEU

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Mol	Chain	Res	Type
2	AB	108	ILE
2	AB	115	LEU
2	AB	116	GLU
2	AB	137	ARG
2	AB	140	HIS
2	AB	158	LEU
2	AB	178	ARG
2	AB	187	LEU
2	AB	212	GLN
2	AB	222	ILE
3	AC	5	ILE
3	AC	12	LEU
3	AC	16	ARG
3	AC	27	LYS
3	AC	37	GLN
3	AC	43	LEU
3	AC	52	LEU
3	AC	101	LEU
3	AC	104	GLN
3	AC	120	VAL
3	AC	127	ARG
3	AC	131	ARG
3	AC	156	ARG
3	AC	164	ARG
3	AC	165	THR
3	AC	166	GLU
3	AC	167	TRP
3	AC	181	ASN
4	AD	3	ARG
4	AD	9	CYS
4	AD	21	LEU
4	AD	26	CYS
4	AD	31	CYS
4	AD	33	MET
4	AD	42	GLN
4	AD	53	ASP
4	AD	59	ARG
4	AD	79	PHE
4	AD	96	LEU
4	AD	97	LEU
4	AD	110	PHE
4	AD	120	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
4	AD	122	ARG
4	AD	131	ARG
4	AD	132	ARG
4	AD	138	TYR
4	AD	158	ILE
4	AD	170	VAL
4	AD	181	MET
4	AD	194	LEU
4	AD	196	LEU
4	AD	200	GLU
4	AD	202	LEU
5	AE	10	MET
5	AE	12	LEU
5	AE	16	THR
5	AE	20	GLN
5	AE	47	LYS
5	AE	60	TYR
5	AE	61	TYR
5	AE	68	GLU
5	AE	71	LEU
5	AE	73	ASN
5	AE	76	ILE
5	AE	90	VAL
5	AE	96	PRO
5	AE	101	ILE
5	AE	131	ILE
5	AE	149	GLU
6	AF	32	ASN
6	AF	75	LEU
6	AF	98	LEU
6	AF	100	ASN
7	AG	14	PRO
7	AG	41	ARG
7	AG	54	THR
7	AG	57	GLU
7	AG	84	ASN
7	AG	111	ARG
7	AG	151	TYR
7	AG	156	TRP
8	AH	1	MET
8	AH	3	THR
8	AH	10	LEU

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Mol	Chain	Res	Type
8	AH	18	ARG
8	AH	25	ASP
8	AH	35	ILE
8	AH	102	ARG
8	AH	119	LEU
8	AH	133	LEU
8	AH	136	GLU
8	AH	137	VAL
9	AI	4	TYR
9	AI	27	THR
9	AI	63	ILE
9	AI	66	ARG
9	AI	78	LYS
9	AI	89	ASN
9	AI	95	LYS
9	AI	101	PHE
9	AI	104	ARG
9	AI	108	VAL
9	AI	113	LYS
9	AI	114	TYR
9	AI	121	ARG
9	AI	125	TYR
9	AI	128	ARG
10	AJ	16	LEU
10	AJ	22	LYS
10	AJ	47	PHE
10	AJ	50	ILE
10	AJ	62	HIS
10	AJ	84	GLN
10	AJ	96	ILE
11	AK	18	ARG
11	AK	21	ILE
11	AK	48	ILE
11	AK	91	ARG
11	AK	103	LEU
11	AK	105	VAL
11	AK	117	ASN
11	AK	125	PHE
11	AK	126	ARG
11	AK	127	LYS
12	AL	19	ARG
12	AL	20	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
12	AL	21	LYS
12	AL	41	ARG
12	AL	48	PRO
12	AL	49	ASN
12	AL	53	ARG
12	AL	66	VAL
12	AL	70	ILE
12	AL	79	GLU
12	AL	84	LEU
12	AL	89	ARG
12	AL	102	ARG
13	AM	47	ASP
13	AM	48	LEU
13	AM	64	TRP
13	AM	82	MET
13	AM	93	ARG
13	AM	108	ARG
13	AM	120	LYS
14	AN	16	PHE
14	AN	26	ARG
14	AN	29	ARG
14	AN	61	TRP
15	AO	4	THR
15	AO	6	GLU
15	AO	10	LYS
15	AO	35	ARG
15	AO	46	HIS
15	AO	47	LYS
15	AO	65	ARG
15	AO	82	ILE
16	AP	1	MET
16	AP	6	LEU
16	AP	26	ARG
16	AP	27	LYS
16	AP	29	ASP
16	AP	38	TYR
16	AP	39	TYR
16	AP	48	TRP
16	AP	69	THR
16	AP	73	LEU
16	AP	82	GLN
17	AQ	36	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
17	AQ	55	ASP
17	AQ	56	VAL
17	AQ	78	GLU
17	AQ	81	ARG
17	AQ	89	LEU
18	AR	29	PHE
18	AR	31	LEU
18	AR	46	GLU
18	AR	58	LEU
18	AR	74	ARG
19	AS	5	LEU
19	AS	6	LYS
19	AS	13	ASP
19	AS	27	GLU
19	AS	34	TRP
19	AS	37	ARG
19	AS	43	GLU
19	AS	44	MET
19	AS	49	ILE
19	AS	53	ASN
19	AS	70	LYS
19	AS	78	ARG
20	AT	8	ARG
20	AT	13	LEU
20	AT	24	LEU
20	AT	26	ASN
20	AT	57	ARG
20	AT	62	LEU
20	AT	71	THR
20	AT	73	HIS
20	AT	74	LYS
20	AT	93	GLU
20	AT	100	ILE
21	AU	24	ARG
25	AY	13	HIS
25	AY	20	VAL
25	AY	29	ARG
25	AY	41	LEU
25	AY	44	GLU
25	AY	53	ASN
25	AY	55	ILE
25	AY	64	ARG

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Mol	Chain	Res	Type
25	AY	76	LEU
25	AY	91	ASN
25	AY	101	ILE
25	AY	103	ILE
25	AY	113	ASP
25	AY	130	ARG
25	AY	138	ASP
25	AY	142	LYS
25	AY	150	SER
25	AY	152	ASP
25	AY	164	ILE
25	AY	168	PHE
25	AY	169	ILE
25	AY	174	GLN
26	B0	20	ARG
26	B0	38	VAL
26	B0	44	ARG
26	B0	64	ASP
27	B1	19	GLN
27	B1	20	ARG
27	B1	21	ARG
27	B1	26	ARG
27	B1	34	THR
27	B1	39	LYS
27	B1	46	LEU
27	B1	47	GLN
27	B1	48	LYS
27	B1	53	VAL
27	B1	56	GLN
27	B1	58	ILE
27	B1	59	THR
27	B1	62	VAL
27	B1	69	LYS
27	B1	78	LYS
27	B1	87	PRO
27	B1	89	GLU
27	B1	94	LEU
28	B2	14	ARG
28	B2	16	LEU
28	B2	17	SER
28	B2	22	GLU
28	B2	26	ARG

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Mol	Chain	Res	Type
28	B2	27	GLU
28	B2	30	ARG
28	B2	32	LEU
28	B2	33	MET
28	B2	44	LEU
28	B2	46	GLN
28	B2	47	ASN
28	B2	51	ARG
28	B2	56	GLN
28	B2	57	ILE
29	B3	8	LEU
29	B3	26	LEU
29	B3	31	LEU
31	B5	3	LYS
31	B5	4	HIS
31	B5	5	PRO
31	B5	22	HIS
31	B5	32	PRO
31	B5	43	HIS
31	B5	48	GLU
31	B5	56	LYS
31	B5	58	LEU
32	B6	10	LEU
32	B6	20	ASN
32	B6	31	PRO
32	B6	35	GLU
32	B6	37	ARG
32	B6	42	TRP
32	B6	43	CYS
32	B6	44	ARG
32	B6	51	GLU
33	B7	8	ASN
33	B7	24	THR
33	B7	36	GLN
33	B7	43	THR
33	B7	44	PRO
33	B7	46	VAL
33	B7	48	LYS
34	B8	31	HIS
34	B8	40	GLU
34	B8	44	LYS
34	B8	46	ARG

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Mol	Chain	Res	Type
34	B8	48	PHE
34	B8	52	LYS
34	B8	60	LEU
34	B8	64	TYR
37	BC	36	LYS
37	BC	37	PHE
37	BC	49	ILE
37	BC	64	LEU
37	BC	66	HIS
38	BD	5	LYS
38	BD	10	THR
38	BD	14	ARG
38	BD	15	PHE
38	BD	24	ILE
38	BD	26	LYS
38	BD	31	LYS
38	BD	46	GLN
38	BD	71	ASP
38	BD	91	ARG
38	BD	94	LEU
38	BD	95	LEU
38	BD	96	HIS
38	BD	131	LEU
38	BD	135	PHE
38	BD	166	GLN
38	BD	173	VAL
38	BD	189	CYS
38	BD	190	TYR
38	BD	198	ASN
38	BD	211	ARG
38	BD	221	VAL
38	BD	228	PRO
38	BD	241	PRO
38	BD	255	LYS
38	BD	261	LYS
38	BD	271	ILE
39	BE	21	VAL
39	BE	44	TYR
39	BE	61	ARG
39	BE	64	LYS
39	BE	67	PHE
39	BE	69	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
39	BE	78	LEU
39	BE	79	ARG
39	BE	113	PHE
39	BE	118	LYS
39	BE	119	ARG
39	BE	122	PHE
39	BE	127	ASP
39	BE	134	ILE
39	BE	141	ILE
39	BE	143	ASN
39	BE	178	GLU
39	BE	181	LEU
39	BE	183	LEU
39	BE	184	VAL
39	BE	192	ASN
39	BE	202	LYS
39	BE	203	LYS
40	BF	6	VAL
40	BF	23	ASP
40	BF	24	LEU
40	BF	28	ILE
40	BF	46	ARG
40	BF	50	SER
40	BF	53	THR
40	BF	56	GLU
40	BF	65	TRP
40	BF	66	PRO
40	BF	67	GLN
40	BF	70	THR
40	BF	74	ARG
40	BF	77	ASP
40	BF	104	LYS
40	BF	112	MET
40	BF	116	ASP
40	BF	136	THR
40	BF	164	ARG
40	BF	169	ASN
40	BF	197	ASP
40	BF	201	VAL
40	BF	202	PHE
41	BG	22	ARG
41	BG	33	ARG

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Mol	Chain	Res	Type
41	BG	43	LEU
41	BG	45	GLU
41	BG	51	ARG
41	BG	60	LEU
41	BG	64	THR
41	BG	77	ILE
41	BG	87	PRO
41	BG	106	LEU
41	BG	125	PHE
41	BG	133	LEU
41	BG	136	ARG
41	BG	139	LEU
41	BG	147	ASP
41	BG	159	VAL
41	BG	170	ARG
41	BG	174	GLU
42	BH	41	MET
42	BH	53	GLU
42	BH	61	HIS
42	BH	68	THR
42	BH	83	TYR
42	BH	86	GLU
42	BH	89	ILE
42	BH	105	LEU
42	BH	123	PHE
42	BH	136	ILE
42	BH	143	GLN
42	BH	153	LYS
42	BH	157	TYR
42	BH	158	HIS
42	BH	159	GLU
42	BH	163	TYR
42	BH	170	ARG
43	BI	1	MET
43	BI	3	VAL
43	BI	5	LEU
43	BI	7	GLU
43	BI	10	GLU
43	BI	12	LEU
43	BI	25	TYR
43	BI	38	LEU
43	BI	51	ILE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
43	BI	54	GLN
43	BI	64	GLU
43	BI	86	THR
43	BI	96	ASP
43	BI	118	LYS
43	BI	122	GLU
43	BI	123	LEU
43	BI	126	TYR
43	BI	130	TYR
43	BI	136	VAL
44	BN	4	TYR
44	BN	19	GLU
44	BN	34	LEU
44	BN	39	ARG
44	BN	42	TRP
44	BN	56	ASN
44	BN	62	VAL
44	BN	66	LYS
44	BN	82	LEU
44	BN	87	LEU
44	BN	94	HIS
44	BN	99	LEU
44	BN	109	LYS
44	BN	123	TYR
44	BN	127	ASP
44	BN	128	HIS
44	BN	131	GLN
45	BO	1	MET
45	BO	7	TYR
45	BO	9	GLU
45	BO	19	ILE
45	BO	24	VAL
45	BO	25	LEU
45	BO	32	TYR
45	BO	39	ILE
45	BO	45	GLU
45	BO	47	ILE
45	BO	48	PRO
45	BO	69	ILE
45	BO	73	ASP
45	BO	80	ASP
45	BO	82	ASN

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Mol	Chain	Res	Type
45	BO	86	ILE
45	BO	87	ILE
45	BO	91	LEU
45	BO	102	VAL
45	BO	115	VAL
46	BP	6	LEU
46	BP	13	ASN
46	BP	16	ARG
46	BP	18	ARG
46	BP	21	ARG
46	BP	32	THR
46	BP	35	HIS
46	BP	50	ARG
46	BP	59	LEU
46	BP	61	ARG
46	BP	62	LEU
46	BP	71	VAL
46	BP	75	ILE
46	BP	85	LEU
46	BP	91	PHE
46	BP	101	VAL
46	BP	107	LYS
46	BP	110	TYR
46	BP	112	LEU
46	BP	115	LEU
46	BP	122	PRO
46	BP	123	LEU
46	BP	125	VAL
46	BP	130	PHE
46	BP	138	LEU
46	BP	144	GLU
46	BP	147	LEU
46	BP	148	LEU
47	BQ	9	TYR
47	BQ	17	LEU
47	BQ	22	LYS
47	BQ	26	TYR
47	BQ	29	PHE
47	BQ	43	THR
47	BQ	55	VAL
47	BQ	57	HIS
47	BQ	68	ILE

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Mol	Chain	Res	Type
47	BQ	79	LEU
47	BQ	80	GLU
47	BQ	82	ARG
47	BQ	83	MET
47	BQ	87	LYS
47	BQ	91	GLU
47	BQ	106	VAL
47	BQ	119	ARG
47	BQ	127	ILE
47	BQ	131	ILE
47	BQ	137	TYR
48	BR	2	ARG
48	BR	3	HIS
48	BR	5	LYS
48	BR	13	HIS
48	BR	18	LEU
48	BR	20	LEU
48	BR	29	LEU
48	BR	44	LEU
48	BR	49	ASP
48	BR	60	LEU
48	BR	65	LEU
48	BR	71	GLN
48	BR	74	LYS
48	BR	75	LEU
48	BR	79	LEU
48	BR	99	LYS
48	BR	103	ARG
48	BR	104	ARG
48	BR	113	LEU
48	BR	118	GLU
49	BS	11	LYS
49	BS	12	PHE
49	BS	13	ARG
49	BS	16	ASN
49	BS	36	TYR
49	BS	56	LEU
49	BS	61	ASN
49	BS	62	LYS
49	BS	71	ARG
49	BS	89	ARG
49	BS	92	TYR

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Mol	Chain	Res	Type
49	BS	93	LYS
49	BS	95	HIS
49	BS	106	ARG
50	BT	1	MET
50	BT	3	ARG
50	BT	11	GLU
50	BT	12	SER
50	BT	13	ARG
50	BT	14	TYR
50	BT	22	PHE
50	BT	28	VAL
50	BT	29	ARG
50	BT	38	ASN
50	BT	41	ARG
50	BT	44	ASP
50	BT	53	ARG
50	BT	58	ASN
50	BT	63	VAL
50	BT	65	LYS
50	BT	81	PRO
50	BT	87	ASP
50	BT	88	ILE
50	BT	93	ARG
50	BT	96	ARG
50	BT	99	LEU
50	BT	101	PHE
50	BT	102	ILE
50	BT	108	ARG
50	BT	110	ILE
50	BT	112	ARG
50	BT	115	ARG
50	BT	122	ASP
50	BT	123	GLN
50	BT	128	GLU
51	BU	3	ARG
51	BU	9	VAL
51	BU	14	HIS
51	BU	28	ARG
51	BU	30	LYS
51	BU	31	SER
51	BU	40	PHE
51	BU	49	HIS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
51	BU	64	ARG
51	BU	69	CYS
51	BU	92	ARG
51	BU	93	LYS
52	BV	6	LYS
52	BV	13	ARG
52	BV	18	LEU
52	BV	19	LYS
52	BV	21	ARG
52	BV	40	LEU
52	BV	66	ARG
52	BV	71	LEU
52	BV	78	LYS
52	BV	82	ARG
52	BV	83	ARG
52	BV	88	ARG
52	BV	94	LEU
52	BV	98	GLU
53	BW	11	ARG
53	BW	19	LEU
53	BW	20	VAL
53	BW	49	LYS
53	BW	51	LEU
53	BW	57	ASN
53	BW	61	ASN
53	BW	67	ASP
53	BW	69	LEU
53	BW	70	TYR
53	BW	75	TYR
53	BW	88	ARG
53	BW	107	LEU
54	BX	16	LYS
54	BX	26	TYR
54	BX	27	THR
54	BX	28	PHE
54	BX	29	TRP
54	BX	36	LYS
54	BX	40	LYS
54	BX	45	THR
54	BX	55	ASN
54	BX	59	VAL
54	BX	65	ARG

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Mol	Chain	Res	Type
54	BX	70	LEU
54	BX	76	ARG
54	BX	77	LYS
54	BX	78	LYS
55	BY	2	ARG
55	BY	6	HIS
55	BY	8	LYS
55	BY	28	LYS
55	BY	29	GLU
55	BY	31	LEU
55	BY	32	PRO
55	BY	38	ILE
55	BY	47	LYS
55	BY	56	PRO
55	BY	60	PHE
55	BY	62	GLU
55	BY	66	PRO
55	BY	71	LYS
55	BY	72	VAL
55	BY	75	ILE
55	BY	76	CYS
55	BY	89	PHE
55	BY	92	ASN
55	BY	96	ILE
55	BY	97	ARG
56	BZ	6	LYS
56	BZ	9	TYR
56	BZ	11	GLU
56	BZ	20	ARG
56	BZ	34	ASN
56	BZ	45	ASP
56	BZ	48	PHE
56	BZ	55	HIS
56	BZ	74	VAL
56	BZ	79	ARG
56	BZ	87	ASP
56	BZ	91	LEU
56	BZ	97	GLU
56	BZ	103	ARG
56	BZ	111	VAL
56	BZ	121	HIS
56	BZ	126	VAL

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Mol	Chain	Res	Type
56	BZ	136	PHE
56	BZ	140	ASP
56	BZ	150	LEU
56	BZ	155	LEU
2	CB	17	PHE
2	CB	22	LYS
2	CB	31	TYR
2	CB	33	TYR
2	CB	44	LEU
2	CB	56	ARG
2	CB	67	THR
2	CB	69	LEU
2	CB	70	PHE
2	CB	75	LYS
2	CB	80	ILE
2	CB	96	ARG
2	CB	97	TRP
2	CB	98	LEU
2	CB	102	LEU
2	CB	108	ILE
2	CB	115	LEU
2	CB	116	GLU
2	CB	137	ARG
2	CB	140	HIS
2	CB	158	LEU
2	CB	178	ARG
2	CB	187	LEU
2	CB	212	GLN
2	CB	222	ILE
3	CC	5	ILE
3	CC	12	LEU
3	CC	16	ARG
3	CC	27	LYS
3	CC	37	GLN
3	CC	43	LEU
3	CC	52	LEU
3	CC	101	LEU
3	CC	104	GLN
3	CC	120	VAL
3	CC	127	ARG
3	CC	131	ARG
3	CC	156	ARG

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Mol	Chain	Res	Type
3	CC	164	ARG
3	CC	165	THR
3	CC	166	GLU
3	CC	167	TRP
3	CC	181	ASN
4	CD	3	ARG
4	CD	9	CYS
4	CD	21	LEU
4	CD	26	CYS
4	CD	31	CYS
4	CD	33	MET
4	CD	42	GLN
4	CD	53	ASP
4	CD	59	ARG
4	CD	79	PHE
4	CD	96	LEU
4	CD	97	LEU
4	CD	110	PHE
4	CD	120	LEU
4	CD	122	ARG
4	CD	131	ARG
4	CD	132	ARG
4	CD	138	TYR
4	CD	158	ILE
4	CD	170	VAL
4	CD	181	MET
4	CD	194	LEU
4	CD	196	LEU
4	CD	200	GLU
5	CE	10	MET
5	CE	12	LEU
5	CE	16	THR
5	CE	20	GLN
5	CE	47	LYS
5	CE	60	TYR
5	CE	61	TYR
5	CE	68	GLU
5	CE	71	LEU
5	CE	73	ASN
5	CE	76	ILE
5	CE	90	VAL
5	CE	96	PRO

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Mol	Chain	Res	Type
5	CE	101	ILE
5	CE	131	ILE
5	CE	149	GLU
6	CF	32	ASN
6	CF	75	LEU
6	CF	98	LEU
6	CF	100	ASN
7	CG	14	PRO
7	CG	41	ARG
7	CG	54	THR
7	CG	57	GLU
7	CG	84	ASN
7	CG	88	PRO
7	CG	111	ARG
7	CG	112	PRO
7	CG	151	TYR
7	CG	156	TRP
8	CH	1	MET
8	CH	3	THR
8	CH	10	LEU
8	CH	18	ARG
8	CH	25	ASP
8	CH	35	ILE
8	CH	102	ARG
8	CH	119	LEU
8	CH	133	LEU
8	CH	136	GLU
8	CH	137	VAL
9	CI	4	TYR
9	CI	27	THR
9	CI	63	ILE
9	CI	66	ARG
9	CI	78	LYS
9	CI	95	LYS
9	CI	101	PHE
9	CI	104	ARG
9	CI	108	VAL
9	CI	113	LYS
9	CI	114	TYR
9	CI	121	ARG
9	CI	125	TYR
10	CJ	16	LEU

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Mol	Chain	Res	Type
10	CJ	22	LYS
10	CJ	47	PHE
10	CJ	50	ILE
10	CJ	62	HIS
10	CJ	84	GLN
10	CJ	96	ILE
11	CK	18	ARG
11	CK	21	ILE
11	CK	48	ILE
11	CK	91	ARG
11	CK	103	LEU
11	CK	117	ASN
11	CK	125	PHE
11	CK	126	ARG
11	CK	127	LYS
12	CL	19	ARG
12	CL	20	LYS
12	CL	21	LYS
12	CL	41	ARG
12	CL	48	PRO
12	CL	49	ASN
12	CL	53	ARG
12	CL	66	VAL
12	CL	84	LEU
12	CL	89	ARG
12	CL	102	ARG
13	CM	47	ASP
13	CM	48	LEU
13	CM	64	TRP
13	CM	82	MET
13	CM	93	ARG
13	CM	108	ARG
13	CM	120	LYS
14	CN	16	PHE
14	CN	26	ARG
14	CN	29	ARG
14	CN	61	TRP
15	CO	4	THR
15	CO	6	GLU
15	CO	10	LYS
15	CO	35	ARG
15	CO	39	LEU

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Mol	Chain	Res	Type
15	CO	46	HIS
15	CO	47	LYS
15	CO	65	ARG
15	CO	82	ILE
16	CP	1	MET
16	CP	6	LEU
16	CP	26	ARG
16	CP	27	LYS
16	CP	29	ASP
16	CP	38	TYR
16	CP	39	TYR
16	CP	48	TRP
16	CP	69	THR
16	CP	73	LEU
16	CP	82	GLN
17	CQ	36	ILE
17	CQ	55	ASP
17	CQ	56	VAL
17	CQ	78	GLU
17	CQ	81	ARG
17	CQ	89	LEU
18	CR	29	PHE
18	CR	31	LEU
18	CR	43	PHE
18	CR	46	GLU
18	CR	58	LEU
18	CR	74	ARG
19	CS	5	LEU
19	CS	6	LYS
19	CS	10	PHE
19	CS	13	ASP
19	CS	27	GLU
19	CS	34	TRP
19	CS	37	ARG
19	CS	43	GLU
19	CS	44	MET
19	CS	49	ILE
19	CS	53	ASN
19	CS	70	LYS
19	CS	78	ARG
20	CT	8	ARG
20	CT	13	LEU

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Mol	Chain	Res	Type
20	CT	24	LEU
20	CT	26	ASN
20	CT	57	ARG
20	CT	62	LEU
20	CT	71	THR
20	CT	73	HIS
20	CT	74	LYS
20	CT	93	GLU
20	CT	100	ILE
21	CU	24	ARG
25	CY	3	LEU
25	CY	10	THR
25	CY	18	LEU
25	CY	32	ARG
25	CY	85	ASP
25	CY	91	ASN
25	CY	92	PRO
25	CY	97	ASP
25	CY	113	ASP
25	CY	118	VAL
25	CY	132	ILE
25	CY	138	ASP
25	CY	168	PHE
25	CY	173	ASP
25	CY	183	ILE
26	D0	20	ARG
26	D0	38	VAL
26	D0	44	ARG
26	D0	64	ASP
27	D1	12	PRO
27	D1	16	ASN
27	D1	19	GLN
27	D1	20	ARG
27	D1	21	ARG
27	D1	35	THR
27	D1	39	LYS
27	D1	46	LEU
27	D1	47	GLN
27	D1	48	LYS
27	D1	49	VAL
27	D1	50	ARG
27	D1	52	ARG

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Mol	Chain	Res	Type
27	D1	53	VAL
27	D1	56	GLN
27	D1	58	ILE
27	D1	69	LYS
27	D1	73	LEU
27	D1	83	GLU
27	D1	85	LEU
27	D1	89	GLU
27	D1	90	ILE
27	D1	94	LEU
28	D2	12	GLU
28	D2	14	ARG
28	D2	22	GLU
28	D2	26	ARG
28	D2	30	ARG
28	D2	32	LEU
28	D2	33	MET
28	D2	37	PHE
28	D2	46	GLN
28	D2	53	LEU
28	D2	59	ARG
28	D2	61	LEU
29	D3	8	LEU
29	D3	26	LEU
29	D3	31	LEU
31	D5	4	HIS
31	D5	5	PRO
31	D5	22	HIS
31	D5	32	PRO
31	D5	43	HIS
31	D5	48	GLU
31	D5	56	LYS
31	D5	58	LEU
32	D6	10	LEU
32	D6	20	ASN
32	D6	31	PRO
32	D6	35	GLU
32	D6	37	ARG
32	D6	42	TRP
32	D6	43	CYS
32	D6	44	ARG
32	D6	51	GLU

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Mol	Chain	Res	Type
33	D7	8	ASN
33	D7	24	THR
33	D7	36	GLN
33	D7	43	THR
33	D7	44	PRO
33	D7	46	VAL
33	D7	48	LYS
34	D8	31	HIS
34	D8	40	GLU
34	D8	44	LYS
34	D8	46	ARG
34	D8	48	PHE
34	D8	52	LYS
34	D8	60	LEU
34	D8	64	TYR
37	DC	36	LYS
37	DC	49	ILE
37	DC	64	LEU
37	DC	66	HIS
38	DD	5	LYS
38	DD	10	THR
38	DD	14	ARG
38	DD	15	PHE
38	DD	24	ILE
38	DD	26	LYS
38	DD	31	LYS
38	DD	36	PRO
38	DD	46	GLN
38	DD	71	ASP
38	DD	91	ARG
38	DD	94	LEU
38	DD	95	LEU
38	DD	96	HIS
38	DD	131	LEU
38	DD	135	PHE
38	DD	165	ILE
38	DD	166	GLN
38	DD	173	VAL
38	DD	198	ASN
38	DD	211	ARG
38	DD	221	VAL
38	DD	228	PRO

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
38	DD	241	PRO
38	DD	255	LYS
38	DD	261	LYS
38	DD	271	ILE
39	DE	21	VAL
39	DE	33	VAL
39	DE	44	TYR
39	DE	61	ARG
39	DE	64	LYS
39	DE	67	PHE
39	DE	69	LYS
39	DE	78	LEU
39	DE	79	ARG
39	DE	113	PHE
39	DE	118	LYS
39	DE	119	ARG
39	DE	122	PHE
39	DE	127	ASP
39	DE	134	ILE
39	DE	141	ILE
39	DE	143	ASN
39	DE	178	GLU
39	DE	181	LEU
39	DE	183	LEU
39	DE	184	VAL
39	DE	192	ASN
39	DE	202	LYS
39	DE	203	LYS
40	DF	6	VAL
40	DF	23	ASP
40	DF	24	LEU
40	DF	28	ILE
40	DF	46	ARG
40	DF	50	SER
40	DF	53	THR
40	DF	56	GLU
40	DF	65	TRP
40	DF	66	PRO
40	DF	67	GLN
40	DF	74	ARG
40	DF	77	ASP
40	DF	104	LYS

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Mol	Chain	Res	Type
40	DF	112	MET
40	DF	116	ASP
40	DF	136	THR
40	DF	156	LEU
40	DF	164	ARG
40	DF	169	ASN
40	DF	197	ASP
40	DF	201	VAL
40	DF	202	PHE
41	DG	16	ARG
41	DG	19	LEU
41	DG	21	ARG
41	DG	22	ARG
41	DG	23	PHE
41	DG	34	LEU
41	DG	43	LEU
41	DG	45	GLU
41	DG	51	ARG
41	DG	53	LEU
41	DG	58	GLN
41	DG	59	GLU
41	DG	76	SER
41	DG	77	ILE
41	DG	95	ARG
41	DG	121	ASN
41	DG	123	ASN
41	DG	125	PHE
41	DG	126	ASP
41	DG	131	TYR
41	DG	133	LEU
41	DG	136	ARG
41	DG	143	GLU
41	DG	150	ASP
41	DG	155	MET
41	DG	160	VAL
41	DG	170	ARG
41	DG	174	GLU
42	DH	41	MET
42	DH	53	GLU
42	DH	61	HIS
42	DH	68	THR
42	DH	83	TYR

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Mol	Chain	Res	Type
42	DH	86	GLU
42	DH	89	ILE
42	DH	105	LEU
42	DH	123	PHE
42	DH	136	ILE
42	DH	143	GLN
42	DH	153	LYS
42	DH	157	TYR
42	DH	158	HIS
42	DH	159	GLU
42	DH	170	ARG
43	DI	1	MET
43	DI	3	VAL
43	DI	5	LEU
43	DI	7	GLU
43	DI	10	GLU
43	DI	12	LEU
43	DI	25	TYR
43	DI	38	LEU
43	DI	51	ILE
43	DI	54	GLN
43	DI	64	GLU
43	DI	86	THR
43	DI	96	ASP
43	DI	118	LYS
43	DI	122	GLU
43	DI	123	LEU
43	DI	126	TYR
43	DI	130	TYR
43	DI	136	VAL
44	DN	4	TYR
44	DN	19	GLU
44	DN	34	LEU
44	DN	39	ARG
44	DN	42	TRP
44	DN	56	ASN
44	DN	62	VAL
44	DN	66	LYS
44	DN	82	LEU
44	DN	87	LEU
44	DN	94	HIS
44	DN	99	LEU

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Mol	Chain	Res	Type
44	DN	109	LYS
44	DN	111	PRO
44	DN	123	TYR
44	DN	127	ASP
44	DN	128	HIS
44	DN	131	GLN
45	DO	1	MET
45	DO	7	TYR
45	DO	9	GLU
45	DO	19	ILE
45	DO	24	VAL
45	DO	25	LEU
45	DO	32	TYR
45	DO	39	ILE
45	DO	45	GLU
45	DO	47	ILE
45	DO	48	PRO
45	DO	69	ILE
45	DO	73	ASP
45	DO	80	ASP
45	DO	82	ASN
45	DO	86	ILE
45	DO	87	ILE
45	DO	91	LEU
45	DO	102	VAL
45	DO	104	ARG
45	DO	115	VAL
46	DP	6	LEU
46	DP	13	ASN
46	DP	16	ARG
46	DP	18	ARG
46	DP	21	ARG
46	DP	32	THR
46	DP	35	HIS
46	DP	50	ARG
46	DP	59	LEU
46	DP	61	ARG
46	DP	62	LEU
46	DP	71	VAL
46	DP	75	ILE
46	DP	85	LEU
46	DP	91	PHE

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Mol	Chain	Res	Type
46	DP	101	VAL
46	DP	107	LYS
46	DP	110	TYR
46	DP	112	LEU
46	DP	115	LEU
46	DP	122	PRO
46	DP	123	LEU
46	DP	125	VAL
46	DP	130	PHE
46	DP	138	LEU
46	DP	144	GLU
46	DP	147	LEU
46	DP	148	LEU
47	DQ	9	TYR
47	DQ	17	LEU
47	DQ	22	LYS
47	DQ	26	TYR
47	DQ	29	PHE
47	DQ	43	THR
47	DQ	55	VAL
47	DQ	57	HIS
47	DQ	68	ILE
47	DQ	79	LEU
47	DQ	80	GLU
47	DQ	83	MET
47	DQ	87	LYS
47	DQ	91	GLU
47	DQ	106	VAL
47	DQ	127	ILE
47	DQ	131	ILE
47	DQ	137	TYR
48	DR	2	ARG
48	DR	3	HIS
48	DR	5	LYS
48	DR	13	HIS
48	DR	18	LEU
48	DR	20	LEU
48	DR	29	LEU
48	DR	44	LEU
48	DR	49	ASP
48	DR	60	LEU
48	DR	65	LEU

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Mol	Chain	Res	Type
48	DR	71	GLN
48	DR	74	LYS
48	DR	75	LEU
48	DR	79	LEU
48	DR	99	LYS
48	DR	103	ARG
48	DR	104	ARG
48	DR	113	LEU
48	DR	118	GLU
49	DS	11	LYS
49	DS	12	PHE
49	DS	13	ARG
49	DS	16	ASN
49	DS	36	TYR
49	DS	54	LEU
49	DS	56	LEU
49	DS	61	ASN
49	DS	62	LYS
49	DS	71	ARG
49	DS	89	ARG
49	DS	92	TYR
49	DS	93	LYS
49	DS	95	HIS
49	DS	106	ARG
50	DT	1	MET
50	DT	3	ARG
50	DT	11	GLU
50	DT	12	SER
50	DT	13	ARG
50	DT	14	TYR
50	DT	22	PHE
50	DT	28	VAL
50	DT	29	ARG
50	DT	38	ASN
50	DT	41	ARG
50	DT	44	ASP
50	DT	53	ARG
50	DT	58	ASN
50	DT	63	VAL
50	DT	65	LYS
50	DT	74	ARG
50	DT	81	PRO

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Mol	Chain	Res	Type
50	DT	87	ASP
50	DT	93	ARG
50	DT	96	ARG
50	DT	99	LEU
50	DT	101	PHE
50	DT	102	ILE
50	DT	108	ARG
50	DT	110	ILE
50	DT	112	ARG
50	DT	115	ARG
50	DT	122	ASP
50	DT	123	GLN
50	DT	128	GLU
51	DU	3	ARG
51	DU	9	VAL
51	DU	14	HIS
51	DU	28	ARG
51	DU	30	LYS
51	DU	31	SER
51	DU	49	HIS
51	DU	64	ARG
51	DU	69	CYS
51	DU	92	ARG
51	DU	93	LYS
52	DV	6	LYS
52	DV	13	ARG
52	DV	18	LEU
52	DV	19	LYS
52	DV	21	ARG
52	DV	40	LEU
52	DV	66	ARG
52	DV	71	LEU
52	DV	78	LYS
52	DV	82	ARG
52	DV	83	ARG
52	DV	88	ARG
52	DV	94	LEU
52	DV	98	GLU
53	DW	11	ARG
53	DW	19	LEU
53	DW	20	VAL
53	DW	49	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
53	DW	51	LEU
53	DW	57	ASN
53	DW	61	ASN
53	DW	67	ASP
53	DW	69	LEU
53	DW	70	TYR
53	DW	75	TYR
53	DW	88	ARG
53	DW	107	LEU
54	DX	16	LYS
54	DX	26	TYR
54	DX	27	THR
54	DX	28	PHE
54	DX	29	TRP
54	DX	36	LYS
54	DX	40	LYS
54	DX	45	THR
54	DX	55	ASN
54	DX	59	VAL
54	DX	65	ARG
54	DX	66	LEU
54	DX	70	LEU
54	DX	76	ARG
54	DX	77	LYS
54	DX	78	LYS
55	DY	2	ARG
55	DY	6	HIS
55	DY	8	LYS
55	DY	28	LYS
55	DY	29	GLU
55	DY	31	LEU
55	DY	32	PRO
55	DY	38	ILE
55	DY	47	LYS
55	DY	56	PRO
55	DY	60	PHE
55	DY	62	GLU
55	DY	66	PRO
55	DY	71	LYS
55	DY	72	VAL
55	DY	75	ILE
55	DY	76	CYS

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Mol	Chain	Res	Type
55	DY	89	PHE
55	DY	92	ASN
55	DY	96	ILE
55	DY	97	ARG
56	DZ	5	LEU
56	DZ	6	LYS
56	DZ	9	TYR
56	DZ	10	ARG
56	DZ	11	GLU
56	DZ	19	ARG
56	DZ	24	LEU
56	DZ	39	VAL
56	DZ	40	ASP
56	DZ	41	LEU
56	DZ	42	VAL
56	DZ	45	ASP
56	DZ	59	LEU
56	DZ	71	VAL
56	DZ	72	ARG
56	DZ	74	VAL
56	DZ	76	LEU
56	DZ	79	ARG
56	DZ	84	GLU
56	DZ	91	LEU
56	DZ	103	ARG
56	DZ	108	PRO
56	DZ	119	GLU
56	DZ	121	HIS
56	DZ	123	ASP
56	DZ	136	PHE
56	DZ	144	LEU
56	DZ	148	ASP
56	DZ	150	LEU
56	DZ	163	LEU
56	DZ	166	SER

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (303) such sidechains are listed below:

Mol	Chain	Res	Type
2	AB	37	ASN
2	AB	78	GLN
2	AB	135	GLN

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Mol	Chain	Res	Type
2	AB	146	GLN
2	AB	204	ASN
2	AB	212	GLN
3	AC	28	GLN
3	AC	31	HIS
3	AC	69	HIS
3	AC	98	ASN
3	AC	123	GLN
3	AC	170	GLN
3	AC	181	ASN
4	AD	45	GLN
4	AD	62	GLN
4	AD	119	GLN
4	AD	161	ASN
4	AD	201	GLN
5	AE	56	GLN
5	AE	73	ASN
5	AE	78	HIS
5	AE	127	ASN
6	AF	7	ASN
6	AF	18	GLN
6	AF	27	GLN
6	AF	32	ASN
6	AF	94	GLN
6	AF	100	ASN
7	AG	11	GLN
7	AG	13	GLN
7	AG	28	ASN
7	AG	68	ASN
7	AG	84	ASN
7	AG	106	GLN
7	AG	109	ASN
7	AG	148	ASN
8	AH	15	ASN
8	AH	78	GLN
8	AH	82	HIS
9	AI	23	ASN
9	AI	124	GLN
10	AJ	13	HIS
11	AK	26	ASN
11	AK	104	GLN
11	AK	117	ASN

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Mol	Chain	Res	Type
12	AL	8	ASN
12	AL	9	GLN
12	AL	49	ASN
12	AL	75	HIS
12	AL	99	HIS
13	AM	40	ASN
13	AM	77	ASN
15	AO	13	GLN
15	AO	37	ASN
15	AO	46	HIS
15	AO	62	GLN
16	AP	13	HIS
16	AP	76	GLN
16	AP	82	GLN
17	AQ	16	GLN
18	AR	36	ASN
19	AS	47	HIS
19	AS	53	ASN
20	AT	16	HIS
20	AT	18	GLN
20	AT	26	ASN
25	AY	34	ASN
25	AY	53	ASN
25	AY	91	ASN
25	AY	174	GLN
26	B0	29	GLN
26	B0	35	ASN
27	B1	19	GLN
27	B1	42	GLN
27	B1	45	ASN
27	B1	66	HIS
28	B2	46	GLN
28	B2	56	GLN
29	B3	19	GLN
29	B3	46	ASN
31	B5	23	HIS
31	B5	43	HIS
32	B6	20	ASN
32	B6	26	ASN
32	B6	32	ASN
33	B7	6	GLN
33	B7	8	ASN

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Mol	Chain	Res	Type
34	B8	35	GLN
37	BC	44	HIS
37	BC	56	GLN
37	BC	57	ASN
38	BD	58	HIS
38	BD	126	GLN
38	BD	166	GLN
38	BD	186	HIS
38	BD	198	ASN
39	BE	35	GLN
39	BE	48	GLN
39	BE	54	GLN
39	BE	55	ASN
39	BE	132	HIS
39	BE	192	ASN
40	BF	8	GLN
40	BF	69	HIS
40	BF	75	HIS
40	BF	160	ASN
40	BF	169	ASN
41	BG	27	ASN
41	BG	41	GLN
41	BG	123	ASN
42	BH	74	ASN
43	BI	11	ASN
43	BI	43	ASN
43	BI	105	HIS
44	BN	56	ASN
44	BN	101	HIS
44	BN	128	HIS
45	BO	3	GLN
45	BO	13	ASN
46	BP	13	ASN
46	BP	35	HIS
47	BQ	12	GLN
47	BQ	13	GLN
47	BQ	123	HIS
47	BQ	141	GLN
48	BR	11	ASN
48	BR	13	HIS
48	BR	61	HIS
48	BR	91	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
49	BS	16	ASN
49	BS	61	ASN
49	BS	84	GLN
50	BT	38	ASN
50	BT	55	ASN
50	BT	58	ASN
50	BT	84	GLN
50	BT	90	GLN
50	BT	123	GLN
51	BU	49	HIS
51	BU	66	ASN
51	BU	81	HIS
51	BU	94	ASN
51	BU	117	GLN
52	BV	11	GLN
52	BV	89	GLN
53	BW	40	ASN
53	BW	57	ASN
54	BX	31	HIS
54	BX	41	ASN
54	BX	55	ASN
56	BZ	73	GLN
56	BZ	118	GLN
56	BZ	132	ASN
2	CB	37	ASN
2	CB	78	GLN
2	CB	135	GLN
2	CB	146	GLN
2	CB	204	ASN
2	CB	212	GLN
3	CC	28	GLN
3	CC	31	HIS
3	CC	69	HIS
3	CC	98	ASN
3	CC	123	GLN
3	CC	170	GLN
3	CC	181	ASN
4	CD	62	GLN
4	CD	119	GLN
4	CD	161	ASN
4	CD	201	GLN
5	CE	56	GLN

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Mol	Chain	Res	Type
5	CE	73	ASN
5	CE	78	HIS
5	CE	127	ASN
6	CF	7	ASN
6	CF	27	GLN
6	CF	32	ASN
6	CF	94	GLN
6	CF	100	ASN
7	CG	11	GLN
7	CG	13	GLN
7	CG	28	ASN
7	CG	68	ASN
7	CG	84	ASN
7	CG	106	GLN
7	CG	109	ASN
7	CG	148	ASN
8	CH	15	ASN
8	CH	78	GLN
8	CH	82	HIS
9	CI	23	ASN
9	CI	124	GLN
10	CJ	13	HIS
11	CK	104	GLN
11	CK	117	ASN
12	CL	8	ASN
12	CL	9	GLN
12	CL	49	ASN
12	CL	75	HIS
12	CL	99	HIS
13	CM	40	ASN
13	CM	77	ASN
13	CM	101	GLN
15	CO	13	GLN
15	CO	37	ASN
15	CO	46	HIS
16	CP	13	HIS
16	CP	76	GLN
16	CP	82	GLN
17	CQ	16	GLN
18	CR	36	ASN
19	CS	47	HIS
19	CS	53	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
20	CT	16	HIS
20	CT	18	GLN
20	CT	26	ASN
25	CY	34	ASN
25	CY	91	ASN
25	CY	174	GLN
26	D0	29	GLN
26	D0	35	ASN
27	D1	16	ASN
27	D1	19	GLN
27	D1	56	GLN
28	D2	56	GLN
29	D3	19	GLN
29	D3	46	ASN
31	D5	23	HIS
31	D5	43	HIS
32	D6	20	ASN
32	D6	26	ASN
32	D6	32	ASN
33	D7	6	GLN
33	D7	8	ASN
34	D8	35	GLN
37	DC	44	HIS
37	DC	56	GLN
37	DC	57	ASN
38	DD	58	HIS
38	DD	126	GLN
38	DD	166	GLN
38	DD	186	HIS
38	DD	198	ASN
38	DD	253	GLN
39	DE	35	GLN
39	DE	48	GLN
39	DE	54	GLN
39	DE	55	ASN
39	DE	132	HIS
39	DE	192	ASN
40	DF	8	GLN
40	DF	69	HIS
40	DF	75	HIS
40	DF	160	ASN
40	DF	169	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
41	DG	27	ASN
41	DG	40	ASN
41	DG	66	GLN
41	DG	121	ASN
41	DG	130	ASN
41	DG	132	ASN
42	DH	74	ASN
42	DH	147	ASN
43	DI	11	ASN
43	DI	43	ASN
43	DI	105	HIS
44	DN	56	ASN
44	DN	101	HIS
44	DN	128	HIS
45	DO	3	GLN
45	DO	13	ASN
46	DP	13	ASN
47	DQ	12	GLN
47	DQ	13	GLN
47	DQ	123	HIS
47	DQ	141	GLN
48	DR	11	ASN
48	DR	13	HIS
48	DR	61	HIS
48	DR	91	GLN
49	DS	16	ASN
49	DS	61	ASN
49	DS	84	GLN
50	DT	38	ASN
50	DT	55	ASN
50	DT	58	ASN
50	DT	84	GLN
50	DT	90	GLN
50	DT	123	GLN
51	DU	49	HIS
51	DU	66	ASN
51	DU	81	HIS
51	DU	94	ASN
51	DU	117	GLN
52	DV	11	GLN
52	DV	89	GLN
53	DW	40	ASN

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Mol	Chain	Res	Type
53	DW	57	ASN
54	DX	31	HIS
54	DX	41	ASN
54	DX	55	ASN
55	DY	92	ASN
56	DZ	55	HIS

### 5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1503/1522 (98%)	210 (13%)	31 (2%)
1	CA	1503/1522 (98%)	214 (14%)	29 (1%)
22	AV	16/76 (21%)	0	0
22	CV	16/76 (21%)	0	0
23	AW	76/77 (98%)	26 (34%)	0
23	CW	76/77 (98%)	20 (26%)	0
24	AX	10/31 (32%)	3 (30%)	0
24	CX	10/31 (32%)	2 (20%)	0
35	BA	2766/2782 (99%)	577 (20%)	57 (2%)
35	DA	2766/2782 (99%)	580 (20%)	57 (2%)
36	BB	118/122 (96%)	19 (16%)	1 (0%)
36	DB	118/122 (96%)	19 (16%)	1 (0%)
All	All	8978/9220 (97%)	1670 (18%)	176 (1%)

All (1670) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	9	G
1	AA	31	G
1	AA	32	A
1	AA	39	G
1	AA	47	C
1	AA	48	C
1	AA	51	A
1	AA	61	G
1	AA	65	U
1	AA	80	G
1	AA	81	U
1	AA	90	U
1	AA	97	G
1	AA	98	G

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Mol	Chain	Res	Type
1	AA	116	A
1	AA	120	A
1	AA	121	C
1	AA	131	C
1	AA	146	G
1	AA	150	C
1	AA	172	A
1	AA	189(F)	U
1	AA	189(H)	G
1	AA	195	A
1	AA	197	A
1	AA	204	U
1	AA	244	U
1	AA	247	G
1	AA	251	G
1	AA	266	G
1	AA	267	C
1	AA	274	A
1	AA	279	A
1	AA	289	G
1	AA	316	G
1	AA	328	C
1	AA	329	A
1	AA	332	G
1	AA	345	C
1	AA	352	C
1	AA	353	A
1	AA	354	G
1	AA	367	U
1	AA	372	C
1	AA	397	A
1	AA	412	A
1	AA	413	G
1	AA	414	A
1	AA	422	C
1	AA	423	G
1	AA	428	G
1	AA	429	U
1	AA	430	A
1	AA	435	C
1	AA	436	C
1	AA	437	U

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Mol	Chain	Res	Type
1	AA	442	C
1	AA	452	A
1	AA	461	A
1	AA	482	A
1	AA	484	G
1	AA	485	G
1	AA	496	A
1	AA	498	U
1	AA	509	A
1	AA	510	A
1	AA	511	C
1	AA	518	C
1	AA	524	G
1	AA	527	G
1	AA	531	U
1	AA	532	A
1	AA	533	A
1	AA	534	U
1	AA	536	C
1	AA	547	A
1	AA	559	A
1	AA	561	U
1	AA	562	C
1	AA	564	C
1	AA	566	G
1	AA	570	G
1	AA	572	A
1	AA	573	A
1	AA	575	G
1	AA	576	G
1	AA	577	G
1	AA	596	C
1	AA	631	G
1	AA	632	A
1	AA	653	A
1	AA	687	A
1	AA	688	G
1	AA	731	G
1	AA	749	C
1	AA	755	G
1	AA	793	U
1	AA	794	A

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Mol	Chain	Res	Type
1	AA	803	G
1	AA	816	A
1	AA	817	C
1	AA	819	A
1	AA	820	U
1	AA	821	G
1	AA	828	A
1	AA	833	U
1	AA	839	U
1	AA	840	C
1	AA	841	U
1	AA	848	C
1	AA	859	A
1	AA	874	G
1	AA	902	G
1	AA	914	A
1	AA	926	G
1	AA	927	G
1	AA	934	C
1	AA	935	A
1	AA	960	U
1	AA	966	G
1	AA	968	A
1	AA	969	A
1	AA	974	A
1	AA	975	A
1	AA	976	G
1	AA	977	A
1	AA	978	A
1	AA	980	C
1	AA	991	U
1	AA	992	U
1	AA	993	G
1	AA	1026	G
1	AA	1050	G
1	AA	1053	G
1	AA	1054	C
1	AA	1064	G
1	AA	1065	U
1	AA	1066	C
1	AA	1068	G
1	AA	1085	U

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Mol	Chain	Res	Type
1	AA	1094	G
1	AA	1095	U
1	AA	1101	A
1	AA	1117	G
1	AA	1118	C
1	AA	1123	A
1	AA	1124	G
1	AA	1125	U
1	AA	1126	U
1	AA	1129	C
1	AA	1130	A
1	AA	1131	G
1	AA	1137	C
1	AA	1138	G
1	AA	1139	G
1	AA	1146	A
1	AA	1147	C
1	AA	1152	A
1	AA	1159	U
1	AA	1184	G
1	AA	1187	G
1	AA	1190	G
1	AA	1196	U
1	AA	1197	G
1	AA	1212	U
1	AA	1213	A
1	AA	1225	A
1	AA	1227	A
1	AA	1238	A
1	AA	1249	C
1	AA	1256	A
1	AA	1257	U
1	AA	1278	U
1	AA	1280	A
1	AA	1281	U
1	AA	1282	C
1	AA	1286	A
1	AA	1287	A
1	AA	1294	G
1	AA	1297	C
1	AA	1300	G
1	AA	1301	U

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Mol	Chain	Res	Type
1	AA	1302	U
1	AA	1305	G
1	AA	1317	C
1	AA	1320	C
1	AA	1322	C
1	AA	1325	C
1	AA	1331	G
1	AA	1335	C
1	AA	1346	A
1	AA	1347	G
1	AA	1364	U
1	AA	1398	A
1	AA	1419	G
1	AA	1432	G
1	AA	1442(A)	G
1	AA	1442(B)	A
1	AA	1443	G
1	AA	1452	C
1	AA	1456	G
1	AA	1487	G
1	AA	1492	A
1	AA	1499	A
1	AA	1504	G
1	AA	1505	G
1	AA	1506	U
1	AA	1517	G
1	AA	1529	G
1	AA	1530	G
23	AW	3	C
23	AW	4	G
23	AW	5	G
23	AW	8	U
23	AW	9	G
23	AW	17	C
23	AW	18	U
23	AW	19	G
23	AW	20	G
23	AW	21	U
23	AW	22	A
23	AW	24	C
23	AW	31	G
23	AW	33	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
23	AW	38	A
23	AW	39	A
23	AW	41	C
23	AW	48	U
23	AW	49	C
23	AW	50	G
23	AW	54	G
23	AW	61	U
23	AW	62	C
23	AW	74	A
23	AW	75	C
23	AW	77	A
24	AX	13	A
24	AX	17	U
24	AX	22	U
35	BA	10	G
35	BA	17	G
35	BA	28	A
35	BA	34	C
35	BA	35	G
35	BA	45	C
35	BA	49	A
35	BA	50	U
35	BA	51	G
35	BA	55	G
35	BA	68	G
35	BA	69	C
35	BA	71	A
35	BA	72	U
35	BA	73	A
35	BA	75	G
35	BA	83	G
35	BA	84	A
35	BA	85	G
35	BA	88	G
35	BA	90	U
35	BA	94	C
35	BA	95	G
35	BA	99	U
35	BA	100	G
35	BA	102	G
35	BA	118	A

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Mol	Chain	Res	Type
35	BA	120	U
35	BA	132	G
35	BA	139	G
35	BA	139(A)	G
35	BA	140	G
35	BA	142	A
35	BA	142(A)	C
35	BA	143(A)	C
35	BA	146	G
35	BA	149	A
35	BA	157	U
35	BA	158	U
35	BA	174	C
35	BA	182	A
35	BA	196	A
35	BA	197	A
35	BA	199	A
35	BA	205	G
35	BA	215	G
35	BA	216	A
35	BA	221	A
35	BA	222	A
35	BA	228	A
35	BA	229	A
35	BA	248	G
35	BA	249	C
35	BA	252	G
35	BA	261	G
35	BA	271(K)	U
35	BA	271(L)	U
35	BA	271(M)	G
35	BA	271(N)	U
35	BA	271(O)	C
35	BA	271(P)	C
35	BA	271(T)	C
35	BA	271(Y)	U
35	BA	272	G
35	BA	272(B)	G
35	BA	272(H)	C
35	BA	274	G
35	BA	275	G
35	BA	283	A

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Mol	Chain	Res	Type
35	BA	284	U
35	BA	286	C
35	BA	287	C
35	BA	292	C
35	BA	310	A
35	BA	311	A
35	BA	329	G
35	BA	330	A
35	BA	332	A
35	BA	333	G
35	BA	335	C
35	BA	343	C
35	BA	349	G
35	BA	352	G
35	BA	353	G
35	BA	356	G
35	BA	362	U
35	BA	363(F)	A
35	BA	365	C
35	BA	372	G
35	BA	386	G
35	BA	387	U
35	BA	388	G
35	BA	405	U
35	BA	406	G
35	BA	411	G
35	BA	416	C
35	BA	418	G
35	BA	428	A
35	BA	444	C
35	BA	448	U
35	BA	451	C
35	BA	456	C
35	BA	457	A
35	BA	470	A
35	BA	475	U
35	BA	481	G
35	BA	482	A
35	BA	494	G
35	BA	505	A
35	BA	508	G
35	BA	509	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	BA	512	G
35	BA	525	U
35	BA	529	A
35	BA	531	C
35	BA	532	A
35	BA	533	G
35	BA	537	C
35	BA	542	C
35	BA	543	C
35	BA	547	A
35	BA	548	A
35	BA	549	G
35	BA	551	G
35	BA	556	G
35	BA	562	U
35	BA	563	G
35	BA	572	A
35	BA	573	G
35	BA	575	A
35	BA	586	A
35	BA	588	U
35	BA	604	G
35	BA	607	U
35	BA	614(A)	U
35	BA	614(B)	G
35	BA	614(C)	A
35	BA	615	G
35	BA	620	G
35	BA	622	G
35	BA	627	A
35	BA	637	A
35	BA	645	C
35	BA	646	A
35	BA	650	C
35	BA	652	C
35	BA	656	G
35	BA	670	A
35	BA	671	C
35	BA	686	G
35	BA	687	C
35	BA	708	C
35	BA	717	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	BA	722	A
35	BA	730	C
35	BA	753	C
35	BA	764	A
35	BA	765	G
35	BA	776	G
35	BA	782	A
35	BA	784	A
35	BA	785	G
35	BA	790	C
35	BA	791	C
35	BA	792	G
35	BA	805	G
35	BA	812	C
35	BA	819	A
35	BA	827	U
35	BA	828	U
35	BA	846	C
35	BA	848	G
35	BA	857	C
35	BA	859	G
35	BA	864	G
35	BA	866	A
35	BA	878	A
35	BA	892	G
35	BA	896	A
35	BA	897	C
35	BA	898	C
35	BA	899	A
35	BA	904	C
35	BA	910	A
35	BA	917	A
35	BA	926	A
35	BA	932	G
35	BA	941	A
35	BA	945	A
35	BA	946	G
35	BA	955	C
35	BA	956	G
35	BA	957	A
35	BA	958	U
35	BA	959	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	BA	961	C
35	BA	964	C
35	BA	965	C
35	BA	973	A
35	BA	974	G
35	BA	975	C
35	BA	980	A
35	BA	983	A
35	BA	985	C
35	BA	990	A
35	BA	991	C
35	BA	996	A
35	BA	1011	G
35	BA	1012	U
35	BA	1013	C
35	BA	1017	G
35	BA	1020	A
35	BA	1022	G
35	BA	1023	U
35	BA	1025	G
35	BA	1026	U
35	BA	1033	U
35	BA	1039	G
35	BA	1040	C
35	BA	1041	C
35	BA	1042	G
35	BA	1044	G
35	BA	1045	A
35	BA	1047	G
35	BA	1049	C
35	BA	1052	C
35	BA	1106	A
35	BA	1110	G
35	BA	1111	A
35	BA	1112	G
35	BA	1113	U
35	BA	1115	G
35	BA	1129	A
35	BA	1130	U
35	BA	1135	C
35	BA	1136	G
35	BA	1143	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	BA	1155	A
35	BA	1156	A
35	BA	1159	U
35	BA	1173	G
35	BA	1174	A
35	BA	1175	U
35	BA	1176	G
35	BA	1177	A
35	BA	1178	C
35	BA	1194	A
35	BA	1195	G
35	BA	1205	U
35	BA	1210	A
35	BA	1211	U
35	BA	1212	G
35	BA	1218	C
35	BA	1221	C
35	BA	1241	A
35	BA	1247	A
35	BA	1248	G
35	BA	1249	U
35	BA	1251	C
35	BA	1253	A
35	BA	1254	A
35	BA	1255	U
35	BA	1256	G
35	BA	1265	A
35	BA	1271	G
35	BA	1272	A
35	BA	1276	A
35	BA	1281	G
35	BA	1300	U
35	BA	1301	A
35	BA	1302	A
35	BA	1314	C
35	BA	1319	G
35	BA	1329	U
35	BA	1330	C
35	BA	1332	G
35	BA	1345	C
35	BA	1349	A
35	BA	1359	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	BA	1365	A
35	BA	1368	G
35	BA	1379	A
35	BA	1380	G
35	BA	1385	G
35	BA	1386	C
35	BA	1390	U
35	BA	1407	C
35	BA	1412	A
35	BA	1416	G
35	BA	1417	C
35	BA	1420	U
35	BA	1421	G
35	BA	1428	C
35	BA	1437	C
35	BA	1445	A
35	BA	1449	A
35	BA	1450	G
35	BA	1460	A
35	BA	1461	G
35	BA	1467	C
35	BA	1471	A
35	BA	1475	G
35	BA	1478	G
35	BA	1482	G
35	BA	1484	G
35	BA	1485	G
35	BA	1490	A
35	BA	1493	C
35	BA	1494	A
35	BA	1495	A
35	BA	1497	U
35	BA	1498	C
35	BA	1502	C
35	BA	1505	C
35	BA	1508	A
35	BA	1509	C
35	BA	1509(A)	A
35	BA	1528(A)	A
35	BA	1529	G
35	BA	1530	C
35	BA	1532	C

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Mol	Chain	Res	Type
35	BA	1533	G
35	BA	1543	C
35	BA	1545	A
35	BA	1547	C
35	BA	1554	A
35	BA	1558	A
35	BA	1559	G
35	BA	1569	A
35	BA	1578	U
35	BA	1579	A
35	BA	1584	C
35	BA	1586	A
35	BA	1587	A
35	BA	1591	G
35	BA	1594	G
35	BA	1595	G
35	BA	1603	A
35	BA	1608	A
35	BA	1609	A
35	BA	1610	A
35	BA	1613	G
35	BA	1614	A
35	BA	1615	C
35	BA	1616	A
35	BA	1617	C
35	BA	1635	G
35	BA	1640	C
35	BA	1648	C
35	BA	1654	A
35	BA	1674	G
35	BA	1678	G
35	BA	1694	C
35	BA	1696	G
35	BA	1707	G
35	BA	1718	G
35	BA	1739	U
35	BA	1741	A
35	BA	1742	G
35	BA	1746	G
35	BA	1748	G
35	BA	1763	G
35	BA	1764	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	BA	1773	A
35	BA	1780	A
35	BA	1791	A
35	BA	1799	G
35	BA	1800	C
35	BA	1816	G
35	BA	1820	U
35	BA	1835	G
35	BA	1847	A
35	BA	1854	A
35	BA	1858	G
35	BA	1865	G
35	BA	1866	C
35	BA	1877	A
35	BA	1878	G
35	BA	1880	C
35	BA	1882	C
35	BA	1885	A
35	BA	1888	G
35	BA	1900	A
35	BA	1903	G
35	BA	1906	G
35	BA	1912	A
35	BA	1913	A
35	BA	1929	G
35	BA	1936	A
35	BA	1938	A
35	BA	1955	U
35	BA	1963	U
35	BA	1964	G
35	BA	1965	C
35	BA	1967	C
35	BA	1969	A
35	BA	1971	A
35	BA	1972	A
35	BA	1987	G
35	BA	1988	C
35	BA	1991	U
35	BA	1993	U
35	BA	2023	G
35	BA	2031	A
35	BA	2033	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	BA	2034	U
35	BA	2036	C
35	BA	2043	C
35	BA	2051	A
35	BA	2055	C
35	BA	2056	G
35	BA	2060	A
35	BA	2061	G
35	BA	2062	A
35	BA	2069	G
35	BA	2093	G
35	BA	2099	U
35	BA	2103	C
35	BA	2104	G
35	BA	2108	C
35	BA	2110	G
35	BA	2111	C
35	BA	2112	G
35	BA	2116	G
35	BA	2117	A
35	BA	2118	U
35	BA	2119	A
35	BA	2120	G
35	BA	2122	U
35	BA	2127	G
35	BA	2128	C
35	BA	2163	C
35	BA	2164	C
35	BA	2165	G
35	BA	2166	G
35	BA	2169	A
35	BA	2171	A
35	BA	2172	U
35	BA	2173	A
35	BA	2176	A
35	BA	2179	C
35	BA	2185	C
35	BA	2187	G
35	BA	2190	G
35	BA	2198	A
35	BA	2199	A
35	BA	2200	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	BA	2207	G
35	BA	2208	A
35	BA	2218	U
35	BA	2225	A
35	BA	2226	C
35	BA	2238	G
35	BA	2239	G
35	BA	2243	U
35	BA	2251	G
35	BA	2263	C
35	BA	2275	C
35	BA	2283	C
35	BA	2285	C
35	BA	2287	A
35	BA	2290	G
35	BA	2294	C
35	BA	2297	C
35	BA	2305	A
35	BA	2307	G
35	BA	2308	G
35	BA	2311	A
35	BA	2313	C
35	BA	2316	C
35	BA	2319	G
35	BA	2320	A
35	BA	2325	G
35	BA	2334	G
35	BA	2336	A
35	BA	2345	G
35	BA	2347	C
35	BA	2349	G
35	BA	2358	G
35	BA	2383	G
35	BA	2385	C
35	BA	2387	U
35	BA	2388	A
35	BA	2398	U
35	BA	2399	G
35	BA	2400	G
35	BA	2402	C
35	BA	2408	U
35	BA	2423	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	BA	2425	A
35	BA	2427	C
35	BA	2428	G
35	BA	2429	G
35	BA	2430	A
35	BA	2431	U
35	BA	2439	A
35	BA	2441	C
35	BA	2447	G
35	BA	2448	A
35	BA	2465	C
35	BA	2469	A
35	BA	2470	G
35	BA	2474	C
35	BA	2476	A
35	BA	2478	A
35	BA	2482	G
35	BA	2483	C
35	BA	2490	G
35	BA	2491	U
35	BA	2498	C
35	BA	2502	G
35	BA	2505	G
35	BA	2518	A
35	BA	2520	C
35	BA	2523	G
35	BA	2529	G
35	BA	2534	A
35	BA	2543	G
35	BA	2554	U
35	BA	2559	C
35	BA	2566	A
35	BA	2567	G
35	BA	2571	C
35	BA	2572	A
35	BA	2573	C
35	BA	2582	G
35	BA	2585	U
35	BA	2586	C
35	BA	2602	A
35	BA	2609	U
35	BA	2610	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	BA	2611	U
35	BA	2612	C
35	BA	2615	U
35	BA	2630	G
35	BA	2640	G
35	BA	2646	C
35	BA	2655	G
35	BA	2673	G
35	BA	2675	A
35	BA	2682	U
35	BA	2690	C
35	BA	2691	C
35	BA	2702	U
35	BA	2703	C
35	BA	2712(A)	A
35	BA	2713	A
35	BA	2720	U
35	BA	2726	U
35	BA	2733	A
35	BA	2752	C
35	BA	2754	U
35	BA	2759	G
35	BA	2762	G
35	BA	2763	G
35	BA	2765	A
35	BA	2778	A
35	BA	2779	U
35	BA	2781	A
35	BA	2789	C
35	BA	2790	A
35	BA	2791	C
35	BA	2796	U
35	BA	2801(A)	A
35	BA	2802	G
35	BA	2803	C
35	BA	2808	U
35	BA	2821	A
35	BA	2823	A
35	BA	2833	G
35	BA	2834	G
35	BA	2835	A
35	BA	2849	U

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Mol	Chain	Res	Type
35	BA	2860	A
35	BA	2864	G
35	BA	2872	G
35	BA	2893	G
36	BB	8	U
36	BB	13	A
36	BB	15	A
36	BB	16	G
36	BB	22	U
36	BB	24	G
36	BB	25	A
36	BB	27	C
36	BB	33	G
36	BB	41	U
36	BB	42	C
36	BB	45	A
36	BB	47	C
36	BB	53	A
36	BB	67	G
36	BB	73	A
36	BB	75	G
36	BB	88	C
36	BB	110	G
1	CA	9	G
1	CA	31	G
1	CA	32	A
1	CA	39	G
1	CA	47	C
1	CA	48	C
1	CA	51	A
1	CA	61	G
1	CA	65	U
1	CA	80	G
1	CA	81	U
1	CA	90	U
1	CA	97	G
1	CA	98	G
1	CA	116	A
1	CA	120	A
1	CA	121	C
1	CA	129(A)	G
1	CA	131	C

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Mol	Chain	Res	Type
1	CA	146	G
1	CA	150	C
1	CA	172	A
1	CA	189(F)	U
1	CA	189(H)	G
1	CA	195	A
1	CA	197	A
1	CA	204	U
1	CA	244	U
1	CA	247	G
1	CA	251	G
1	CA	266	G
1	CA	267	C
1	CA	274	A
1	CA	279	A
1	CA	289	G
1	CA	316	G
1	CA	328	C
1	CA	329	A
1	CA	332	G
1	CA	345	C
1	CA	352	C
1	CA	353	A
1	CA	354	G
1	CA	367	U
1	CA	372	C
1	CA	397	A
1	CA	412	A
1	CA	413	G
1	CA	414	A
1	CA	422	C
1	CA	423	G
1	CA	428	G
1	CA	429	U
1	CA	430	A
1	CA	435	C
1	CA	436	C
1	CA	437	U
1	CA	442	C
1	CA	452	A
1	CA	461	A
1	CA	482	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	CA	484	G
1	CA	485	G
1	CA	496	A
1	CA	498	U
1	CA	509	A
1	CA	510	A
1	CA	511	C
1	CA	518	C
1	CA	524	G
1	CA	527	G
1	CA	531	U
1	CA	532	A
1	CA	533	A
1	CA	534	U
1	CA	536	C
1	CA	547	A
1	CA	559	A
1	CA	561	U
1	CA	562	C
1	CA	564	C
1	CA	566	G
1	CA	572	A
1	CA	573	A
1	CA	575	G
1	CA	576	G
1	CA	577	G
1	CA	596	C
1	CA	631	G
1	CA	632	A
1	CA	653	A
1	CA	687	A
1	CA	688	G
1	CA	731	G
1	CA	748	C
1	CA	749	C
1	CA	755	G
1	CA	793	U
1	CA	794	A
1	CA	803	G
1	CA	816	A
1	CA	817	C
1	CA	819	A

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Mol	Chain	Res	Type
1	CA	820	U
1	CA	821	G
1	CA	828	A
1	CA	833	U
1	CA	839	U
1	CA	840	C
1	CA	841	U
1	CA	848	C
1	CA	859	A
1	CA	874	G
1	CA	902	G
1	CA	914	A
1	CA	926	G
1	CA	927	G
1	CA	934	C
1	CA	935	A
1	CA	960	U
1	CA	966	G
1	CA	968	A
1	CA	969	A
1	CA	974	A
1	CA	975	A
1	CA	976	G
1	CA	977	A
1	CA	978	A
1	CA	980	C
1	CA	991	U
1	CA	992	U
1	CA	993	G
1	CA	1026	G
1	CA	1050	G
1	CA	1053	G
1	CA	1054	C
1	CA	1064	G
1	CA	1065	U
1	CA	1066	C
1	CA	1068	G
1	CA	1085	U
1	CA	1094	G
1	CA	1095	U
1	CA	1101	A
1	CA	1117	G

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Mol	Chain	Res	Type
1	CA	1118	C
1	CA	1123	A
1	CA	1124	G
1	CA	1125	U
1	CA	1126	U
1	CA	1129	C
1	CA	1130	A
1	CA	1131	G
1	CA	1137	C
1	CA	1138	G
1	CA	1139	G
1	CA	1146	A
1	CA	1147	C
1	CA	1152	A
1	CA	1159	U
1	CA	1184	G
1	CA	1187	G
1	CA	1190	G
1	CA	1196	U
1	CA	1197	G
1	CA	1212	U
1	CA	1213	A
1	CA	1225	A
1	CA	1227	A
1	CA	1238	A
1	CA	1249	C
1	CA	1256	A
1	CA	1257	U
1	CA	1278	U
1	CA	1280	A
1	CA	1281	U
1	CA	1282	C
1	CA	1286	A
1	CA	1287	A
1	CA	1294	G
1	CA	1297	C
1	CA	1300	G
1	CA	1301	U
1	CA	1302	U
1	CA	1305	G
1	CA	1317	C
1	CA	1320	C

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Mol	Chain	Res	Type
1	CA	1322	C
1	CA	1325	C
1	CA	1331	G
1	CA	1335	C
1	CA	1347	G
1	CA	1364	U
1	CA	1398	A
1	CA	1419	G
1	CA	1442	G
1	CA	1442(A)	G
1	CA	1442(B)	A
1	CA	1443	G
1	CA	1447	A
1	CA	1452	C
1	CA	1456	G
1	CA	1457	G
1	CA	1492	A
1	CA	1494	G
1	CA	1499	A
1	CA	1504	G
1	CA	1505	G
1	CA	1506	U
1	CA	1517	G
1	CA	1518	A
1	CA	1519	A
1	CA	1529	G
1	CA	1530	G
23	CW	5	G
23	CW	7	G
23	CW	8	U
23	CW	17	C
23	CW	18	U
23	CW	20	G
23	CW	21	U
23	CW	22	A
23	CW	24	C
23	CW	44	A
23	CW	48	U
23	CW	49	C
23	CW	54	G
23	CW	57	C
23	CW	60	A

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Mol	Chain	Res	Type
23	CW	62	C
23	CW	66	C
23	CW	68	C
23	CW	73	A
23	CW	77	A
24	CX	13	A
24	CX	19	U
35	DA	10	G
35	DA	17	G
35	DA	28	A
35	DA	34	C
35	DA	35	G
35	DA	45	C
35	DA	49	A
35	DA	50	U
35	DA	51	G
35	DA	55	G
35	DA	68	G
35	DA	69	C
35	DA	71	A
35	DA	72	U
35	DA	73	A
35	DA	75	G
35	DA	83	G
35	DA	84	A
35	DA	85	G
35	DA	88	G
35	DA	90	U
35	DA	94	C
35	DA	95	G
35	DA	99	U
35	DA	100	G
35	DA	102	G
35	DA	118	A
35	DA	120	U
35	DA	132	G
35	DA	139	G
35	DA	139(A)	G
35	DA	140	G
35	DA	142	A
35	DA	142(A)	C
35	DA	143(A)	C

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Mol	Chain	Res	Type
35	DA	146	G
35	DA	149	A
35	DA	157	U
35	DA	158	U
35	DA	174	C
35	DA	182	A
35	DA	196	A
35	DA	197	A
35	DA	199	A
35	DA	205	G
35	DA	215	G
35	DA	216	A
35	DA	221	A
35	DA	222	A
35	DA	228	A
35	DA	229	A
35	DA	248	G
35	DA	249	C
35	DA	252	G
35	DA	261	G
35	DA	271(K)	U
35	DA	271(L)	U
35	DA	271(M)	G
35	DA	271(N)	U
35	DA	271(O)	C
35	DA	271(P)	C
35	DA	271(T)	C
35	DA	271(Y)	U
35	DA	272	G
35	DA	272(B)	G
35	DA	272(H)	C
35	DA	274	G
35	DA	275	G
35	DA	283	A
35	DA	284	U
35	DA	286	C
35	DA	287	C
35	DA	292	C
35	DA	310	A
35	DA	311	A
35	DA	329	G
35	DA	330	A

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Mol	Chain	Res	Type
35	DA	332	A
35	DA	333	G
35	DA	335	C
35	DA	343	C
35	DA	349	G
35	DA	352	G
35	DA	353	G
35	DA	356	G
35	DA	362	U
35	DA	363(F)	A
35	DA	365	C
35	DA	372	G
35	DA	386	G
35	DA	387	U
35	DA	388	G
35	DA	405	U
35	DA	406	G
35	DA	411	G
35	DA	412	A
35	DA	416	C
35	DA	418	G
35	DA	428	A
35	DA	444	C
35	DA	448	U
35	DA	451	C
35	DA	456	C
35	DA	457	A
35	DA	470	A
35	DA	475	U
35	DA	481	G
35	DA	482	A
35	DA	494	G
35	DA	505	A
35	DA	508	G
35	DA	509	C
35	DA	512	G
35	DA	525	U
35	DA	529	A
35	DA	531	C
35	DA	532	A
35	DA	533	G
35	DA	537	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	DA	542	C
35	DA	543	C
35	DA	547	A
35	DA	548	A
35	DA	549	G
35	DA	551	G
35	DA	556	G
35	DA	562	U
35	DA	563	G
35	DA	572	A
35	DA	573	G
35	DA	575	A
35	DA	586	A
35	DA	588	U
35	DA	604	G
35	DA	607	U
35	DA	614(A)	U
35	DA	614(B)	G
35	DA	614(C)	A
35	DA	615	G
35	DA	620	G
35	DA	622	G
35	DA	627	A
35	DA	637	A
35	DA	645	C
35	DA	646	A
35	DA	650	C
35	DA	652	C
35	DA	656	G
35	DA	670	A
35	DA	671	C
35	DA	686	G
35	DA	687	C
35	DA	708	C
35	DA	717	G
35	DA	722	A
35	DA	730	C
35	DA	753	C
35	DA	764	A
35	DA	765	G
35	DA	776	G
35	DA	782	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	DA	784	A
35	DA	785	G
35	DA	790	C
35	DA	791	C
35	DA	792	G
35	DA	805	G
35	DA	812	C
35	DA	819	A
35	DA	827	U
35	DA	828	U
35	DA	846	C
35	DA	848	G
35	DA	857	C
35	DA	859	G
35	DA	864	G
35	DA	866	A
35	DA	878	A
35	DA	892	G
35	DA	896	A
35	DA	897	C
35	DA	898	C
35	DA	899	A
35	DA	904	C
35	DA	910	A
35	DA	917	A
35	DA	926	A
35	DA	932	G
35	DA	941	A
35	DA	945	A
35	DA	946	G
35	DA	955	C
35	DA	956	G
35	DA	957	A
35	DA	958	U
35	DA	959	A
35	DA	961	C
35	DA	964	C
35	DA	965	C
35	DA	973	A
35	DA	974	G
35	DA	975	C
35	DA	980	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	DA	983	A
35	DA	985	C
35	DA	990	A
35	DA	991	C
35	DA	996	A
35	DA	1011	G
35	DA	1012	U
35	DA	1013	C
35	DA	1017	G
35	DA	1020	A
35	DA	1022	G
35	DA	1023	U
35	DA	1025	G
35	DA	1026	U
35	DA	1033	U
35	DA	1039	G
35	DA	1040	C
35	DA	1041	C
35	DA	1042	G
35	DA	1044	G
35	DA	1045	A
35	DA	1047	G
35	DA	1049	C
35	DA	1052	C
35	DA	1106	A
35	DA	1110	G
35	DA	1111	A
35	DA	1112	G
35	DA	1113	U
35	DA	1115	G
35	DA	1129	A
35	DA	1130	U
35	DA	1135	C
35	DA	1136	G
35	DA	1143	A
35	DA	1155	A
35	DA	1156	A
35	DA	1159	U
35	DA	1173	G
35	DA	1174	A
35	DA	1175	U
35	DA	1176	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	DA	1177	A
35	DA	1178	C
35	DA	1194	A
35	DA	1195	G
35	DA	1205	U
35	DA	1210	A
35	DA	1211	U
35	DA	1212	G
35	DA	1218	C
35	DA	1221	C
35	DA	1241	A
35	DA	1247	A
35	DA	1248	G
35	DA	1249	U
35	DA	1251	C
35	DA	1253	A
35	DA	1254	A
35	DA	1255	U
35	DA	1256	G
35	DA	1265	A
35	DA	1271	G
35	DA	1272	A
35	DA	1276	A
35	DA	1281	G
35	DA	1300	U
35	DA	1301	A
35	DA	1302	A
35	DA	1314	C
35	DA	1319	G
35	DA	1329	U
35	DA	1330	C
35	DA	1332	G
35	DA	1345	C
35	DA	1349	A
35	DA	1359	A
35	DA	1368	G
35	DA	1379	A
35	DA	1380	G
35	DA	1385	G
35	DA	1386	C
35	DA	1390	U
35	DA	1407	C

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Mol	Chain	Res	Type
35	DA	1412	A
35	DA	1416	G
35	DA	1417	C
35	DA	1420	U
35	DA	1421	G
35	DA	1428	C
35	DA	1445	A
35	DA	1449	A
35	DA	1450	G
35	DA	1460	A
35	DA	1461	G
35	DA	1467	C
35	DA	1471	A
35	DA	1475	G
35	DA	1478	G
35	DA	1482	G
35	DA	1484	G
35	DA	1485	G
35	DA	1490	A
35	DA	1493	C
35	DA	1494	A
35	DA	1495	A
35	DA	1497	U
35	DA	1498	C
35	DA	1502	C
35	DA	1505	C
35	DA	1508	A
35	DA	1509	C
35	DA	1509(A)	A
35	DA	1528(A)	A
35	DA	1529	G
35	DA	1530	C
35	DA	1532	C
35	DA	1533	G
35	DA	1543	C
35	DA	1545	A
35	DA	1547	C
35	DA	1554	A
35	DA	1558	A
35	DA	1559	G
35	DA	1569	A
35	DA	1578	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	DA	1579	A
35	DA	1584	C
35	DA	1586	A
35	DA	1587	A
35	DA	1591	G
35	DA	1594	G
35	DA	1595	G
35	DA	1603	A
35	DA	1608	A
35	DA	1609	A
35	DA	1610	A
35	DA	1613	G
35	DA	1614	A
35	DA	1615	C
35	DA	1616	A
35	DA	1617	C
35	DA	1635	G
35	DA	1640	C
35	DA	1648	C
35	DA	1654	A
35	DA	1674	G
35	DA	1678	G
35	DA	1694	C
35	DA	1696	G
35	DA	1707	G
35	DA	1718	G
35	DA	1739	U
35	DA	1741	A
35	DA	1742	G
35	DA	1746	G
35	DA	1748	G
35	DA	1763	G
35	DA	1764	G
35	DA	1773	A
35	DA	1780	A
35	DA	1791	A
35	DA	1799	G
35	DA	1800	C
35	DA	1816	G
35	DA	1820	U
35	DA	1835	G
35	DA	1847	A

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	DA	1854	A
35	DA	1858	G
35	DA	1865	G
35	DA	1866	C
35	DA	1877	A
35	DA	1878	G
35	DA	1880	C
35	DA	1882	C
35	DA	1885	A
35	DA	1888	G
35	DA	1900	A
35	DA	1903	G
35	DA	1906	G
35	DA	1912	A
35	DA	1913	A
35	DA	1929	G
35	DA	1936	A
35	DA	1938	A
35	DA	1955	U
35	DA	1963	U
35	DA	1964	G
35	DA	1965	C
35	DA	1967	C
35	DA	1969	A
35	DA	1971	A
35	DA	1972	A
35	DA	1987	G
35	DA	1988	C
35	DA	1991	U
35	DA	1993	U
35	DA	2023	G
35	DA	2026	C
35	DA	2031	A
35	DA	2033	A
35	DA	2034	U
35	DA	2036	C
35	DA	2043	C
35	DA	2051	A
35	DA	2055	C
35	DA	2056	G
35	DA	2060	A
35	DA	2061	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	DA	2062	A
35	DA	2069	G
35	DA	2093	G
35	DA	2099	U
35	DA	2103	C
35	DA	2104	G
35	DA	2108	C
35	DA	2110	G
35	DA	2111	C
35	DA	2112	G
35	DA	2116	G
35	DA	2117	A
35	DA	2118	U
35	DA	2119	A
35	DA	2120	G
35	DA	2122	U
35	DA	2127	G
35	DA	2128	C
35	DA	2163	C
35	DA	2164	C
35	DA	2165	G
35	DA	2166	G
35	DA	2169	A
35	DA	2171	A
35	DA	2172	U
35	DA	2173	A
35	DA	2176	A
35	DA	2179	C
35	DA	2185	C
35	DA	2187	G
35	DA	2190	G
35	DA	2198	A
35	DA	2199	A
35	DA	2200	C
35	DA	2207	G
35	DA	2208	A
35	DA	2218	U
35	DA	2225	A
35	DA	2226	C
35	DA	2238	G
35	DA	2239	G
35	DA	2243	U

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	DA	2251	G
35	DA	2263	C
35	DA	2275	C
35	DA	2283	C
35	DA	2285	C
35	DA	2287	A
35	DA	2290	G
35	DA	2294	C
35	DA	2297	C
35	DA	2305	A
35	DA	2307	G
35	DA	2308	G
35	DA	2311	A
35	DA	2313	C
35	DA	2316	C
35	DA	2319	G
35	DA	2320	A
35	DA	2325	G
35	DA	2334	G
35	DA	2336	A
35	DA	2345	G
35	DA	2347	C
35	DA	2349	G
35	DA	2358	G
35	DA	2383	G
35	DA	2385	C
35	DA	2387	U
35	DA	2388	A
35	DA	2398	U
35	DA	2399	G
35	DA	2400	G
35	DA	2402	C
35	DA	2408	U
35	DA	2423	U
35	DA	2425	A
35	DA	2427	C
35	DA	2428	G
35	DA	2429	G
35	DA	2430	A
35	DA	2431	U
35	DA	2439	A
35	DA	2441	C

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	DA	2447	G
35	DA	2448	A
35	DA	2465	C
35	DA	2469	A
35	DA	2470	G
35	DA	2474	C
35	DA	2476	A
35	DA	2478	A
35	DA	2482	G
35	DA	2483	C
35	DA	2490	G
35	DA	2491	U
35	DA	2498	C
35	DA	2502	G
35	DA	2505	G
35	DA	2518	A
35	DA	2520	C
35	DA	2523	G
35	DA	2529	G
35	DA	2534	A
35	DA	2543	G
35	DA	2554	U
35	DA	2559	C
35	DA	2566	A
35	DA	2567	G
35	DA	2571	C
35	DA	2572	A
35	DA	2573	C
35	DA	2582	G
35	DA	2585	U
35	DA	2586	C
35	DA	2602	A
35	DA	2609	U
35	DA	2610	C
35	DA	2611	U
35	DA	2612	C
35	DA	2615	U
35	DA	2630	G
35	DA	2640	G
35	DA	2646	C
35	DA	2655	G
35	DA	2673	G

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
35	DA	2675	A
35	DA	2682	U
35	DA	2690	C
35	DA	2691	C
35	DA	2702	U
35	DA	2703	C
35	DA	2712(A)	A
35	DA	2713	A
35	DA	2714	G
35	DA	2720	U
35	DA	2726	U
35	DA	2733	A
35	DA	2752	C
35	DA	2754	U
35	DA	2759	G
35	DA	2762	G
35	DA	2763	G
35	DA	2765	A
35	DA	2766	G
35	DA	2778	A
35	DA	2779	U
35	DA	2780	G
35	DA	2781	A
35	DA	2789	C
35	DA	2790	A
35	DA	2791	C
35	DA	2796	U
35	DA	2801(A)	A
35	DA	2802	G
35	DA	2803	C
35	DA	2808	U
35	DA	2821	A
35	DA	2823	A
35	DA	2833	G
35	DA	2834	G
35	DA	2835	A
35	DA	2849	U
35	DA	2860	A
35	DA	2864	G
35	DA	2872	G
35	DA	2893	G
36	DB	8	U

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Mol	Chain	Res	Type
36	DB	13	A
36	DB	15	A
36	DB	16	G
36	DB	22	U
36	DB	24	G
36	DB	25	A
36	DB	27	C
36	DB	33	G
36	DB	41	U
36	DB	42	C
36	DB	45	A
36	DB	47	C
36	DB	53	A
36	DB	67	G
36	DB	73	A
36	DB	75	G
36	DB	88	C
36	DB	110	G

All (176) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AA	30	U
1	AA	60	A
1	AA	79	G
1	AA	115	G
1	AA	119	A
1	AA	243	A
1	AA	250	A
1	AA	266	G
1	AA	328	C
1	AA	366	C
1	AA	428	G
1	AA	429	U
1	AA	484	G
1	AA	509	A
1	AA	533	A
1	AA	560	U
1	AA	575	G
1	AA	687	A
1	AA	748	C
1	AA	913	A

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Mol	Chain	Res	Type
1	AA	992	U
1	AA	1049	U
1	AA	1064	G
1	AA	1065	U
1	AA	1067	A
1	AA	1281	U
1	AA	1285	A
1	AA	1300	G
1	AA	1442(A)	G
1	AA	1498	U
1	AA	1504	G
35	BA	27	G
35	BA	49	A
35	BA	71	A
35	BA	74	A
35	BA	214	G
35	BA	221	A
35	BA	272	G
35	BA	283	A
35	BA	331	A
35	BA	332	A
35	BA	334	C
35	BA	387	U
35	BA	474	G
35	BA	481	G
35	BA	542	C
35	BA	587	C
35	BA	603	A
35	BA	614(C)	A
35	BA	651	G
35	BA	669	G
35	BA	670	A
35	BA	752	A
35	BA	856	C
35	BA	1022	G
35	BA	1112	G
35	BA	1176	G
35	BA	1210	A
35	BA	1275	A
35	BA	1300	U
35	BA	1301	A
35	BA	1378	A

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Mol	Chain	Res	Type
35	BA	1427	A
35	BA	1459	G
35	BA	1558	A
35	BA	1612	C
35	BA	1653	G
35	BA	1799	G
35	BA	1819	A
35	BA	1912	A
35	BA	1935	G
35	BA	1937	A
35	BA	1962	C
35	BA	1970	A
35	BA	1987	G
35	BA	1992	G
35	BA	2033	A
35	BA	2126	A
35	BA	2128	C
35	BA	2225	A
35	BA	2282	G
35	BA	2290	G
35	BA	2313	C
35	BA	2422	A
35	BA	2481	G
35	BA	2610	C
35	BA	2689	U
35	BA	2859	G
36	BB	66	A
1	CA	30	U
1	CA	60	A
1	CA	79	G
1	CA	115	G
1	CA	119	A
1	CA	243	A
1	CA	250	A
1	CA	266	G
1	CA	328	C
1	CA	366	C
1	CA	428	G
1	CA	429	U
1	CA	484	G
1	CA	509	A
1	CA	533	A

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Mol	Chain	Res	Type
1	CA	560	U
1	CA	575	G
1	CA	687	A
1	CA	748	C
1	CA	913	A
1	CA	992	U
1	CA	1049	U
1	CA	1064	G
1	CA	1065	U
1	CA	1067	A
1	CA	1281	U
1	CA	1285	A
1	CA	1300	G
1	CA	1498	U
35	DA	27	G
35	DA	49	A
35	DA	71	A
35	DA	74	A
35	DA	214	G
35	DA	221	A
35	DA	272	G
35	DA	283	A
35	DA	331	A
35	DA	332	A
35	DA	334	C
35	DA	387	U
35	DA	474	G
35	DA	481	G
35	DA	542	C
35	DA	587	C
35	DA	603	A
35	DA	614(C)	A
35	DA	651	G
35	DA	669	G
35	DA	670	A
35	DA	752	A
35	DA	856	C
35	DA	1022	G
35	DA	1112	G
35	DA	1176	G
35	DA	1210	A
35	DA	1275	A

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Mol	Chain	Res	Type
35	DA	1300	U
35	DA	1301	A
35	DA	1378	A
35	DA	1427	A
35	DA	1459	G
35	DA	1558	A
35	DA	1612	C
35	DA	1653	G
35	DA	1799	G
35	DA	1819	A
35	DA	1912	A
35	DA	1935	G
35	DA	1937	A
35	DA	1962	C
35	DA	1970	A
35	DA	1987	G
35	DA	1992	G
35	DA	2033	A
35	DA	2126	A
35	DA	2128	C
35	DA	2225	A
35	DA	2282	G
35	DA	2313	C
35	DA	2422	A
35	DA	2481	G
35	DA	2610	C
35	DA	2689	U
35	DA	2763	G
35	DA	2859	G
36	DB	66	A

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

2 non-standard protein/DNA/RNA residues are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
23	5MU	AW	55	23	12,22,23	1.36	3 (25%)	14,32,35	4.56	3 (21%)
23	5MU	CW	55	23	12,22,23	1.39	3 (25%)	14,32,35	4.50	3 (21%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
23	5MU	AW	55	23	-	0/3/25/26	0/2/2/2
23	5MU	CW	55	23	-	0/3/25/26	0/2/2/2

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	CW	55	5MU	C6-C5	-2.18	1.34	1.40
23	AW	55	5MU	C6-C5	-2.05	1.34	1.40
23	CW	55	5MU	C6-N1	2.42	1.38	1.35
23	AW	55	5MU	C6-N1	2.46	1.38	1.35
23	AW	55	5MU	C4-N3	3.16	1.39	1.33
23	CW	55	5MU	C4-N3	3.17	1.39	1.33

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	AW	55	5MU	C5-C4-N3	-9.04	115.07	125.14
23	CW	55	5MU	C5-C4-N3	-8.87	115.26	125.14
23	AW	55	5MU	C5M-C5-C6	2.06	122.77	118.62
23	CW	55	5MU	C5M-C5-C6	2.08	122.80	118.62
23	CW	55	5MU	C4-N3-C2	14.02	127.36	115.25
23	AW	55	5MU	C4-N3-C2	14.26	127.57	115.25

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

2 monomers are involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
23	AW	55	5MU	1	0
23	CW	55	5MU	3	0

## 5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

## 5.6 Ligand geometry [i](#)

Of 1486 ligands modelled in this entry, 1486 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

## 5.7 Other polymers [i](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
13	CM	5
13	AM	5
9	AI	2
9	CI	2
52	DV	1
41	DG	1
41	BG	1
52	BV	1
32	D6	1
32	B6	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B6	46:HIS	C	47:THR	N	6.15
1	D6	46:HIS	C	47:THR	N	6.12
1	CI	53:VAL	C	54:ASP	N	5.30

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AI	53:VAL	C	54:ASP	N	5.29
1	DG	112:PRO	C	113:ARG	N	4.36
1	CM	69:GLU	C	70:LEU	N	4.32
1	AM	69:GLU	C	70:LEU	N	4.30
1	DV	80:GLN	C	81:TYR	N	3.61
1	CM	112:GLY	C	113:PRO	N	3.58
1	AM	112:GLY	C	113:PRO	N	3.57
1	BV	80:GLN	C	81:TYR	N	3.57
1	CM	118:ALA	C	119:GLY	N	3.52
1	AM	118:ALA	C	119:GLY	N	3.48
1	CI	104:ARG	C	105:ASP	N	3.03
1	BG	112:PRO	C	113:ARG	N	3.00
1	AI	104:ARG	C	105:ASP	N	2.98
1	AM	97:PRO	C	98:VAL	N	2.93
1	CM	97:PRO	C	98:VAL	N	2.92
1	CM	65:LYS	C	66:LEU	N	2.52
1	AM	65:LYS	C	66:LEU	N	2.50

## 6 Fit of model and data ⓘ

### 6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
1	AA	1504/1522 (98%)	0.68	162 (10%) 8 7	15, 82, 177, 200	0
1	CA	1504/1522 (98%)	0.84	195 (12%) 5 5	20, 90, 190, 200	0
2	AB	235/256 (91%)	0.24	22 (9%) 11 10	19, 113, 188, 200	0
2	CB	235/256 (91%)	0.25	21 (8%) 12 10	26, 127, 188, 200	0
3	AC	207/239 (86%)	0.14	15 (7%) 18 15	11, 98, 175, 200	0
3	CC	207/239 (86%)	0.30	17 (8%) 14 12	38, 121, 183, 200	0
4	AD	208/209 (99%)	-0.20	4 (1%) 70 60	13, 75, 145, 200	0
4	CD	208/209 (99%)	-0.20	2 (0%) 84 76	25, 89, 155, 200	0
5	AE	151/162 (93%)	-0.20	4 (2%) 59 49	21, 73, 158, 190	0
5	CE	151/162 (93%)	0.14	6 (3%) 42 33	26, 89, 157, 200	0
6	AF	101/101 (100%)	-0.11	2 (1%) 68 59	19, 100, 151, 189	0
6	CF	101/101 (100%)	-0.21	0 100 100	16, 83, 141, 170	0
7	AG	155/156 (99%)	0.18	15 (9%) 10 9	34, 104, 175, 194	0
7	CG	155/156 (99%)	0.33	18 (11%) 6 6	53, 123, 185, 200	0
8	AH	138/138 (100%)	-0.28	1 (0%) 89 82	33, 81, 145, 190	0
8	CH	138/138 (100%)	-0.34	1 (0%) 89 82	30, 91, 147, 165	0
9	AI	127/128 (99%)	0.03	4 (3%) 52 43	27, 123, 180, 200	0
9	CI	127/128 (99%)	0.84	28 (22%) 1 1	43, 140, 195, 200	0
10	AJ	99/105 (94%)	0.25	4 (4%) 42 33	47, 120, 180, 200	0
10	CJ	99/105 (94%)	1.03	17 (17%) 2 2	65, 140, 189, 200	0
11	AK	119/129 (92%)	0.30	13 (10%) 7 7	13, 78, 163, 187	0
11	CK	119/129 (92%)	0.33	9 (7%) 17 14	30, 86, 164, 200	0
12	AL	125/135 (92%)	-0.33	1 (0%) 87 80	19, 71, 146, 200	0
12	CL	125/135 (92%)	-0.24	1 (0%) 87 80	12, 75, 143, 200	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
13	AM	125/126 (99%)	0.56	20 (16%) 3 3	56, 124, 183, 200	0
13	CM	125/126 (99%)	0.34	13 (10%) 8 8	41, 140, 199, 200	0
14	AN	60/61 (98%)	-0.09	2 (3%) 50 41	38, 94, 181, 200	0
14	CN	60/61 (98%)	0.09	1 (1%) 73 64	57, 117, 171, 189	0
15	AO	88/89 (98%)	-0.33	1 (1%) 82 73	11, 84, 147, 172	0
15	CO	88/89 (98%)	-0.14	4 (4%) 37 29	18, 88, 146, 167	0
16	AP	84/88 (95%)	-0.19	2 (2%) 62 52	17, 64, 135, 200	0
16	CP	84/88 (95%)	0.24	7 (8%) 14 12	32, 90, 139, 199	0
17	AQ	100/105 (95%)	0.13	11 (11%) 7 7	15, 81, 143, 200	0
17	CQ	100/105 (95%)	0.25	14 (14%) 4 4	20, 84, 134, 200	0
18	AR	70/88 (79%)	0.12	2 (2%) 55 45	33, 87, 156, 200	0
18	CR	70/88 (79%)	0.03	4 (5%) 27 21	17, 79, 137, 170	0
19	AS	79/93 (84%)	0.17	3 (3%) 44 36	60, 134, 200, 200	0
19	CS	79/93 (84%)	0.49	11 (13%) 4 4	76, 140, 200, 200	0
20	AT	99/106 (93%)	0.14	7 (7%) 19 15	21, 91, 178, 200	0
20	CT	99/106 (93%)	0.01	7 (7%) 19 15	45, 102, 167, 197	0
21	AU	25/27 (92%)	0.08	0 100 100	59, 114, 161, 200	0
21	CU	25/27 (92%)	0.98	5 (20%) 1 2	58, 131, 182, 200	0
22	AV	17/76 (22%)	0.70	2 (11%) 6 6	55, 68, 122, 125	0
22	CV	17/76 (22%)	0.36	1 (5%) 26 20	56, 73, 128, 131	0
23	AW	76/77 (98%)	3.51	45 (59%) 0 0	63, 179, 200, 200	0
23	CW	76/77 (98%)	4.90	61 (80%) 0 0	62, 191, 200, 200	0
24	AX	11/31 (35%)	-0.00	0 100 100	23, 72, 120, 172	0
24	CX	11/31 (35%)	-0.01	0 100 100	41, 63, 93, 196	0
25	AY	185/185 (100%)	0.63	31 (16%) 2 2	27, 99, 167, 200	0
25	CY	185/185 (100%)	0.42	28 (15%) 3 3	9, 93, 166, 198	0
26	B0	85/85 (100%)	0.61	11 (12%) 5 5	21, 80, 184, 199	0
26	D0	85/85 (100%)	0.66	11 (12%) 5 5	39, 95, 174, 200	0
27	B1	89/98 (90%)	-0.27	2 (2%) 65 55	5, 64, 138, 193	0
27	D1	89/98 (90%)	-0.46	2 (2%) 65 55	5, 62, 133, 200	0
28	B2	51/72 (70%)	-0.27	2 (3%) 43 35	44, 103, 157, 200	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
28	D2	51/72 (70%)	0.16	5 (9%) 10 9	24, 93, 168, 200	0
29	B3	60/60 (100%)	-0.10	1 (1%) 73 64	15, 81, 158, 200	0
29	D3	60/60 (100%)	-0.12	1 (1%) 73 64	21, 85, 167, 200	0
30	B4	50/71 (70%)	-0.15	0 100 100	71, 144, 192, 200	0
30	D4	50/71 (70%)	0.21	5 (10%) 9 9	86, 167, 192, 200	0
31	B5	59/60 (98%)	0.11	4 (6%) 20 16	22, 84, 184, 200	0
31	D5	59/60 (98%)	-0.32	0 100 100	6, 74, 191, 200	0
32	B6	45/54 (83%)	0.85	8 (17%) 2 2	53, 122, 184, 200	0
32	D6	45/54 (83%)	1.49	14 (31%) 1 1	54, 147, 188, 200	0
33	B7	49/49 (100%)	-0.21	0 100 100	5, 47, 114, 200	0
33	D7	49/49 (100%)	-0.35	1 (2%) 68 59	3, 44, 105, 176	0
34	B8	64/65 (98%)	-0.15	1 (1%) 74 65	7, 53, 145, 200	0
34	D8	64/65 (98%)	-0.10	2 (3%) 52 43	27, 73, 140, 185	0
35	BA	2767/2782 (99%)	0.73	331 (11%) 6 6	9, 65, 172, 200	0
35	DA	2767/2782 (99%)	0.73	324 (11%) 6 6	6, 62, 169, 200	0
36	BB	119/122 (97%)	1.08	18 (15%) 3 3	60, 102, 160, 189	0
36	DB	119/122 (97%)	1.15	24 (20%) 1 2	69, 140, 188, 200	0
37	BC	191/229 (83%)	2.12	74 (38%) 0 0	76, 175, 200, 200	0
37	DC	191/229 (83%)	2.60	97 (50%) 0 0	120, 180, 200, 200	0
38	BD	272/276 (98%)	-0.36	1 (0%) 93 90	8, 56, 122, 200	0
38	DD	272/276 (98%)	-0.43	2 (0%) 89 82	1, 47, 114, 200	0
39	BE	205/206 (99%)	0.15	12 (5%) 26 20	10, 75, 160, 200	0
39	DE	205/206 (99%)	-0.11	5 (2%) 62 52	7, 64, 153, 199	0
40	BF	208/210 (99%)	-0.05	10 (4%) 34 27	1, 69, 164, 200	0
40	DF	208/210 (99%)	-0.12	6 (2%) 55 45	6, 75, 170, 200	0
41	BG	181/182 (99%)	0.31	22 (12%) 5 6	36, 107, 171, 200	0
41	DG	181/182 (99%)	0.80	27 (14%) 3 3	45, 135, 191, 200	0
42	BH	160/180 (88%)	0.64	24 (15%) 3 3	47, 145, 200, 200	0
42	DH	160/180 (88%)	0.12	8 (5%) 32 25	36, 110, 180, 200	0
43	BI	146/148 (98%)	0.32	15 (10%) 9 8	25, 112, 184, 200	0
43	DI	146/148 (98%)	1.76	45 (30%) 1 1	17, 134, 200, 200	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
44	BN	139/140 (99%)	-0.08	7 (5%) 32 25	37, 98, 160, 200	0
44	DN	139/140 (99%)	-0.28	4 (2%) 55 45	19, 76, 152, 195	0
45	BO	122/122 (100%)	-0.22	3 (2%) 61 50	15, 63, 116, 133	0
45	DO	122/122 (100%)	-0.38	0 100 100	10, 49, 100, 128	0
46	BP	146/150 (97%)	0.09	10 (6%) 20 16	6, 84, 167, 200	0
46	DP	146/150 (97%)	0.15	9 (6%) 24 19	18, 93, 168, 199	0
47	BQ	136/141 (96%)	0.02	7 (5%) 32 24	26, 90, 187, 200	0
47	DQ	136/141 (96%)	-0.21	3 (2%) 65 55	16, 73, 158, 200	0
48	BR	117/118 (99%)	-0.44	0 100 100	8, 66, 138, 198	0
48	DR	117/118 (99%)	-0.40	0 100 100	8, 64, 136, 180	0
49	BS	99/112 (88%)	0.25	8 (8%) 15 12	32, 105, 186, 200	0
49	DS	99/112 (88%)	1.03	21 (21%) 1 1	62, 133, 182, 200	0
50	BT	138/146 (94%)	-0.09	4 (2%) 55 45	21, 96, 190, 200	0
50	DT	138/146 (94%)	-0.04	8 (5%) 26 21	17, 84, 173, 200	0
51	BU	117/118 (99%)	-0.22	4 (3%) 49 40	15, 79, 161, 182	0
51	DU	117/118 (99%)	-0.17	5 (4%) 39 30	12, 65, 141, 194	0
52	BV	101/101 (100%)	0.58	16 (15%) 3 3	26, 106, 188, 200	0
52	DV	101/101 (100%)	0.12	9 (8%) 12 10	29, 100, 178, 200	0
53	BW	113/113 (100%)	-0.41	1 (0%) 85 78	8, 55, 134, 200	0
53	DW	113/113 (100%)	-0.31	2 (1%) 71 62	16, 66, 148, 200	0
54	BX	93/96 (96%)	-0.32	1 (1%) 82 73	12, 83, 163, 200	0
54	DX	93/96 (96%)	-0.32	1 (1%) 82 73	18, 79, 147, 185	0
55	BY	101/110 (91%)	0.05	8 (7%) 15 13	16, 94, 187, 200	0
55	DY	101/110 (91%)	0.38	11 (10%) 7 7	21, 108, 187, 200	0
56	BZ	177/206 (85%)	-0.09	7 (3%) 42 33	46, 113, 178, 200	0
56	DZ	177/206 (85%)	0.25	13 (7%) 18 14	11, 114, 180, 200	0
All	All	21176/22108 (95%)	0.43	2121 (10%) 9 9	1, 84, 184, 200	0

All (2121) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
35	BA	897	C	18.3
35	DA	2109	U	18.2

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Mol	Chain	Res	Type	RSRZ
35	DA	897	C	17.9
43	DI	143	SER	17.6
23	CW	7	G	14.5
55	DY	52	SER	14.0
35	DA	2174	C	13.5
37	DC	179	SER	13.4
32	D6	43	CYS	13.3
1	CA	88	A	12.9
37	DC	38	ASP	12.8
37	BC	178	ALA	12.6
43	DI	66	GLU	12.6
23	CW	35	C	12.2
43	DI	70	GLU	12.1
37	BC	90	GLY	11.9
43	DI	67	ARG	11.8
1	CA	89	C	11.8
37	DC	181	PRO	11.6
23	CW	50	G	11.5
37	BC	77	ILE	11.4
42	BH	44	VAL	11.2
23	CW	6	G	11.2
1	CA	1027	C	11.1
37	BC	40	THR	11.1
41	DG	134	GLY	11.1
35	DA	2110	G	10.9
35	DA	1531	C	10.8
35	DA	2168	G	10.7
1	CA	1009	G	10.5
1	AA	1027	C	10.3
41	DG	89	GLY	10.0
43	DI	92	VAL	9.9
37	BC	34	THR	9.9
23	AW	16	C	9.9
1	CA	81	U	9.8
23	AW	7	G	9.8
10	CJ	71	LEU	9.7
37	BC	91	ALA	9.7
37	DC	180	PHE	9.5
43	DI	71	ILE	9.5
43	DI	90	GLY	9.4
1	AA	1026	G	9.4
10	CJ	38	ILE	9.4

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
41	DG	135	LEU	9.4
35	DA	2120	G	9.3
23	CW	11	A	9.3
23	AW	60	A	9.2
1	CA	80	G	9.2
43	DI	108	THR	9.1
43	DI	119	PRO	9.0
1	CA	1026	G	9.0
26	D0	6	ALA	9.0
23	AW	50	G	8.9
23	CW	33	C	8.9
35	BA	2792	G	8.9
35	BA	1048	A	8.8
35	DA	2802	G	8.8
26	D0	7	LEU	8.7
41	DG	88	ILE	8.7
35	BA	2169	A	8.7
35	BA	334	C	8.6
27	B1	96	LYS	8.6
27	D1	96	LYS	8.6
23	CW	2	G	8.6
37	DC	183	GLU	8.6
35	DA	2108	C	8.5
23	CW	57	C	8.5
43	DI	84	GLY	8.5
41	DG	41	GLN	8.5
47	BQ	140	ALA	8.5
35	DA	2169	A	8.5
23	CW	36	A	8.5
23	CW	24	C	8.4
1	AA	1034	G	8.3
1	AA	1030(B)	C	8.3
37	DC	78	ALA	8.2
35	DA	2792	G	8.1
35	BA	2892	A	8.1
35	DA	2892	A	8.0
1	AA	76	C	8.0
35	BA	2791	C	8.0
35	BA	2893	G	8.0
23	AW	15	G	8.0
25	CY	70	SER	7.9
35	BA	2793	G	7.9

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
23	CW	58	A	7.9
26	B0	6	ALA	7.8
46	DP	119	GLU	7.8
23	CW	54	G	7.8
1	CA	82	U	7.8
37	BC	39	GLU	7.8
23	CW	62	C	7.7
23	CW	56	U	7.7
37	DC	122	ALA	7.7
23	CW	34	U	7.7
55	DY	50	ARG	7.7
37	DC	85	GLU	7.6
31	B5	60	VAL	7.5
23	AW	8	U	7.5
37	BC	95	GLY	7.5
26	B0	3	HIS	7.5
50	DT	2	ASN	7.5
37	DC	222	VAL	7.4
37	DC	172	HIS	7.4
23	AW	52	C	7.4
23	CW	8	U	7.4
35	DA	2175	C	7.3
35	BA	2115	G	7.3
37	DC	23	ASP	7.3
1	AA	73	G	7.3
37	BC	41	VAL	7.2
26	B0	5	LYS	7.2
1	CA	90	U	7.2
37	DC	178	ALA	7.2
23	AW	61	U	7.2
23	AW	53	G	7.2
47	BQ	141	GLN	7.2
35	DA	895	U	7.2
23	AW	35	C	7.2
23	CW	32	G	7.2
35	BA	1496	A	7.1
35	DA	2126	A	7.1
17	CQ	69	LYS	7.1
41	DG	155	MET	7.1
23	CW	10	G	7.1
35	BA	899	A	7.0
35	DA	2116	G	7.0

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
37	BC	78	ALA	6.9
37	DC	182	PRO	6.9
35	DA	2790	A	6.9
37	DC	46	LYS	6.9
32	B6	45	LYS	6.9
41	BG	89	GLY	6.9
35	BA	2104	G	6.9
37	DC	176	GLY	6.9
41	DG	49	ASP	6.9
35	DA	2115	G	6.9
35	DA	2113	U	6.9
56	DZ	27	VAL	6.9
43	DI	53	ALA	6.9
23	AW	13	C	6.8
50	DT	138	ALA	6.8
55	BY	61	ILE	6.8
23	CW	5	G	6.7
37	DC	88	GLU	6.7
23	CW	22	A	6.7
1	AA	97	G	6.7
37	BC	120	MET	6.7
35	DA	2117	A	6.6
37	DC	37	PHE	6.6
35	DA	2170	A	6.6
37	BC	124	GLY	6.6
43	DI	125	GLU	6.6
32	D6	42	TRP	6.6
41	BG	42	GLY	6.6
35	BA	2168	G	6.6
37	BC	121	GLY	6.6
47	BQ	139	GLU	6.5
23	CW	23	G	6.5
37	BC	96	GLY	6.5
23	AW	58	A	6.5
23	CW	9	G	6.5
43	DI	141	LYS	6.5
35	BA	2110	G	6.5
23	AW	20	G	6.5
1	AA	1005	A	6.5
37	BC	119	VAL	6.5
35	DA	884	C	6.5
35	DA	894	C	6.5

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
13	AM	124	PRO	6.5
7	AG	84	ASN	6.5
43	DI	69	LYS	6.4
35	DA	2114	A	6.4
2	AB	228	GLY	6.4
37	BC	88	GLU	6.4
37	BC	155	GLU	6.4
23	CW	49	C	6.4
10	CJ	83	GLU	6.3
35	DA	1448	G	6.3
2	AB	35	GLU	6.3
1	CA	993	G	6.3
35	BA	1110	G	6.3
37	DC	96	GLY	6.3
42	DH	45	VAL	6.3
32	D6	40	CYS	6.3
42	BH	24	VAL	6.2
3	AC	102	ASN	6.2
35	DA	2173	A	6.2
37	DC	187	ASP	6.2
35	BA	2173	A	6.2
37	BC	35	ALA	6.2
36	DB	4	C	6.2
35	BA	2170	A	6.1
43	DI	97	ILE	6.1
7	CG	156	TRP	6.1
1	CA	83	U	6.1
35	BA	1527	G	6.1
1	AA	1003	G	6.1
1	CA	79	G	6.1
41	DG	40	ASN	6.1
23	AW	59	A	6.1
35	BA	1450	G	6.1
35	BA	279	C	6.0
1	CA	153	C	6.0
41	BG	39	ILE	6.0
23	CW	63	C	6.0
23	CW	61	U	5.9
23	AW	9	G	5.9
35	BA	1507	A	5.9
37	DC	81	GLU	5.9
23	CW	51	U	5.9

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	CA	1028	C	5.9
1	CA	1043	C	5.9
23	CW	26	C	5.9
47	DQ	140	ALA	5.9
23	AW	34	U	5.9
26	D0	8	ALA	5.9
19	CS	82	GLY	5.9
35	DA	271(S)	G	5.8
37	BC	122	ALA	5.8
35	DA	2789	C	5.8
35	BA	1578	U	5.8
35	DA	2801	A	5.8
55	BY	50	ARG	5.8
35	DA	2893	G	5.8
23	AW	33	C	5.8
23	CW	72	C	5.7
10	CJ	73	ASP	5.7
1	CA	1025	U	5.7
35	BA	2167	U	5.7
35	BA	2189	U	5.7
13	CM	24	GLY	5.7
35	DA	275	G	5.7
37	DC	21	THR	5.7
23	AW	22	A	5.7
35	DA	1044	G	5.7
35	BA	883	G	5.6
50	BT	135	ALA	5.6
35	BA	2114	A	5.6
40	BF	12	LEU	5.6
35	DA	75	G	5.6
26	B0	4	LYS	5.6
43	BI	146	ALA	5.6
55	DY	59	GLY	5.6
35	BA	2125	G	5.6
9	AI	18	PHE	5.6
23	CW	46	G	5.6
37	DC	82	LYS	5.6
23	AW	23	G	5.6
23	CW	12	G	5.6
1	CA	84	U	5.5
1	CA	1141	C	5.5
46	BP	149	GLU	5.5

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
35	DA	272(J)	C	5.5
20	CT	104	LEU	5.5
35	DA	652	C	5.5
35	DA	2121	G	5.5
35	DA	2793	G	5.5
37	BC	125	SER	5.5
1	AA	1035	A	5.5
43	DI	64	GLU	5.5
23	CW	4	G	5.5
1	AA	80	G	5.4
1	AA	993	G	5.4
55	BY	60	PHE	5.4
1	CA	1030(B)	C	5.4
35	BA	1506	C	5.4
35	DA	1508	A	5.4
47	DQ	141	GLN	5.4
35	DA	271(R)	G	5.4
1	AA	1002	G	5.4
1	CA	425	G	5.4
37	DC	97	GLU	5.4
23	AW	6	G	5.4
25	CY	102	ASN	5.4
35	DA	2124	G	5.4
35	DA	1505	C	5.3
37	BC	179	SER	5.3
23	AW	24	C	5.3
35	BA	1509(A)	A	5.3
15	CO	23	GLY	5.3
1	CA	1031	G	5.3
35	BA	414	C	5.3
13	AM	7	VAL	5.3
56	DZ	28	MET	5.3
13	AM	84	ILE	5.3
1	CA	1129	C	5.3
35	BA	2179	C	5.3
37	BC	38	ASP	5.3
1	CA	1030(C)	G	5.3
23	CW	25	U	5.2
35	BA	2166	G	5.2
13	AM	125	ARG	5.2
35	BA	2808	U	5.2
43	DI	107	VAL	5.2

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Mol	Chain	Res	Type	RSRZ
9	CI	96	LEU	5.2
3	AC	82	GLU	5.2
37	DC	123	VAL	5.2
55	DY	53	PRO	5.2
2	CB	227	GLY	5.2
52	DV	46	VAL	5.1
35	DA	2791	C	5.1
19	CS	40	ILE	5.1
37	DC	190	ARG	5.1
35	BA	1044	G	5.1
35	DA	1865	G	5.1
25	CY	59	THR	5.1
35	DA	2167	U	5.1
43	DI	130	TYR	5.1
32	D6	39	TYR	5.1
23	AW	25	U	5.1
2	CB	207	ALA	5.1
1	CA	1024	G	5.1
35	BA	1865	G	5.1
41	BG	43	LEU	5.1
36	BB	5	C	5.1
37	BC	108	MET	5.1
1	CA	1295	G	5.1
35	BA	1422	G	5.1
37	DC	45	ALA	5.0
25	CY	100	TYR	5.0
35	BA	1467	C	5.0
36	DB	49	C	5.0
7	CG	53	LYS	5.0
10	CJ	4	ILE	5.0
23	CW	15	G	5.0
23	AW	49	C	5.0
25	AY	52	LEU	5.0
35	BA	1174	A	5.0
3	AC	66	VAL	5.0
1	AA	1021	G	5.0
35	BA	1531	C	5.0
1	AA	1260	C	5.0
37	BC	24	GLU	5.0
41	DG	90	LEU	5.0
9	CI	22	GLY	5.0
35	BA	1017	G	4.9

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Mol	Chain	Res	Type	RSRZ
35	DA	2125	G	4.9
42	BH	19	VAL	4.9
26	D0	85	ALA	4.9
35	DA	1048	A	4.9
35	DA	1544	A	4.9
1	CA	1034	G	4.9
35	BA	356	G	4.9
36	BB	107	G	4.9
35	DA	1530	C	4.9
1	AA	1220	G	4.9
3	CC	143	GLU	4.9
23	AW	47	G	4.9
25	CY	98	ALA	4.9
1	AA	1445	C	4.9
25	CY	67	VAL	4.9
56	DZ	173	ALA	4.9
43	DI	94	ALA	4.9
43	DI	120	ILE	4.9
23	AW	51	U	4.9
23	CW	14	A	4.9
37	DC	216	THR	4.9
37	DC	95	GLY	4.9
23	CW	21	U	4.9
35	DA	2105	C	4.9
7	AG	86	GLN	4.9
11	CK	80	VAL	4.9
37	DC	43	VAL	4.9
35	DA	877	U	4.8
23	CW	47	G	4.8
35	DA	11	G	4.8
50	DT	39	ARG	4.8
25	AY	97	ASP	4.8
23	CW	37	U	4.8
35	DA	604	G	4.8
37	DC	221	SER	4.8
23	AW	66	C	4.8
37	BC	87	GLU	4.8
35	DA	290	G	4.8
42	BH	46	GLU	4.8
2	CB	128	GLU	4.8
1	AA	83	U	4.8
2	AB	40	HIS	4.8

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
35	DA	2123	G	4.8
35	BA	652	C	4.8
1	CA	97	G	4.7
35	BA	2467	C	4.7
1	CA	1005	A	4.7
35	DA	312	G	4.7
35	DA	2891	G	4.7
37	DC	215	THR	4.7
35	BA	2477	C	4.7
35	DA	2127	G	4.7
37	DC	94	VAL	4.7
1	CA	1163	C	4.7
35	BA	2113	U	4.7
49	DS	55	ALA	4.7
35	BA	301	G	4.7
35	BA	2124	G	4.7
35	DA	1527	G	4.7
35	BA	1016	G	4.7
35	BA	1526	G	4.7
35	DA	2468	G	4.7
52	BV	67	GLY	4.7
23	AW	12	G	4.7
25	CY	73	GLN	4.7
43	DI	127	VAL	4.7
37	DC	39	GLU	4.7
37	BC	123	VAL	4.7
1	AA	89	C	4.7
1	CA	1128	C	4.7
35	DA	1045	A	4.7
37	DC	89	ALA	4.6
1	CA	688	G	4.6
17	AQ	16	GLN	4.6
1	AA	992	U	4.6
35	BA	357	A	4.6
10	CJ	5	ARG	4.6
37	BC	60	GLY	4.6
35	DA	1174	A	4.6
26	B0	2	ALA	4.6
10	CJ	37	PRO	4.6
21	CU	26	LYS	4.6
35	BA	1508	A	4.6
37	DC	208	PHE	4.5

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
23	AW	11	A	4.5
35	DA	2477	C	4.5
35	DA	2186	G	4.5
13	AM	119	GLY	4.5
15	CO	22	THR	4.5
41	BG	127	GLY	4.5
40	BF	133	ASN	4.5
3	AC	79	ARG	4.5
35	BA	1115	G	4.5
37	BC	211	SER	4.5
17	AQ	18	THR	4.5
37	BC	83	ILE	4.5
30	D4	1	MET	4.5
15	CO	24	SER	4.5
1	CA	70	G	4.5
41	BG	49	ASP	4.5
1	AA	1006	C	4.5
35	BA	2796	U	4.5
17	CQ	64	PRO	4.5
42	DH	82	GLY	4.5
36	BB	66	A	4.5
1	AA	1086	U	4.5
37	BC	57	ASN	4.5
7	AG	85	TYR	4.5
37	BC	173	ALA	4.4
23	AW	32	G	4.4
37	DC	18	LYS	4.4
37	DC	211	SER	4.4
1	CA	218	C	4.4
23	AW	57	C	4.4
35	BA	2476	A	4.4
35	DA	352	G	4.4
37	DC	74	VAL	4.4
23	CW	45	A	4.4
35	BA	2801	A	4.4
35	BA	1714	G	4.4
1	CA	71	C	4.4
23	CW	1	C	4.4
23	CW	59	A	4.4
35	DA	2665	A	4.4
43	BI	43	ASN	4.4
23	CW	53	G	4.4

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
18	AR	77	GLY	4.4
35	BA	1577	C	4.4
26	B0	7	LEU	4.4
1	CA	152	A	4.4
35	BA	2471	C	4.4
2	AB	90	MET	4.4
7	CG	74	GLU	4.4
20	AT	104	LEU	4.4
41	DG	87	PRO	4.4
1	CA	1217	C	4.4
1	CA	1238	A	4.4
35	DA	896	A	4.4
25	AY	99	LEU	4.4
42	DH	46	GLU	4.4
35	BA	2120	G	4.4
25	AY	100	TYR	4.4
40	BF	134	GLY	4.4
36	BB	106	G	4.3
40	BF	24	LEU	4.3
40	DF	23	ASP	4.3
41	BG	38	VAL	4.3
1	AA	82	U	4.3
19	AS	82	GLY	4.3
9	CI	33	PHE	4.3
25	CY	74	ASN	4.3
35	BA	355	G	4.3
35	BA	2165	G	4.3
35	BA	2532	G	4.3
2	CB	18	GLY	4.3
35	BA	1111	A	4.3
1	CA	1021	G	4.3
40	DF	133	ASN	4.3
17	AQ	69	LYS	4.3
35	BA	893	C	4.3
35	BA	2126	A	4.3
35	BA	884	C	4.3
1	AA	79	G	4.3
1	CA	570	G	4.3
20	AT	103	GLY	4.3
1	CA	922	G	4.3
3	AC	101	LEU	4.3
9	CI	95	LYS	4.3

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
35	BA	2121	G	4.3
35	DA	1863	G	4.3
39	BE	33	VAL	4.3
35	BA	401	A	4.3
35	BA	2105	C	4.3
35	BA	2108	C	4.3
1	AA	1025	U	4.2
35	BA	2106	G	4.2
51	DU	75	ASN	4.2
37	DC	90	GLY	4.2
35	BA	2116	G	4.2
35	BA	2567	G	4.2
35	BA	2795	G	4.2
32	B6	14	THR	4.2
35	DA	74	A	4.2
37	BC	80	GLY	4.2
55	BY	52	SER	4.2
35	DA	2476	A	4.2
35	BA	1176	G	4.2
35	BA	2410	G	4.2
43	DI	85	GLU	4.2
43	DI	144	VAL	4.2
10	CJ	39	PRO	4.2
30	D4	2	LYS	4.2
43	BI	58	LEU	4.2
2	AB	208	ILE	4.2
35	BA	289	A	4.2
35	BA	2112	G	4.2
37	BC	23	ASP	4.2
35	DA	2166	G	4.2
25	AY	47	GLY	4.2
7	CG	4	ARG	4.1
1	AA	1008	C	4.1
1	AA	1259	C	4.1
35	BA	708	C	4.1
35	DA	2799	C	4.1
43	DI	139	GLN	4.1
22	AV	26	G	4.1
2	AB	41	ILE	4.1
18	CR	51	LEU	4.1
23	CW	52	C	4.1
36	BB	4	C	4.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
42	BH	43	VAL	4.1
25	CY	72	ASP	4.1
35	DA	2808	U	4.1
35	BA	2894	G	4.1
37	DC	132	ALA	4.1
37	DC	158	ALA	4.1
37	BC	109	ASP	4.1
1	CA	1033	G	4.1
35	DA	2795	G	4.1
41	DG	156	ASP	4.1
25	CY	97	ASP	4.1
43	DI	110	ASP	4.1
35	BA	646	A	4.1
35	BA	1029	A	4.1
35	BA	1505	C	4.1
25	AY	55	ILE	4.1
25	CY	101	ILE	4.1
37	DC	93	TYR	4.1
35	DA	271(I)	G	4.1
35	DA	1465	G	4.1
1	AA	1129	C	4.1
35	BA	2662	A	4.1
35	BA	290	G	4.1
35	DA	226	G	4.1
35	DA	1171	G	4.1
1	AA	1029	C	4.1
35	BA	1546	C	4.1
35	BA	2164	C	4.1
37	BC	79	LYS	4.1
1	AA	1033	G	4.1
35	DA	271(Q)	G	4.1
52	BV	45	THR	4.1
37	BC	76	ALA	4.1
37	DC	152	ILE	4.1
35	BA	2473	U	4.1
40	BF	25	PRO	4.0
28	D2	43	GLN	4.0
37	BC	55	ASP	4.0
35	DA	1466	G	4.0
56	DZ	88	PHE	4.0
35	BA	2637	U	4.0
35	BA	2799	C	4.0

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	CA	1003	G	4.0
25	CY	58	VAL	4.0
37	DC	154	ARG	4.0
1	CA	1083	U	4.0
23	CW	20	G	4.0
23	CW	27	G	4.0
49	DS	33	LYS	4.0
1	CA	98	G	4.0
37	DC	133	PRO	4.0
37	DC	157	LYS	4.0
31	B5	53	ALA	4.0
35	BA	94(A)	G	4.0
35	BA	415	A	4.0
13	AM	123	ALA	4.0
14	CN	5	ALA	4.0
35	BA	2122	U	4.0
37	BC	45	ALA	4.0
43	DI	63	ALA	4.0
35	BA	1215	G	4.0
35	BA	2857	G	4.0
23	AW	26	C	4.0
35	DA	2467	C	4.0
36	DB	34	U	4.0
37	BC	92	ASP	4.0
26	D0	16	SER	4.0
23	CW	64	G	4.0
35	DA	1447	G	4.0
35	DA	1450	G	4.0
2	CB	70	PHE	4.0
1	CA	992	U	3.9
23	CW	48	U	3.9
4	AD	36	ARG	3.9
20	CT	105	SER	3.9
35	BA	2109	U	3.9
35	BA	30	G	3.9
35	DA	1436	G	3.9
3	AC	64	VAL	3.9
23	AW	67	C	3.9
35	DA	645	C	3.9
35	DA	272(I)	U	3.9
35	DA	1864	U	3.9
25	AY	68	VAL	3.9

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Mol	Chain	Res	Type	RSRZ
35	DA	2809	A	3.9
35	BA	898	C	3.9
1	CA	1094	G	3.9
3	AC	103	VAL	3.9
35	DA	1526	G	3.9
37	DC	145	VAL	3.9
20	AT	70	SER	3.9
23	AW	14	A	3.9
35	DA	899	A	3.9
1	CA	689	C	3.9
1	CA	838	G	3.9
1	CA	925	G	3.9
35	BA	2891	G	3.9
35	DA	1422	G	3.9
1	CA	1502	A	3.9
2	AB	207	ALA	3.9
1	AA	1028	C	3.9
39	BE	42	ASP	3.9
40	DF	24	LEU	3.9
56	DZ	172	ALA	3.9
35	DA	311	A	3.9
52	BV	68	LYS	3.9
37	BC	99	ILE	3.9
25	CY	75	ALA	3.9
1	CA	426	G	3.9
42	BH	137	ASP	3.9
23	CW	28	U	3.8
32	D6	49	HIS	3.8
1	AA	1257	U	3.8
1	CA	76	C	3.8
23	CW	60	A	3.8
35	BA	2470	G	3.8
1	CA	1257	U	3.8
17	AQ	65	ILE	3.8
35	BA	2479	G	3.8
47	BQ	123	HIS	3.8
35	BA	2190	G	3.8
35	DA	2801(A)	A	3.8
37	DC	177	LYS	3.8
1	AA	81	U	3.8
1	CA	1038	C	3.8
11	CK	129	SER	3.8

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
38	DD	26	LYS	3.8
35	BA	1052	C	3.8
35	DA	1053	C	3.8
1	CA	1274	G	3.8
35	BA	1051	G	3.8
35	DA	1484	G	3.8
39	BE	48	GLN	3.8
43	DI	65	ALA	3.8
23	CW	69	C	3.8
39	BE	34	VAL	3.8
35	BA	476	G	3.8
35	BA	2123	G	3.8
36	DB	56	G	3.8
35	DA	1509(A)	A	3.7
37	DC	209	LEU	3.7
7	CG	76	ARG	3.7
35	BA	2174	C	3.7
35	DA	12	U	3.7
10	CJ	82	ILE	3.7
2	AB	229	VAL	3.7
9	CI	53	VAL	3.7
40	DF	134	GLY	3.7
36	DB	27	C	3.7
37	DC	146	GLY	3.7
13	CM	104	ARG	3.7
37	DC	66	HIS	3.7
41	BG	90	LEU	3.7
1	CA	921	U	3.7
35	DA	271(J)	C	3.7
35	BA	333	G	3.7
35	BA	344	G	3.7
37	BC	172	HIS	3.7
43	DI	101	LEU	3.7
43	BI	61	ARG	3.7
1	AA	924	C	3.7
25	AY	58	VAL	3.7
39	BE	35	GLN	3.7
35	DA	1586	A	3.7
35	DA	2411	A	3.7
11	CK	42	TRP	3.7
21	CU	24	ARG	3.7
35	DA	363(F)	A	3.7

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	AA	639	G	3.7
1	AA	1047	G	3.7
35	DA	506	G	3.7
52	DV	65	GLY	3.7
2	AB	222	ILE	3.7
35	BA	1214	A	3.7
1	CA	840	C	3.6
35	BA	2794	C	3.6
37	BC	192	PHE	3.6
7	CG	3	ARG	3.6
37	DC	217	THR	3.6
35	BA	1530	C	3.6
44	BN	24	GLY	3.6
35	DA	1888	G	3.6
37	DC	92	ASP	3.6
35	DA	898	C	3.6
35	DA	2163	C	3.6
35	BA	1863	G	3.6
47	BQ	30	GLY	3.6
35	DA	1113	U	3.6
30	D4	23	GLU	3.6
1	AA	1270	C	3.6
1	CA	1303	C	3.6
35	DA	1532	C	3.6
1	AA	201	C	3.6
35	BA	1445(A)	C	3.6
35	BA	1895	C	3.6
1	CA	1086	U	3.6
18	CR	87	ARG	3.6
35	BA	2172	U	3.6
55	DY	51	VAL	3.6
1	CA	1273	G	3.6
13	AM	120	LYS	3.6
1	AA	1128	C	3.6
35	BA	1880	C	3.6
55	DY	54	LYS	3.6
1	AA	1124	G	3.6
35	DA	407	G	3.6
2	CB	208	ILE	3.6
35	BA	271(O)	C	3.6
49	DS	56	LEU	3.6
37	BC	43	VAL	3.6

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	AA	1036	G	3.6
35	DA	1173	G	3.6
37	BC	103	ILE	3.6
23	AW	62	C	3.6
52	BV	17	GLY	3.6
11	CK	13	GLN	3.5
1	CA	1044	A	3.5
52	BV	5	VAL	3.5
32	D6	44	ARG	3.5
35	BA	1519	G	3.5
35	DA	271(M)	G	3.5
35	DA	1461	G	3.5
23	CW	70	C	3.5
25	AY	107	THR	3.5
5	CE	29	GLY	3.5
20	CT	106	ALA	3.5
37	DC	107	TRP	3.5
43	DI	73	GLU	3.5
35	BA	1047	G	3.5
37	DC	184	LYS	3.5
42	DH	101	ARG	3.5
1	CA	146	G	3.5
35	DA	2474	C	3.5
35	DA	429	A	3.5
52	BV	28	GLU	3.5
1	AA	365	U	3.5
35	DA	271(L)	U	3.5
11	AK	19	ALA	3.5
1	AA	748	C	3.5
1	AA	1272	G	3.5
49	DS	50	SER	3.5
2	CB	215	LEU	3.5
1	CA	413	G	3.5
1	CA	994	A	3.5
17	AQ	19	VAL	3.5
1	AA	72	C	3.5
7	CG	91	VAL	3.5
37	DC	149	ILE	3.5
35	BA	1418	G	3.5
35	BA	2482	G	3.5
35	DA	1170	G	3.5
28	D2	31	GLU	3.5

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
28	D2	62	THR	3.5
13	CM	108	ARG	3.5
23	CW	13	C	3.5
35	BA	1881	C	3.5
21	CU	23	PRO	3.5
1	AA	88	A	3.5
9	CI	20	ARG	3.5
43	BI	136	VAL	3.5
1	AA	1314	C	3.5
1	CA	91	C	3.5
21	CU	25	LYS	3.5
35	DA	415	A	3.5
1	AA	925	G	3.5
1	CA	181	G	3.5
23	CW	71	G	3.5
35	BA	2101	G	3.5
43	DI	88	ILE	3.5
3	CC	104	GLN	3.5
35	DA	2185	C	3.4
2	AB	37	ASN	3.4
1	CA	1010	G	3.4
42	BH	51	ARG	3.4
52	BV	46	VAL	3.4
1	AA	1447	A	3.4
35	BA	2466	C	3.4
43	DI	146	ALA	3.4
16	CP	83	GLU	3.4
35	DA	299	A	3.4
42	BH	52	VAL	3.4
55	BY	51	VAL	3.4
35	DA	495	G	3.4
1	CA	1140	C	3.4
19	CS	35	SER	3.4
40	BF	19	GLU	3.4
1	CA	1030(D)	A	3.4
2	AB	237	ALA	3.4
43	DI	56	LYS	3.4
35	BA	403	U	3.4
1	CA	837	G	3.4
35	DA	1740	G	3.4
25	CY	55	ILE	3.4
35	BA	1018	C	3.4

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
35	DA	1557	C	3.4
37	BC	174	PRO	3.4
36	BB	112	U	3.4
37	DC	22	ILE	3.4
1	CA	488	C	3.4
35	BA	2128	C	3.4
35	BA	2103	C	3.4
35	BA	2127	G	3.4
55	BY	46	LYS	3.4
35	DA	333	G	3.4
35	BA	2832	U	3.4
43	DI	25	TYR	3.4
43	DI	89	TYR	3.4
35	DA	334	C	3.4
35	DA	406	G	3.3
1	CA	1162	C	3.3
22	AV	27	G	3.3
46	DP	118	GLY	3.3
10	AJ	83	GLU	3.3
35	BA	1494	A	3.3
35	DA	900	A	3.3
19	CS	68	GLY	3.3
1	AA	366	C	3.3
35	BA	2107	C	3.3
25	AY	69	GLN	3.3
35	BA	1106	A	3.3
35	BA	647	G	3.3
1	AA	160	A	3.3
35	DA	300	A	3.3
41	DG	74	LYS	3.3
10	CJ	72	VAL	3.3
47	BQ	138	ASP	3.3
35	DA	1529	G	3.3
36	DB	107	G	3.3
36	DB	110	G	3.3
43	DI	142	VAL	3.3
32	B6	47	THR	3.3
36	DB	3	C	3.3
46	BP	138	LEU	3.3
35	BA	1528	A	3.3
1	CA	1302	U	3.3
23	CW	65	G	3.3

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
35	BA	1954	G	3.3
35	DA	171	G	3.3
35	DA	1112	G	3.3
35	DA	2351	G	3.3
1	CA	1395	C	3.3
7	CG	90	GLU	3.3
1	AA	1001(A)	G	3.3
35	BA	1042	G	3.3
35	BA	1866	C	3.3
35	DA	855	G	3.3
44	BN	127	ASP	3.3
35	DA	1749	A	3.3
9	CI	50	LEU	3.3
28	B2	35	LEU	3.3
37	BC	19	VAL	3.3
46	DP	84	ASN	3.2
35	DA	356	G	3.2
35	DA	919	G	3.2
35	DA	1052	C	3.2
46	BP	130	PHE	3.2
37	DC	86	ALA	3.2
35	DA	918	A	3.2
42	DH	83	TYR	3.2
25	AY	70	SER	3.2
35	BA	645	C	3.2
25	CY	99	LEU	3.2
35	BA	275	G	3.2
1	CA	1004	A	3.2
35	BA	2171	A	3.2
17	CQ	18	THR	3.2
42	BH	34	GLU	3.2
35	DA	1546	C	3.2
25	AY	110	ARG	3.2
1	AA	156	G	3.2
1	AA	1004	A	3.2
1	CA	183	G	3.2
35	DA	271(N)	U	3.2
49	DS	48	LEU	3.2
7	CG	77	SER	3.2
1	CA	1229	A	3.2
35	DA	1496	A	3.2
1	AA	700	G	3.2

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
35	DA	881	G	3.2
41	BG	41	GLN	3.2
5	CE	83	GLU	3.2
5	CE	113	ALA	3.2
7	AG	49	ILE	3.2
37	DC	24	GLU	3.2
37	DC	127	LEU	3.2
37	DC	185	LEU	3.2
20	CT	103	GLY	3.2
43	DI	134	PRO	3.2
49	BS	33	LYS	3.2
41	DG	58	GLN	3.2
37	DC	124	GLY	3.2
39	BE	204	ALA	3.2
32	D6	13	CYS	3.2
35	BA	497	A	3.2
35	DA	1106	A	3.2
36	DB	53	A	3.2
37	BC	46	LYS	3.2
25	AY	98	ALA	3.2
35	BA	1114	G	3.2
35	BA	413	C	3.2
35	DA	2788	C	3.2
41	BG	44	GLY	3.2
37	DC	76	ALA	3.2
35	DA	1421	G	3.2
42	BH	58	GLU	3.2
23	CW	3	C	3.2
26	D0	5	LYS	3.2
10	CJ	35	SER	3.2
29	B3	1	MET	3.2
37	DC	98	GLU	3.2
56	DZ	105	VAL	3.2
1	CA	1272	G	3.2
35	BA	351	G	3.2
13	AM	19	LEU	3.2
42	BH	139	GLN	3.2
23	CW	29	C	3.2
35	BA	2163	C	3.2
43	DI	80	PRO	3.2
44	BN	134	ARG	3.2
42	BH	138	LYS	3.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
35	BA	2344	U	3.1
13	AM	6	GLY	3.1
35	BA	707	G	3.1
35	DA	1107	G	3.1
35	DA	1416	G	3.1
36	DB	24	G	3.1
35	DA	2313	C	3.1
37	BC	75	LEU	3.1
3	CC	80	GLY	3.1
37	DC	153	ILE	3.1
3	AC	65	ALA	3.1
1	AA	272	C	3.1
1	AA	1223	C	3.1
1	CA	78	G	3.1
35	BA	2481	G	3.1
35	DA	363(B)	G	3.1
35	DA	1176	G	3.1
43	BI	131	LYS	3.1
43	DI	78	THR	3.1
30	D4	3	GLU	3.1
1	AA	1446	U	3.1
1	CA	718	G	3.1
23	CW	19	G	3.1
35	DA	289	A	3.1
36	DB	15	A	3.1
49	DS	37	ALA	3.1
49	DS	59	LYS	3.1
35	BA	1145	C	3.1
35	DA	1506	C	3.1
35	BA	602	G	3.1
35	BA	896	A	3.1
25	AY	57	THR	3.1
19	CS	81	ARG	3.1
35	DA	2312	U	3.1
35	BA	1450(A)	C	3.1
37	BC	71	GLN	3.1
13	CM	125	ARG	3.1
43	BI	10	GLU	3.1
43	DI	116	LEU	3.1
2	AB	76	GLN	3.1
1	CA	177	C	3.1
34	D8	33	ASN	3.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
35	BA	2661	G	3.1
35	DA	2104	G	3.1
19	AS	81	ARG	3.1
41	BG	92	VAL	3.1
14	AN	2	ALA	3.1
35	BA	1544	A	3.1
35	BA	2809	A	3.1
35	DA	1046	A	3.1
7	AG	154	TYR	3.1
35	DA	934	G	3.1
50	DT	115	ARG	3.1
52	DV	96	ILE	3.1
1	CA	1121	U	3.1
25	AY	152	ASP	3.1
35	BA	1463	C	3.1
35	DA	634	C	3.1
37	DC	105	ASP	3.1
1	CA	196	A	3.1
25	CY	69	GLN	3.1
17	AQ	44	ALA	3.1
38	BD	93	ALA	3.1
35	BA	1950	G	3.1
35	DA	600	G	3.1
16	CP	13	HIS	3.0
35	DA	1533	G	3.0
37	BC	93	TYR	3.0
42	BH	66	GLY	3.0
1	AA	991	U	3.0
35	DA	2172	U	3.0
30	D4	9	LEU	3.0
37	DC	77	ILE	3.0
43	BI	72	LEU	3.0
9	CI	94	ALA	3.0
35	DA	1528(A)	A	3.0
37	DC	148	ASN	3.0
7	CG	89	MET	3.0
52	BV	96	ILE	3.0
56	BZ	89	PHE	3.0
1	AA	1068	G	3.0
1	CA	1224	G	3.0
9	CI	60	ASP	3.0
41	DG	32	PRO	3.0

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Mol	Chain	Res	Type	RSRZ
55	BY	59	GLY	3.0
1	AA	1037	C	3.0
1	CA	1320	C	3.0
1	CA	414	A	3.0
25	CY	41	LEU	3.0
35	DA	1507	A	3.0
37	DC	50	ASP	3.0
1	AA	421	U	3.0
1	CA	1125	U	3.0
8	AH	35	ILE	3.0
37	DC	207	THR	3.0
26	D0	17	GLN	3.0
35	DA	1587	A	3.0
35	DA	2327	A	3.0
16	AP	84	ALA	3.0
32	D6	41	PRO	3.0
35	BA	271(M)	G	3.0
35	BA	2807	G	3.0
35	DA	176	G	3.0
25	CY	144	ALA	3.0
17	CQ	65	ILE	3.0
37	DC	87	GLU	3.0
11	CK	44	SER	3.0
2	CB	120	ALA	3.0
2	AB	99	GLY	3.0
8	CH	130	GLY	3.0
1	AA	144	G	3.0
35	DA	1499	C	3.0
42	BH	47	GLU	3.0
1	AA	430	A	3.0
1	CA	1236	A	3.0
3	CC	36	ASP	3.0
49	DS	52	SER	3.0
9	CI	65	VAL	3.0
13	AM	64	TRP	3.0
51	DU	77	SER	3.0
1	CA	77	G	3.0
23	AW	10	G	3.0
50	BT	136	GLN	3.0
52	BV	98	GLU	3.0
1	AA	1126	U	3.0
35	BA	1108	U	3.0

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Mol	Chain	Res	Type	RSRZ
39	DE	69	LYS	3.0
23	CW	44	A	3.0
1	AA	200	G	3.0
35	BA	882	G	3.0
35	DA	883	G	3.0
37	BC	156	ILE	3.0
37	BC	221	SER	3.0
37	DC	171	ILE	3.0
39	BE	69	LYS	3.0
1	CA	428	G	2.9
1	CA	1304	G	2.9
35	DA	913	U	2.9
54	BX	69	TYR	2.9
1	AA	418	C	2.9
52	BV	30	GLY	2.9
1	AA	1001	A	2.9
52	DV	19	LYS	2.9
35	BA	1639	U	2.9
52	DV	45	THR	2.9
1	CA	530	G	2.9
1	CA	1022	G	2.9
10	AJ	35	SER	2.9
35	BA	1533	G	2.9
35	DA	2112	G	2.9
35	DA	2470	G	2.9
35	DA	2811	G	2.9
56	DZ	104	PHE	2.9
43	BI	68	LEU	2.9
33	D7	49	ARG	2.9
1	AA	1130	A	2.9
9	CI	14	VAL	2.9
49	DS	104	GLY	2.9
1	CA	1042	G	2.9
35	BA	1702	G	2.9
35	BA	2526	G	2.9
35	DA	1169	G	2.9
9	CI	36	TYR	2.9
17	CQ	45	HIS	2.9
35	BA	34	C	2.9
37	BC	97	GLU	2.9
40	BF	11	VAL	2.9
42	BH	50	VAL	2.9

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Mol	Chain	Res	Type	RSRZ
25	AY	45	TYR	2.9
1	AA	1024	G	2.9
1	CA	1178	G	2.9
35	DA	175	G	2.9
35	DA	430	G	2.9
44	BN	26	LEU	2.9
1	CA	692	U	2.9
35	BA	1113	U	2.9
35	BA	1940	U	2.9
20	CT	89	ARG	2.9
41	DG	73	ALA	2.9
43	BI	132	PRO	2.9
51	BU	91	ASP	2.9
1	AA	254	G	2.9
1	AA	1061	G	2.9
35	BA	1448	G	2.9
35	DA	329	G	2.9
35	DA	2187	G	2.9
35	BA	363(F)	A	2.9
37	BC	89	ALA	2.9
1	CA	157	G	2.9
35	BA	1465	G	2.9
35	BA	1921	G	2.9
35	DA	2100	G	2.9
35	DA	2472	G	2.9
41	DG	80	PHE	2.9
35	DA	1528	A	2.9
26	B0	16	SER	2.9
37	DC	189	ILE	2.9
25	AY	60	ALA	2.9
1	AA	1020	U	2.9
6	AF	39	LYS	2.9
35	BA	919	G	2.9
1	AA	91	C	2.9
1	CA	268	C	2.9
1	CA	1264	C	2.9
35	BA	1509	C	2.9
23	AW	21	U	2.9
26	B0	8	ALA	2.9
56	BZ	7	ALA	2.9
49	BS	49	VAL	2.9
1	AA	1007	C	2.9

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Mol	Chain	Res	Type	RSRZ
19	CS	72	GLY	2.9
35	BA	280	C	2.9
35	BA	628	G	2.9
35	BA	894	C	2.9
35	BA	1001	A	2.9
35	BA	2472	G	2.9
35	DA	360	G	2.9
35	DA	1303	G	2.9
35	DA	2119	A	2.9
35	DA	2128	C	2.9
25	AY	66	LEU	2.9
37	BC	158	ALA	2.9
42	BH	49	VAL	2.9
7	AG	57	GLU	2.9
3	AC	100	ALA	2.8
1	AA	994	A	2.8
1	CA	199	G	2.8
1	CA	266	G	2.8
23	AW	29	C	2.8
35	BA	1030	G	2.8
35	BA	1109	C	2.8
35	BA	1667	G	2.8
35	DA	878	A	2.8
49	DS	11	LYS	2.8
37	DC	142	ALA	2.8
37	BC	22	ILE	2.8
10	CJ	70	ARG	2.8
23	CW	73	A	2.8
35	BA	402	A	2.8
35	DA	2179	C	2.8
35	BA	629	G	2.8
35	DA	2796	U	2.8
41	BG	78	SER	2.8
13	AM	24	GLY	2.8
40	BF	27	GLU	2.8
37	BC	26	ALA	2.8
37	DC	188	ASN	2.8
25	AY	17	SER	2.8
13	AM	122	LYS	2.8
28	D2	34	GLU	2.8
35	DA	1876	A	2.8
35	DA	2103	C	2.8

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Mol	Chain	Res	Type	RSRZ
46	BP	118	GLY	2.8
1	AA	69	G	2.8
1	CA	571	U	2.8
49	DS	38	GLN	2.8
17	AQ	43	LEU	2.8
17	CQ	99	SER	2.8
41	BG	134	GLY	2.8
1	AA	1172	C	2.8
9	CI	18	PHE	2.8
35	BA	2551	C	2.8
36	DB	26	A	2.8
1	AA	98	G	2.8
1	CA	254	G	2.8
35	DA	140	G	2.8
37	DC	126	LYS	2.8
41	DG	81	LYS	2.8
46	BP	90	ARG	2.8
35	BA	1166	C	2.8
55	DY	61	ILE	2.8
3	CC	79	ARG	2.8
1	CA	156	G	2.8
35	BA	1169	G	2.8
35	BA	1888	G	2.8
35	DA	1042	G	2.8
49	DS	31	SER	2.8
35	BA	1498	C	2.8
35	DA	1108	U	2.8
35	DA	1213	A	2.8
35	DA	1579	A	2.8
3	AC	35	GLU	2.8
43	BI	65	ALA	2.8
41	DG	34	LEU	2.8
3	CC	78	GLY	2.8
35	BA	1435	G	2.8
7	AG	62	PHE	2.8
35	BA	918	A	2.8
35	DA	414	C	2.8
37	DC	44	HIS	2.8
9	AI	19	LEU	2.8
40	BF	23	ASP	2.8
3	CC	98	ASN	2.8
11	AK	43	SER	2.8

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Mol	Chain	Res	Type	RSRZ
1	AA	419	C	2.8
35	BA	1638	C	2.8
35	BA	2480	C	2.8
35	DA	184	C	2.8
35	DA	1967	C	2.8
17	CQ	70	ARG	2.8
25	AY	54	GLN	2.8
55	DY	28	LYS	2.8
25	AY	56	ALA	2.8
1	CA	1037	C	2.8
23	AW	36	A	2.8
35	BA	288	C	2.8
35	BA	343	C	2.8
35	BA	1876	A	2.8
35	BA	2538	C	2.8
35	BA	2801(A)	A	2.8
35	DA	271(O)	C	2.8
13	CM	61	GLU	2.7
51	DU	74	LEU	2.7
9	CI	3	GLN	2.7
1	CA	1370	G	2.7
1	AA	269	C	2.7
17	CQ	63	ARG	2.7
35	BA	1532	C	2.7
35	BA	1579	A	2.7
2	CB	68	ILE	2.7
3	CC	90	GLU	2.7
1	AA	460	G	2.7
1	AA	1032	G	2.7
35	BA	1212	G	2.7
35	DA	2883	A	2.7
36	BB	110	G	2.7
7	CG	75	VAL	2.7
20	AT	98	PRO	2.7
37	BC	59	ARG	2.7
46	BP	119	GLU	2.7
56	DZ	179	ASP	2.7
1	AA	1264	C	2.7
1	CA	265	G	2.7
1	CA	953	G	2.7
1	CA	995	C	2.7
1	CA	1036	G	2.7

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Mol	Chain	Res	Type	RSRZ
35	BA	1181	C	2.7
35	DA	1418	G	2.7
44	BN	23	LEU	2.7
10	CJ	97	GLU	2.7
37	DC	175	VAL	2.7
42	BH	35	VAL	2.7
7	AG	68	ASN	2.7
37	BC	42	GLU	2.7
1	AA	417	C	2.7
35	BA	501	A	2.7
2	CB	42	ILE	2.7
9	CI	66	ARG	2.7
23	CW	43	G	2.7
35	BA	1552	G	2.7
17	CQ	17	LYS	2.7
35	DA	332	A	2.7
41	DG	35	GLU	2.7
49	DS	34	HIS	2.7
1	CA	96	U	2.7
1	CA	286	G	2.7
25	AY	185	GLY	2.7
35	BA	407	G	2.7
41	BG	159	VAL	2.7
46	DP	87	ASP	2.7
9	CI	6	GLY	2.7
46	BP	114	ILE	2.7
35	DA	1402	C	2.7
11	CK	17	GLY	2.7
35	DA	602	G	2.7
25	CY	68	VAL	2.7
35	BA	1509(B)	A	2.7
37	BC	153	ILE	2.7
1	CA	1095	U	2.7
35	DA	1638	C	2.7
35	DA	1837	C	2.7
1	CA	1023	G	2.7
10	CJ	85	LEU	2.7
3	AC	62	ASP	2.7
35	BA	1213	A	2.7
1	CA	419	C	2.7
35	BA	1147	C	2.7
35	DA	1497	U	2.7

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Mol	Chain	Res	Type	RSRZ
43	DI	77	LEU	2.7
39	DE	90	THR	2.7
1	AA	68	G	2.7
9	CI	2	GLU	2.6
9	CI	34	ASN	2.6
35	BA	1637	A	2.6
1	CA	189(B)	C	2.6
7	AG	4	ARG	2.6
13	CM	3	ARG	2.6
41	DG	122	PRO	2.6
3	CC	68	VAL	2.6
55	BY	47	LYS	2.6
35	BA	271(R)	G	2.6
35	BA	308	G	2.6
3	CC	99	VAL	2.6
13	AM	54	VAL	2.6
35	DA	1341	U	2.6
35	DA	1509	C	2.6
4	CD	40	PRO	2.6
49	DS	44	LYS	2.6
1	AA	751	U	2.6
23	AW	5	G	2.6
35	BA	2180	U	2.6
1	AA	431	A	2.6
1	CA	1225	A	2.6
35	DA	2654	A	2.6
1	AA	1161	C	2.6
11	AK	16	SER	2.6
35	DA	1895	C	2.6
39	BE	205	ALA	2.6
35	BA	429	A	2.6
35	BA	1154	G	2.6
36	BB	63	G	2.6
25	CY	52	LEU	2.6
1	CA	1174	G	2.6
25	CY	61	PRO	2.6
35	BA	345	A	2.6
41	DG	50	ALA	2.6
35	BA	1922	G	2.6
35	BA	2831	G	2.6
35	DA	2188	C	2.6
13	CM	105	THR	2.6

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Mol	Chain	Res	Type	RSRZ
15	AO	22	THR	2.6
35	DA	603	A	2.6
1	CA	47	C	2.6
35	BA	1144	G	2.6
35	BA	1178	C	2.6
35	BA	1630	G	2.6
35	DA	272(B)	G	2.6
35	DA	2896	C	2.6
41	BG	182	LYS	2.6
43	DI	105	HIS	2.6
1	CA	1122	U	2.6
37	DC	83	ILE	2.6
4	AD	25	ARG	2.6
37	BC	148	ASN	2.6
1	CA	1046	A	2.6
25	AY	61	PRO	2.6
25	CY	66	LEU	2.6
35	BA	1936	A	2.6
35	BA	2533	A	2.6
1	CA	924	C	2.6
23	CW	16	C	2.6
35	DA	1710	C	2.6
36	BB	27	C	2.6
1	CA	64	G	2.6
35	BA	175	G	2.6
36	DB	61	G	2.6
3	CC	74	GLY	2.6
25	AY	48	ALA	2.6
35	BA	502	A	2.6
35	BA	1545	A	2.6
36	DB	48	A	2.6
1	CA	188	C	2.6
35	DA	1866	C	2.6
23	AW	31	G	2.6
35	BA	15	G	2.6
35	BA	1478	G	2.6
35	BA	2805	G	2.6
35	DA	258	G	2.6
56	BZ	104	PHE	2.6
25	AY	67	VAL	2.6
43	DI	74	ASN	2.6
56	DZ	59	LEU	2.6

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Mol	Chain	Res	Type	RSRZ
56	DZ	139	VAL	2.5
20	CT	92	LEU	2.5
1	AA	1504	G	2.5
37	DC	155	GLU	2.5
37	DC	73	ARG	2.5
1	AA	47	C	2.5
26	B0	17	GLN	2.5
32	D6	14	THR	2.5
1	AA	1219	U	2.5
36	BB	77	U	2.5
11	CK	46	GLY	2.5
1	CA	1392	G	2.5
35	BA	1416	G	2.5
35	DA	1047	G	2.5
50	DT	119	LYS	2.5
1	AA	179	A	2.5
35	BA	2748	A	2.5
1	AA	1430	C	2.5
35	BA	895	U	2.5
36	BB	79	C	2.5
1	AA	1127	G	2.5
1	CA	73	G	2.5
35	BA	892	G	2.5
35	BA	1878	G	2.5
35	DA	629	G	2.5
35	DA	2782	G	2.5
44	DN	13	TRP	2.5
32	D6	12	GLU	2.5
41	BG	156	ASP	2.5
52	BV	43	GLU	2.5
1	AA	429	U	2.5
2	AB	38	GLY	2.5
2	CB	76	GLN	2.5
3	CC	64	VAL	2.5
17	AQ	101	ARG	2.5
35	DA	2629	A	2.5
37	BC	212	VAL	2.5
56	DZ	96	VAL	2.5
1	AA	217	C	2.5
49	DS	54	LEU	2.5
52	DV	20	LEU	2.5
52	DV	31	ALA	2.5

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Mol	Chain	Res	Type	RSRZ
1	AA	1266	G	2.5
1	CA	1138	G	2.5
35	BA	1107	G	2.5
35	DA	2659	G	2.5
35	DA	1877	A	2.5
56	BZ	4	ARG	2.5
1	AA	1300	G	2.5
35	BA	2782	G	2.5
35	DA	1388	G	2.5
39	BE	49	LEU	2.5
1	CA	143	A	2.5
11	AK	31	THR	2.5
41	DG	78	SER	2.5
42	BH	45	VAL	2.5
26	D0	15	ASP	2.5
43	BI	54	GLN	2.5
37	DC	212	VAL	2.5
1	AA	1474	G	2.5
1	CA	1011	G	2.5
7	CG	16	LEU	2.5
23	CW	31	G	2.5
35	BA	1447	G	2.5
35	DA	2810	A	2.5
35	DA	2833	G	2.5
26	B0	85	ALA	2.5
7	AG	75	VAL	2.5
10	CJ	91	PRO	2.5
37	DC	84	LYS	2.5
50	BT	2	ASN	2.5
4	CD	44	GLY	2.5
9	AI	111	ARG	2.5
13	AM	108	ARG	2.5
13	CM	25	ILE	2.5
37	BC	219	GLY	2.5
52	BV	97	LYS	2.5
35	BA	256	A	2.5
1	AA	384	G	2.5
1	CA	144	G	2.5
1	CA	1139	G	2.5
35	BA	875	G	2.5
35	DA	892	G	2.5
35	DA	1647	G	2.5

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Mol	Chain	Res	Type	RSRZ
35	DA	2894	G	2.5
37	BC	139	ASN	2.5
1	AA	1322	C	2.5
35	BA	1557	C	2.5
26	D0	61	ALA	2.5
32	D6	45	LYS	2.5
45	BO	59	LYS	2.5
13	AM	50	GLU	2.5
1	AA	601	C	2.5
1	CA	1032	G	2.5
1	CA	1244	C	2.5
35	BA	2484	G	2.5
35	DA	864	G	2.5
35	DA	1482	G	2.5
35	DA	1949	G	2.5
11	AK	26	ASN	2.5
56	BZ	12	GLY	2.5
23	AW	48	U	2.5
37	DC	136	LEU	2.4
35	BA	1586	A	2.4
35	DA	257	A	2.4
36	DB	66	A	2.4
52	BV	29	PRO	2.4
1	AA	145	G	2.4
1	AA	385	C	2.4
1	CA	947	G	2.4
1	CA	1117	G	2.4
35	DA	605	C	2.4
35	DA	1109	C	2.4
35	DA	1904	G	2.4
49	DS	27	SER	2.4
49	DS	51	ALA	2.4
52	BV	26	ASP	2.4
17	AQ	68	ARG	2.4
42	BH	33	LEU	2.4
7	CG	13	GLN	2.4
47	BQ	124	LYS	2.4
25	CY	76	LEU	2.4
35	BA	2757	A	2.4
37	BC	27	ARG	2.4
40	DF	1	MET	2.4
1	AA	153	C	2.4

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Mol	Chain	Res	Type	RSRZ
1	AA	689	C	2.4
23	AW	17	C	2.4
35	DA	268	C	2.4
35	DA	2863	C	2.4
1	CA	1082	G	2.4
35	BA	75	G	2.4
35	BA	217	G	2.4
35	BA	881	G	2.4
35	BA	1470	G	2.4
35	DA	158	U	2.4
35	DA	2807	G	2.4
32	B6	26	ASN	2.4
55	DY	83	THR	2.4
18	CR	85	LEU	2.4
1	AA	589	C	2.4
1	CA	1029	C	2.4
1	CA	1116	C	2.4
1	AA	1265	G	2.4
1	AA	1461	G	2.4
12	CL	33	ARG	2.4
1	CA	983	A	2.4
35	BA	603	A	2.4
35	DA	477	A	2.4
39	DE	73	GLU	2.4
51	BU	118	GLY	2.4
19	CS	18	LYS	2.4
35	DA	1467	C	2.4
35	DA	1523	U	2.4
1	CA	184	G	2.4
1	CA	1177	G	2.4
35	BA	2861	G	2.4
35	DA	707	G	2.4
45	BO	57	VAL	2.4
1	CA	695	A	2.4
35	BA	2790	A	2.4
1	AA	271	C	2.4
17	CQ	68	ARG	2.4
37	BC	157	LYS	2.4
14	AN	61	TRP	2.4
1	AA	1370	G	2.4
1	CA	1030(A)	G	2.4
35	BA	317	G	2.4

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Mol	Chain	Res	Type	RSRZ
35	BA	2468	G	2.4
35	DA	1212	G	2.4
2	AB	91	PRO	2.4
35	DA	271(K)	U	2.4
37	BC	191	ALA	2.4
1	CA	1218	C	2.4
35	BA	105	C	2.4
7	AG	5	ARG	2.4
25	CY	71	TRP	2.4
37	DC	173	ALA	2.4
35	BA	1421	G	2.4
43	BI	126	TYR	2.4
35	BA	157	U	2.4
35	DA	363(A)	A	2.4
35	DA	646	A	2.4
46	DP	96	THR	2.4
49	DS	103	GLU	2.4
2	AB	32	ILE	2.4
7	AG	2	ALA	2.4
35	BA	1116	C	2.4
35	BA	2474	C	2.4
35	DA	924	C	2.4
37	DC	54	SER	2.4
5	AE	120	THR	2.4
1	AA	480	U	2.4
1	AA	1052	U	2.4
18	AR	61	LYS	2.4
19	CS	36	ARG	2.4
25	AY	75	ALA	2.4
35	BA	406	G	2.4
35	DA	1469	A	2.4
35	DA	2805	G	2.4
1	AA	999	C	2.4
35	BA	1464	C	2.4
35	DA	319	C	2.4
35	DA	416	C	2.4
37	DC	125	SER	2.4
46	DP	142	GLY	2.4
41	BG	126	ASP	2.4
32	B6	35	GLU	2.4
35	BA	458	G	2.4
35	BA	1466	G	2.4

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Mol	Chain	Res	Type	RSRZ
35	BA	2117	A	2.4
41	BG	81	LYS	2.4
2	AB	85	ALA	2.4
41	BG	91	ARG	2.4
3	CC	207	VAL	2.4
37	BC	145	VAL	2.4
35	BA	817	C	2.3
35	DA	2666	C	2.3
17	CQ	16	GLN	2.3
2	AB	209	ARG	2.3
37	DC	79	LYS	2.3
1	CA	603	U	2.3
13	AM	116	THR	2.3
35	DA	1757	U	2.3
17	CQ	43	LEU	2.3
37	DC	80	GLY	2.3
1	AA	117	G	2.3
1	CA	691	G	2.3
35	BA	354	G	2.3
35	DA	1642	G	2.3
35	DA	2165	G	2.3
35	BA	1631	C	2.3
35	BA	2568	C	2.3
35	DA	1320	C	2.3
35	DA	1498	C	2.3
35	DA	1648	C	2.3
52	BV	99	ILE	2.3
16	CP	84	ALA	2.3
41	BG	155	MET	2.3
50	DT	1	MET	2.3
32	B6	13	CYS	2.3
42	BH	74	ASN	2.3
1	CA	591	U	2.3
28	D2	41	ILE	2.3
35	BA	1911	U	2.3
35	DA	2180	U	2.3
44	BN	30	ILE	2.3
1	CA	923	A	2.3
35	DA	1027	A	2.3
42	BH	20	ALA	2.3
1	AA	1190	G	2.3
1	CA	592	G	2.3

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Mol	Chain	Res	Type	RSRZ
9	CI	7	THR	2.3
35	DA	361	G	2.3
50	DT	104	ASN	2.3
2	CB	119	GLU	2.3
17	AQ	49	GLU	2.3
1	AA	1393	U	2.3
35	DA	2878	U	2.3
39	BE	44	TYR	2.3
41	DG	43	LEU	2.3
2	CB	163	PHE	2.3
1	AA	704	A	2.3
13	CM	69	GLU	2.3
35	BA	2411	A	2.3
42	BH	26	VAL	2.3
7	AG	48	LYS	2.3
1	CA	301	G	2.3
1	CA	562	C	2.3
31	B5	54	GLY	2.3
32	D6	37	ARG	2.3
35	BA	430	G	2.3
35	DA	1049	C	2.3
36	DB	23	G	2.3
36	DB	64	C	2.3
11	CK	82	VAL	2.3
20	CT	98	PRO	2.3
43	BI	138	ILE	2.3
42	DH	86	GLU	2.3
32	B6	29	ASN	2.3
37	DC	68	LEU	2.3
37	DC	191	ALA	2.3
1	AA	1363(A)	A	2.3
35	DA	1449	A	2.3
1	AA	1431	C	2.3
36	DB	5	C	2.3
44	DN	139	GLU	2.3
49	BS	32	LEU	2.3
1	AA	266	G	2.3
1	AA	424	G	2.3
35	BA	1529	G	2.3
35	BA	2663	G	2.3
41	BG	40	ASN	2.3
17	AQ	66	SER	2.3

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Mol	Chain	Res	Type	RSRZ
49	BS	11	LYS	2.3
51	BU	84	LYS	2.3
9	CI	21	PRO	2.3
1	CA	1447	A	2.3
29	D3	25	ALA	2.3
42	DH	34	GLU	2.3
35	BA	2835	A	2.3
35	DA	1509(B)	A	2.3
13	AM	126	LYS	2.3
35	DA	635	C	2.3
46	BP	113	LYS	2.3
38	DD	107	ALA	2.3
47	DQ	80	GLU	2.3
7	CG	73	MET	2.3
11	AK	29	ILE	2.3
2	CB	96	ARG	2.3
32	D6	26	ASN	2.3
37	BC	18	LYS	2.3
35	BA	257	A	2.3
35	BA	2392	A	2.3
35	DA	1494	A	2.3
46	DP	120	ALA	2.3
1	AA	600	C	2.3
1	AA	840	C	2.3
1	AA	1158	C	2.3
1	CA	1226	C	2.3
11	CK	14	VAL	2.3
35	BA	2537	U	2.3
35	DA	151	C	2.3
35	DA	1578	U	2.3
41	DG	39	ILE	2.3
9	CI	93	ARG	2.3
1	CA	189(L)	G	2.3
19	CS	71	LEU	2.3
35	BA	1896	G	2.3
41	DG	172	LEU	2.3
1	CA	313	A	2.3
9	CI	80	GLY	2.3
43	BI	139	GLN	2.3
49	BS	12	PHE	2.3
11	AK	82	VAL	2.3
35	BA	2602	A	2.3

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Mol	Chain	Res	Type	RSRZ
36	BB	48	A	2.3
3	CC	91	LEU	2.3
49	BS	48	LEU	2.3
1	AA	155	C	2.3
1	AA	1321	C	2.3
35	BA	434	U	2.3
35	DA	523	C	2.3
9	CI	38	GLN	2.3
11	AK	30	VAL	2.3
43	DI	91	SER	2.3
53	DW	112	GLY	2.3
52	BV	100	ARG	2.3
1	CA	1265	G	2.3
25	AY	59	THR	2.3
36	BB	111	G	2.3
56	DZ	69	THR	2.3
7	AG	53	LYS	2.3
20	AT	106	ALA	2.3
35	DA	1301	A	2.3
41	BG	79	ASN	2.3
1	CA	312	C	2.3
35	BA	1582	C	2.3
1	AA	189(L)	G	2.2
1	AA	1181	G	2.2
1	CA	285	G	2.2
1	CA	1084	G	2.2
1	CA	1175	G	2.2
35	DA	259	G	2.2
35	DA	1883	G	2.2
35	DA	374	A	2.2
37	BC	21	THR	2.2
44	DN	14	VAL	2.2
1	CA	1249	C	2.2
36	DB	20	C	2.2
21	CU	2	GLY	2.2
1	AA	1225	A	2.2
1	AA	1301	U	2.2
1	CA	1187	G	2.2
1	CA	1190	G	2.2
13	CM	66	LEU	2.2
35	BA	1299	G	2.2
35	DA	1878	G	2.2

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Mol	Chain	Res	Type	RSRZ
35	DA	2171	A	2.2
35	DA	2352	A	2.2
42	BH	56	SER	2.2
3	AC	143	GLU	2.2
43	DI	68	LEU	2.2
1	CA	1313	U	2.2
1	CA	1390	U	2.2
35	BA	216	A	2.2
1	CA	198	G	2.2
23	AW	71	G	2.2
35	BA	1525	G	2.2
35	BA	2802	G	2.2
35	DA	88	G	2.2
43	DI	98	ALA	2.2
50	DT	137	LYS	2.2
1	AA	224	C	2.2
28	B2	38	GLN	2.2
35	BA	2896	C	2.2
35	DA	288	C	2.2
53	DW	63	ASP	2.2
9	CI	57	GLY	2.2
40	BF	167	ALA	2.2
4	AD	37	PRO	2.2
10	AJ	70	ARG	2.2
35	DA	2344	U	2.2
16	AP	41	PRO	2.2
1	AA	1271	G	2.2
1	CA	1001(A)	G	2.2
23	AW	27	G	2.2
26	D0	4	LYS	2.2
35	DA	1414	G	2.2
37	BC	86	ALA	2.2
51	BU	74	LEU	2.2
1	CA	417	C	2.2
35	DA	271(P)	C	2.2
35	DA	2466	C	2.2
7	CG	62	PHE	2.2
17	CQ	101	ARG	2.2
2	CB	33	TYR	2.2
25	AY	49	HIS	2.2
19	AS	18	LYS	2.2
35	BA	1864	U	2.2

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Mol	Chain	Res	Type	RSRZ
37	DC	69	GLY	2.2
1	AA	1433	A	2.2
35	DA	2662	A	2.2
55	DY	92	ASN	2.2
1	AA	1009	G	2.2
1	CA	1047	G	2.2
34	B8	31	HIS	2.2
13	CM	47	ASP	2.2
25	CY	47	GLY	2.2
35	BA	1411	C	2.2
35	DA	363(C)	G	2.2
35	DA	2864	G	2.2
35	BA	2884	U	2.2
1	CA	130	A	2.2
2	AB	34	ALA	2.2
35	BA	960	A	2.2
35	BA	988	A	2.2
35	DA	863	A	2.2
36	BB	105	A	2.2
7	AG	155	ARG	2.2
39	BE	68	ALA	2.2
1	AA	1030(C)	G	2.2
1	AA	1368	G	2.2
1	CA	1002	G	2.2
10	CJ	74	ILE	2.2
35	BA	1423	G	2.2
11	AK	35	PRO	2.2
20	AT	51	GLU	2.2
37	BC	146	GLY	2.2
46	BP	127	ALA	2.2
13	AM	104	ARG	2.2
49	DS	68	GLN	2.2
51	DU	73	GLY	2.2
56	DZ	118	GLN	2.2
1	AA	1230	C	2.2
3	AC	95	THR	2.2
11	AK	41	THR	2.2
35	DA	2350	C	2.2
1	AA	1082	G	2.2
1	CA	491	G	2.2
1	AA	1150	U	2.2
49	DS	53	SER	2.2

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Mol	Chain	Res	Type	RSRZ
51	DU	101	ARG	2.2
2	CB	228	GLY	2.2
46	BP	120	ALA	2.2
2	AB	75	LYS	2.2
35	DA	1286	A	2.2
16	CP	45	THR	2.2
35	BA	1146	C	2.2
35	BA	1153	C	2.2
39	DE	44	TYR	2.2
39	DE	68	ALA	2.2
1	AA	1224	G	2.2
1	CA	93	G	2.2
1	CA	473	G	2.2
35	BA	874	G	2.2
35	BA	1171	G	2.2
35	BA	1717	G	2.2
35	DA	599	G	2.2
35	DA	1459	G	2.2
35	DA	1492	G	2.2
36	DB	101	G	2.2
7	CG	17	VAL	2.2
11	AK	42	TRP	2.2
1	AA	90	U	2.1
1	CA	1132	C	2.1
13	AM	25	ILE	2.1
35	BA	2178	C	2.1
35	DA	1639	U	2.1
32	D6	38	LYS	2.1
35	BA	248	G	2.1
35	BA	880	G	2.1
35	DA	281	G	2.1
1	CA	733	A	2.1
2	AB	68	ILE	2.1
35	BA	412	A	2.1
35	DA	454	A	2.1
35	DA	1412	A	2.1
3	AC	67	THR	2.1
1	AA	427	U	2.1
1	CA	345	C	2.1
19	CS	37	ARG	2.1
35	DA	2261	C	2.1
35	DA	2480	C	2.1

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Mol	Chain	Res	Type	RSRZ
36	DB	6	C	2.1
53	BW	52	GLU	2.1
49	BS	62	LYS	2.1
1	CA	1068	G	2.1
16	CP	38	TYR	2.1
34	D8	28	GLY	2.1
35	BA	599	G	2.1
35	BA	1173	G	2.1
35	BA	2280	G	2.1
35	BA	2409	G	2.1
36	DB	98	G	2.1
1	AA	1102	A	2.1
13	AM	8	GLU	2.1
56	BZ	31	ARG	2.1
25	CY	148	HIS	2.1
1	CA	1030	C	2.1
35	BA	2540	C	2.1
46	DP	104	GLY	2.1
2	CB	214	ILE	2.1
9	CI	81	ILE	2.1
1	AA	189	G	2.1
1	AA	428	G	2.1
6	AF	64	GLN	2.1
42	DH	137	ASP	2.1
52	DV	26	ASP	2.1
5	AE	69	VAL	2.1
7	CG	61	VAL	2.1
16	CP	39	TYR	2.1
35	DA	2087	G	2.1
2	AB	190	THR	2.1
2	CB	80	ILE	2.1
17	CQ	20	THR	2.1
19	CS	15	LEU	2.1
25	AY	76	LEU	2.1
27	B1	78	LYS	2.1
1	AA	54	C	2.1
1	AA	1165	C	2.1
35	DA	2164	C	2.1
2	CB	43	ASP	2.1
9	AI	105	ASP	2.1
26	B0	15	ASP	2.1
4	AD	174	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
37	BC	126	LYS	2.1
37	DC	102	LYS	2.1
1	AA	77	G	2.1
1	AA	199	G	2.1
1	CA	1134	G	2.1
5	AE	70	PRO	2.1
35	BA	1045	A	2.1
35	BA	1628	G	2.1
35	DA	2410	G	2.1
1	AA	1125	U	2.1
37	DC	19	VAL	2.1
25	CY	90	LEU	2.1
49	DS	76	LYS	2.1
35	DA	198	C	2.1
5	CE	6	PHE	2.1
54	DX	90	GLU	2.1
12	AL	61	THR	2.1
50	BT	39	ARG	2.1
9	CI	124	GLN	2.1
56	BZ	114	GLY	2.1
15	CO	21	ASP	2.1
23	AW	28	U	2.1
35	BA	1026	U	2.1
35	DA	1413	G	2.1
35	DA	1921	G	2.1
27	D1	50	ARG	2.1
1	AA	188	C	2.1
1	CA	366	C	2.1
7	CG	118	VAL	2.1
1	AA	1268	A	2.1
2	CB	31	TYR	2.1
35	BA	2781	A	2.1
35	DA	633	A	2.1
40	DF	14	PRO	2.1
44	DN	15	LEU	2.1
35	DA	10	G	2.1
35	DA	1325	G	2.1
52	DV	21	ARG	2.1
32	B6	40	CYS	2.1
18	CR	50	ILE	2.1
1	AA	1093	A	2.1
1	CA	427	U	2.1

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Mol	Chain	Res	Type	RSRZ
41	DG	72	ARG	2.1
1	CA	1286	A	2.1
35	BA	477	A	2.1
35	BA	2469	A	2.1
2	CB	121	LEU	2.1
1	AA	688	G	2.1
35	DA	250	G	2.1
35	DA	880	G	2.1
35	DA	1525	G	2.1
36	BB	21	G	2.1
1	CA	1008	C	2.1
35	BA	1180	C	2.1
35	BA	1584	C	2.1
35	BA	2258	C	2.1
35	DA	1043	C	2.1
35	DA	1551	C	2.1
36	DB	70	C	2.1
11	AK	20	TYR	2.1
31	B5	51	TYR	2.1
35	BA	2746	U	2.1
35	DA	1175	U	2.1
41	DG	126	ASP	2.1
37	DC	26	ALA	2.1
45	BO	58	VAL	2.1
5	AE	8	GLU	2.1
1	AA	1048	G	2.1
1	CA	1223	C	2.1
3	CC	190	ARG	2.1
35	BA	1499	C	2.1
35	BA	2403	C	2.1
35	DA	2794	C	2.1
5	CE	19	MET	2.1
1	CA	1090	U	2.1
35	BA	524	U	2.1
1	CA	412	A	2.0
20	AT	26	ASN	2.0
49	BS	88	ASP	2.0
1	AA	1303	C	2.0
3	CC	105	GLU	2.0
16	CP	44	THR	2.0
35	DA	1464	C	2.0
36	BB	91	C	2.0

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Mol	Chain	Res	Type	RSRZ
25	CY	45	TYR	2.0
35	BA	1112	G	2.0
35	BA	1485	G	2.0
35	BA	2382	G	2.0
35	DA	219	G	2.0
35	DA	2876	G	2.0
36	DB	54	G	2.0
13	CM	45	VAL	2.0
35	DA	2473	U	2.0
5	CE	35	GLY	2.0
10	AJ	79	ARG	2.0
37	DC	159	GLY	2.0
37	DC	161	ILE	2.0
1	AA	19	C	2.0
1	AA	1262	C	2.0
1	CA	1115	C	2.0
1	AA	255	G	2.0
25	AY	106	LEU	2.0
35	BA	932	G	2.0
35	DA	1003	G	2.0
37	BC	74	VAL	2.0
1	CA	451	A	2.0
35	BA	332	A	2.0
35	DA	643	A	2.0
3	CC	188	LEU	2.0
39	BE	80	GLU	2.0
55	DY	86	ARG	2.0
1	CA	1321	C	2.0
35	BA	366	C	2.0
35	BA	1053	C	2.0
35	DA	403	U	2.0
25	AY	126	ARG	2.0
35	DA	1485	G	2.0
35	DA	2877	G	2.0
9	CI	30	GLY	2.0
11	AK	44	SER	2.0
1	AA	996	A	2.0
3	AC	63	ASN	2.0
9	CI	32	ASP	2.0
10	CJ	17	ASP	2.0
35	BA	374	A	2.0
35	DA	1545	A	2.0

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Mol	Chain	Res	Type	RSRZ
36	BB	52	A	2.0
1	CA	812	C	2.0
1	CA	1096	C	2.0
1	CA	1200	C	2.0
35	BA	2648	C	2.0
36	BB	3	C	2.0
42	BH	126	PRO	2.0
1	CA	1087	G	2.0
1	CA	1310	G	2.0
22	CV	26	G	2.0
26	D0	25	ARG	2.0
35	BA	2370	G	2.0
35	BA	2630	G	2.0
35	DA	271(H)	G	2.0
44	BN	15	LEU	2.0
46	DP	138	LEU	2.0
13	CM	4	ILE	2.0
35	BA	300	A	2.0
35	DA	218	A	2.0

## 6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95<sup>th</sup> percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å <sup>2</sup> )	Q<0.9
23	5MU	CW	55	21/22	0.20	0.72	-	177,200,200,200	0
23	5MU	AW	55	21/22	0.84	0.25	-	130,173,200,200	0

## 6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

## 6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. LLDF column lists the quality of electron

density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95<sup>th</sup> percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å <sup>2</sup> )	Q<0.9
57	MG	DA	3049	1/1	0.76	0.99	51.73	43,43,43,43	0
57	MG	CA	1696	1/1	0.99	0.65	25.39	52,52,52,52	0
57	MG	DA	3388	1/1	0.93	0.75	24.70	39,39,39,39	0
57	MG	CA	1690	1/1	0.87	0.59	23.16	20,20,20,20	1
57	MG	DA	3141	1/1	0.84	0.67	20.40	1,1,1,1	1
57	MG	BA	3051	1/1	0.97	0.56	17.43	1,1,1,1	0
57	MG	BA	3125	1/1	0.92	0.45	17.02	1,1,1,1	0
57	MG	AA	1695	1/1	0.93	0.45	16.17	42,42,42,42	0
57	MG	AA	1734	1/1	0.78	0.79	15.77	36,36,36,36	0
57	MG	DA	3262	1/1	0.72	1.47	14.36	79,79,79,79	1
57	MG	DA	3048	1/1	0.88	0.83	13.25	56,56,56,56	1
57	MG	BA	3129	1/1	0.87	0.31	12.65	8,8,8,8	1
57	MG	BA	3389	1/1	0.91	0.65	12.29	31,31,31,31	0
57	MG	DA	3429	1/1	0.97	0.74	12.24	36,36,36,36	1
57	MG	CA	1801	1/1	0.82	1.28	12.20	2,2,2,2	1
57	MG	DA	3012	1/1	0.92	0.41	11.78	1,1,1,1	0
57	MG	CA	1711	1/1	0.89	0.43	11.56	37,37,37,37	1
57	MG	DA	3092	1/1	0.97	0.41	11.47	1,1,1,1	0
57	MG	DA	3358	1/1	0.76	0.71	11.40	11,11,11,11	1
57	MG	BA	3210	1/1	0.95	1.18	10.11	10,10,10,10	1
57	MG	DA	3419	1/1	0.93	0.60	10.06	58,58,58,58	0
57	MG	BA	3352	1/1	0.98	0.94	10.01	44,44,44,44	1
57	MG	DA	3046	1/1	0.93	0.41	9.62	1,1,1,1	0
57	MG	DA	3377	1/1	0.93	0.84	9.56	62,62,62,62	1
57	MG	DP	201	1/1	0.90	0.67	9.23	1,1,1,1	1
57	MG	DB	214	1/1	0.96	0.95	9.23	25,25,25,25	1
57	MG	BA	3379	1/1	0.51	1.27	9.10	50,50,50,50	1
57	MG	AA	1797	1/1	0.82	0.71	9.10	9,9,9,9	1
57	MG	DA	3282	1/1	0.80	0.41	9.00	1,1,1,1	1
57	MG	CA	1686	1/1	0.65	0.46	8.69	49,49,49,49	0
57	MG	DA	3396	1/1	0.86	0.60	8.41	14,14,14,14	0
57	MG	BA	3346	1/1	0.90	0.38	8.13	43,43,43,43	0
57	MG	DA	3308	1/1	0.97	0.58	8.07	3,3,3,3	0
57	MG	DA	3023	1/1	0.97	0.40	7.98	1,1,1,1	0
57	MG	DA	3008	1/1	0.93	0.41	7.71	1,1,1,1	0
57	MG	BA	3409	1/1	0.89	0.40	7.65	5,5,5,5	0
57	MG	BA	3143	1/1	0.92	0.45	7.26	1,1,1,1	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
57	MG	DA	3309	1/1	0.92	0.35	7.06	44,44,44,44	0
57	MG	DA	3094	1/1	0.96	0.60	6.95	1,1,1,1	1
57	MG	DA	3192	1/1	0.87	0.60	6.93	27,27,27,27	0
57	MG	CA	1639	1/1	0.94	0.44	6.55	34,34,34,34	0
57	MG	DA	3238	1/1	0.94	0.39	6.50	1,1,1,1	0
57	MG	DA	3138	1/1	0.86	0.26	6.28	17,17,17,17	0
57	MG	BA	3196	1/1	0.96	0.43	6.19	19,19,19,19	0
57	MG	CA	1736	1/1	0.77	0.46	6.15	71,71,71,71	0
57	MG	DA	3106	1/1	0.98	0.37	6.05	1,1,1,1	0
57	MG	DA	3066	1/1	0.98	0.32	6.02	1,1,1,1	0
57	MG	CA	1624	1/1	0.95	0.69	6.00	40,40,40,40	0
57	MG	DA	3063	1/1	0.97	0.44	6.00	1,1,1,1	0
57	MG	DA	3149	1/1	0.91	0.70	5.90	27,27,27,27	0
57	MG	DA	3069	1/1	0.88	0.35	5.88	21,21,21,21	0
57	MG	DA	3293	1/1	0.96	0.32	5.77	1,1,1,1	1
57	MG	CN	101	1/1	0.73	0.51	5.69	65,65,65,65	0
57	MG	DA	3027	1/1	0.97	0.48	5.67	55,55,55,55	1
57	MG	DA	3315	1/1	0.98	0.32	5.46	6,6,6,6	0
57	MG	CA	1634	1/1	0.95	0.42	5.40	25,25,25,25	0
57	MG	DA	3375	1/1	0.98	0.51	5.36	74,74,74,74	1
57	MG	CA	1712	1/1	0.91	0.49	5.15	19,19,19,19	0
57	MG	CA	1746	1/1	0.14	0.92	5.01	74,74,74,74	0
57	MG	AA	1720	1/1	0.79	0.50	4.82	91,91,91,91	0
57	MG	DU	202	1/1	0.96	0.69	4.52	1,1,1,1	1
57	MG	CA	1700	1/1	0.92	0.25	4.42	10,10,10,10	0
57	MG	CA	1805	1/1	0.94	0.38	4.41	1,1,1,1	0
57	MG	BA	3048	1/1	0.98	0.47	4.12	1,1,1,1	0
57	MG	DA	3256	1/1	0.98	0.38	4.12	1,1,1,1	0
57	MG	BA	3120	1/1	0.88	0.42	4.10	38,38,38,38	0
57	MG	CA	1613	1/1	0.92	0.69	3.83	10,10,10,10	1
57	MG	BA	3397	1/1	0.72	0.41	3.69	44,44,44,44	0
57	MG	BA	3167	1/1	0.80	0.29	3.64	50,50,50,50	0
57	MG	DA	3387	1/1	0.89	0.25	3.51	33,33,33,33	1
57	MG	BA	3029	1/1	0.87	0.63	3.50	1,1,1,1	1
57	MG	CA	1716	1/1	0.89	0.79	3.47	75,75,75,75	0
57	MG	BA	3025	1/1	0.96	0.30	3.41	3,3,3,3	0
57	MG	BA	3432	1/1	0.96	0.33	3.29	47,47,47,47	0
57	MG	DA	3232	1/1	0.96	0.42	3.22	1,1,1,1	0
57	MG	BD	301	1/1	0.97	0.27	3.20	1,1,1,1	0
57	MG	BP	202	1/1	0.96	0.54	3.15	9,9,9,9	1
57	MG	BA	3166	1/1	0.83	0.28	3.10	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
57	MG	DA	3313	1/1	0.96	0.28	3.10	5,5,5,5	0
57	MG	BA	3177	1/1	0.96	0.26	3.03	36,36,36,36	1
57	MG	BA	3101	1/1	0.67	0.45	2.87	1,1,1,1	1
57	MG	DA	3421	1/1	0.99	0.43	2.85	40,40,40,40	0
57	MG	BA	3261	1/1	0.98	0.43	2.80	1,1,1,1	0
57	MG	CA	1687	1/1	0.88	0.43	2.77	42,42,42,42	0
57	MG	CA	1707	1/1	0.74	0.34	2.76	32,32,32,32	0
57	MG	DA	3408	1/1	0.95	0.27	2.63	1,1,1,1	0
57	MG	DA	3142	1/1	0.98	0.28	2.60	21,21,21,21	0
57	MG	AA	1613	1/1	0.89	0.48	2.55	11,11,11,11	1
57	MG	DA	3071	1/1	0.93	0.38	2.32	1,1,1,1	0
57	MG	DA	3118	1/1	0.96	0.20	2.26	9,9,9,9	0
57	MG	CA	1630	1/1	0.96	0.33	2.16	40,40,40,40	0
57	MG	BA	3274	1/1	0.87	0.26	2.13	55,55,55,55	0
57	MG	BO	201	1/1	0.94	0.41	1.98	1,1,1,1	1
57	MG	DN	202	1/1	0.75	0.29	1.95	31,31,31,31	1
57	MG	CA	1699	1/1	0.97	0.50	1.88	6,6,6,6	1
57	MG	BA	3412	1/1	0.54	0.49	1.86	34,34,34,34	1
57	MG	DA	3229	1/1	0.98	0.24	1.72	1,1,1,1	0
57	MG	BA	3069	1/1	0.99	0.28	1.69	1,1,1,1	0
57	MG	AA	1732	1/1	0.94	0.28	1.67	31,31,31,31	0
57	MG	AW	119	1/1	0.88	1.01	1.66	71,71,71,71	1
57	MG	BA	3009	1/1	0.92	0.35	1.65	1,1,1,1	0
57	MG	DU	201	1/1	0.97	0.29	1.59	77,77,77,77	1
57	MG	BA	3361	1/1	0.96	0.30	1.58	1,1,1,1	1
57	MG	DA	3014	1/1	0.93	0.24	1.56	14,14,14,14	0
57	MG	BA	3013	1/1	0.99	0.28	1.49	1,1,1,1	0
57	MG	DA	3389	1/1	0.93	0.26	1.41	33,33,33,33	1
57	MG	CA	1671	1/1	0.95	0.32	1.33	21,21,21,21	0
57	MG	BA	3198	1/1	0.94	0.26	1.32	4,4,4,4	0
57	MG	BA	3318	1/1	0.94	0.32	1.27	1,1,1,1	0
57	MG	CA	1763	1/1	0.88	0.48	1.24	15,15,15,15	0
57	MG	BA	3047	1/1	0.97	0.25	1.24	1,1,1,1	0
57	MG	DA	3288	1/1	0.96	0.25	1.23	7,7,7,7	1
57	MG	DA	3120	1/1	0.99	0.20	1.22	1,1,1,1	1
57	MG	AA	1705	1/1	0.80	0.30	1.19	38,38,38,38	0
57	MG	BA	3027	1/1	0.98	0.25	1.14	1,1,1,1	1
57	MG	DA	3180	1/1	0.93	0.38	1.14	47,47,47,47	0
57	MG	CG	201	1/1	0.81	0.34	1.11	10,10,10,10	1
57	MG	DA	3412	1/1	0.98	0.29	1.10	12,12,12,12	0
57	MG	BA	3268	1/1	0.96	0.44	1.05	30,30,30,30	0
57	MG	DA	3123	1/1	0.99	0.22	0.97	1,1,1,1	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
57	MG	BA	3182	1/1	0.92	0.30	0.94	13,13,13,13	0
57	MG	BA	3189	1/1	0.80	0.93	0.89	87,87,87,87	0
57	MG	BA	3243	1/1	0.99	0.25	0.87	1,1,1,1	0
57	MG	AA	1735	1/1	0.90	0.25	0.85	15,15,15,15	0
57	MG	B1	101	1/1	0.95	0.30	0.84	27,27,27,27	0
57	MG	CA	1636	1/1	0.96	0.23	0.82	1,1,1,1	0
57	MG	BA	3263	1/1	0.90	0.29	0.75	29,29,29,29	0
57	MG	BA	3173	1/1	0.97	0.29	0.74	24,24,24,24	0
57	MG	BA	3400	1/1	0.96	0.22	0.73	1,1,1,1	0
57	MG	AA	1635	1/1	0.96	0.24	0.70	2,2,2,2	0
57	MG	DA	3385	1/1	0.80	0.39	0.69	44,44,44,44	0
57	MG	BF	301	1/1	0.96	0.38	0.68	14,14,14,14	0
57	MG	AA	1796	1/1	0.95	0.19	0.68	9,9,9,9	0
57	MG	AA	1712	1/1	0.87	0.31	0.64	50,50,50,50	0
57	MG	DA	3022	1/1	0.89	0.26	0.55	28,28,28,28	1
57	MG	BA	3118	1/1	0.94	0.24	0.54	33,33,33,33	1
57	MG	DA	3199	1/1	0.95	0.23	0.50	5,5,5,5	0
57	MG	DA	3305	1/1	0.98	0.21	0.48	1,1,1,1	0
57	MG	BA	3068	1/1	0.99	0.20	0.41	1,1,1,1	0
57	MG	BA	3130	1/1	0.88	0.28	0.38	1,1,1,1	1
57	MG	DA	3213	1/1	0.95	0.24	0.33	24,24,24,24	0
57	MG	DA	3089	1/1	0.98	0.21	0.33	3,3,3,3	0
57	MG	DA	3268	1/1	0.89	0.22	0.32	24,24,24,24	0
57	MG	DE	301	1/1	0.99	0.20	0.28	1,1,1,1	1
57	MG	DA	3175	1/1	0.99	0.27	0.26	43,43,43,43	1
57	MG	BA	3140	1/1	0.93	0.24	0.22	24,24,24,24	1
57	MG	BA	3079	1/1	0.95	0.20	0.13	1,1,1,1	0
57	MG	BA	3151	1/1	0.98	0.26	0.12	1,1,1,1	0
57	MG	BA	3408	1/1	0.87	0.25	0.08	21,21,21,21	0
57	MG	DA	3030	1/1	0.99	0.20	0.03	2,2,2,2	0
57	MG	AA	1658	1/1	0.97	0.24	0.02	1,1,1,1	0
57	MG	BA	3161	1/1	0.99	0.19	-0.03	7,7,7,7	1
57	MG	DA	3083	1/1	0.99	0.24	-0.07	22,22,22,22	0
57	MG	DA	3052	1/1	0.97	0.16	-0.13	1,1,1,1	0
57	MG	AA	1691	1/1	0.93	0.28	-0.13	69,69,69,69	0
57	MG	AA	1708	1/1	0.96	0.19	-0.16	37,37,37,37	0
57	MG	AA	1794	1/1	0.92	0.28	-0.19	40,40,40,40	0
57	MG	CA	1739	1/1	0.90	0.27	-0.20	32,32,32,32	0
57	MG	BA	3271	1/1	0.94	0.21	-0.21	9,9,9,9	0
57	MG	BA	3004	1/1	0.95	0.19	-0.23	31,31,31,31	1
57	MG	DA	3085	1/1	0.98	0.17	-0.24	1,1,1,1	0
57	MG	BA	3065	1/1	0.97	0.18	-0.24	7,7,7,7	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
58	ZN	AN	101	1/1	0.99	0.23	-0.24	143,143,143,143	0
57	MG	AA	1623	1/1	0.92	0.23	-0.29	16,16,16,16	0
57	MG	DA	3318	1/1	0.89	0.62	-0.29	7,7,7,7	1
57	MG	AA	1758	1/1	0.87	0.20	-0.29	11,11,11,11	0
57	MG	BA	3085	1/1	0.94	0.20	-0.32	1,1,1,1	0
57	MG	BA	3144	1/1	0.94	0.18	-0.36	40,40,40,40	0
57	MG	BA	3277	1/1	0.93	0.21	-0.37	28,28,28,28	1
57	MG	DA	3197	1/1	0.98	0.24	-0.38	3,3,3,3	0
57	MG	BE	301	1/1	0.97	0.23	-0.39	1,1,1,1	1
57	MG	BA	3122	1/1	0.97	0.20	-0.39	1,1,1,1	1
57	MG	AA	1709	1/1	0.95	0.18	-0.40	3,3,3,3	0
57	MG	BU	201	1/1	0.93	0.25	-0.41	12,12,12,12	1
57	MG	BA	3204	1/1	0.87	0.26	-0.42	38,38,38,38	0
57	MG	BA	3061	1/1	0.97	0.22	-0.45	3,3,3,3	0
57	MG	BA	3057	1/1	0.99	0.16	-0.46	7,7,7,7	0
57	MG	BX	102	1/1	0.93	0.18	-0.50	1,1,1,1	1
57	MG	BA	3239	1/1	0.92	0.20	-0.50	14,14,14,14	1
57	MG	BA	3250	1/1	0.87	0.16	-0.51	24,24,24,24	0
57	MG	CA	1715	1/1	0.59	0.20	-0.57	55,55,55,55	0
57	MG	AA	1610	1/1	0.94	0.19	-0.58	29,29,29,29	0
57	MG	BA	3422	1/1	0.87	0.20	-0.58	30,30,30,30	0
57	MG	DA	3045	1/1	0.94	0.21	-0.60	10,10,10,10	0
57	MG	AA	1624	1/1	0.96	0.24	-0.64	9,9,9,9	0
57	MG	CW	119	1/1	0.82	0.69	-0.66	57,57,57,57	1
57	MG	DA	3010	1/1	0.94	0.17	-0.72	1,1,1,1	0
57	MG	BA	3094	1/1	0.94	0.15	-0.74	25,25,25,25	1
57	MG	BP	203	1/1	0.98	0.32	-0.77	1,1,1,1	1
57	MG	BA	3387	1/1	0.92	0.16	-0.77	42,42,42,42	0
57	MG	AA	1692	1/1	0.98	0.19	-0.77	3,3,3,3	1
57	MG	DA	3059	1/1	0.95	0.18	-0.77	1,1,1,1	0
57	MG	DA	3057	1/1	0.92	0.18	-0.77	3,3,3,3	0
57	MG	CA	1631	1/1	0.90	0.23	-0.84	57,57,57,57	0
57	MG	AA	1607	1/1	0.96	0.16	-0.85	1,1,1,1	0
57	MG	DA	3384	1/1	0.96	0.16	-0.86	1,1,1,1	1
57	MG	BA	3411	1/1	0.84	0.22	-0.87	99,99,99,99	1
57	MG	DA	3306	1/1	0.96	0.14	-0.89	1,1,1,1	0
57	MG	AA	1690	1/1	0.96	0.16	-0.90	40,40,40,40	0
57	MG	CA	1761	1/1	0.87	0.22	-0.94	1,1,1,1	1
57	MG	BN	201	1/1	0.98	0.18	-0.96	47,47,47,47	1
57	MG	AA	1670	1/1	0.98	0.20	-0.97	22,22,22,22	0
57	MG	DF	302	1/1	0.95	0.21	-0.98	15,15,15,15	0
57	MG	AA	1698	1/1	0.90	0.15	-0.98	1,1,1,1	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
57	MG	BA	3076	1/1	0.97	0.20	-0.99	1,1,1,1	0
57	MG	DA	3348	1/1	0.98	0.12	-1.01	9,9,9,9	1
57	MG	BA	3201	1/1	0.94	0.20	-1.03	31,31,31,31	0
57	MG	DA	3186	1/1	0.98	0.18	-1.03	24,24,24,24	0
57	MG	BA	3015	1/1	0.95	0.15	-1.04	6,6,6,6	0
57	MG	DA	3171	1/1	0.96	0.18	-1.05	33,33,33,33	0
57	MG	DA	3386	1/1	0.97	0.14	-1.07	19,19,19,19	0
57	MG	BA	3191	1/1	0.90	0.19	-1.08	23,23,23,23	0
57	MG	DD	301	1/1	0.99	0.19	-1.11	1,1,1,1	0
57	MG	BA	3188	1/1	0.83	0.16	-1.16	12,12,12,12	0
57	MG	BA	3236	1/1	0.99	0.15	-1.17	1,1,1,1	0
57	MG	BA	3016	1/1	0.99	0.14	-1.20	31,31,31,31	1
57	MG	AA	1685	1/1	0.96	0.13	-1.21	12,12,12,12	0
57	MG	BA	3135	1/1	0.94	0.17	-1.23	38,38,38,38	0
57	MG	DA	3398	1/1	0.95	0.18	-1.23	13,13,13,13	1
57	MG	DA	3399	1/1	0.96	0.15	-1.24	19,19,19,19	0
57	MG	BA	3414	1/1	0.98	0.17	-1.28	20,20,20,20	0
57	MG	DA	3410	1/1	0.95	0.16	-1.28	31,31,31,31	1
57	MG	BX	101	1/1	0.95	0.21	-1.29	26,26,26,26	1
57	MG	BA	3193	1/1	0.97	0.14	-1.30	1,1,1,1	0
57	MG	BA	3017	1/1	0.99	0.12	-1.32	3,3,3,3	1
57	MG	B1	103	1/1	0.95	0.15	-1.34	1,1,1,1	0
57	MG	AA	1689	1/1	0.98	0.14	-1.34	6,6,6,6	0
57	MG	D7	101	1/1	0.97	0.12	-1.34	93,93,93,93	1
57	MG	CA	1629	1/1	0.93	0.11	-1.36	2,2,2,2	1
57	MG	DA	3189	1/1	0.94	0.17	-1.40	59,59,59,59	0
57	MG	BA	3336	1/1	0.93	0.19	-1.42	8,8,8,8	1
57	MG	BA	3424	1/1	0.98	0.15	-1.43	37,37,37,37	0
57	MG	AA	1662	1/1	0.98	0.09	-1.47	41,41,41,41	1
58	ZN	CN	102	1/1	0.98	0.14	-1.48	114,114,114,114	0
57	MG	BA	3087	1/1	0.98	0.09	-1.48	18,18,18,18	0
57	MG	BA	3433	1/1	0.97	0.14	-1.53	33,33,33,33	0
57	MG	CA	1621	1/1	0.97	0.16	-1.57	31,31,31,31	0
57	MG	DA	3047	1/1	0.98	0.15	-1.58	1,1,1,1	0
57	MG	DX	101	1/1	0.98	0.11	-1.59	52,52,52,52	1
57	MG	BA	3212	1/1	0.99	0.06	-1.61	2,2,2,2	0
57	MG	BA	3077	1/1	0.98	0.14	-1.62	1,1,1,1	0
57	MG	CA	1664	1/1	0.91	0.10	-1.63	54,54,54,54	1
57	MG	CX	104	1/1	0.98	0.14	-1.64	39,39,39,39	0
57	MG	BA	3021	1/1	0.98	0.16	-1.64	2,2,2,2	0
57	MG	CA	1792	1/1	0.71	0.15	-1.66	16,16,16,16	1
57	MG	DA	3133	1/1	0.96	0.16	-1.66	9,9,9,9	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
57	MG	DA	3109	1/1	0.98	0.08	-1.74	17,17,17,17	0
57	MG	CA	1625	1/1	0.96	0.17	-1.74	23,23,23,23	0
57	MG	DA	3272	1/1	0.98	0.16	-1.75	5,5,5,5	0
57	MG	AA	1697	1/1	0.97	0.21	-1.76	17,17,17,17	1
57	MG	CL	201	1/1	0.96	0.09	-1.77	1,1,1,1	0
57	MG	DP	203	1/1	0.95	0.17	-1.78	1,1,1,1	1
57	MG	DA	3393	1/1	0.97	0.14	-1.80	1,1,1,1	1
57	MG	DA	3007	1/1	0.95	0.17	-1.80	14,14,14,14	0
57	MG	BA	3187	1/1	0.98	0.09	-1.83	1,1,1,1	0
57	MG	DA	3113	1/1	0.96	0.14	-1.87	1,1,1,1	0
57	MG	DA	3195	1/1	0.91	0.16	-1.88	15,15,15,15	0
57	MG	AA	1713	1/1	0.94	0.13	-1.90	25,25,25,25	0
57	MG	B7	101	1/1	0.97	0.08	-1.90	8,8,8,8	0
57	MG	DA	3239	1/1	0.99	0.14	-1.95	4,4,4,4	0
57	MG	BA	3032	1/1	0.98	0.15	-1.97	1,1,1,1	0
57	MG	DA	3078	1/1	0.99	0.16	-1.99	58,58,58,58	1
57	MG	DA	3075	1/1	0.98	0.15	-1.99	1,1,1,1	0
57	MG	BA	3116	1/1	0.98	0.13	-2.00	13,13,13,13	0
57	MG	BA	3311	1/1	0.98	0.12	-2.01	1,1,1,1	0
57	MG	CA	1782	1/1	0.85	0.13	-2.12	28,28,28,28	0
58	ZN	AD	303	1/1	1.00	0.20	-2.13	26,26,26,26	0
57	MG	DA	3200	1/1	0.97	0.17	-2.13	2,2,2,2	0
57	MG	AA	1693	1/1	0.82	0.10	-2.13	80,80,80,80	0
57	MG	AM	201	1/1	0.96	0.12	-2.14	28,28,28,28	0
57	MG	CA	1608	1/1	0.98	0.11	-2.17	17,17,17,17	0
57	MG	CA	1638	1/1	0.96	0.11	-2.19	6,6,6,6	0
57	MG	CA	1694	1/1	0.90	0.13	-2.20	59,59,59,59	0
57	MG	BA	3111	1/1	0.95	0.06	-2.21	1,1,1,1	0
58	ZN	CD	301	1/1	1.00	0.22	-2.23	35,35,35,35	0
57	MG	AA	1684	1/1	0.93	0.11	-2.27	25,25,25,25	0
57	MG	BA	3091	1/1	0.93	0.17	-2.28	1,1,1,1	0
57	MG	AA	1759	1/1	0.94	0.14	-2.29	20,20,20,20	0
57	MG	DA	3077	1/1	0.98	0.11	-2.33	1,1,1,1	0
57	MG	DA	3183	1/1	0.99	0.10	-2.34	11,11,11,11	0
57	MG	CA	1800	1/1	0.99	0.09	-2.38	9,9,9,9	0
57	MG	CA	1708	1/1	0.97	0.15	-2.39	99,99,99,99	0
57	MG	CA	1609	1/1	0.99	0.21	-2.39	62,62,62,62	0
57	MG	BA	3302	1/1	0.96	0.05	-2.41	19,19,19,19	1
57	MG	AA	1628	1/1	0.97	0.14	-2.42	1,1,1,1	1
57	MG	DA	3093	1/1	0.97	0.10	-2.43	9,9,9,9	0
57	MG	CA	1637	1/1	0.96	0.15	-2.45	47,47,47,47	0
57	MG	BA	3095	1/1	0.99	0.12	-2.48	1,1,1,1	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
57	MG	DA	3255	1/1	0.98	0.08	-2.51	1,1,1,1	0
57	MG	DA	3129	1/1	0.97	0.18	-2.53	1,1,1,1	0
57	MG	CA	1693	1/1	0.93	0.08	-2.58	14,14,14,14	1
57	MG	BA	3115	1/1	0.97	0.11	-2.59	3,3,3,3	0
57	MG	DA	3433	1/1	0.96	0.18	-2.60	28,28,28,28	1
57	MG	CA	1660	1/1	0.93	0.16	-2.63	8,8,8,8	0
57	MG	CA	1723	1/1	0.98	0.18	-2.70	10,10,10,10	1
57	MG	DD	302	1/1	0.99	0.13	-2.71	2,2,2,2	0
57	MG	DA	3040	1/1	0.95	0.13	-2.75	1,1,1,1	0
57	MG	CA	1627	1/1	0.98	0.09	-2.81	5,5,5,5	0
57	MG	BA	3063	1/1	0.96	0.13	-2.82	6,6,6,6	0
57	MG	BA	3185	1/1	0.97	0.09	-2.84	1,1,1,1	0
57	MG	BA	3054	1/1	0.97	0.14	-2.85	20,20,20,20	0
57	MG	D1	103	1/1	0.99	0.08	-2.86	33,33,33,33	0
57	MG	AA	1629	1/1	0.93	0.11	-2.87	22,22,22,22	0
57	MG	BA	3295	1/1	0.93	0.12	-2.90	1,1,1,1	0
57	MG	BA	3319	1/1	0.99	0.11	-3.08	1,1,1,1	0
57	MG	BA	3245	1/1	0.91	0.10	-3.15	52,52,52,52	1
57	MG	DA	3208	1/1	1.00	0.11	-3.17	14,14,14,14	0
57	MG	DA	3035	1/1	0.95	0.10	-3.19	48,48,48,48	0
57	MG	BA	3108	1/1	0.97	0.09	-3.28	25,25,25,25	0
57	MG	DA	3019	1/1	0.99	0.10	-3.29	23,23,23,23	0
57	MG	DP	204	1/1	0.95	0.13	-3.31	15,15,15,15	1
57	MG	AA	1777	1/1	0.91	0.13	-3.32	6,6,6,6	0
57	MG	DA	3167	1/1	0.97	0.11	-3.40	12,12,12,12	0
57	MG	AA	1626	1/1	0.96	0.09	-3.42	1,1,1,1	0
57	MG	AA	1703	1/1	0.90	0.13	-3.50	22,22,22,22	0
57	MG	AA	1678	1/1	0.98	0.07	-3.75	13,13,13,13	0
57	MG	CA	1691	1/1	0.97	0.09	-3.81	1,1,1,1	0
57	MG	DA	3074	1/1	0.98	0.07	-3.93	2,2,2,2	0
57	MG	DA	3003	1/1	0.96	0.09	-3.96	1,1,1,1	1
57	MG	DA	3201	1/1	0.93	0.14	-4.12	15,15,15,15	0
57	MG	BA	3244	1/1	0.99	0.14	-4.13	1,1,1,1	0
57	MG	CA	1705	1/1	0.94	0.11	-4.21	5,5,5,5	0
57	MG	DA	3061	1/1	0.99	0.09	-4.48	31,31,31,31	0
57	MG	BB	207	1/1	0.96	0.04	-4.92	11,11,11,11	0
57	MG	CA	1714	1/1	0.97	0.10	-5.35	53,53,53,53	0
57	MG	BA	3278	1/1	0.98	0.07	-5.46	8,8,8,8	0
57	MG	AA	1636	1/1	0.97	0.07	-6.08	16,16,16,16	0
57	MG	DA	3015	1/1	0.99	0.05	-7.31	1,1,1,1	1
57	MG	BA	3242	1/1	0.97	0.11	-9.09	1,1,1,1	0
57	MG	BA	3089	1/1	0.93	0.57	-	6,6,6,6	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
57	MG	B1	104	1/1	0.97	0.18	-	62,62,62,62	0
57	MG	BA	3338	1/1	0.92	0.17	-	46,46,46,46	0
57	MG	BA	3350	1/1	0.93	0.34	-	70,70,70,70	0
57	MG	BA	3158	1/1	0.83	0.35	-	32,32,32,32	0
57	MG	AA	1784	1/1	0.97	0.42	-	43,43,43,43	1
57	MG	CA	1781	1/1	0.95	0.20	-	1,1,1,1	1
57	MG	BA	3066	1/1	0.96	0.15	-	20,20,20,20	0
57	MG	BA	3042	1/1	0.98	0.18	-	1,1,1,1	0
57	MG	AA	1733	1/1	0.79	0.43	-	5,5,5,5	1
57	MG	CA	1669	1/1	0.95	0.41	-	32,32,32,32	0
57	MG	DA	3265	1/1	0.93	0.52	-	70,70,70,70	0
57	MG	BA	3176	1/1	0.89	0.57	-	21,21,21,21	1
57	MG	DA	3101	1/1	0.70	0.44	-	17,17,17,17	1
57	MG	AA	1615	1/1	0.67	1.36	-	47,47,47,47	0
57	MG	AA	1714	1/1	0.98	0.18	-	23,23,23,23	0
57	MG	AA	1762	1/1	0.66	0.44	-	58,58,58,58	0
57	MG	AW	113	1/1	0.77	0.27	-	60,60,60,60	0
57	MG	CW	115	1/1	0.46	0.85	-	93,93,93,93	1
57	MG	AW	115	1/1	0.87	0.40	-	19,19,19,19	1
57	MG	BA	3390	1/1	0.81	0.57	-	24,24,24,24	0
57	MG	CW	103	1/1	0.89	0.75	-	61,61,61,61	1
57	MG	CA	1651	1/1	0.85	0.36	-	50,50,50,50	1
57	MG	DA	3317	1/1	0.87	0.40	-	78,78,78,78	1
57	MG	DA	3042	1/1	0.88	0.22	-	17,17,17,17	1
57	MG	BA	3052	1/1	0.99	0.10	-	51,51,51,51	0
57	MG	BA	3106	1/1	0.97	0.17	-	19,19,19,19	1
57	MG	DF	305	1/1	0.85	0.30	-	1,1,1,1	1
57	MG	CA	1799	1/1	0.98	0.28	-	39,39,39,39	1
57	MG	DA	3079	1/1	0.99	0.09	-	5,5,5,5	0
57	MG	DA	3349	1/1	0.94	0.22	-	10,10,10,10	1
57	MG	BA	3190	1/1	0.96	0.14	-	17,17,17,17	0
57	MG	BA	3155	1/1	0.96	0.16	-	37,37,37,37	0
57	MG	DA	3437	1/1	0.95	0.27	-	59,59,59,59	1
57	MG	BA	3307	1/1	0.94	0.36	-	35,35,35,35	0
57	MG	BA	3073	1/1	0.94	0.47	-	1,1,1,1	0
57	MG	AA	1740	1/1	0.94	0.13	-	35,35,35,35	0
57	MG	DA	3369	1/1	0.90	0.45	-	142,142,142,142	1
57	MG	BA	3232	1/1	0.86	0.34	-	30,30,30,30	0
57	MG	BA	3266	1/1	0.88	0.83	-	65,65,65,65	0
57	MG	DA	3158	1/1	0.97	0.13	-	23,23,23,23	0
57	MG	AA	1804	1/1	0.96	0.26	-	20,20,20,20	0
57	MG	AW	102	1/1	0.76	0.39	-	82,82,82,82	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
57	MG	BB	201	1/1	0.99	0.06	-	32,32,32,32	1
57	MG	AA	1768	1/1	0.97	0.23	-	7,7,7,7	0
57	MG	AW	122	1/1	0.90	0.33	-	47,47,47,47	0
57	MG	CE	202	1/1	0.70	0.49	-	85,85,85,85	1
57	MG	DA	3104	1/1	0.98	0.14	-	9,9,9,9	1
57	MG	DA	3212	1/1	0.12	0.72	-	86,86,86,86	1
57	MG	BA	3314	1/1	0.97	0.47	-	23,23,23,23	0
57	MG	DA	3271	1/1	0.79	0.49	-	113,113,113,113	1
57	MG	DA	3245	1/1	0.86	0.57	-	67,67,67,67	0
57	MG	DA	3205	1/1	0.94	0.08	-	13,13,13,13	0
57	MG	CA	1605	1/1	0.99	0.08	-	18,18,18,18	0
57	MG	BA	3124	1/1	0.99	0.09	-	7,7,7,7	0
57	MG	CA	1661	1/1	0.98	0.43	-	17,17,17,17	0
57	MG	BA	3378	1/1	0.96	0.15	-	31,31,31,31	0
57	MG	AA	1656	1/1	0.93	0.26	-	31,31,31,31	0
57	MG	DA	3039	1/1	0.97	0.14	-	2,2,2,2	0
57	MG	CA	1789	1/1	0.98	0.25	-	73,73,73,73	0
57	MG	DA	3154	1/1	0.81	0.42	-	83,83,83,83	1
57	MG	CA	1806	1/1	0.90	0.29	-	35,35,35,35	0
57	MG	AA	1639	1/1	0.94	0.29	-	8,8,8,8	1
57	MG	DA	3269	1/1	0.91	0.53	-	57,57,57,57	1
57	MG	BN	202	1/1	0.92	0.62	-	3,3,3,3	1
57	MG	AA	1787	1/1	0.92	0.19	-	53,53,53,53	1
57	MG	AA	1786	1/1	0.97	0.11	-	1,1,1,1	1
57	MG	AA	1782	1/1	0.90	0.30	-	47,47,47,47	0
57	MG	CA	1654	1/1	0.93	0.24	-	1,1,1,1	0
57	MG	DB	206	1/1	0.91	0.22	-	72,72,72,72	0
57	MG	BA	3428	1/1	0.97	0.11	-	1,1,1,1	0
57	MG	DA	3363	1/1	0.71	0.44	-	13,13,13,13	1
57	MG	CA	1783	1/1	0.73	0.10	-	33,33,33,33	1
57	MG	BA	3436	1/1	1.00	0.18	-	6,6,6,6	1
57	MG	AA	1779	1/1	0.94	0.25	-	1,1,1,1	1
57	MG	BA	3102	1/1	0.78	0.38	-	21,21,21,21	1
57	MG	AA	1765	1/1	0.90	0.13	-	41,41,41,41	0
57	MG	AV	103	1/1	0.77	0.14	-	70,70,70,70	0
57	MG	BB	212	1/1	0.96	0.14	-	1,1,1,1	1
57	MG	DA	3009	1/1	0.95	0.27	-	1,1,1,1	1
57	MG	BA	3211	1/1	0.98	0.17	-	50,50,50,50	1
57	MG	BA	3186	1/1	0.97	0.17	-	5,5,5,5	1
57	MG	DA	3196	1/1	0.96	0.34	-	7,7,7,7	1
57	MG	CA	1767	1/1	0.77	1.31	-	94,94,94,94	0
57	MG	CA	1676	1/1	0.97	0.20	-	43,43,43,43	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
57	MG	BB	202	1/1	0.94	0.18	-	9,9,9,9	1
57	MG	DA	3084	1/1	0.93	0.22	-	13,13,13,13	0
57	MG	AA	1775	1/1	0.95	0.18	-	14,14,14,14	1
57	MG	CA	1649	1/1	0.78	0.23	-	14,14,14,14	1
57	MG	AW	120	1/1	0.93	0.31	-	58,58,58,58	1
57	MG	DA	3289	1/1	0.87	0.53	-	36,36,36,36	0
57	MG	BA	3200	1/1	0.98	0.14	-	5,5,5,5	1
57	MG	BA	3330	1/1	0.85	0.14	-	35,35,35,35	0
57	MG	BA	3178	1/1	0.86	0.37	-	38,38,38,38	0
57	MG	CA	1730	1/1	0.92	0.24	-	1,1,1,1	0
57	MG	DF	301	1/1	0.96	0.19	-	38,38,38,38	1
57	MG	BA	3258	1/1	0.86	0.17	-	32,32,32,32	0
57	MG	AW	116	1/1	0.85	0.30	-	61,61,61,61	0
57	MG	DA	3221	1/1	0.62	0.79	-	79,79,79,79	1
57	MG	DA	3244	1/1	0.98	0.13	-	57,57,57,57	0
57	MG	DA	3392	1/1	0.82	0.50	-	46,46,46,46	0
57	MG	BA	3308	1/1	0.93	0.96	-	30,30,30,30	1
57	MG	AA	1801	1/1	0.97	0.35	-	1,1,1,1	0
57	MG	DB	201	1/1	0.87	0.23	-	22,22,22,22	1
57	MG	BA	3299	1/1	0.79	1.04	-	26,26,26,26	1
57	MG	CA	1698	1/1	0.94	0.11	-	22,22,22,22	0
57	MG	BA	3282	1/1	0.87	0.32	-	72,72,72,72	0
57	MG	DA	3121	1/1	0.99	0.38	-	20,20,20,20	0
57	MG	BB	210	1/1	0.66	0.88	-	68,68,68,68	1
57	MG	DA	3425	1/1	0.95	0.26	-	19,19,19,19	0
57	MG	DA	3251	1/1	0.99	0.22	-	10,10,10,10	1
57	MG	BA	3150	1/1	0.89	0.25	-	22,22,22,22	0
57	MG	BA	3435	1/1	0.90	0.38	-	85,85,85,85	0
57	MG	BA	3026	1/1	0.94	0.17	-	8,8,8,8	0
57	MG	DA	3406	1/1	0.88	0.82	-	57,57,57,57	0
57	MG	DA	3211	1/1	0.95	0.17	-	39,39,39,39	1
57	MG	CW	113	1/1	0.55	0.68	-	68,68,68,68	1
57	MG	DA	3184	1/1	0.98	0.19	-	1,1,1,1	0
57	MG	DA	3299	1/1	0.71	0.51	-	13,13,13,13	1
57	MG	CA	1770	1/1	0.67	1.18	-	78,78,78,78	1
57	MG	D1	101	1/1	0.97	0.46	-	55,55,55,55	0
57	MG	AA	1704	1/1	0.92	0.21	-	11,11,11,11	0
57	MG	CA	1795	1/1	0.99	0.14	-	34,34,34,34	0
57	MG	AA	1649	1/1	0.99	0.09	-	56,56,56,56	0
57	MG	BA	3296	1/1	0.97	0.26	-	11,11,11,11	0
57	MG	BA	3213	1/1	0.90	0.41	-	49,49,49,49	1
57	MG	DA	3252	1/1	0.83	0.34	-	89,89,89,89	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
57	MG	BA	3137	1/1	0.88	0.72	-	7,7,7,7	0
57	MG	DA	3156	1/1	0.93	0.21	-	21,21,21,21	0
57	MG	CA	1675	1/1	0.92	0.84	-	47,47,47,47	1
57	MG	BA	3355	1/1	0.98	0.10	-	37,37,37,37	0
57	MG	DA	3418	1/1	0.95	0.62	-	24,24,24,24	1
57	MG	BA	3018	1/1	0.52	0.26	-	35,35,35,35	0
57	MG	CA	1642	1/1	0.96	0.13	-	2,2,2,2	0
57	MG	CA	1657	1/1	0.85	0.44	-	67,67,67,67	0
57	MG	DA	3225	1/1	0.85	0.16	-	35,35,35,35	0
57	MG	AA	1707	1/1	0.90	0.52	-	53,53,53,53	0
57	MG	CA	1744	1/1	0.83	0.18	-	33,33,33,33	0
57	MG	BA	3439	1/1	0.88	0.38	-	25,25,25,25	0
57	MG	DA	3227	1/1	0.91	0.43	-	73,73,73,73	0
57	MG	BA	3053	1/1	0.84	0.14	-	1,1,1,1	0
57	MG	DA	3260	1/1	0.96	0.31	-	8,8,8,8	1
57	MG	AA	1729	1/1	0.95	0.10	-	19,19,19,19	0
57	MG	DA	3096	1/1	0.98	0.30	-	1,1,1,1	0
57	MG	CA	1769	1/1	0.93	0.23	-	28,28,28,28	0
57	MG	DA	3428	1/1	0.93	0.55	-	17,17,17,17	0
57	MG	BA	3413	1/1	0.94	0.36	-	21,21,21,21	1
57	MG	DA	3361	1/1	0.49	0.50	-	88,88,88,88	0
57	MG	DA	3146	1/1	0.95	0.17	-	3,3,3,3	0
57	MG	DA	3297	1/1	0.97	0.35	-	11,11,11,11	1
57	MG	CA	1667	1/1	0.98	0.27	-	8,8,8,8	0
57	MG	BA	3364	1/1	0.93	0.19	-	12,12,12,12	0
57	MG	AA	1633	1/1	0.94	0.30	-	26,26,26,26	0
57	MG	BA	3257	1/1	0.91	0.24	-	42,42,42,42	0
57	MG	BA	3070	1/1	0.96	0.28	-	24,24,24,24	0
57	MG	CX	101	1/1	0.99	0.07	-	56,56,56,56	1
57	MG	BA	3337	1/1	0.81	0.68	-	1,1,1,1	1
57	MG	AA	1725	1/1	0.87	0.50	-	48,48,48,48	0
57	MG	DA	3416	1/1	0.98	0.15	-	1,1,1,1	1
57	MG	DA	3321	1/1	0.79	0.36	-	85,85,85,85	0
57	MG	DA	3243	1/1	0.99	0.10	-	18,18,18,18	0
57	MG	DA	3219	1/1	0.93	0.70	-	21,21,21,21	1
57	MG	BA	3404	1/1	0.93	0.19	-	108,108,108,108	0
57	MG	BA	3276	1/1	0.88	0.82	-	34,34,34,34	1
57	MG	BA	3287	1/1	0.67	0.43	-	45,45,45,45	1
57	MG	AW	104	1/1	0.97	0.09	-	14,14,14,14	1
57	MG	BA	3043	1/1	0.94	0.19	-	26,26,26,26	0
57	MG	BB	215	1/1	0.90	0.25	-	49,49,49,49	1
57	MG	AA	1750	1/1	0.97	0.11	-	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
57	MG	DA	3168	1/1	0.96	0.86	-	36,36,36,36	1
57	MG	CA	1748	1/1	0.82	0.62	-	97,97,97,97	1
57	MG	BA	3199	1/1	0.95	0.47	-	5,5,5,5	1
57	MG	BA	3351	1/1	0.88	0.36	-	68,68,68,68	1
57	MG	BA	3289	1/1	0.79	0.37	-	60,60,60,60	1
57	MG	DA	3370	1/1	0.71	0.47	-	100,100,100,100	1
57	MG	CA	1611	1/1	0.96	0.10	-	22,22,22,22	0
57	MG	DA	3237	1/1	0.96	0.33	-	22,22,22,22	0
57	MG	DA	3037	1/1	0.92	0.17	-	1,1,1,1	0
57	MG	BB	204	1/1	0.75	0.74	-	76,76,76,76	1
57	MG	CA	1681	1/1	0.50	0.48	-	96,96,96,96	1
57	MG	DA	3128	1/1	0.97	0.12	-	1,1,1,1	1
57	MG	AA	1710	1/1	0.92	0.40	-	113,113,113,113	1
57	MG	BA	3349	1/1	0.93	0.34	-	86,86,86,86	0
57	MG	AE	201	1/1	0.93	0.19	-	28,28,28,28	0
57	MG	AA	1645	1/1	0.90	0.21	-	14,14,14,14	1
57	MG	BA	3380	1/1	0.92	0.16	-	63,63,63,63	0
57	MG	BA	3001	1/1	0.91	0.38	-	8,8,8,8	0
57	MG	BA	3371	1/1	0.98	0.28	-	53,53,53,53	1
57	MG	BA	3402	1/1	0.81	0.22	-	13,13,13,13	1
57	MG	BA	3440	1/1	0.88	0.13	-	33,33,33,33	0
57	MG	DA	3099	1/1	0.98	0.29	-	1,1,1,1	1
57	MG	DA	3179	1/1	0.93	0.40	-	52,52,52,52	1
57	MG	DA	3051	1/1	0.96	0.18	-	1,1,1,1	0
57	MG	BA	3030	1/1	0.84	0.34	-	56,56,56,56	1
57	MG	CA	1650	1/1	0.88	0.26	-	98,98,98,98	1
57	MG	DA	3345	1/1	0.92	0.15	-	2,2,2,2	1
57	MG	AW	105	1/1	0.96	0.52	-	82,82,82,82	0
57	MG	AX	102	1/1	0.97	0.19	-	4,4,4,4	0
57	MG	AA	1751	1/1	0.98	0.24	-	14,14,14,14	0
57	MG	BA	3119	1/1	0.97	0.19	-	4,4,4,4	0
57	MG	AA	1781	1/1	0.84	0.33	-	7,7,7,7	1
57	MG	DA	3286	1/1	0.94	0.40	-	12,12,12,12	0
57	MG	AA	1738	1/1	0.90	0.42	-	18,18,18,18	1
57	MG	DA	3292	1/1	0.85	0.38	-	45,45,45,45	0
57	MG	DB	210	1/1	0.94	0.21	-	49,49,49,49	1
57	MG	CA	1740	1/1	0.96	0.36	-	44,44,44,44	0
57	MG	BA	3267	1/1	0.91	0.24	-	34,34,34,34	0
57	MG	BA	3099	1/1	0.94	0.28	-	45,45,45,45	1
57	MG	DA	3436	1/1	0.79	0.71	-	41,41,41,41	0
57	MG	BA	3230	1/1	0.88	0.22	-	22,22,22,22	0
57	MG	BA	3445	1/1	0.83	0.51	-	25,25,25,25	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
57	MG	BA	3110	1/1	0.96	0.19	-	32,32,32,32	1
57	MG	DA	3371	1/1	0.62	0.19	-	35,35,35,35	1
57	MG	DA	3224	1/1	0.90	0.25	-	65,65,65,65	1
57	MG	BA	3418	1/1	0.84	0.39	-	41,41,41,41	1
57	MG	DA	3274	1/1	0.94	0.05	-	65,65,65,65	0
57	MG	BA	3343	1/1	0.81	0.28	-	33,33,33,33	0
57	MG	DA	3324	1/1	0.91	0.15	-	40,40,40,40	0
57	MG	CW	110	1/1	0.06	2.12	-	66,66,66,66	1
57	MG	DA	3228	1/1	0.94	0.56	-	41,41,41,41	0
57	MG	CA	1697	1/1	0.76	0.36	-	59,59,59,59	1
57	MG	CA	1737	1/1	0.55	0.66	-	1,1,1,1	1
57	MG	AX	101	1/1	0.89	0.28	-	15,15,15,15	1
57	MG	AA	1752	1/1	0.90	0.29	-	42,42,42,42	1
57	MG	DA	3119	1/1	0.98	0.31	-	1,1,1,1	0
57	MG	BA	3134	1/1	0.99	0.07	-	1,1,1,1	0
57	MG	CA	1689	1/1	0.98	0.09	-	87,87,87,87	0
57	MG	BA	3430	1/1	0.96	0.29	-	1,1,1,1	1
57	MG	DA	3164	1/1	0.93	0.09	-	72,72,72,72	0
57	MG	AW	118	1/1	0.12	0.30	-	69,69,69,69	1
57	MG	DA	3137	1/1	0.98	0.15	-	5,5,5,5	1
57	MG	BA	3256	1/1	0.97	0.18	-	1,1,1,1	1
57	MG	BA	3291	1/1	0.94	0.15	-	7,7,7,7	0
57	MG	BA	3335	1/1	0.91	0.37	-	1,1,1,1	1
57	MG	DA	3097	1/1	0.97	0.12	-	55,55,55,55	1
57	MG	DA	3435	1/1	0.89	0.24	-	48,48,48,48	0
57	MG	DA	3351	1/1	0.98	0.28	-	11,11,11,11	1
57	MG	DA	3423	1/1	0.90	0.23	-	49,49,49,49	0
57	MG	DA	3266	1/1	0.96	0.20	-	17,17,17,17	1
57	MG	DA	3374	1/1	0.96	0.15	-	28,28,28,28	0
57	MG	BA	3002	1/1	0.75	0.40	-	16,16,16,16	1
57	MG	CA	1644	1/1	0.93	0.24	-	31,31,31,31	0
57	MG	BA	3395	1/1	0.89	0.28	-	1,1,1,1	1
57	MG	BA	3062	1/1	0.99	0.24	-	1,1,1,1	0
57	MG	DA	3082	1/1	0.97	0.14	-	20,20,20,20	0
57	MG	DA	3242	1/1	0.78	0.19	-	100,100,100,100	1
57	MG	CA	1612	1/1	0.92	0.27	-	75,75,75,75	0
57	MG	BA	3056	1/1	0.99	0.09	-	1,1,1,1	0
57	MG	DV	201	1/1	0.96	0.15	-	1,1,1,1	0
57	MG	AW	108	1/1	0.69	1.08	-	24,24,24,24	1
57	MG	AA	1643	1/1	0.94	0.24	-	43,43,43,43	0
57	MG	DA	3401	1/1	0.97	0.30	-	49,49,49,49	1
57	MG	BA	3373	1/1	0.83	0.29	-	1,1,1,1	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
57	MG	AA	1723	1/1	0.86	0.22	-	55,55,55,55	0
57	MG	BA	3138	1/1	0.98	0.21	-	12,12,12,12	0
57	MG	BA	3290	1/1	0.93	1.13	-	33,33,33,33	1
57	MG	BB	217	1/1	0.70	0.24	-	49,49,49,49	0
57	MG	AA	1683	1/1	0.84	0.42	-	1,1,1,1	1
57	MG	BA	3072	1/1	0.97	0.34	-	100,100,100,100	0
57	MG	CA	1656	1/1	0.94	0.16	-	19,19,19,19	1
57	MG	DA	3379	1/1	0.96	0.16	-	47,47,47,47	0
57	MG	AA	1686	1/1	0.88	0.24	-	61,61,61,61	0
57	MG	CA	1765	1/1	0.73	0.68	-	85,85,85,85	0
57	MG	BA	3022	1/1	0.98	0.48	-	1,1,1,1	0
57	MG	AA	1647	1/1	0.98	0.10	-	17,17,17,17	1
57	MG	AA	1650	1/1	0.50	1.83	-	20,20,20,20	1
57	MG	BA	3092	1/1	0.98	0.17	-	5,5,5,5	0
57	MG	BA	3038	1/1	0.92	0.34	-	22,22,22,22	1
57	MG	DA	3354	1/1	0.92	0.25	-	6,6,6,6	1
57	MG	DA	3362	1/1	0.91	0.27	-	15,15,15,15	0
57	MG	BA	3084	1/1	0.98	0.17	-	1,1,1,1	1
57	MG	DA	3281	1/1	0.67	0.49	-	64,64,64,64	0
57	MG	CA	1726	1/1	0.70	0.33	-	36,36,36,36	0
57	MG	AA	1803	1/1	0.92	0.24	-	9,9,9,9	0
57	MG	BA	3050	1/1	0.99	0.15	-	1,1,1,1	1
57	MG	DA	3323	1/1	0.86	0.14	-	63,63,63,63	1
57	MG	BA	3194	1/1	0.97	0.43	-	19,19,19,19	0
57	MG	CA	1745	1/1	0.88	0.21	-	112,112,112,112	1
57	MG	DA	3105	1/1	0.98	0.10	-	26,26,26,26	0
57	MG	CA	1640	1/1	0.84	0.27	-	65,65,65,65	1
57	MG	AA	1761	1/1	0.92	0.18	-	13,13,13,13	0
57	MG	BA	3224	1/1	0.91	1.25	-	80,80,80,80	0
57	MG	AA	1773	1/1	0.90	0.81	-	16,16,16,16	1
57	MG	CA	1688	1/1	0.97	0.37	-	21,21,21,21	0
57	MG	DF	304	1/1	0.98	0.23	-	66,66,66,66	0
57	MG	DA	3058	1/1	0.95	0.22	-	42,42,42,42	0
57	MG	BA	3327	1/1	0.74	0.13	-	46,46,46,46	1
57	MG	AA	1741	1/1	0.87	0.29	-	48,48,48,48	0
57	MG	AA	1724	1/1	0.91	0.22	-	34,34,34,34	1
57	MG	BA	3241	1/1	0.88	0.50	-	27,27,27,27	0
57	MG	DA	3029	1/1	0.97	0.14	-	1,1,1,1	0
57	MG	DA	3253	1/1	0.94	0.52	-	25,25,25,25	0
57	MG	BB	213	1/1	0.64	0.78	-	33,33,33,33	1
57	MG	AA	1666	1/1	0.85	0.41	-	47,47,47,47	0
57	MG	B5	101	1/1	0.97	0.23	-	1,1,1,1	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
57	MG	DA	3130	1/1	0.97	0.09	-	33,33,33,33	0
57	MG	CW	111	1/1	-0.29	0.57	-	136,136,136,136	1
57	MG	CA	1713	1/1	0.92	0.26	-	40,40,40,40	1
57	MG	BA	3123	1/1	0.92	0.58	-	35,35,35,35	0
57	MG	AW	121	1/1	0.80	0.49	-	63,63,63,63	0
57	MG	BA	3376	1/1	0.99	0.05	-	15,15,15,15	0
57	MG	BA	3396	1/1	0.94	0.57	-	15,15,15,15	0
57	MG	BA	3096	1/1	0.99	0.32	-	1,1,1,1	1
57	MG	BA	3270	1/1	0.77	0.22	-	6,6,6,6	0
57	MG	AA	1731	1/1	0.96	0.12	-	79,79,79,79	1
57	MG	DA	3422	1/1	0.61	0.23	-	62,62,62,62	0
57	MG	AA	1747	1/1	0.94	0.27	-	5,5,5,5	0
57	MG	CA	1653	1/1	0.91	0.11	-	41,41,41,41	0
57	MG	BB	203	1/1	0.85	0.25	-	60,60,60,60	0
57	MG	DA	3294	1/1	0.96	0.18	-	73,73,73,73	1
57	MG	AA	1668	1/1	0.84	0.31	-	18,18,18,18	0
57	MG	DA	3103	1/1	0.94	0.30	-	1,1,1,1	0
57	MG	BA	3362	1/1	0.85	0.28	-	38,38,38,38	0
57	MG	AA	1778	1/1	0.97	0.09	-	16,16,16,16	1
57	MG	DB	211	1/1	0.95	0.15	-	1,1,1,1	1
57	MG	DA	3216	1/1	0.95	0.10	-	28,28,28,28	1
57	MG	BA	3279	1/1	0.87	0.25	-	35,35,35,35	1
57	MG	BA	3019	1/1	0.95	0.48	-	1,1,1,1	0
57	MG	AA	1609	1/1	0.90	0.34	-	7,7,7,7	1
57	MG	BA	3234	1/1	0.98	0.18	-	12,12,12,12	0
57	MG	BA	3401	1/1	0.93	0.68	-	42,42,42,42	0
57	MG	DA	3438	1/1	0.83	1.20	-	48,48,48,48	1
57	MG	AA	1651	1/1	0.92	0.16	-	32,32,32,32	0
57	MG	BA	3246	1/1	0.93	0.32	-	23,23,23,23	1
57	MG	DA	3135	1/1	0.79	0.87	-	12,12,12,12	0
57	MG	BA	3286	1/1	0.73	0.43	-	32,32,32,32	1
57	MG	CA	1659	1/1	0.90	0.15	-	34,34,34,34	1
57	MG	AA	1760	1/1	0.87	0.23	-	37,37,37,37	0
57	MG	DA	3147	1/1	0.93	0.21	-	22,22,22,22	0
57	MG	DA	3270	1/1	0.63	1.08	-	47,47,47,47	1
57	MG	AW	109	1/1	0.83	0.29	-	37,37,37,37	1
57	MG	CV	103	1/1	0.96	0.05	-	44,44,44,44	0
57	MG	BA	3075	1/1	0.97	0.35	-	6,6,6,6	1
57	MG	BA	3434	1/1	0.86	0.20	-	60,60,60,60	0
57	MG	BA	3358	1/1	0.95	0.30	-	22,22,22,22	0
57	MG	DA	3076	1/1	0.98	0.33	-	1,1,1,1	0
57	MG	DA	3241	1/1	0.68	0.86	-	50,50,50,50	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
57	MG	DA	3178	1/1	0.98	0.15	-	1,1,1,1	1
57	MG	AA	1742	1/1	0.86	0.14	-	36,36,36,36	0
57	MG	DA	3072	1/1	0.99	0.09	-	1,1,1,1	1
57	MG	DA	3080	1/1	0.99	0.09	-	1,1,1,1	1
57	MG	DA	3073	1/1	0.99	0.21	-	1,1,1,1	1
57	MG	DA	3222	1/1	0.99	0.23	-	3,3,3,3	1
57	MG	BA	3425	1/1	0.93	0.12	-	23,23,23,23	0
57	MG	DA	3329	1/1	0.45	1.32	-	62,62,62,62	1
57	MG	DA	3153	1/1	0.98	0.15	-	1,1,1,1	0
57	MG	DA	3001	1/1	0.95	0.23	-	49,49,49,49	0
57	MG	BN	204	1/1	0.78	0.36	-	20,20,20,20	1
57	MG	BA	3206	1/1	0.78	0.36	-	1,1,1,1	1
57	MG	CA	1677	1/1	0.94	0.20	-	36,36,36,36	0
57	MG	DA	3328	1/1	0.88	0.62	-	63,63,63,63	0
57	MG	AA	1763	1/1	0.94	0.64	-	40,40,40,40	1
57	MG	DA	3343	1/1	0.82	0.40	-	1,1,1,1	1
57	MG	CW	102	1/1	0.78	0.27	-	38,38,38,38	1
57	MG	BA	3149	1/1	0.96	0.18	-	36,36,36,36	0
57	MG	AA	1618	1/1	0.97	0.17	-	1,1,1,1	0
57	MG	DA	3110	1/1	0.97	0.15	-	1,1,1,1	1
57	MG	CA	1776	1/1	0.94	0.21	-	32,32,32,32	0
57	MG	BA	3008	1/1	0.95	0.35	-	19,19,19,19	0
57	MG	BA	3367	1/1	0.90	0.45	-	37,37,37,37	0
57	MG	DA	3108	1/1	0.98	0.19	-	13,13,13,13	0
57	MG	BA	3197	1/1	0.92	0.20	-	25,25,25,25	1
57	MG	AA	1653	1/1	0.76	0.77	-	93,93,93,93	1
57	MG	DA	3273	1/1	0.60	0.43	-	97,97,97,97	1
57	MG	DA	3431	1/1	0.85	0.12	-	16,16,16,16	0
57	MG	BA	3383	1/1	0.93	0.96	-	39,39,39,39	1
57	MG	BA	3443	1/1	0.83	0.14	-	49,49,49,49	0
57	MG	DA	3356	1/1	0.95	0.17	-	57,57,57,57	0
57	MG	BA	3247	1/1	0.99	0.27	-	26,26,26,26	1
57	MG	DA	3064	1/1	0.99	0.09	-	18,18,18,18	0
57	MG	CA	1741	1/1	0.91	0.21	-	1,1,1,1	1
57	MG	CA	1793	1/1	0.83	0.64	-	74,74,74,74	0
57	MG	AA	1789	1/1	0.28	0.45	-	111,111,111,111	0
57	MG	DA	3223	1/1	0.93	0.61	-	12,12,12,12	1
57	MG	BA	3260	1/1	0.95	0.44	-	1,1,1,1	0
57	MG	DA	3336	1/1	0.83	0.31	-	60,60,60,60	0
57	MG	DA	3018	1/1	0.89	0.39	-	12,12,12,12	0
57	MG	DB	205	1/1	0.93	0.40	-	5,5,5,5	1
57	MG	B3	101	1/1	0.98	0.20	-	14,14,14,14	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
57	MG	BA	3333	1/1	0.91	0.10	-	41,41,41,41	0
57	MG	AA	1757	1/1	0.94	0.33	-	51,51,51,51	1
57	MG	AA	1769	1/1	0.74	1.21	-	48,48,48,48	0
57	MG	CW	109	1/1	0.51	0.37	-	30,30,30,30	1
57	MG	DA	3430	1/1	0.94	0.21	-	13,13,13,13	0
57	MG	D2	2601	1/1	0.76	0.47	-	73,73,73,73	1
57	MG	BA	3128	1/1	0.88	0.27	-	1,1,1,1	0
57	MG	CA	1641	1/1	0.85	0.14	-	17,17,17,17	0
57	MG	DA	3127	1/1	0.60	0.54	-	57,57,57,57	0
57	MG	DA	3087	1/1	0.81	0.47	-	17,17,17,17	1
57	MG	DA	3335	1/1	0.97	0.12	-	7,7,7,7	1
57	MG	DA	3114	1/1	0.97	0.13	-	1,1,1,1	0
57	MG	CW	117	1/1	0.54	0.26	-	57,57,57,57	1
57	MG	AA	1627	1/1	0.96	0.48	-	9,9,9,9	0
57	MG	BF	302	1/1	0.91	0.78	-	15,15,15,15	1
57	MG	BA	3431	1/1	0.91	0.58	-	12,12,12,12	0
57	MG	DA	3407	1/1	0.87	0.28	-	9,9,9,9	0
57	MG	DA	3088	1/1	0.97	0.51	-	1,1,1,1	1
57	MG	CA	1808	1/1	0.88	0.41	-	43,43,43,43	1
57	MG	DA	3174	1/1	0.76	0.55	-	50,50,50,50	1
57	MG	BA	3427	1/1	0.96	0.29	-	99,99,99,99	1
57	MG	DA	3344	1/1	0.91	0.15	-	20,20,20,20	0
57	MG	BA	3321	1/1	0.86	0.12	-	51,51,51,51	0
57	MG	DA	3296	1/1	0.75	0.67	-	33,33,33,33	1
57	MG	AA	1630	1/1	0.99	0.16	-	19,19,19,19	0
57	MG	BA	3306	1/1	0.87	0.87	-	50,50,50,50	0
57	MG	BA	3195	1/1	0.99	0.13	-	39,39,39,39	1
57	MG	BA	3407	1/1	0.90	0.41	-	10,10,10,10	0
57	MG	BA	3058	1/1	0.88	0.44	-	3,3,3,3	1
57	MG	BA	3329	1/1	0.95	0.56	-	61,61,61,61	0
57	MG	AA	1660	1/1	0.98	0.33	-	17,17,17,17	0
57	MG	BA	3208	1/1	0.97	0.22	-	23,23,23,23	1
57	MG	DA	3155	1/1	0.96	0.37	-	21,21,21,21	0
57	MG	BA	3322	1/1	0.74	0.78	-	21,21,21,21	1
57	MG	CA	1652	1/1	0.93	0.49	-	1,1,1,1	1
57	MG	BA	3005	1/1	0.79	0.36	-	25,25,25,25	0
57	MG	AW	114	1/1	0.80	0.16	-	78,78,78,78	0
57	MG	AA	1603	1/1	0.85	0.23	-	20,20,20,20	0
57	MG	CE	201	1/1	0.94	0.67	-	78,78,78,78	0
57	MG	BA	3180	1/1	0.94	0.45	-	1,1,1,1	1
57	MG	CA	1601	1/1	0.99	0.11	-	21,21,21,21	1
57	MG	CA	1754	1/1	0.77	0.32	-	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
57	MG	DA	3062	1/1	0.98	0.54	-	21,21,21,21	0
57	MG	DA	3198	1/1	0.98	0.15	-	11,11,11,11	0
57	MG	CW	105	1/1	0.90	1.01	-	79,79,79,79	1
57	MG	AA	1785	1/1	0.80	0.15	-	19,19,19,19	0
57	MG	AA	1625	1/1	0.89	0.43	-	31,31,31,31	0
57	MG	DA	3182	1/1	0.98	0.19	-	1,1,1,1	1
57	MG	BA	3035	1/1	0.59	0.39	-	67,67,67,67	1
57	MG	BA	3353	1/1	0.92	0.54	-	41,41,41,41	1
57	MG	DA	3131	1/1	0.95	0.13	-	22,22,22,22	0
57	MG	CA	1803	1/1	0.81	0.30	-	83,83,83,83	0
57	MG	CA	1790	1/1	0.96	0.18	-	19,19,19,19	0
57	MG	BA	3384	1/1	0.98	0.15	-	1,1,1,1	1
57	MG	CA	1665	1/1	0.98	0.48	-	34,34,34,34	0
57	MG	AD	301	1/1	0.93	0.21	-	15,15,15,15	1
57	MG	DE	302	1/1	0.91	0.37	-	50,50,50,50	0
57	MG	DA	3194	1/1	0.89	0.39	-	57,57,57,57	0
57	MG	DA	3424	1/1	0.81	0.21	-	31,31,31,31	1
57	MG	CA	1646	1/1	0.77	0.44	-	56,56,56,56	0
57	MG	BA	3003	1/1	0.96	0.34	-	68,68,68,68	1
57	MG	DA	3415	1/1	0.85	0.38	-	3,3,3,3	1
57	MG	DX	103	1/1	0.79	0.35	-	48,48,48,48	1
57	MG	DA	3017	1/1	0.95	0.07	-	11,11,11,11	0
57	MG	BA	3145	1/1	0.91	0.30	-	4,4,4,4	0
57	MG	BA	3359	1/1	0.93	0.39	-	21,21,21,21	1
57	MG	DA	3112	1/1	0.97	0.41	-	1,1,1,1	0
57	MG	CA	1798	1/1	0.92	0.39	-	43,43,43,43	1
57	MG	BA	3071	1/1	0.98	0.14	-	20,20,20,20	0
57	MG	AA	1642	1/1	0.95	0.14	-	26,26,26,26	0
57	MG	AA	1634	1/1	0.92	0.10	-	28,28,28,28	0
57	MG	BA	3153	1/1	0.71	0.35	-	35,35,35,35	1
57	MG	DA	3140	1/1	0.63	0.44	-	25,25,25,25	0
57	MG	BA	3323	1/1	0.88	0.35	-	74,74,74,74	0
57	MG	DA	3322	1/1	0.87	0.19	-	34,34,34,34	1
57	MG	BA	3255	1/1	0.96	0.17	-	25,25,25,25	0
57	MG	CW	120	1/1	0.93	0.27	-	20,20,20,20	1
57	MG	BA	3339	1/1	0.93	0.39	-	3,3,3,3	0
57	MG	AA	1716	1/1	0.68	0.26	-	60,60,60,60	0
57	MG	BA	3218	1/1	0.99	0.08	-	50,50,50,50	0
57	MG	CA	1607	1/1	0.93	0.25	-	54,54,54,54	0
57	MG	CA	1757	1/1	0.93	0.65	-	35,35,35,35	0
57	MG	BA	3399	1/1	0.94	0.23	-	56,56,56,56	1
57	MG	BA	3083	1/1	0.98	0.15	-	18,18,18,18	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
57	MG	BA	3320	1/1	0.89	0.23	-	37,37,37,37	1
57	MG	DA	3032	1/1	0.95	0.20	-	23,23,23,23	0
57	MG	BA	3081	1/1	0.99	0.14	-	1,1,1,1	0
57	MG	BA	3345	1/1	0.93	0.84	-	1,1,1,1	1
57	MG	DA	3405	1/1	0.93	0.35	-	30,30,30,30	1
57	MG	CA	1632	1/1	0.91	0.23	-	36,36,36,36	0
57	MG	CA	1727	1/1	0.91	1.17	-	92,92,92,92	0
57	MG	DA	3148	1/1	0.96	0.21	-	26,26,26,26	0
57	MG	BA	3207	1/1	0.68	0.74	-	1,1,1,1	1
57	MG	BA	3301	1/1	0.95	0.12	-	24,24,24,24	0
57	MG	DA	3218	1/1	0.91	0.42	-	12,12,12,12	0
57	MG	AG	201	1/1	0.96	0.21	-	5,5,5,5	1
57	MG	AW	123	1/1	0.68	0.48	-	1,1,1,1	1
57	MG	BA	3340	1/1	0.85	0.64	-	22,22,22,22	1
57	MG	DA	3125	1/1	0.99	0.39	-	4,4,4,4	1
57	MG	BA	3060	1/1	0.89	0.23	-	42,42,42,42	0
57	MG	DA	3160	1/1	0.98	0.18	-	1,1,1,1	1
57	MG	BA	3348	1/1	0.86	1.28	-	84,84,84,84	0
57	MG	AA	1687	1/1	0.89	0.14	-	61,61,61,61	0
57	MG	AA	1637	1/1	0.97	0.22	-	11,11,11,11	0
57	MG	AA	1802	1/1	0.93	0.22	-	18,18,18,18	0
57	MG	CA	1617	1/1	0.86	0.72	-	29,29,29,29	0
57	MG	DA	3161	1/1	0.76	0.31	-	112,112,112,112	0
57	MG	DA	3312	1/1	0.88	0.30	-	1,1,1,1	0
57	MG	AA	1772	1/1	0.94	0.57	-	52,52,52,52	0
57	MG	DA	3173	1/1	0.98	0.35	-	52,52,52,52	1
57	MG	AA	1798	1/1	0.60	0.69	-	52,52,52,52	1
57	MG	AX	105	1/1	0.95	0.14	-	35,35,35,35	0
57	MG	BA	3326	1/1	0.95	0.20	-	23,23,23,23	1
57	MG	BA	3317	1/1	0.98	0.12	-	60,60,60,60	0
57	MG	AV	101	1/1	0.87	0.37	-	46,46,46,46	0
57	MG	DA	3426	1/1	0.86	0.24	-	44,44,44,44	0
57	MG	DA	3098	1/1	0.98	0.14	-	5,5,5,5	0
57	MG	BA	3216	1/1	0.89	0.09	-	49,49,49,49	0
57	MG	DA	3026	1/1	0.91	0.67	-	1,1,1,1	0
57	MG	DA	3020	1/1	0.99	0.48	-	1,1,1,1	0
57	MG	BA	3044	1/1	0.95	0.38	-	36,36,36,36	0
57	MG	DA	3267	1/1	0.99	0.24	-	28,28,28,28	1
57	MG	DA	3086	1/1	0.91	0.46	-	1,1,1,1	1
57	MG	BA	3292	1/1	0.79	0.82	-	27,27,27,27	1
57	MG	BA	3126	1/1	0.95	0.33	-	1,1,1,1	0
57	MG	CA	1760	1/1	0.78	0.45	-	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
57	MG	BA	3012	1/1	0.97	0.12	-	38,38,38,38	0
57	MG	DA	3404	1/1	0.96	0.26	-	43,43,43,43	0
57	MG	CA	1720	1/1	0.94	0.14	-	4,4,4,4	1
57	MG	DA	3053	1/1	0.97	0.28	-	3,3,3,3	0
57	MG	DA	3172	1/1	0.99	0.14	-	17,17,17,17	1
57	MG	AA	1619	1/1	0.96	0.16	-	25,25,25,25	0
57	MG	AA	1764	1/1	0.83	0.26	-	35,35,35,35	0
57	MG	BA	3109	1/1	0.94	0.45	-	3,3,3,3	0
57	MG	BA	3214	1/1	0.94	0.16	-	106,106,106,106	1
57	MG	CW	116	1/1	0.24	0.73	-	107,107,107,107	0
57	MG	BA	3304	1/1	0.97	0.14	-	24,24,24,24	0
57	MG	AA	1756	1/1	0.96	0.15	-	58,58,58,58	0
57	MG	CA	1771	1/1	0.86	0.08	-	1,1,1,1	1
57	MG	AA	1654	1/1	0.98	0.37	-	65,65,65,65	0
57	MG	DA	3376	1/1	0.93	0.22	-	1,1,1,1	0
57	MG	AA	1620	1/1	0.99	0.17	-	3,3,3,3	0
57	MG	BD	303	1/1	0.97	0.40	-	13,13,13,13	1
57	MG	DA	3337	1/1	0.93	0.31	-	92,92,92,92	0
57	MG	CW	121	1/1	0.88	0.36	-	28,28,28,28	1
57	MG	CV	104	1/1	0.85	0.35	-	45,45,45,45	1
57	MG	BA	3377	1/1	0.96	0.26	-	95,95,95,95	0
57	MG	CA	1779	1/1	0.95	0.43	-	34,34,34,34	0
57	MG	BA	3067	1/1	0.99	0.13	-	1,1,1,1	1
57	MG	CE	203	1/1	0.94	0.44	-	38,38,38,38	1
57	MG	AA	1721	1/1	0.92	0.43	-	44,44,44,44	0
57	MG	BA	3112	1/1	0.91	0.23	-	34,34,34,34	1
57	MG	DA	3261	1/1	0.97	0.37	-	30,30,30,30	0
57	MG	DA	3298	1/1	0.96	0.08	-	22,22,22,22	0
57	MG	CA	1717	1/1	0.93	0.15	-	1,1,1,1	0
57	MG	BA	3310	1/1	0.93	0.26	-	5,5,5,5	1
57	MG	BA	3393	1/1	0.93	0.22	-	14,14,14,14	0
57	MG	BA	3049	1/1	0.97	0.20	-	17,17,17,17	0
57	MG	CA	1738	1/1	0.74	0.94	-	67,67,67,67	0
57	MG	BA	3226	1/1	0.95	0.33	-	1,1,1,1	1
57	MG	DA	3441	1/1	0.80	1.08	-	44,44,44,44	1
57	MG	AA	1622	1/1	0.99	0.08	-	1,1,1,1	1
57	MG	DB	202	1/1	0.42	0.69	-	33,33,33,33	1
57	MG	DA	3068	1/1	0.95	0.26	-	24,24,24,24	0
57	MG	AA	1601	1/1	0.95	0.15	-	21,21,21,21	0
57	MG	AA	1672	1/1	0.97	0.17	-	24,24,24,24	0
57	MG	D2	2602	1/1	0.98	0.35	-	6,6,6,6	1
57	MG	AA	1792	1/1	0.83	0.52	-	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
57	MG	CA	1616	1/1	0.86	0.79	-	64,64,64,64	0
57	MG	BA	3202	1/1	0.96	0.21	-	14,14,14,14	0
57	MG	AA	1612	1/1	0.96	0.26	-	36,36,36,36	0
57	MG	DA	3028	1/1	0.93	0.12	-	59,59,59,59	1
57	MG	DA	3157	1/1	0.97	0.25	-	37,37,37,37	0
57	MG	BA	3148	1/1	0.97	0.28	-	8,8,8,8	0
57	MG	BA	3007	1/1	0.99	0.08	-	37,37,37,37	0
57	MG	DA	3314	1/1	0.97	0.37	-	1,1,1,1	1
57	MG	CA	1645	1/1	0.84	0.30	-	46,46,46,46	0
57	MG	BA	3183	1/1	0.96	0.76	-	52,52,52,52	0
57	MG	AA	1793	1/1	0.94	0.18	-	6,6,6,6	1
57	MG	DA	3143	1/1	0.98	0.39	-	24,24,24,24	0
57	MG	AA	1788	1/1	0.78	0.30	-	40,40,40,40	0
57	MG	CA	1604	1/1	0.96	0.10	-	41,41,41,41	0
57	MG	CA	1768	1/1	0.91	0.58	-	5,5,5,5	1
57	MG	CA	1756	1/1	0.83	0.55	-	56,56,56,56	0
57	MG	BA	3392	1/1	0.58	0.19	-	70,70,70,70	0
57	MG	CA	1628	1/1	0.96	0.68	-	35,35,35,35	0
57	MG	BN	203	1/1	0.92	0.18	-	56,56,56,56	1
57	MG	CA	1791	1/1	0.97	0.13	-	1,1,1,1	1
57	MG	DA	3136	1/1	0.85	0.27	-	9,9,9,9	1
57	MG	DA	3132	1/1	0.98	0.08	-	34,34,34,34	0
57	MG	BA	3259	1/1	0.98	0.08	-	1,1,1,1	1
57	MG	CA	1786	1/1	0.60	0.49	-	39,39,39,39	1
57	MG	DA	3342	1/1	0.99	0.21	-	1,1,1,1	1
57	MG	BA	3203	1/1	0.88	0.27	-	10,10,10,10	0
57	MG	DA	3372	1/1	0.83	0.72	-	35,35,35,35	1
57	MG	DB	209	1/1	0.80	0.40	-	96,96,96,96	1
57	MG	CA	1623	1/1	0.69	0.34	-	84,84,84,84	1
57	MG	DA	3070	1/1	0.97	0.35	-	40,40,40,40	1
57	MG	DA	3214	1/1	0.71	0.35	-	64,64,64,64	1
57	MG	DA	3202	1/1	0.86	0.89	-	7,7,7,7	1
57	MG	AW	106	1/1	0.81	0.54	-	26,26,26,26	1
57	MG	CA	1774	1/1	0.86	0.32	-	74,74,74,74	0
57	MG	BA	3363	1/1	0.96	0.12	-	90,90,90,90	0
57	MG	BA	3391	1/1	0.91	0.33	-	30,30,30,30	0
57	MG	AA	1726	1/1	0.84	0.32	-	10,10,10,10	0
57	MG	BA	3248	1/1	0.94	0.17	-	10,10,10,10	0
57	MG	BA	3006	1/1	0.77	0.46	-	77,77,77,77	0
57	MG	BA	3354	1/1	0.96	0.15	-	58,58,58,58	0
57	MG	DB	215	1/1	0.90	0.32	-	63,63,63,63	1
57	MG	BA	3175	1/1	0.94	0.11	-	21,21,21,21	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
57	MG	AA	1754	1/1	0.89	0.29	-	49,49,49,49	1
57	MG	DA	3150	1/1	0.84	0.47	-	39,39,39,39	1
57	MG	CV	102	1/1	0.73	0.45	-	57,57,57,57	0
57	MG	BA	3136	1/1	0.97	0.29	-	1,1,1,1	0
57	MG	AA	1718	1/1	0.79	0.41	-	1,1,1,1	1
57	MG	BA	3225	1/1	0.83	0.91	-	67,67,67,67	0
57	MG	DB	212	1/1	0.66	0.28	-	55,55,55,55	0
57	MG	CA	1718	1/1	0.73	0.94	-	59,59,59,59	0
57	MG	CA	1807	1/1	0.99	0.20	-	1,1,1,1	0
57	MG	DH	201	1/1	0.67	0.53	-	12,12,12,12	1
57	MG	DA	3381	1/1	0.99	0.17	-	65,65,65,65	0
57	MG	CA	1620	1/1	0.94	0.13	-	34,34,34,34	0
57	MG	B1	102	1/1	0.87	0.22	-	7,7,7,7	1
57	MG	CA	1683	1/1	0.92	0.45	-	19,19,19,19	0
57	MG	BA	3205	1/1	0.93	0.15	-	23,23,23,23	0
57	MG	AK	201	1/1	0.78	0.43	-	33,33,33,33	1
57	MG	BA	3020	1/1	0.91	0.24	-	21,21,21,21	0
57	MG	BU	202	1/1	0.97	0.26	-	18,18,18,18	1
57	MG	DA	3025	1/1	0.97	0.19	-	5,5,5,5	0
57	MG	BF	303	1/1	0.89	0.18	-	36,36,36,36	0
57	MG	BA	3405	1/1	0.86	0.36	-	22,22,22,22	0
57	MG	DA	3300	1/1	0.96	0.19	-	38,38,38,38	0
57	MG	BA	3344	1/1	0.98	0.17	-	1,1,1,1	1
57	MG	DA	3203	1/1	0.95	0.40	-	1,1,1,1	1
57	MG	BA	3275	1/1	0.92	0.14	-	37,37,37,37	0
57	MG	CA	1658	1/1	0.68	0.97	-	24,24,24,24	1
57	MG	BA	3300	1/1	0.96	0.28	-	1,1,1,1	1
57	MG	AA	1681	1/1	0.95	0.30	-	14,14,14,14	0
57	MG	BA	3107	1/1	0.91	0.18	-	23,23,23,23	0
57	MG	AA	1715	1/1	0.83	0.98	-	29,29,29,29	1
57	MG	DA	3226	1/1	0.94	0.33	-	48,48,48,48	0
57	MG	AA	1694	1/1	0.89	0.25	-	13,13,13,13	1
57	MG	BA	3313	1/1	0.97	0.40	-	18,18,18,18	0
57	MG	AA	1767	1/1	0.90	0.27	-	21,21,21,21	0
57	MG	CL	202	1/1	0.91	0.33	-	5,5,5,5	1
57	MG	BA	3316	1/1	0.74	0.60	-	1,1,1,1	1
57	MG	BF	304	1/1	0.82	0.35	-	9,9,9,9	1
57	MG	CA	1732	1/1	0.98	0.27	-	10,10,10,10	0
57	MG	BA	3406	1/1	0.91	0.45	-	19,19,19,19	0
57	MG	CA	1655	1/1	0.82	0.55	-	69,69,69,69	1
57	MG	AA	1667	1/1	0.94	0.38	-	17,17,17,17	0
57	MG	BA	3223	1/1	0.98	0.21	-	9,9,9,9	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
57	MG	DB	207	1/1	0.94	0.25	-	16,16,16,16	1
57	MG	CA	1804	1/1	0.76	0.32	-	45,45,45,45	0
57	MG	DA	3122	1/1	0.99	0.19	-	8,8,8,8	0
57	MG	DA	3169	1/1	0.98	0.33	-	1,1,1,1	1
57	MG	DA	3107	1/1	0.92	0.37	-	34,34,34,34	0
57	MG	AD	302	1/1	0.91	0.44	-	28,28,28,28	0
57	MG	DA	3394	1/1	0.95	0.17	-	30,30,30,30	1
57	MG	DA	3249	1/1	0.96	0.11	-	1,1,1,1	0
57	MG	BB	211	1/1	0.97	0.30	-	44,44,44,44	1
57	MG	BB	216	1/1	0.99	0.36	-	1,1,1,1	1
57	MG	CA	1643	1/1	0.77	0.99	-	73,73,73,73	1
57	MG	DA	3276	1/1	0.93	0.22	-	47,47,47,47	0
57	MG	BA	3156	1/1	0.89	0.64	-	12,12,12,12	1
57	MG	DA	3352	1/1	0.95	0.27	-	123,123,123,123	1
57	MG	BA	3033	1/1	0.96	0.30	-	20,20,20,20	0
57	MG	BA	3113	1/1	0.95	0.29	-	1,1,1,1	0
57	MG	BA	3231	1/1	0.01	0.84	-	102,102,102,102	0
57	MG	DA	3159	1/1	0.70	0.30	-	21,21,21,21	0
57	MG	DA	3340	1/1	0.92	0.15	-	59,59,59,59	0
57	MG	CA	1692	1/1	0.82	0.32	-	74,74,74,74	1
57	MG	CA	1703	1/1	0.94	0.28	-	12,12,12,12	0
57	MG	CA	1701	1/1	0.96	0.24	-	3,3,3,3	0
57	MG	BA	3235	1/1	0.95	0.44	-	22,22,22,22	0
57	MG	CA	1797	1/1	0.79	1.54	-	82,82,82,82	1
57	MG	BA	3437	1/1	0.86	0.32	-	64,64,64,64	0
57	MG	CV	101	1/1	0.73	0.15	-	41,41,41,41	0
57	MG	AA	1671	1/1	0.85	0.33	-	47,47,47,47	0
57	MG	AA	1679	1/1	0.83	0.47	-	12,12,12,12	1
57	MG	BA	3147	1/1	0.98	0.73	-	1,1,1,1	1
57	MG	CA	1614	1/1	0.97	0.34	-	6,6,6,6	0
57	MG	DA	3188	1/1	0.98	0.19	-	26,26,26,26	0
57	MG	DA	3038	1/1	0.99	0.20	-	3,3,3,3	1
57	MG	CA	1663	1/1	0.98	0.57	-	15,15,15,15	1
57	MG	BA	3347	1/1	0.94	0.50	-	1,1,1,1	0
57	MG	DA	3005	1/1	0.92	0.11	-	22,22,22,22	0
57	MG	BB	205	1/1	0.99	0.11	-	6,6,6,6	1
57	MG	CA	1719	1/1	0.93	0.20	-	56,56,56,56	1
57	MG	BA	3034	1/1	0.98	0.13	-	15,15,15,15	0
57	MG	DA	3091	1/1	0.98	0.14	-	1,1,1,1	0
57	MG	DA	3285	1/1	0.85	0.53	-	13,13,13,13	1
57	MG	AA	1700	1/1	0.95	0.42	-	34,34,34,34	0
57	MG	BA	3272	1/1	0.93	0.15	-	1,1,1,1	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
57	MG	D3	101	1/1	0.88	0.27	-	42,42,42,42	0
57	MG	CA	1750	1/1	0.96	0.36	-	14,14,14,14	0
57	MG	CA	1678	1/1	0.95	0.10	-	4,4,4,4	0
57	MG	DX	102	1/1	0.96	0.26	-	23,23,23,23	1
57	MG	BA	3221	1/1	0.97	0.16	-	49,49,49,49	0
57	MG	DA	3411	1/1	0.95	0.17	-	19,19,19,19	0
57	MG	DB	204	1/1	0.87	0.43	-	89,89,89,89	1
57	MG	DA	3378	1/1	0.99	0.21	-	18,18,18,18	1
57	MG	AX	103	1/1	0.98	0.09	-	1,1,1,1	1
57	MG	BA	3332	1/1	0.91	0.37	-	64,64,64,64	0
57	MG	BA	3046	1/1	0.97	0.12	-	15,15,15,15	0
57	MG	CA	1794	1/1	0.82	0.68	-	68,68,68,68	0
57	MG	CW	106	1/1	0.47	1.15	-	47,47,47,47	1
57	MG	BA	3086	1/1	0.93	0.52	-	1,1,1,1	0
57	MG	DA	3304	1/1	0.97	0.46	-	1,1,1,1	1
57	MG	DA	3002	1/1	0.99	0.12	-	6,6,6,6	1
57	MG	CA	1743	1/1	0.83	0.33	-	64,64,64,64	0
57	MG	BA	3420	1/1	0.99	0.12	-	10,10,10,10	0
57	MG	DA	3163	1/1	0.82	0.46	-	17,17,17,17	1
57	MG	DA	3117	1/1	0.94	0.34	-	5,5,5,5	0
57	MG	AW	111	1/1	0.42	0.32	-	76,76,76,76	1
57	MG	CA	1684	1/1	0.83	0.36	-	59,59,59,59	0
57	MG	AW	101	1/1	0.96	1.05	-	51,51,51,51	1
57	MG	DA	3207	1/1	0.86	0.54	-	36,36,36,36	1
57	MG	DA	3124	1/1	0.96	0.22	-	24,24,24,24	0
57	MG	DA	3284	1/1	0.94	0.38	-	18,18,18,18	0
57	MG	BA	3423	1/1	-0.04	0.63	-	54,54,54,54	1
57	MG	BD	302	1/1	0.98	0.26	-	1,1,1,1	0
57	MG	BA	3237	1/1	0.98	0.13	-	8,8,8,8	1
57	MG	CW	118	1/1	0.70	0.43	-	1,1,1,1	1
57	MG	DA	3181	1/1	0.83	0.36	-	47,47,47,47	1
57	MG	BA	3381	1/1	0.99	0.11	-	23,23,23,23	0
57	MG	CX	102	1/1	0.97	0.17	-	1,1,1,1	1
57	MG	BA	3172	1/1	0.97	0.30	-	100,100,100,100	1
57	MG	DA	3126	1/1	0.92	0.20	-	1,1,1,1	0
57	MG	CA	1731	1/1	0.54	0.49	-	54,54,54,54	0
57	MG	BA	3041	1/1	0.98	0.19	-	46,46,46,46	1
57	MG	DA	3320	1/1	0.82	0.55	-	75,75,75,75	0
57	MG	DA	3034	1/1	0.96	0.29	-	33,33,33,33	0
57	MG	BA	3341	1/1	0.93	0.16	-	4,4,4,4	1
57	MG	BA	3309	1/1	0.76	0.65	-	47,47,47,47	0
57	MG	BA	3114	1/1	0.96	0.28	-	1,1,1,1	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
57	MG	DA	3021	1/1	0.98	0.19	-	2,2,2,2	1
57	MG	DA	3325	1/1	0.85	0.26	-	72,72,72,72	0
57	MG	DA	3230	1/1	0.98	0.13	-	35,35,35,35	0
57	MG	CW	107	1/1	0.81	1.01	-	84,84,84,84	0
57	MG	BB	208	1/1	0.85	0.16	-	38,38,38,38	1
57	MG	DA	3338	1/1	0.92	0.30	-	16,16,16,16	1
57	MG	BA	3078	1/1	0.99	0.17	-	1,1,1,1	0
57	MG	BA	3369	1/1	0.83	0.15	-	50,50,50,50	0
57	MG	CA	1728	1/1	0.85	0.38	-	41,41,41,41	1
57	MG	DA	3391	1/1	0.95	0.12	-	19,19,19,19	0
57	MG	B2	602	1/1	0.95	0.25	-	1,1,1,1	1
57	MG	BA	3415	1/1	0.91	0.17	-	18,18,18,18	1
57	MG	DA	3417	1/1	1.00	0.10	-	71,71,71,71	0
57	MG	AA	1799	1/1	0.52	0.36	-	58,58,58,58	1
57	MG	CA	1775	1/1	0.92	0.22	-	1,1,1,1	1
57	MG	AA	1674	1/1	0.91	0.21	-	30,30,30,30	1
57	MG	CA	1685	1/1	0.96	0.21	-	25,25,25,25	1
57	MG	CA	1752	1/1	0.96	0.23	-	85,85,85,85	0
57	MG	BA	3090	1/1	0.97	0.25	-	24,24,24,24	1
57	MG	AA	1783	1/1	0.99	0.09	-	39,39,39,39	1
57	MG	CA	1734	1/1	0.96	0.22	-	46,46,46,46	1
57	MG	DB	219	1/1	0.67	0.75	-	56,56,56,56	1
57	MG	DA	3185	1/1	0.99	0.16	-	19,19,19,19	0
57	MG	DA	3414	1/1	0.92	0.18	-	16,16,16,16	0
57	MG	BA	3444	1/1	0.94	0.65	-	15,15,15,15	1
57	MG	AA	1736	1/1	0.88	0.45	-	20,20,20,20	0
57	MG	BA	3251	1/1	0.57	0.52	-	64,64,64,64	0
57	MG	CA	1619	1/1	0.98	0.07	-	3,3,3,3	0
57	MG	BA	3372	1/1	0.89	0.34	-	20,20,20,20	1
57	MG	DA	3067	1/1	0.95	0.32	-	1,1,1,1	0
57	MG	DA	3275	1/1	0.85	0.89	-	2,2,2,2	1
57	MG	AA	1604	1/1	0.99	0.08	-	3,3,3,3	0
57	MG	BA	3374	1/1	0.85	0.94	-	28,28,28,28	1
57	MG	DA	3409	1/1	0.77	1.58	-	83,83,83,83	1
57	MG	BA	3368	1/1	0.90	0.20	-	1,1,1,1	1
57	MG	DA	3360	1/1	0.82	0.09	-	5,5,5,5	0
57	MG	CA	1796	1/1	-0.37	0.28	-	95,95,95,95	1
57	MG	BA	3394	1/1	0.94	0.36	-	7,7,7,7	1
57	MG	BA	3388	1/1	0.89	0.57	-	4,4,4,4	1
57	MG	DA	3170	1/1	0.93	0.31	-	26,26,26,26	1
57	MG	DA	3402	1/1	0.90	0.23	-	45,45,45,45	1
57	MG	AA	1669	1/1	0.89	0.42	-	5,5,5,5	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
57	MG	DB	217	1/1	0.96	0.05	-	53,53,53,53	1
57	MG	BA	3303	1/1	0.93	0.39	-	8,8,8,8	1
57	MG	CA	1622	1/1	0.90	0.23	-	39,39,39,39	0
57	MG	CA	1674	1/1	0.80	0.24	-	44,44,44,44	1
57	MG	BB	218	1/1	0.90	0.11	-	18,18,18,18	0
57	MG	DA	3332	1/1	0.81	0.34	-	41,41,41,41	1
57	MG	AA	1675	1/1	0.99	0.28	-	41,41,41,41	1
57	MG	BA	3417	1/1	0.84	0.54	-	17,17,17,17	1
57	MG	DA	3116	1/1	0.99	0.40	-	1,1,1,1	1
57	MG	AA	1701	1/1	0.87	0.59	-	8,8,8,8	1
57	MG	BA	3438	1/1	0.97	0.08	-	44,44,44,44	0
57	MG	BA	3356	1/1	0.88	0.30	-	3,3,3,3	1
57	MG	AA	1696	1/1	0.85	0.42	-	45,45,45,45	1
57	MG	DB	218	1/1	0.82	0.25	-	30,30,30,30	1
57	MG	BA	3273	1/1	0.99	0.14	-	57,57,57,57	1
57	MG	DA	3220	1/1	0.79	0.79	-	86,86,86,86	0
57	MG	BA	3165	1/1	0.98	0.09	-	4,4,4,4	1
57	MG	BA	3082	1/1	0.97	0.17	-	1,1,1,1	1
57	MG	BA	3342	1/1	0.97	0.16	-	26,26,26,26	1
57	MG	BA	3366	1/1	0.93	0.54	-	38,38,38,38	1
57	MG	BA	3219	1/1	0.90	0.63	-	1,1,1,1	1
57	MG	BA	3285	1/1	0.83	0.54	-	40,40,40,40	0
57	MG	BA	3097	1/1	0.98	0.10	-	1,1,1,1	0
57	MG	DF	303	1/1	0.95	0.61	-	4,4,4,4	1
57	MG	DA	3397	1/1	0.98	0.31	-	1,1,1,1	0
57	MG	AA	1730	1/1	0.99	0.13	-	1,1,1,1	1
57	MG	DA	3193	1/1	0.97	0.12	-	1,1,1,1	1
57	MG	BA	3416	1/1	0.89	0.35	-	13,13,13,13	0
57	MG	CA	1618	1/1	0.99	0.07	-	22,22,22,22	1
57	MG	BA	3365	1/1	0.83	0.36	-	36,36,36,36	0
57	MG	DA	3333	1/1	0.95	0.10	-	15,15,15,15	0
57	MG	AA	1673	1/1	0.96	0.13	-	12,12,12,12	1
57	MG	BA	3305	1/1	0.96	0.09	-	37,37,37,37	0
57	MG	DA	3033	1/1	0.94	0.20	-	13,13,13,13	0
57	MG	BG	201	1/1	0.92	0.09	-	17,17,17,17	0
57	MG	BB	220	1/1	-0.38	1.19	-	71,71,71,71	1
57	MG	AA	1774	1/1	0.96	0.30	-	23,23,23,23	0
57	MG	AA	1614	1/1	0.95	0.59	-	11,11,11,11	0
57	MG	DA	3191	1/1	0.96	0.18	-	5,5,5,5	1
57	MG	DA	3139	1/1	0.79	0.60	-	53,53,53,53	0
57	MG	AA	1661	1/1	0.98	0.09	-	10,10,10,10	1
57	MG	DA	3287	1/1	0.96	0.14	-	28,28,28,28	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
57	MG	BA	3249	1/1	0.98	0.41	-	58,58,58,58	0
57	MG	BA	3174	1/1	0.95	0.19	-	1,1,1,1	1
57	MG	BA	3131	1/1	0.97	0.12	-	1,1,1,1	0
57	MG	DA	3055	1/1	0.96	0.08	-	1,1,1,1	0
57	MG	DA	3439	1/1	0.28	1.57	-	85,85,85,85	1
57	MG	CA	1668	1/1	0.79	0.27	-	43,43,43,43	0
57	MG	DA	3177	1/1	0.90	0.50	-	22,22,22,22	0
57	MG	BA	3088	1/1	0.86	0.31	-	1,1,1,1	1
57	MG	AA	1659	1/1	0.90	0.53	-	27,27,27,27	0
57	MG	BA	3283	1/1	0.99	0.16	-	2,2,2,2	0
57	MG	AA	1605	1/1	0.98	0.43	-	3,3,3,3	0
57	MG	DA	3250	1/1	0.96	0.18	-	1,1,1,1	0
57	MG	CA	1709	1/1	0.77	0.19	-	46,46,46,46	0
57	MG	DA	3044	1/1	0.99	0.27	-	60,60,60,60	0
57	MG	DA	3166	1/1	0.88	0.35	-	43,43,43,43	0
57	MG	BA	3312	1/1	0.95	0.22	-	1,1,1,1	0
57	MG	BA	3403	1/1	0.97	0.21	-	55,55,55,55	1
57	MG	CA	1725	1/1	0.62	0.63	-	43,43,43,43	1
57	MG	CA	1722	1/1	0.98	0.09	-	1,1,1,1	1
57	MG	CA	1742	1/1	0.87	0.71	-	1,1,1,1	1
57	MG	DA	3432	1/1	0.93	0.41	-	50,50,50,50	0
57	MG	CA	1788	1/1	0.73	0.34	-	1,1,1,1	1
57	MG	BA	3264	1/1	0.83	1.21	-	66,66,66,66	0
57	MG	DA	3236	1/1	0.88	0.39	-	14,14,14,14	0
57	MG	CA	1704	1/1	0.82	0.81	-	62,62,62,62	0
57	MG	AA	1743	1/1	0.62	0.64	-	74,74,74,74	1
57	MG	DA	3347	1/1	0.99	0.31	-	35,35,35,35	1
57	MG	CA	1702	1/1	0.86	0.65	-	47,47,47,47	0
57	MG	AA	1744	1/1	0.93	0.43	-	22,22,22,22	0
57	MG	DA	3056	1/1	0.97	0.24	-	11,11,11,11	0
57	MG	BA	3297	1/1	0.90	0.26	-	12,12,12,12	0
57	MG	DA	3257	1/1	0.99	0.15	-	54,54,54,54	0
57	MG	DA	3050	1/1	0.98	0.45	-	136,136,136,136	1
57	MG	BA	3014	1/1	0.68	0.77	-	51,51,51,51	0
57	MG	AA	1664	1/1	0.97	0.21	-	4,4,4,4	0
57	MG	DA	3307	1/1	0.77	0.49	-	43,43,43,43	0
57	MG	BA	3023	1/1	0.97	0.10	-	1,1,1,1	1
57	MG	BA	3281	1/1	0.44	1.97	-	43,43,43,43	1
57	MG	AA	1755	1/1	0.91	0.25	-	47,47,47,47	0
57	MG	CA	1751	1/1	0.96	0.31	-	10,10,10,10	0
57	MG	DA	3434	1/1	0.70	0.38	-	98,98,98,98	0
57	MG	CA	1753	1/1	0.97	0.20	-	7,7,7,7	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
57	MG	AA	1749	1/1	0.72	0.45	-	1,1,1,1	1
57	MG	AA	1717	1/1	0.93	0.19	-	12,12,12,12	1
57	MG	BA	3294	1/1	0.85	0.54	-	55,55,55,55	0
57	MG	AA	1719	1/1	0.93	0.26	-	1,1,1,1	1
57	MG	AA	1617	1/1	0.95	0.11	-	6,6,6,6	1
57	MG	DA	3301	1/1	0.17	1.62	-	55,55,55,55	1
57	MG	BA	3024	1/1	0.98	0.45	-	44,44,44,44	1
57	MG	CA	1647	1/1	0.94	0.43	-	82,82,82,82	0
57	MG	DA	3102	1/1	0.89	0.17	-	3,3,3,3	0
57	MG	B2	601	1/1	0.97	0.53	-	22,22,22,22	0
57	MG	CA	1606	1/1	0.96	0.43	-	29,29,29,29	0
57	MG	DA	3190	1/1	0.97	0.41	-	32,32,32,32	0
57	MG	BA	3227	1/1	0.60	1.37	-	71,71,71,71	1
57	MG	BA	3142	1/1	0.98	0.15	-	67,67,67,67	0
57	MG	BA	3105	1/1	0.98	0.17	-	1,1,1,1	0
57	MG	AA	1606	1/1	0.97	0.15	-	1,1,1,1	0
57	MG	CA	1772	1/1	0.91	0.18	-	60,60,60,60	0
57	MG	AA	1722	1/1	0.97	0.12	-	37,37,37,37	0
57	MG	AX	104	1/1	0.99	0.11	-	55,55,55,55	1
57	MG	BA	3064	1/1	0.98	0.30	-	1,1,1,1	0
57	MG	BA	3419	1/1	0.98	0.07	-	57,57,57,57	1
57	MG	BA	3181	1/1	0.95	0.09	-	17,17,17,17	0
57	MG	BA	3217	1/1	0.95	0.33	-	35,35,35,35	0
57	MG	AA	1677	1/1	0.96	0.12	-	42,42,42,42	0
57	MG	BA	3157	1/1	0.86	0.20	-	28,28,28,28	0
57	MG	DA	3403	1/1	0.91	0.49	-	47,47,47,47	1
57	MG	AA	1795	1/1	0.97	0.16	-	1,1,1,1	0
57	MG	BA	3398	1/1	0.96	0.10	-	11,11,11,11	0
57	MG	CA	1729	1/1	0.89	0.56	-	63,63,63,63	0
57	MG	BA	3133	1/1	0.96	0.22	-	1,1,1,1	0
57	MG	DB	216	1/1	0.82	0.28	-	54,54,54,54	0
57	MG	CA	1735	1/1	0.80	0.31	-	1,1,1,1	1
57	MG	BA	3121	1/1	0.95	0.35	-	30,30,30,30	0
57	MG	BA	3442	1/1	0.94	0.16	-	33,33,33,33	0
57	MG	B5	102	1/1	0.94	0.36	-	48,48,48,48	0
57	MG	DA	3295	1/1	0.57	0.23	-	79,79,79,79	0
57	MG	AA	1791	1/1	0.70	1.26	-	35,35,35,35	1
57	MG	BA	3098	1/1	0.97	0.15	-	1,1,1,1	0
57	MG	BA	3385	1/1	0.93	0.16	-	7,7,7,7	0
57	MG	DA	3373	1/1	0.93	0.26	-	74,74,74,74	0
57	MG	CA	1682	1/1	0.96	0.24	-	9,9,9,9	0
57	MG	CA	1673	1/1	0.69	0.11	-	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
57	MG	AA	1608	1/1	0.92	0.06	-	3,3,3,3	0
57	MG	AA	1706	1/1	0.45	0.57	-	58,58,58,58	1
57	MG	BA	3031	1/1	0.99	0.30	-	1,1,1,1	0
57	MG	DD	303	1/1	0.94	0.20	-	1,1,1,1	0
57	MG	BA	3170	1/1	0.99	0.09	-	1,1,1,1	1
57	MG	BA	3184	1/1	0.93	0.11	-	44,44,44,44	0
57	MG	BA	3037	1/1	0.95	0.25	-	27,27,27,27	0
57	MG	AA	1727	1/1	0.98	0.14	-	63,63,63,63	0
57	MG	BA	3284	1/1	0.89	0.30	-	12,12,12,12	1
57	MG	BA	3410	1/1	0.97	0.20	-	6,6,6,6	1
57	MG	BA	3179	1/1	0.92	0.18	-	30,30,30,30	0
57	MG	DA	3254	1/1	0.98	0.24	-	109,109,109,109	1
57	MG	DA	3151	1/1	0.97	0.20	-	1,1,1,1	1
57	MG	BA	3228	1/1	0.93	0.24	-	50,50,50,50	0
57	MG	BA	3164	1/1	0.94	0.46	-	56,56,56,56	0
57	MG	BA	3159	1/1	0.93	0.40	-	1,1,1,1	0
57	MG	AA	1711	1/1	0.99	0.13	-	21,21,21,21	1
57	MG	AA	1663	1/1	0.90	0.59	-	36,36,36,36	0
57	MG	DA	3364	1/1	0.96	0.26	-	42,42,42,42	0
57	MG	DA	3036	1/1	0.96	0.46	-	13,13,13,13	1
57	MG	AA	1665	1/1	0.89	0.44	-	21,21,21,21	0
57	MG	DA	3413	1/1	0.97	0.10	-	10,10,10,10	1
57	MG	D1	102	1/1	0.88	0.33	-	51,51,51,51	0
57	MG	DA	3327	1/1	0.97	0.07	-	2,2,2,2	1
57	MG	D5	101	1/1	0.97	0.10	-	20,20,20,20	0
57	MG	BA	3331	1/1	0.91	0.14	-	11,11,11,11	1
57	MG	DA	3280	1/1	0.95	0.16	-	24,24,24,24	1
57	MG	AA	1699	1/1	0.97	0.07	-	1,1,1,1	1
57	MG	AA	1746	1/1	0.91	0.39	-	29,29,29,29	0
57	MG	CA	1670	1/1	0.95	0.13	-	23,23,23,23	0
57	MG	AA	1688	1/1	0.91	0.45	-	12,12,12,12	1
57	MG	AA	1657	1/1	0.98	0.17	-	8,8,8,8	1
57	MG	DA	3209	1/1	0.97	0.25	-	1,1,1,1	1
57	MG	AE	202	1/1	0.90	0.20	-	37,37,37,37	0
57	MG	BA	3252	1/1	0.91	0.31	-	23,23,23,23	0
57	MG	CW	123	1/1	0.42	0.33	-	1,1,1,1	1
57	MG	AL	202	1/1	0.96	0.20	-	1,1,1,1	0
57	MG	BA	3093	1/1	0.93	0.14	-	1,1,1,1	0
57	MG	BA	3104	1/1	0.97	0.10	-	1,1,1,1	0
57	MG	AA	1771	1/1	0.96	0.17	-	9,9,9,9	0
57	MG	DB	203	1/1	0.97	0.30	-	60,60,60,60	0
57	MG	DG	201	1/1	0.88	0.22	-	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
57	MG	BA	3229	1/1	0.78	0.20	-	39,39,39,39	0
57	MG	BA	3141	1/1	0.83	0.26	-	6,6,6,6	1
57	MG	DA	3145	1/1	0.93	0.47	-	56,56,56,56	1
57	MG	CA	1615	1/1	0.90	0.24	-	42,42,42,42	0
57	MG	DA	3346	1/1	0.75	0.44	-	115,115,115,115	0
57	MG	BA	3269	1/1	0.87	0.21	-	22,22,22,22	0
57	MG	AW	110	1/1	0.80	0.31	-	30,30,30,30	1
57	MG	AA	1748	1/1	0.80	0.18	-	73,73,73,73	0
57	MG	CA	1662	1/1	0.97	0.45	-	1,1,1,1	0
57	MG	CW	104	1/1	0.74	0.21	-	35,35,35,35	1
57	MG	BB	209	1/1	0.68	0.50	-	108,108,108,108	0
57	MG	DA	3233	1/1	0.93	0.29	-	1,1,1,1	1
57	MG	CA	1747	1/1	0.76	0.68	-	19,19,19,19	1
57	MG	DA	3065	1/1	0.96	0.26	-	1,1,1,1	1
57	MG	DA	3395	1/1	0.91	0.65	-	1,1,1,1	0
57	MG	BA	3100	1/1	0.91	0.33	-	1,1,1,1	1
57	MG	DA	3111	1/1	0.98	0.14	-	4,4,4,4	0
57	MG	BA	3152	1/1	0.90	0.23	-	62,62,62,62	0
57	MG	AA	1621	1/1	0.92	0.12	-	3,3,3,3	0
57	MG	AA	1776	1/1	0.96	0.21	-	33,33,33,33	1
57	MG	BA	3254	1/1	0.98	0.05	-	5,5,5,5	0
57	MG	BA	3238	1/1	0.85	0.69	-	38,38,38,38	1
57	MG	DA	3357	1/1	0.94	0.07	-	52,52,52,52	0
57	MG	AA	1631	1/1	0.90	0.23	-	1,1,1,1	1
57	MG	AW	103	1/1	0.76	0.28	-	1,1,1,1	1
57	MG	BA	3370	1/1	0.91	0.31	-	37,37,37,37	0
57	MG	DA	3115	1/1	0.94	0.41	-	6,6,6,6	0
57	MG	DA	3279	1/1	0.82	0.46	-	75,75,75,75	0
57	MG	CA	1780	1/1	0.93	0.72	-	31,31,31,31	1
57	MG	DA	3400	1/1	0.79	0.80	-	61,61,61,61	1
57	MG	DA	3016	1/1	0.81	0.18	-	57,57,57,57	0
57	MG	BA	3421	1/1	0.92	0.67	-	39,39,39,39	1
57	MG	DA	3204	1/1	0.98	0.22	-	51,51,51,51	1
57	MG	DA	3355	1/1	0.79	0.19	-	42,42,42,42	1
57	MG	DA	3006	1/1	0.73	0.48	-	93,93,93,93	0
57	MG	BA	3429	1/1	0.92	0.16	-	32,32,32,32	0
57	MG	CA	1733	1/1	0.86	0.40	-	59,59,59,59	0
57	MG	CW	122	1/1	0.93	0.21	-	70,70,70,70	0
57	MG	DA	3326	1/1	0.75	0.82	-	96,96,96,96	1
57	MG	DA	3081	1/1	0.96	0.14	-	11,11,11,11	0
57	MG	CA	1759	1/1	0.31	2.40	-	108,108,108,108	1
57	MG	CA	1762	1/1	0.94	0.30	-	7,7,7,7	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
57	MG	CA	1602	1/1	0.70	0.62	-	72,72,72,72	0
57	MG	DA	3100	1/1	0.82	0.37	-	63,63,63,63	1
57	MG	DA	3152	1/1	0.78	0.66	-	62,62,62,62	1
57	MG	CA	1778	1/1	0.85	0.46	-	1,1,1,1	1
57	MG	BA	3280	1/1	0.90	0.23	-	72,72,72,72	0
57	MG	AA	1641	1/1	0.98	0.13	-	26,26,26,26	0
57	MG	BA	3045	1/1	0.98	0.23	-	1,1,1,1	1
57	MG	BA	3169	1/1	0.92	0.33	-	33,33,33,33	0
57	MG	BA	3324	1/1	0.67	0.34	-	56,56,56,56	0
57	MG	DA	3054	1/1	0.98	0.10	-	1,1,1,1	0
57	MG	AA	1728	1/1	0.93	0.16	-	34,34,34,34	0
57	MG	DA	3331	1/1	0.89	0.22	-	79,79,79,79	1
57	MG	DA	3316	1/1	0.83	0.40	-	14,14,14,14	1
57	MG	AW	112	1/1	0.35	0.23	-	64,64,64,64	1
57	MG	DA	3060	1/1	0.98	0.23	-	1,1,1,1	0
57	MG	DA	3031	1/1	0.97	0.28	-	2,2,2,2	0
57	MG	AA	1648	1/1	0.93	0.17	-	3,3,3,3	1
57	MG	CA	1755	1/1	0.94	0.30	-	1,1,1,1	0
57	MG	DA	3162	1/1	0.95	0.14	-	2,2,2,2	1
57	MG	AL	201	1/1	0.95	0.15	-	1,1,1,1	1
57	MG	CW	108	1/1	0.86	0.43	-	28,28,28,28	1
57	MG	CA	1610	1/1	0.88	0.23	-	15,15,15,15	1
57	MG	BA	3315	1/1	0.83	0.55	-	87,87,87,87	0
57	MG	CA	1603	1/1	0.98	0.22	-	77,77,77,77	0
57	MG	DA	3283	1/1	0.96	0.21	-	7,7,7,7	1
57	MG	BA	3325	1/1	0.80	0.26	-	30,30,30,30	0
57	MG	BA	3028	1/1	0.97	0.41	-	1,1,1,1	0
57	MG	D1	104	1/1	0.59	0.56	-	74,74,74,74	1
57	MG	AA	1780	1/1	0.46	0.68	-	95,95,95,95	1
57	MG	DB	213	1/1	0.90	0.15	-	28,28,28,28	1
57	MG	DA	3367	1/1	0.72	0.56	-	95,95,95,95	1
57	MG	DA	3165	1/1	0.79	0.18	-	47,47,47,47	0
57	MG	AA	1640	1/1	0.83	0.33	-	18,18,18,18	0
57	MG	BA	3386	1/1	0.93	0.14	-	13,13,13,13	0
57	MG	DA	3013	1/1	0.95	0.51	-	7,7,7,7	1
57	MG	CA	1635	1/1	0.95	0.06	-	6,6,6,6	0
57	MG	DA	3427	1/1	0.97	0.22	-	1,1,1,1	0
57	MG	CA	1773	1/1	0.98	0.30	-	9,9,9,9	0
57	MG	DA	3258	1/1	0.80	0.67	-	23,23,23,23	1
57	MG	DA	3368	1/1	0.92	0.37	-	78,78,78,78	0
57	MG	DA	3248	1/1	0.94	0.33	-	5,5,5,5	1
57	MG	DA	3365	1/1	0.95	0.21	-	24,24,24,24	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
57	MG	DA	3215	1/1	0.71	0.58	-	17,17,17,17	1
57	MG	BA	3154	1/1	0.89	0.19	-	56,56,56,56	0
57	MG	BA	3293	1/1	0.96	0.10	-	19,19,19,19	0
57	MG	DA	3043	1/1	0.97	0.16	-	6,6,6,6	0
57	MG	AA	1611	1/1	0.92	0.13	-	24,24,24,24	0
57	MG	BA	3127	1/1	0.97	0.45	-	3,3,3,3	1
57	MG	BA	3059	1/1	0.97	0.12	-	9,9,9,9	0
57	MG	AA	1676	1/1	0.86	0.24	-	32,32,32,32	0
57	MG	BA	3328	1/1	0.90	0.13	-	33,33,33,33	0
57	MG	AA	1766	1/1	0.94	0.20	-	1,1,1,1	1
57	MG	DA	3353	1/1	0.98	0.25	-	107,107,107,107	1
57	MG	AA	1616	1/1	0.92	0.12	-	24,24,24,24	1
57	MG	DA	3247	1/1	0.94	0.30	-	13,13,13,13	0
57	MG	BA	3209	1/1	0.92	0.08	-	18,18,18,18	0
57	MG	AA	1632	1/1	0.98	0.19	-	4,4,4,4	0
57	MG	DA	3380	1/1	0.98	0.10	-	16,16,16,16	1
57	MG	BA	3334	1/1	0.70	0.45	-	51,51,51,51	1
57	MG	CA	1724	1/1	0.87	0.36	-	51,51,51,51	0
57	MG	CA	1626	1/1	0.98	0.09	-	23,23,23,23	0
57	MG	CA	1758	1/1	0.78	0.39	-	21,21,21,21	1
57	MG	BA	3074	1/1	0.99	0.08	-	1,1,1,1	1
57	MG	AW	117	1/1	0.89	0.18	-	19,19,19,19	1
57	MG	DA	3440	1/1	0.88	0.40	-	80,80,80,80	0
57	MG	CA	1666	1/1	0.92	0.28	-	1,1,1,1	0
57	MG	AA	1680	1/1	0.79	0.33	-	53,53,53,53	0
57	MG	DA	3330	1/1	0.91	0.30	-	73,73,73,73	0
57	MG	DA	3011	1/1	0.99	0.11	-	42,42,42,42	0
57	MG	DU	203	1/1	0.90	0.25	-	49,49,49,49	1
57	MG	DA	3134	1/1	0.96	0.31	-	8,8,8,8	0
57	MG	AA	1638	1/1	0.95	0.41	-	39,39,39,39	0
57	MG	BP	201	1/1	0.96	0.28	-	11,11,11,11	1
57	MG	CX	103	1/1	0.88	0.28	-	45,45,45,45	1
57	MG	AA	1655	1/1	0.92	0.33	-	31,31,31,31	0
57	MG	CW	114	1/1	0.93	0.17	-	4,4,4,4	1
57	MG	DA	3259	1/1	0.99	0.19	-	22,22,22,22	0
57	MG	DA	3024	1/1	0.96	0.32	-	32,32,32,32	0
57	MG	CA	1679	1/1	0.93	0.21	-	22,22,22,22	0
57	MG	AA	1602	1/1	0.92	0.15	-	64,64,64,64	0
57	MG	BA	3382	1/1	0.97	0.06	-	38,38,38,38	0
57	MG	AA	1800	1/1	0.86	0.29	-	38,38,38,38	0
57	MG	DA	3264	1/1	0.92	0.24	-	25,25,25,25	0
57	MG	DA	3187	1/1	0.94	0.74	-	83,83,83,83	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
57	MG	CA	1802	1/1	0.82	1.37	-	39,39,39,39	0
57	MG	BA	3265	1/1	0.98	0.10	-	37,37,37,37	0
57	MG	DA	3235	1/1	0.99	0.12	-	7,7,7,7	1
57	MG	DA	3302	1/1	0.86	0.27	-	80,80,80,80	1
57	MG	CA	1710	1/1	0.98	0.18	-	16,16,16,16	0
57	MG	BA	3160	1/1	0.95	0.38	-	6,6,6,6	0
57	MG	CA	1764	1/1	0.85	0.08	-	49,49,49,49	0
57	MG	BA	3253	1/1	0.93	0.37	-	56,56,56,56	1
57	MG	DB	208	1/1	0.82	0.17	-	53,53,53,53	1
57	MG	BB	214	1/1	0.93	0.15	-	34,34,34,34	0
57	MG	DA	3311	1/1	0.97	0.22	-	11,11,11,11	1
57	MG	DA	3290	1/1	0.88	0.49	-	21,21,21,21	0
57	MG	DA	3144	1/1	0.91	0.21	-	1,1,1,1	0
57	MG	BA	3240	1/1	0.98	0.20	-	8,8,8,8	0
57	MG	AA	1770	1/1	0.99	0.11	-	16,16,16,16	1
57	MG	CA	1777	1/1	0.97	0.13	-	47,47,47,47	0
57	MG	AA	1737	1/1	0.79	0.36	-	30,30,30,30	1
57	MG	CW	112	1/1	0.79	0.47	-	24,24,24,24	1
57	MG	AA	1745	1/1	0.97	0.35	-	79,79,79,79	0
57	MG	DA	3278	1/1	0.65	0.33	-	36,36,36,36	1
57	MG	CA	1706	1/1	0.90	0.42	-	47,47,47,47	1
57	MG	DA	3263	1/1	0.99	0.14	-	16,16,16,16	0
57	MG	AA	1652	1/1	0.94	0.45	-	11,11,11,11	0
57	MG	BA	3215	1/1	0.94	0.72	-	38,38,38,38	1
57	MG	BA	3117	1/1	0.92	0.19	-	8,8,8,8	0
57	MG	CA	1633	1/1	0.97	0.08	-	2,2,2,2	0
57	MG	DA	3095	1/1	0.99	0.10	-	1,1,1,1	0
57	MG	AW	107	1/1	0.97	0.76	-	57,57,57,57	0
57	MG	BA	3426	1/1	0.95	0.20	-	27,27,27,27	0
57	MG	DA	3004	1/1	0.78	0.84	-	64,64,64,64	0
57	MG	AA	1790	1/1	0.92	0.28	-	35,35,35,35	0
57	MG	AV	102	1/1	0.71	0.41	-	73,73,73,73	0
57	MG	CA	1721	1/1	0.92	0.19	-	17,17,17,17	1
57	MG	DA	3206	1/1	0.84	0.69	-	32,32,32,32	1
57	MG	CA	1784	1/1	0.93	0.23	-	1,1,1,1	1
57	MG	DA	3341	1/1	0.94	0.56	-	20,20,20,20	0
57	MG	DA	3420	1/1	0.92	0.26	-	14,14,14,14	1
57	MG	DA	3041	1/1	0.95	0.12	-	24,24,24,24	0
57	MG	DA	3366	1/1	0.69	0.40	-	46,46,46,46	1
57	MG	BA	3132	1/1	0.92	0.12	-	24,24,24,24	1
57	MG	DA	3350	1/1	0.98	0.55	-	73,73,73,73	1
57	MG	DS	201	1/1	0.88	0.21	-	1,1,1,1	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
57	MG	DA	3231	1/1	0.93	0.45	-	14,14,14,14	0
57	MG	DA	3310	1/1	0.91	0.86	-	7,7,7,7	1
57	MG	DA	3217	1/1	0.94	0.25	-	31,31,31,31	0
57	MG	AA	1702	1/1	0.84	0.49	-	57,57,57,57	0
57	MG	BA	3168	1/1	0.76	0.37	-	29,29,29,29	0
57	MG	BA	3360	1/1	0.94	0.27	-	10,10,10,10	0
57	MG	BA	3163	1/1	0.88	0.21	-	33,33,33,33	0
57	MG	DA	3334	1/1	0.98	0.22	-	30,30,30,30	0
57	MG	DA	3240	1/1	0.97	0.13	-	72,72,72,72	0
57	MG	DA	3383	1/1	0.97	0.15	-	42,42,42,42	1
57	MG	DA	3319	1/1	0.76	0.25	-	116,116,116,116	1
57	MG	BA	3162	1/1	0.99	0.23	-	54,54,54,54	1
57	MG	CW	101	1/1	0.83	1.80	-	83,83,83,83	1
57	MG	AA	1646	1/1	0.88	0.43	-	29,29,29,29	0
57	MG	BA	3298	1/1	0.99	0.17	-	1,1,1,1	1
57	MG	BA	3036	1/1	0.97	0.40	-	18,18,18,18	0
57	MG	BA	3146	1/1	0.96	0.13	-	1,1,1,1	0
57	MG	AA	1753	1/1	0.92	0.41	-	48,48,48,48	0
57	MG	BA	3103	1/1	0.83	0.95	-	33,33,33,33	1
57	MG	DA	3303	1/1	0.79	0.54	-	4,4,4,4	0
57	MG	BB	206	1/1	0.88	0.70	-	13,13,13,13	1
57	MG	CA	1749	1/1	0.97	0.10	-	49,49,49,49	1
57	MG	DA	3277	1/1	0.94	0.17	-	22,22,22,22	0
57	MG	DA	3339	1/1	0.90	0.50	-	1,1,1,1	1
57	MG	DA	3234	1/1	0.99	0.11	-	88,88,88,88	1
57	MG	AA	1682	1/1	0.87	0.22	-	46,46,46,46	0
57	MG	DN	201	1/1	0.95	0.18	-	21,21,21,21	1
57	MG	BA	3222	1/1	0.91	0.14	-	1,1,1,1	0
57	MG	BA	3010	1/1	0.81	0.91	-	17,17,17,17	1
57	MG	BA	3171	1/1	0.96	0.17	-	1,1,1,1	1
57	MG	CA	1680	1/1	0.89	0.23	-	75,75,75,75	1
57	MG	BB	219	1/1	0.94	0.46	-	73,73,73,73	1
57	MG	CA	1672	1/1	0.91	0.27	-	44,44,44,44	0
57	MG	BA	3011	1/1	0.94	0.42	-	15,15,15,15	0
57	MG	BA	3080	1/1	0.98	0.23	-	26,26,26,26	0
57	MG	BA	3357	1/1	0.98	0.17	-	105,105,105,105	1
57	MG	DA	3291	1/1	0.97	0.16	-	1,1,1,1	1
57	MG	BA	3055	1/1	0.98	0.16	-	1,1,1,1	0
57	MG	AA	1739	1/1	0.92	0.44	-	44,44,44,44	0
57	MG	CA	1785	1/1	0.44	0.42	-	112,112,112,112	0
57	MG	BA	3039	1/1	0.97	0.09	-	1,1,1,1	0
57	MG	BA	3040	1/1	0.94	0.09	-	16,16,16,16	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
57	MG	DA	3390	1/1	0.85	0.19	-	34,34,34,34	0
57	MG	BA	3233	1/1	0.96	0.30	-	1,1,1,1	0
57	MG	DA	3090	1/1	0.13	0.55	-	97,97,97,97	0
57	MG	AV	104	1/1	0.99	0.09	-	58,58,58,58	1
57	MG	DA	3210	1/1	0.94	0.11	-	93,93,93,93	1
57	MG	BA	3262	1/1	0.99	0.18	-	32,32,32,32	1
57	MG	CA	1766	1/1	0.98	0.16	-	1,1,1,1	0
57	MG	CA	1787	1/1	0.97	0.48	-	11,11,11,11	0
57	MG	BA	3192	1/1	0.95	0.46	-	15,15,15,15	0
57	MG	AA	1644	1/1	0.87	0.29	-	1,1,1,1	0
57	MG	BA	3375	1/1	0.89	0.14	-	62,62,62,62	0
57	MG	DA	3382	1/1	0.82	0.37	-	71,71,71,71	0
57	MG	BA	3220	1/1	0.99	0.16	-	16,16,16,16	1
57	MG	BA	3441	1/1	0.84	0.19	-	6,6,6,6	1
57	MG	DA	3246	1/1	0.97	0.23	-	57,57,57,57	0
57	MG	DP	202	1/1	0.89	0.32	-	1,1,1,1	1
57	MG	DA	3359	1/1	0.94	0.17	-	40,40,40,40	0
57	MG	CA	1648	1/1	0.94	0.50	-	14,14,14,14	1
57	MG	BA	3139	1/1	0.93	0.39	-	8,8,8,8	1
57	MG	BA	3288	1/1	0.95	0.23	-	44,44,44,44	1
57	MG	DA	3176	1/1	0.62	0.62	-	77,77,77,77	0
57	MG	CA	1695	1/1	0.93	0.25	-	1,1,1,1	1

## 6.5 Other polymers [i](#)

There are no such residues in this entry.